

KENNETH G. FURTON

Provost Emeritus and Distinguished University Professor, FIU, Miami, FL, 33199
Executive Director, Global Forensic and Justice Center
Director, Center for Advanced Research in Forensic Science forensicrosearch.org
President, Phi Beta Kappa | Epsilon of Florida pbk.fiu.edu
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EDUCATION

- 1986-1988 Swansea University (Prifysgol Abertawe), Swansea, Wales, U.K.
Postdoctoral Research Associate (Nuclear Chemistry)
- 1983-1986 Wayne State University, Detroit, MI
Ph.D. in Chemistry (Analytical) with a minor in Biology
- 1980-1983 University of Central Florida, Orlando, FL
B.S. in Forensic Science with a minor in Chemistry

EXPERIENCE

- 2022-present Executive Director, Global Forensic and Justice Center, Chief Scientific Officer
Provost Emeritus, Distinguished University Professor, FIU, Miami, FL
- 2022-present Center Director, NSF, Industry–University Cooperative Research Centers,
Center for Advanced Research in Forensic Science forensicrosearch.org
- 2024-present President, Phi Beta Kappa | Epsilon of Florida pbk.fiu.edu
- 2022-2025 Chief Scientific Officer, Florida International University, Miami, FL
- 2014-2022 Provost, Executive Vice President and COO, Florida International University, Miami, FL
- 2007-2014 Dean, College of Arts & Sciences, Florida International University, Miami, FL
- 2008-present Director Emeritus, International Forensic Research Institute, FIU, Miami, FL
- 2004-2007 Associate Dean for Budget, Facilities and Research, College of Arts & Sciences,
FIU, Miami, FL
- 2001-2004 Associate Dean, Budget & Facilities, College of Arts & Sciences, FIU, Miami, FL
- 2005-2007 Co-Director and Director of Strategic Planning and Research, IFRI, FIU, Miami, FL
- 1997-2005 Founding Director, International Forensic Research Institute (IFRI), Miami, FL
- 1996-2003 Founding Director, FIU Forensic Science Certificate Program
- 1988-2003 Director, Criminalistics Chemistry Program, FIU, Miami, FL
- 2001-present Professor, Department of Chemistry and Biochemistry, FIU, Miami, FL

1997-2001 Chair, Department of Chemistry, Florida International University FIU, Miami, FL

1993-2001 Associate Professor of Chemistry, Department of Chemistry, FIU, Miami, FL

1994-1997 Graduate Program Director, Department of Chemistry, FIU, Miami, FL

1988-1993 Assistant Professor of Chemistry, Department of Chemistry, FIU, Miami, FL

1989-1995 Adjunct Professor, Department of Marine and Atmospheric Chemistry
University of Miami-RSMAS, Miami, FL

1986-1988 Lecturer, Senior Research Assistant, Chemistry Department, University of Wales,
Swansea, U.K
Postdoctoral Research Assistant, British Nuclear Fuels (BNFL), Sellafield, U.K.

1983-1986 Graduate Research/Teaching Assistant, Department of Chemistry
Wayne State University, Detroit, MI

1985-1986 Research Consultant, Departments of Pharmacology and Pathology
Wayne State University Medical School, Detroit, MI

1983 Forensic Science Intern, Chemical Analysis Unit
Crime Laboratory, Detroit Police Headquarters, Detroit, MI

1981-1983 Student Escort/Patrolman, University of Central Florida Police Department
Lab/Research Assistant, UCF Chemistry Department, Orlando, FL

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Academy of Science, Engineering and Medicine, elected member 2020
National Academy of Inventors Fellow 2016
American Chemical Society - Past Chairman, South Florida Section 1993-94
American Academy of Forensic Sciences, Elected Fellow
American Society of Crime Laboratory Directors, Academic Affiliate

AWARDS AND HONORS

2022 Named Distinguished University Professor
2016 Elected Fellow of the National Academy of Inventors
2012 Selected as a Charter Member of FIU Chapter of the National Academy of Inventors
2011 Appreciation Award as judge of Eukanuba 1st Police & Military Detection K9 Competition
2010 Elected as a Member of Phi Beta Kappa
2009 Lifetime Brotherhood Award, Pi-Phi Zeta of Lambda Chi Alpha (founding advisor)
2008 Selected as one of 12 members of U.S.-China NSF Delegation of Science Deans
2008 Collegian Award, Wayne State University
2006 Appreciation Award for Outstanding Contributions to the Ronald E. McNair Program
2005 FIU President's Council Outstanding University Professor Award
2004 Appreciation Award from Florida Highway Patrol Academy
2003 Recognition of Commitment and Service Award to the ACS Project SEED Program
2003 National Academy of Sciences Panel Invitee "Biotechnology Applications for

Improving the Detection Capabilities of Canines”
2002 Pacific Northwest Police Detector Dog Association Appreciation Award
2001 Special Achievement Award (for 11 years of service to FIU Libraries)
2001 U.S. State Department/Metro-Dade K9 Training Center Appreciation Award
2001 FIU Foundation Excellence in Service Award
1999 Florida SUS Board of Regents Teaching Incentive Program Award
1999 FIU Faculty Senate Service Award (For Service on Research I Task Force)
1998, 99 FIU Faculty Senate Service Award (For Service as Chair of Univ. Library Cmt.)
1997 California Narcotic Canine Association (CNCA) Appreciation Award
1996 International Association of Forensic Sciences Young Investigators' Award
1996 FIU Foundation Excellence in Teaching Award
1993 FIU Foundation Excellence in Research Award
1986 David F. Boltz Award in Analytical Chemistry
1985 Thomas C. Rumble University Graduate Fellow
1984 Phi Lambda Upsilon (National Honorary Chemical Society)

FIU SERVICE (to the University)

2014-2022	Provost and Executive Vice President, Chief Operating Officer of Florida International University. Responsible for the oversight of the University's curricular, instructional and research affairs. Oversee the way FIU creates, disseminates and certifies knowledge. Manage the Universities 11 academic colleges, 1600 faculty and over 5000 staff with an annual budget in excess of \$1 Billion.
2020-2022	Chair of the Council of Academic Vice Presidents (CAVP). Represented the Provosts of the 12 State University System of Florida Universities including overseeing regular meetings and providing updates on council activities and issues at the Florida Board of Governors meetings
2015-2017	CAVP liaison for the common LMS initiative. Lead the task force for the College Association of Vice Presidents in selecting a common Learning Management System for the entire Florida State University System comprised of 12 state Universities.
2007-2014	Dean, College of Arts and Sciences. Academic leader of the College of Arts & Sciences, the oldest and largest College at Florida International University. Oversee and manage the College's 16 academic departments, 66 centers and programs and over 1,000 faculty and staff, housed within three thematic schools. With an annual budget of over \$100 million and an enrollment of over 25,000, representing nearly half the student body at FIU, the College plays a vital role in developing students into engaged global citizens dedicated to life-long learning. Since 2007, the College has raised over \$42 million in philanthropic gifts and increased its research grants from \$27 million to over \$60 million in 2013.
2009-2014	Successfully led the searches for FIU executive positions including the Dean of Hospitality and Tourism Management, the Dean of Journalism and Mass Communication, the Executive Director of Alumni Relations and the Dean of Libraries.
2009-2014	Team Leader, APLU's Science and Math Teacher Imperative Leadership Collaborative Liaison for FIU in the Association of Public and Land Grant Institution's Science and Math Teachers Imperative. One of 26 APLU universities chosen nationwide to participate in the 123 universities accepting responsibility and leadership to produce more and better math and science teachers.

- 2012-2014 Board of Directors, FIU Foundation
FIU representative appointed by the President. Florida International University Foundation, Inc. (FIU Foundation) was established in 1969 to encourage, solicit, receive and administer gifts for scientific, educational and charitable purposes for the advancement of Florida International University and its objectives.
- 2008-2022 Board of Directors, FIU Research Foundation
Dean representative appointed by the President of FIU. Established in 1997, the role of the FIU Research Foundation includes promoting, encouraging, and assisting the research and training activities of faculty, staff, and students of FIU through income from contracts, grants, and other sources, such as income derived from or related to the development and commercialization of University work products.
- 2008-2014 Member, FIU Operations Committee
Elected by fellow Deans as Dean's representative to the University Operations Committee composed of Provost and Vice Presidents
- 2009 Member, Presidential Advisory Search Committee
Committee responsible for providing the FIU Board of Trustees' Presidential Search Committee with insight and recommendations regarding the selection of the fifth president of FIU. Mark B. Rosenberg was selected as FIU President on April 25, 2009.
- 2004-2007 Associate Dean of Budget, Facilities and Research, College of Arts & Sciences
The mission of the Office of Research at the College of Arts and Sciences is to meet the administrative needs of the College's research community including helping to identify, obtain, and administer external research funds (current total C&G annual budget of approximately \$30M). Staff includes an Assistant Director of Research, a grant specialist, a financial manager and an office assistant. The Office of Research also coordinates with accountants in departments and Centers and Institutes where Arts & Sciences faculty are affiliated. Also oversee and have signature authority on all College E&G accounts (approximately \$57M), foundation accounts (approximately \$10M) and auxiliary accounts (approximately \$5M).
- 2001-2004 Associate Dean, College of Arts & Sciences Office of Budget and Facilities
The areas of responsibility for this office include all issues of college budget planning and management (current total E&G annual budget of approximately \$57M) as well as current space allocations/maintenance and future space and emergency planning. This office coordinates facilities management and inventory, faculty contracts and adjunct contracts. In addition, the office works with most of the staff and administrators in the College on issues including enrollment and adjunct budgets, C&G and Recharge Center funds, Graduate Stipends and Assistantships, private funding, and staffing and salary models. Budget office staff includes a budget coordinator, two accountants, a senior secretary and a coordinator of administrative services. Outreach and On-line program staff includes a Director and a program assistant.
- 2005-2007 Co-Director, International Forensic Research Institute (IFRI)
Director of Strategic Planning and Research, International Forensic Research Institute (IFRI).
- 1997-2005 Director, International Forensic Research Institute (IFRI)

Founding director of State University System Board of Regents Type II Center. IFRI was the first academic Forensic Center approved by the State in 1997. IFRI houses the first State approved M.S. program in Forensic Science started in 1998 and coordinates a novel Ph.D. program since 2004. FIU was one of the first 5 forensic science programs in the country accredited by the American Academy of Forensic Sciences.

- 1997-2004 Director, FIU Forensic Science Certificate Program
Founding director of FIU's undergraduate Certificate in Forensic Science.
- 2004-2008 Committee member, FIU Forensic Science Certificate Program
- 2005 Member, Search and Screen Committee for Director of Academic Space
- 2007-2014 Member, Academic Health Sciences Center Master Plan Executive Committee
- 2006-2008 Member, Disaster Resistant University (DRU) Advisory Council
Committee charged with developing a comprehensive DRU Hazard Mitigation Plan based on an assessment of the risks, vulnerabilities and the priorities of FIU. Funded by FEMA, the plan is intended to increase FIU's eligibility for future funding and reduce the impact of hazards the University may face.
- 2006-2008 Member, Intellectual Property Advisory Committee
Committee charged with reviewing invention disclosures and pertinent background information, and advising on patenting scientific and commercialization concerns.
- 2005-2008 Member, Dissertation Year Fellowship and Presidential Awards Evaluation Committee
Committee charged with evaluating applications for University Dissertation Year Fellowship and Presidential Awards
- 2005-2008 Member, Cyberbridges Advisory Committee
Committee charged with evaluating proposals for graduate fellowships integrating Cyber-Infrastructure including high-performance networking and grid computing into science and engineering projects.
- 2005-2007 Member, FIU On-Line Task Force
Committee charged with evaluating the current on-line courses and programs at FIU and developing a strategic plan for the future of on-line learning at FIU.
- 2004-2006 Member, FIU Marketing Task Force
Committee charged with development and implementation of institutional marketing and branding campaign.
- 2004-2005 Member, Sponsored Research Management Council
The purposes of this Council are to establish policies and procedures for sponsored research and to discuss and find solutions to issues connected with submission and management of sponsored projects.
- 2004-2005 Member, FIU Centers & Institutes Work Group
Committee charged with recommending improvements in grouping of centers and policies and procedures.

- 2004-2005 Member, FIU Continuing Education Policy and Procedures Review Task Force
Charged with reviewing all policies and charging practices related to continuing off campus credit/non-credit programs
- 2002-2003 Member, FIU Medical School Task Force
Represented A&S along with Kelsey Downum at meetings of the Medical School Task Force co-chaired by T. Breslin and R. Berkman.
- 2004-2005 Member, Research Libraries Planning Group
Charged with detailing the components needed to implement the research library mission.
- 2002-2003 Member, Building Planning Committee.
Consisting of Deans of CHUA, Architecture and Arts & Sciences to discussions solutions to recurring problems with construction of new buildings.
- 2002-2003 Member, Cross-functional action planning committee on Financial Infrastructure
- 2006-2014 High Pi, Colony 330, Lambda Chi Alpha Fraternity at FIU
Successful colonization of Pi Phi Zeta (chapter) chartered on April 21 2007
- 2004-2014 Member, Alumni Advisory Board, Lambda Chi Alpha Colony at FIU
- 2001 Founding Faculty Advisor, Lambda Chi Alpha Fraternity at FIU - Colony 330
- 2001-2008 Library Committee A&S Dean's Office Representative
- 1997-2001 Member, AMSF University Advisory Committee
- 2000-2002 Member, Faculty Advisory Board, FIU College of Law
- 2000-2001 Member, Information Ecology Committee
Examined our changing information ecology at FIU and proposed strategies and action steps to reduce the "distance" between the libraries and the student user.
- 2000 Author of Faculty Senate Report on the Impact of the FIU Law School on the Library
- 96-98, 00-01 Senator representing the College of Arts & Sciences, FIU Faculty Senate
- 1996-2001 Chair, Faculty Senate Library and Media Committee
- 1998-2000 Chair, SACS Self-Study Library, IS & IT Committee (Library, Instructional Support & Information Technology Resources and Systems)
- 1999 Co-author of the "Makemson-Furton Report" to the Faculty Senate on the analysis of the termination of the Department of Medical Laboratory Sciences
- 1999 Helped select and hosted USF consultant reviewing the Department of Medical Laboratory Sciences and possible restructuring of the program
- 1995-1996 Mentor for the Florida-Georgia Alliance for Minority Participation (FGAMP) in Science, Engineering and Mathematics Scholarship Program at FIU

1991-1993 University Library ILL Committee
1988-1989 University Committee on New Faculty Orientation

FIU SERVICE (to the College)

2000-2001 Member, College of Arts & Sciences Technology Advisory Group
1990-2002 Chair, College of Arts & Sciences Library and Media Committee
1997 FIU Presidential Quality Improvement Program (QIP) Award, \$500,000 to set-up
Advanced Mass Spectrometry Facility (AMSF). Prepared winning proposal and
presentation with R. Jaffe and the support of the Dean's office.
1994 Teaching Incentive Program (TIP) Committee Member
91-92, 94-95 FIU College of Arts & Sciences Procedural Committee

FIU SERVICE (to the Department)

2003-2004 Member, Forensic Scientist Search Committee
2002-2003 Chair, Forensic Chemist Lecturer Search Committee
1998-2008 Forensic Science M.S. Graduate Committee Member
1990-2004 Chemistry Department Graduate Committee Member
1988-2003 Director, Criminalistics Chemistry Program
1997-2001 Chair, Department of Chemistry
1997-2001 Member, AMSF Technical Committee
1988-2001 Library Committee Department Representative (/alternate), Chemistry Department
1997-1998 Member, Chemistry Department Lab/Space Oversight Committee
1996-1998 Chair, Analytical Chemist Search Committee
1988-93,97-98 Faculty Advisor, FIU Chapter, ACS Student Affiliates
Named "Commendable" Chapter '92/'93; "Outstanding" ACS Chapter '97/'98
1993-1997 Faculty Co-Advisor, FIU ACS Student Affiliates Chapter
Named Outstanding" ACS Chapter '93/'94, '94/'95, '95/'96, '96/'97
1996-1997 Member, SERP/Chemistry Search & Screen Committee (2 half-lines filled)
1996-1997 Member, Chemistry Department By-laws Committee

1996-1997	Chair, Chemistry Department Differential Assignment Committee
1994-1997	Director, Chemistry Department Graduate Program
1993-1996	Joint FAU/FIU Chemistry Ph.D. Proposal Committee
1993-1994	Chair, Chemistry Department Budget Committee
1992-1994	Chair, Chemistry Ph.D. Proposal Committee
1992-1995	Laboratory Oversight Committee
1988-1996	Chemistry Department Budget Committee Member
1989-1991	Chair, Environmental Chemist Search Committee

PROFESSIONAL SERVICE (to Associations/Societies)

2003	Invited Attendee of the National Academy of Sciences Group on Terrorism and Canine Detection. Workshop on "Biotechnology Applications for Improving the Detection Capabilities of Canines" held March 18-19, 2003 in Washington, DC.
1999-present	Elected Board Member of the California Narcotic Canine Association (CNCA) including writing science columns for association newsletters.
1998-present	Coordinator, IFRI/NFSTC Florida Statewide Detector Dog Trainer and Team Certification Program. Certified more than 100 Drug and Explosives Detection Teams annually.
1998-2002	Member, Florida Forensic Center Consortium (F2C2) meeting twice a year with other F2C2 member centers.
1998-2001	Member, Ad-Hoc Committee on the Feasibility of Student Affiliate Chapters of the American Academy of Forensic Sciences
1998-2001	Member, American Society of Crime Lab Directors Education Committee
1996-2005	Member, Council on Forensic Science Education, American Academy of Forensic Sciences
1993-present	Reviewer for proposals submitted to the <i>National Science Foundation-Chemistry Division</i> , <i>ACS PRF</i> , <i>National Institute for Occupational Safety & Health</i> , and the <i>Department of Energy</i> .
1989-present	Reviewer for articles in <i>Analytical Chemistry</i> , <i>Journal of Chromatography</i> , <i>Journal of Chromatographic Science</i> , <i>J. Chem. Ed</i> , <i>Environ. Sci & Technol.</i> , <i>J. Microcol. Sepn.</i> , <i>J. Assoc. Off. Anal. Chem</i> , <i>Ind. Eng. Chem. Res.</i> and <i>Analytica Chimica Acta</i> ,
1989-2005	Member of Committee E-30 on Forensic Sciences for the American Society for Testing and Materials (ASTM)

- 1996-1999 Member, International Sub-Committee on Standards in Forensic Science Undergraduate Education, American Academy of Forensic Sciences
- 1995 Immediate Past Chair and Chairman, Long Range Planning, South Florida Section, American Chemical Society
- 1994 Chairman, South Florida Section, American Chemical Society
- 1993 Chair-elect and Program Chairman, South Florida Section, American Chemical Society
- 1991-1996 Reviewed books for *Trends in Analytical Chemistry (TRAC)* and *ACS Books*
- 1993-1995 Midwest Research Institute Committee on SFE Methods Standardization.
- 1993-1996 Team member, Project IV: South Florida Oil Spill Shoreline Protection and Countermeasures: A Study Project for the Initiation of the South Florida Oil Spill Research Center, RSMAS, University of Miami.
- 2005 – 2014 Chair, Scientific Working Group on Dog and Orthogonal Detector Guidelines.
- 2014 – Present Chair, Organization for Scientific Area Committees (OSAC) Dog and Sensors subdivision.
- 2016- Present Chair, Dogs and Sensors Consensus Body of the American Standards Board of the American Academy of Forensic Sciences.

PROFESSIONAL SERVICE (to the Community or Public)

- 2014 Panelist at Libraries Luncheon on the Future of Libraries in Miami Dade County. September 29, 2014
- 2003-present Volunteer Pit Reporter, American Le Mans Series (ALMS) Trackside Media, International Motor Sports Association (IMSA), Braselto, GA. Now IMSA Tudor United Sports Car Championship
- 2003-2005 Den Leader, Pack 530, Miami, Florida, Cub Scouts of America
- 1992-2006 Lab Director for Community Laboratory Research Program through Dade County Public Schools (1-2 students each year).
- 1988-present Guest Speaker/Career day participant at local Elementary schools and Senior high schools. Sunset Senior High and Kendall Lakes Elementary
- 1989-present Science Fair Judge including Captain of Judging Teams for the South Florida Science and Engineering Fair
- 1994 Committee Member, Dade County Public Schools, Division of Mathematics and Science Review of Competency Based Curriculum for the Sciences as part of the National Science Foundation grant Urban Systemic Initiative
- 1989-93,95,98 Sponsoring preceptor of NSF Young Scholars/Project SEED Program students

- 1992-93,96,97 Sponsoring preceptor of Project SEED Summer II Program students
1988-1997 FIU/ACS Chemathon participant and speaker on "What Chemists Do"
- 1991-1997 Participant in "Third Grade Demonstration Project" performing chemical demonstrations for local elementary schools
- 1999 Hosted Feb. 29th campus tour and lectures (H. Averch, S. Kakar, K. Condon and K. Furton for 65 students from Coral Reef High School's Criminal Justice Academy.

MEDIA COVERAGE EXAMPLES

Interview with Voice of America Broadcast news about COVID-19 detector dogs- February 26, 2021

WLRN Discussion on Higher Education with Tom Hudson/ Jessica Bakeman- February 15, 2021

Interview with the National TV story inquiry Scripps national news- February 11, 2021

Dogs and Sensors Teleconference- February 10, 2021-- Dog Detectives Sniff Out COVID-19 | KSFR

Interview with Adam Iscoe with The New Yorker about COVID detecting dogs- February 9, 2021- <https://www.101espn.com/news/miami-heat-using-coronavirus-detecting-dogs-on-fans/>

ABC News Radio Interview with Lionel Moise- February 8, 2021- <http://abcnewsradioonline.com/sports-news/miami-heat-using-coronavirus-detecting-dogs-on-fans.html>

Weather Channel Interview- with Michelle Birnbaum, February 5, 2021

Interview with WFLA News channel 8 in Tampa about COVID detecting dogs- February 4, 2021

Phone Interview with Carl Stevens (WBZ News Radio in Boston) about COVID detecting dogs- February 3, 2021-The segments aired on WBZ News Radio in Boston, New England's most listened to all-news radio station.

Interview with Orlando's NBC Affiliate about the COVID detecting dogs – February 2, 2021

Interview with Orlando's CBS Affiliate about the COVID detecting dogs – February 1, 2021 (aired on February 2, 2021)

Featured on CBS4 News FIU Researchers Train Detectors Dogs To Accurately Detect COVID aired on 01/28/2021 <https://miami.cbslocal.com/video/5243815-fiu-researchers-train-detectors-dogs-to-accurately-detect-covid/>

Featured on NBC6 News to discuss research on using canines to detect COVID-19 aired 01/27/2021 <https://www.nbcmiami.com/multimedia/fiu-training-dogs-to-sniff-out-covid-19/2369370/>

Featured in APM Reports audio documentary “COVID on Campus - Coronavirus disrupts higher education, magnifies inequities and accelerates change. FIU discussion 39 min in <https://www.apmreports.org/episode/2020/07/29/covid-on-campus>, 07/29/2020

Featured on A&E Marcia Clark Investigates the First 48 “Casey Anthony” Season 1 Episode 1, aired on 03/29/2018 <https://www.aetv.com/shows/marcia-clark-investigates-the-first-48>

Featured on “CBS This Morning” to discuss Drones used to protect avocados from disease, CBS news story aired (05/05/2015) <http://www.cbsnews.com/videos/drones-dogs-used-to-protect-avocado-from-disease/>

Featured in Smithsonian Magazine article “The Education of a Bomb Dog” published July • August 2013.

Cited (regarding best measure of a dog’s reliability) in U.S. Supreme Court Decision “Florida v. Harris”. Unanimous decision supporting the used on detector dogs for probable cause in searches decided February 19, 2013.

Featured in Wall Street Journal article “The Rise of the Sophisticated Police-Dog Sniff” published August 22, 2011.

Featured in SeparationsNOW.com article “That’s handy: human scent collection for forensics depends on touch and textile type” published August 22, 2011.

Featured in Florida Today article “Forensics on trial – dueling experts, new techniques active in court” published July 3, 2011.

Featured in Sun Sentinel article “Tech Effect has juries seeking scientific proof” published July 20, 2011.

Featured in SpectroscopyNOW.com article “Scented human barcode” published February 15, 2010.

Featured in SeparationsNOW.com article “Scent the wrong way” published December 14, 2009.

Featured in Forensic Magazine article “Scents and Sense-Ability” published April/May 2006.

Featured in SpectroscopyNOW.com article “The sweet smell of success in human odour discrimination” published November 14, 2006.

Featured in AP article “Experts: Scent Damaging to Peterson Defense” published March 1, 2004 on ABC7News.com

Featured in FIU news article “FIU Institute Advances Science of Detector Dogs” on FIU home page in May, 2003.

Featured in New York Times Science Section Article “With Dog Detectives, Mistakes Can Happen” published on December 24, 2002.

PROFESSIONAL SERVICE (remunerated)

- 1996-present Qualified as an expert witness in Analytical Chemistry and Forensic Science. Testified approximately two dozen times including depositions, probable cause hearings, federal grand jury and in jury trials in federal and state court on behalf of both the prosecution and defense.
- 2002-present Consultant, National Nuclear Security Administration (NNSA), reviewer of research projects being conducted in National laboratories.
- 1998-1999 Consultant, Department of Energy/Federal Bureau of Investigation “Law Enforcement: Forensic R&D Initiative”. Selected as one of four academics in U.S. to assist the DOE with first meeting held in Washington involving V.P. Gore and Cabinet Secretaries Pena, Rubin, and Reno.

TEACHING EXPERIENCE

FLORIDA INTERNATIONAL UNIVERSITY (Since 1988)

- CHM 1032 Chemistry & Society
EVR 3011 Environmental Resources and Pollution
EVR 3011L Environmental Resources and Pollution Lab
CHM 3120 Quantitative Analysis
CHM 3120L Quantitative Analysis Laboratory
CHS 3501 Survey of Forensic Science
CHM 4130 Modern Analytical Chemistry
CHM 4130L Modern Analytical Chemistry Laboratory
CHS 4591 Internship in Criminalistics Chemistry/Internship in Forensic Science
CHM 4910L Undergraduate Research in Chemistry
CHM 4911 Undergraduate Research 2
CHM 4930 Senior Seminar
CHM 4990 Separation Science
CHS 4993 Forensic Science
CHM 5150 Graduate Analytical Methods
CHM 5156 Advanced Chromatography
CHM 5181 Special Topics in Analytical Chemistry
CHS 5531 Forensic Analysis
CHS 5531L Forensic Analysis Lab
EVR 5936 Topics in Environmental Studies
CHM-5995 Chemistry and Analysis of Drugs
CHM 5996 Principles of Chemical Instrumentation
CHM 6905 Independent Study in Chemistry
CHM 6910L Graduate Research in Chemistry

CHM 6935 Graduate Seminar
CHM 6970 Thesis Research
CHM 6971 Thesis
CHM 7980 Doctoral Dissertation
CHM 7984 Dissertation Research

UNIVERSITY OF WALES, Swansea, U.K.: Honorary College Lecturer

Forensic Analysis [for second and final year honours students] (1987, 1988).

FLORIDA STATE UNIVERSITY LONDON STUDY CENTER, London, U.K.:

Lecturer - Science and the Law, Forensic Science in Britain and America (1987,1988).

WAYNE STATE UNIVERSITY, Detroit, MI:

Substitute Instructor - Analytical Chemistry (Winter 1985, Winter, 1986).

Teaching Assistant - Principles of Chemistry, Honors General Chem, Organic Chemistry, Survey of Analytical Chemistry, Instrumental Analysis (1983-1986)

HIGH SCHOOL STUDENT RESEARCH PROJECTS DIRECTED
(ACS SEED/NSF YOUNG SCHOLARS)

1. Adriana Mantilla Summer C 1989 (SEED I), "Evaluation of Laundry Detergents Containing Anionic Surfactants as Column Packings in Gas Chromatography".
2. Maria I. Perez Summer C 1990 (SEED I), "Polarity and Selectivity of Ionic Gas Chromatographic Stationary Phases: Comparison of Anionic Detergents to Conventional Molecular Liquids".
3. Arold Norelus Summer C 1991 (SEED I), "A Novel Colorimetric Method for Determining the Critical Micelle Concentration of Aqueous Surfactant Solutions".

Summer C 1992 (SEED II), "The Gas-Liquid Chromatographic Stationary Phase Properties of Detergent Powders Used as Column Packings".

1992 South Florida Regional Science & Engineering Fair: Superior, Florida State Science & Engineering Fair: 5th Place.
4. Cristina Ferro Summer C 1992 (SEED I), "Comparison of the Physical Properties and Efficacy of Regular and 'Ultra' Laundry Detergent Powders".

Summer C 1993 (SEED II), "Inexpensive Gas Chromatography Experiments Utilizing Commercial Detergent Powders Containing Anionic, Non-ionic and Mixed Surfactants".
5. Angena Norelus Summer C 1995 (SEED I), "The Chemical Development of Latent Fingerprints Exclusively Employing Consumer Products".

- Summer C 1996 (SEED II), "Comparison of Chemical Development Methods for Latent Fingerprints from Different Surfaces".
6. Jude Norelus
Summer C 1998 (SEED I), "Manipulation of Latent Fingerprints Developed with Consumer Products".

Summer C 2000 (SEED II), "The Environmental Stability of Latent Fingerprints Chemically Developed".
7. Emmanuel Norelus
Summer C 2001 (SEED I),
"Identification of 3,4-Methylenedioxymethamphetamine byproducts by SPME/GC/MS".

DADE COUNTY PUBLIC SCHOOLS COMMUNITY LAB RESEARCH INTERNSHIPS

1. Arold Norelus
Miami Edison SHS
August 1992 - June 1993, "Comparison of Anionic, Cationic and Non-ionic Surfactant CMCs Using a New Visualization Technique".

1993 South Florida Regional Science & Engineering Fair: Superior & Best Physical Science Project, Florida State Science & Engineering Fair: 3rd Place.
2. Michael L. Sarkees
Miami Senior High
Valedictorian
August 1993 - June 1994, "Undergraduate experiments and demonstrations of the physicochemical properties of micellar solutions".

1994 South Florida Regional Science & Engineering Fair: Superior
3. Angena Norelus
Miami Edison SHS
August 1994 - June 1995, "A latent fingerprint detection experiment utilizing exclusively consumer products".
4. Jessica Carranza
Coral Park SHS
August 1994 - June 1995, "Comparison of methods to accurately determine critical micelle concentrations".

August 1995 - June 1996, "Surface Tension Measurements by Conventional Tensiometry and a Hanging Drop Method".
5. Ofelia Rodriguez
G. Holmes Braddock HS
August 1995 - June 1996, "Intermolecular Attractions and Surface Cleaning of Semiconductor Surfaces with Supercritical Fluids".
6. Jose Marquez
Miami Killian SHS
August 1996 - June 1997, "Aromascan: Theory and Practice of Chemical Sensor Technology".
7. Simon Gil
G. Holmes Braddock HS
August 1996 - June 1997, "Chemical Development of Latent Fingerprints and Computer Digitization".
8. Michelly Wei
Miami Killian SHS
August 1997 - June 1998, "Optimization and Comparison of Chemical Fingerprint Development Methods".
9. David Leon
Miami Springs SHS
August 1998-June 1999, "Undergraduate Experiments Demonstrating Aquarium and Swimming Pool Chemistry".

10. Ying Chen
Miami Palmetto SHS August 1999-June 2000, "Evaluation of Primary Odor Chemicals Used by Drug and Explosives Detector Dogs".
11. Vanessa Cabrera
Coral Reef SHS August 2000-June 2001, "Speciation of Drugs on Currency in General Circulation".
12. Michael Chow
Miami Sunset SHS
Valedictorian August 2002-June 2003, "Identification of Active Odor Signature Compounds in Drugs and Human Remains".
Semifinalist, Intel Science Talent Search – Stanford Early Acceptance
13. Scott Rabin
Miami Palmetto SHS August 2003-June 2005, "Uniqueness of Human Scent from Identical Twins".
14. Carlos Ramirez August 2005-June 2006, "Dissipation of Human Scent Components and Automated Analysis of Identified Components".
15. Mollie Sussman August 2007 – June 2008, "Discrimination between Hand Odor of Twins using Gas Chromatography Solid Phase Micro Extraction"
16. Guo Qian Fall 2012 – "Headspace Analysis of Volatiles from heated Teflon coated cookware" published: A Preliminary Study on Volatile Organic Compounds (VOCs) from Heating Empty Nonstick Pans J. American Academic Research Volume 3, Issue 7, July 2015

UNDERGRADUATE RESEARCH PROJECTS DIRECTED

1. Cindy Cork Summer C 1990 & Fall 1990, "Comparison of Nonaqueous Reverse-Phase High Performance Liquid Chromatography to Supercritical Fluid Chromatography for Polycyclic Aromatic Hydrocarbons".
2. Carlos Blanco Summer C 1990 & Fall 1990, "Ambiguities Associated with the use of McReynolds Constants for Evaluating the Polarity and Selectivity of Very Polar Gas Chromatographic Stationary Phases".
3. Ana Suarez Fall 1990, Spring 1991, "Gas-liquid Chromatographic Enantiomorphic Resolution Using a Liquid Organic Salt Column".
4. Aldo Calvo Spring 1991, Fall 1991, "Correction of McReynolds Constants for Gas-Liquid Interfacial Adsorption and Probe Reactivity When Evaluating Very Polar Gas Chromatographic Stationary Phases".
5. Fei Mak Spring 1991, "Comparison of Liquid Coated and Bonded-Phase Liquid Organic Salts as Selective Gas Chromatographic Packings".
6. Veronica V. del Carril Spring 1991, "Kinetic Experiments of Carcinogen-DNA Reactivity Using High Performance Liquid Chromatography".
7. Dennise Haughton Spring 1991, Fall 1991, "Comparison of Supercritical Fluid Extraction to Conventional Extraction Techniques".

8. Bobby Glickman Summer C 1991 & 1992, "Gas-liquid chromatographic stationary phase properties of free and polymer-bound pyridinium 4-toluenesulfonate".
9. Gretchen Pentzke Fall 1992, Spring 1993, "Extraction and Analysis of Polycyclic Aromatic Hydrocarbons from Environmental Samples".
10. Peter Cabaay Fall 1993, Spring 1993, "Development of Novel Methods For Studying Surfactant Solutions Above Critical Micelle Concentrations"

Winner of the Undergraduate Award at the National Science Foundation Conference on Diversity in the Scientific and Technological Workforce, Washington, D.C., October 28-30, 1993.

Fall 1994, Spring 1995, Summer 1995, "Kinetics of the Supercritical Carbon Dioxide Extraction of Model Absorbents: C18 and Phenyl-bonded silica".
11. Judith Jean-Louis Spring 1993 & Summer 1993, "Enzymatic and Mechanical Sample Preparation For Biological Samples Prior to Supercritical Fluid Extraction".
12. Barbara Viniegra Fall 1994, Spring 1995, Summer 1995, "Kinetics of the Supercritical Carbon Dioxide Extraction of Model Adsorbents: Silica and Alumina".
13. Arold Norelus Fall 1994, Spring 1995, Summer 1995, "Speciation of HOCs in Recent Sediments using Supercritical Carbon Dioxide".
14. Docten S. Serralta Fall 1995, "Establishment of Methyl Benzoate as the Primary Odor in Canine Alerts to Cocaine".
15. Silvio A. Restrepo Fall 1995, "The Source of Methyl Benzoate Found in Cocaine Specimens".
16. Pedro Lagos Spring 1996, "Methyl Benzoate Diffusion in Different Polymeric Containment Devices".
17. Nayiby Alvarez Spring 1996, "Methyl Benzoate Discrimination and Detection Capabilities of Canines and Humans".
18. Frances Lopez Fall 1996, Spring 1997, Summer 1997, "Controlled Diffusion Devices for Use in Canine Olfactometry"
19. Arold Norelus Fall 1997, Spring 1998, "Field Application of Controlled Drug Odor Diffusion Devices"
20. Claudia Lopez Fall 1997, Spring 1998, "The Analysis of Hydrocarbon in Geological Samples with Subcritical Water Extraction/SPME/GC"; Fall 1998, Spring 1999, Fall 1999, "Optimization of a SPME Procedure for the Analysis of Drug Odor Signatures on Currency"
21. Jonia Prieto Spring 2001/Fall 2001, "Evaluation of Free and Bound Cocaine on Circulated U.S. Paper Currency"
22. Diana Sum Fall 2001/Spring 2002, "Preferential Extraction of Homologous Series with Different Functional Groups Comparing Charcoal Adsorption to Solid Phase Microextraction.

23. Bolanle Alade Spring 2003, Summer 2003, “Controlled permeation of odors from human remains as unique training aids for research and certification of cadaver dogs”
24. Somi Bonne Fall 2002, Spring 2003, “Evaluation of storage devices for restricting and controlling odor permeation”
25. Farzan Khodadadi Spring 2003, Summer 2003, Fall 2003, “Explosive odor compositions, diffusion and permeation under various laboratory and field conditions”
26. Wilma Jeffris Spring 2004, Summer 2004, “Identification of odor signature compounds in decomposing human blood used by cadaver dogs to detect human remains”
27. Alisha Latham Spring 2004, Summer 2004, “Development of improved pseudo narcotic training aids for cocaine and 3,4-Methylenedioxymethamphetamine.
28. Paola Prada Summer 2004, Fall 2004, “Comparison of Extraction Methods for the Elimination of VOCs Present in Sorbents Used for Human Scent Evidence Collection.” FIU’s first every B.S. Honors Thesis graduate
29. Jessica Wirks Spring 2006, Summer 2006, “Optimization of Sorbent Materials for the Collection and Analysis of Human Scent”
30. Lilian Garcia Summer 2006, “Correlation of Shedder Status to Ease of Matching Hand Odor Samples”.
31. Yenisey Velar Summer 2006, “Differentiation of Sources of Marijuana and other Plants via SPME-GC/MS”.
32. Linda Calvo Spring 2007, Summer 2007, “Optimized Detection of Explosives Based on a Comprehensive Selection Échème Incorporating Chemical Class, Purity, and Odor Signaturas”, Ronald E. McNair Scholar.
33. Sally Garcia Summer 2007, “Development of Field Calibration Systems for Biological and Electronic Sensors using COMPS”.
34. Mailyn Vega Summer 2007, “Potential of Various Biological Samples as Target Odors for Locating Persons”.
35. Philip Davis Spring 2007, Summer 2007, “Evaluation of potentially interfering organic chemicals in breath alcohol measurements”.
36. Norma Iris Caraballo Summer 2007, Fall 2007, “The Evaluation and Analysis of the Direct Collection of Human Hand Odor on Rayon Fabric”.
37. Eladio Mendez Spring 2009, Summer 2009, “Potential for Identical Twin Differentiation using Volatile Organic Compounds found in Blood”.
38. Adrian Torres Spring 2010, Fall 2010, “Development of Novel Calibrants for Explosives Detection Canines”.

39. Eric Quinoa Spring 2010, Fall 2010, "Evaluation of Identification Potential of VOCs from Various Biological Materials".
40. Claudia Sanchez Spring 2010, Fall 2010 "Analysis of Volatile Organic Compounds of Heroin for Canine Detection by Using Solid Phase Microextraction/ Gas Chromatography-Mass Spectrometry".
41. Antonio Castillo Spring 2011, "Evaluation of possible vibrational contribution to olfaction mechanism".
42. Alan Mckenzie Coe Fall 2011, "Identification and Comparison of Volatile Organic Compounds in Cigarettes and Marijuana Samples using Solid Phase Microextraction and Gas Chromatography/Mass Spectrometry (SPME-GC/MS)", Ronald E. McNair Scholar.
43. Vanquilla Shellman Fall 2011, "Headspace Solid-Phase Microextraction Coupled to Gas Chromatography/Mass Spectrometry (SPME GC/MS) for the Detection of Caffeine in Cocaine, an Over the Counter (OTC) Medicine and a Coffee Sample", Ronald E. McNair Scholar.
44. Rosabla Parrazal: Fall 2012, Spring 2013, Taking Sampling and Sample Preparation to the Field: A New Application of Fabric Phase Sorptive Extraction (FPSE) for Analysis of High Explosives from Environmental Water using HPLC-UV
45. Jocelyn Martinez: Spring 2013, Extraction and Analysis of High Explosives from Environmental Water using Fabric Phase Sorptive Extraction (FPSE) –High Performance Liquid Chromatography-UV Detection
46. Danay Herrera-Hernández Fall 2013 Pursuit of a Complete Profile of Human Scent Composition through the use of Exhaustive and Non Exhaustive Extraction Methods
47. Jessica Jurmain Fall 2013 High sensitivity extraction of substituted phenols from environmental water using Fabric Phase Sorptive Extraction (FPSE)
48. Catherine Powell Spring 2016, "Fabric Phase Sorptive Extraction polymer Development"
49. David Mirander Spring 2016 "Investigation of VOCs in Saliva Samples of Epileptic Patients"
50. Jessie Innocent Spring 2016, "Fabric Phase Microextraction Development"
51. Jaqueline Rodriguez Fall 2016, "Evaluation of Canine field trials to determine the generalization of compounds"
52. Camilo Jaramilo Fall 2016, "Method development to determine Volatile Organic Compounds used by Canines to detect sea turtle nests"
53. Safia Boodoosigh Spring 2018, "Headspace analysis of Universal Detector Calibrant using Internally Calibrated External Standards"
54. Matthew Colas Spring 2018, "Using gravimetric analysis to obtain permeation rates for universal detector calibrants"

- 55. Alexis Armengol Fall 2018, “Analysis of VOCs Present in Hispanic and Caucasian Groups”
- 56. Javier Fernandez Spring 2018, “Determination of volatile organic compounds from the different soil samples”
- 57. Yeilin Caballero Summer 2019, “Comparison of VOC’s of Healthy vs Infected Avocado trees for canine recognition training.
- 58. Samantha Cabrera, 2024
- 59. Arrielle Bell, 2024
- 60. Rafael Villarreal, 2025
- 61. Eduardo Jose Moreira, 2025
- 62. Emily Millan, 2025
- 63. Roxana Echevaria, 2025

GRADUATE THESES DIRECTED

- 1. Raul Morales, “The Effect of Anion Chain Length on the Solvent Properties of Liquid Tetra-n-butylammonium n-alkylsulfonate Salts Studied by Gas-Liquid Chromatography”, (M) 1991.
- 2. Joseph Rein, “The Relative Effect of Experimental Variables on Analytical Supercritical Fluid Extraction Efficiencies and Correlations with Chromatographic Data”, (M) 1991.
- 3. Qiang Lin, “Variation in the Supercritical Fluid Extraction of Polychlorinated Biphenyls as a Function of Sorbent Type, Extraction Cell Dimensions, and Fluid Flow Rate”, (M) 1992.
- 4. Ethon Jolly, “The Selective Elution of Analytes from Solid Phase Extraction Sorbents by Supercritical Fluid Extraction (M)”, 1993.
- 5. Regina Vichot, “Reversed-Phase Ion-Pair High Performance Liquid Chromatography of Low Molecular Weight Organic Acids With Indirect Photometric and Luminescence Detection”, (M) 1993.
- 6. Chia-Wen Huang, “High Temperature Supercritical Fluid Extraction of Hydrocarbons from Ancient Sediments”, (M) 1994.
- 7. Yu-Min Gong, “Experimental Parameters Controlling the Supercritical Fluid Extraction of Hydrocarbons”, co-advisor with R. Jaffe, (M) 1995.
- 8. Alberto J. Sabucedo, “Development of Modifier Probes for the Selective Extraction of Drugs from Sorbents and the Supercritical Fluid Extraction of Drugs of Abuse from Human Tissues”, (M) 1995.
- 9. Yi-Cheng Hong, “The Chemical Basis of Cocaine Detection by Canines and its Significance to the Contaminated Money Theory”, (M) 1995.

10. Li Chen, "Speciation of Uranium and Organic Compounds on Solid Matrix Studied by Supercritical Fluid Extraction", joint project with R. Jaffe, (M) 1996.
11. Doraida Diaz, "Hydrocarbon Speciation Studies in Ancient Sediments BY High Temperature Supercritical Carbon Dioxide Extraction", joint project with R. Jaffe, (M) 1996.
12. Lilia San-Miguel, "Comparison of Ion Pair and Buffered Mobile Phase Chromatography of Haloacetic Acids Using Direct and Indirect UV and Fluorescence Detection", (M) 1998.
13. Ya-Li Hsu, "Correlation of Detector Dog Alerts to Cocaine Decomposition Products Found in Illicit Forensic Specimens", (M) 1998.
14. Tianying Luo, "SPME/GC Signature Analysis of Cocaine Impurities and Correlation to Drug Dog Detection", (M) 1998.
15. Jing Wang, "Variable Influencing the Recovery of the Ignitable Liquid Residues from Simulated Fire Debris and Human Skin Using Solid Phase Microextraction/Gas Chromatography", (M) 1998.
16. Grace Bi, "The Rapid Analysis of Explosives and Explosives Odors by SPME/GC-MS and SPME/HPLC", 1998.
17. Gretchen Pentzke, "The analysis of hydrocarbons in complex mixtures by SPME/GC-MS", 1997-98 (student changed advisors in 1998).
18. Julio Lopez, "High Pressure Solvent Extraction of Hydrocarbons from Geological Samples", co-advisor with R. Jaffe, (M) 1998.
19. Sugunya Monsalud, "Optimization of SPME for the Analysis of Organometalics in Natural Waters", co-advisor with Y. Cai, (M) 1999.
20. Lianming Wu, "Optimization of Solid-Phase Microextraction (SPME) for the Recovery of Explosives in Water and Post-Explosion Debris Followed by Gas and Liquid Chromatographic Analysis", (M), 1999.
21. Juan Bruna, "A Novel Technique for Arson Analysis Using Solid Phase Microextraction which is More Rapid, Safer, Less Expensive and More Sensitive than Existing Methods", (M) 2001 (anticipated).
22. Wendy Foss, "Spectroscopic and Chromatographic Characterization of Novel Alumina Based Liquid Chromatographic Stationary Phases" co-advisor with Gerome Hakey, (D) - Student became inactive in the program in 1999.
23. Behnoush Memari, "Critical Evaluation of the Analytical Precision and Accuracy of the Intoxilyzer 4000 Instrument", (M) 1999.
24. X. Fan, "Method Development for the Analysis of Explosives Using Capillary Zone Electrophoresis", co-advisor with Y. Deng, (M) 2000.
25. John Walton, "Decomposition and dissipation of illicit drugs and drug odor chemicals under various conditions including U.S. circulated currency", M.S. – Chemistry 2001.

26. Albert J. Sabucedo, "Stabilization of Troponin I for Applications in Clinical Chemistry and Forensic Medicine", Ph.D. - Chemistry 2001.
27. Tianlang Wan, "Analysis of Explosive Odor Signatures and Detector Dog Performance Employing Solid Phase Microextraction / Gas Chromatography (SPME/GC) and Controlled Polymeric Diffusion", M.S. – Chemistry 2002.
28. Norma Lorenzo, "Identification of Active Odor Signature Chemicals in Methamphetamine and 3,4-Methylenedioxymethamphetamine (Ecstasy) Using Canis Familiaris as Biological Detectors", M.S. - Forensic Science 2002.
29. Andrew Benson, "Simultaneous Separation, Identification and Quantitation of Common Date Rape Drugs Directly from Simulated Tampered Beverages Using High-Performance Liquid Chromatography Mass Spectrometry (HPLC/MS)", M.S. - Forensic Science 2002.
30. Timothy Scanlon, "The Corrosive Effect of Blood Regarding the Forensic Identification of Fired Projectiles", M.S. - Forensic Science 2003.
31. Jing Wang, "Classification of explosives and ignitable liquids by trace analysis of odor signatures and residues using SPME/GC/CI/MS", with J. Almirall (Ph.D. - Chemistry) 2005 (anticipated). Student currently working full time in industry and inactive.
32. Mary Ferguson, "Spectrophotometric Detection of 1-methylaminoanthraquinone from Recovered Illicit Currency", (M.S. – Forensic Science) 2004 (anticipated). Student currently inactive.
33. Lidia Marbot, "Speciation of HOCs in Recent Sediments", with R. Jaffe (Major Professor), (M.S. - Chemistry) 2005 (anticipated). Student currently inactive.
34. Samantha S. Tolliver, "Identification of *Canis familiaris* signature odor chemicals in human remains using derivatization solid-phase microextraction / gas chromatography / mass spectrometry", M.S. – Forensic Science 2005.
35. Bradley Young, "The Fate of Cocaine on U.S. Paper Currency", M.S. - Forensic Science 2005.
36. Ross J. Harper, "Improving the Scientific Reliability of Biological Detection by Canis Familiaris: Active Odor Signatures and Their Implications", Ph.D. Chemistry 2005.
37. Allison Curran, "The Analytical Determination of the Uniqueness and Persistence of the Volatile Components of Human Scent Using Optimized Collection Methods", Ph.D. – Chemistry 2005.
38. Ya-Li Hsu, "The Rapid Recovery of Non-protein Bound (Free) Psychoactive Drugs Via SPME/GC/MS/MS and Correlation to Therapeutic Dose", Ph.D. – Chemistry, student withdrew from the doctoral program at the end of the Summer 2009 term.
39. Benoush Memari, "Improved Estimation of Post Mortem Interval with Cardiac Troponin T and Improved Analytical Methods", Ph.D. – Chemistry 2008.
40. Rob Griffith, "Scientific Confirmation of Detector Dog's Ability to Differentiate the Microbial Volatile Organic Compounds From Different Mold Species", M.S – Forensic Science 2005.

41. Laura Conner, "Evaluation of Field Sampling and Analysis Methods for Fire Investigation Including Electronic Noses and Adsorption Sampling/GC/MS", M.S. – Forensic Science 2005.
42. Adam Wolff, "The Accuracy and Precision of Breath and Blood Alcohol Measurements Using the Intoxilyzer 5000 vs. 8000 and Headspace Dual Column GC/FID vs. SPME/GC/MS", M.S. – Forensic Science 2007.
43. JoNell Aarons, "Comparison of Volatile Organic Compound Profiles Above Paper Currency, Non-Controlled Substances and Different Marijuana Samples", M.S. - Forensic Science 2007.
44. Ashley Phillips, "Optimization of Adsorbers for the Collection and Preservation of Human Scent Chemicals", Ph.D. – Chemistry 2005, student left program to go to Vet school.
45. JoNell Aarons, Comparison of Volatile Organic Compound Profiles Above Paper Currency, Non-Controlled Substances and Different Marijuana Samples, Ph.D. - Chemistry, student was dismissed from the Doctoral program after the Fall 2009 semester.
46. Davia Hudson, "Variables affecting the collection and preservation of human scent components through instrumental and biological evaluations", Ph.D. - Chemistry 2009.
47. Michael Macias, "The development of an optimized system of narcotic and explosive contraband mimics for calibration of instrumental and biological detectors", Ph.D. – Chemistry 2009.
48. Paola Prada, "Evaluation of contact and non-contact trapping efficiencies of human scent chemical profiles and their stabilities under different environmental conditions", Ph.D. – Chemistry 2010.
49. Maiko Kusano, "Systematic evaluation of profiling potential of volatile biomarkers from biological samples (blood, breath, buccal cells, sweat and urine) across a population", Ph.D. – Chemistry 2010.
50. Lauryn E. DeGreeff, "Development of a dynamic headspace concentration technique for the non-contact sampling of human odor samples and the creation of canine training aids", Ph.D. – Chemistry 2010.
51. Samantha Tolliver, "Correlation on toxicological results from postmortem and antemortem specimens", Ph.D. – Chemistry 2010. Ms. Tolliver won the 2010 Society of Forensic Toxicologists (SOFT) Educational Research Award.
52. Philip R. Davis, "Advancement in the qualitative and quantitative analysis of volatile organic compounds in human breath and blood for medical and forensic purposes using SPME-GC/MS", M.S. - Forensic Science, student transferred to Ph.D. – Chemistry after the Fall 2011 semester.
53. Jessica S. Brown, "Determination of signature volatile odor chemicals emanating from novel biological specimens by non-invasive analytical techniques for the potential use in forensic identifications", Ph.D. – Chemistry 2012.
54. Katylynn Beltz, "The development of calibrants through characterization of volatile organic compounds from peroxide based explosives and a non-target chemical calibration compound", Ph.D. - Chemistry 2013.

55. Norma Iris Caraballo, "Identification of characteristic volatile organic compounds released during the decomposition process of human remains and analogues", Ph.D. - Chemistry 2014.
56. Michelle Cerreta, "Molecular imprinting on sol gel precursors as a tool for separation and quantification of cocaine and its major metabolites", Ph.D. - Chemistry 2015.
57. Cristopher Lawrence DeJesus, "Investigation of the Influences of Site and Temporal Effects on Postmortem Drug Concentrations", Ph.D. - Chemistry 2015 (Switched to MS).
58. Claudia Sanchez, "Evaluation of the Scent Collection System for its Effectiveness in Volatile Organic Compound Collection and Use in Canine Training", M.S. – Forensic Science 2015.
59. Lauren J. Colón-Crespo, "Determination of Human Scent Biomarkers For Race, Ethnicity And Gender", Ph.D. – Chemistry 2016.
60. Adrian Torres, "Dissipation of Non-Contact Residual Volatile Organic Compounds of Drugs and Explosives", M.S. – Forensic Science 2015 (anticipated). Student withdrew from program.
61. Adhly Marie Huertas-Rivera, "Identification of the Active Odors from Illicit Substances for the Development of Optimal Canine Training Aids", Ph.D. – Chemistry 2016.
62. Torki Zughaibi, "Study of the Transport of Odorants from Illicit Substances using Direct Analysis in Real Time Mass Spectrometry", Ph.D. – Chemistry 2017.
63. Philip R. Davis, "The Investigation of Human Scent from Individuals Diagnosed with Epilepsy for the Identification of a Biomarker for Epileptic Seizures", Ph.D. – Chemistry 2017.
64. Rodolfo Mesa, "Fabric Phase Sorptive Extraction: A Paradigm Shift Approach in Solving Sample Preparation Challenges with Forensic Implications", Ph.D. – Chemistry 2017.
65. Vanquilla Shellman, "The Identification of Volatile Organic Compounds from Synthetic Cathinones for the Development of Drug Odor Mimics for Training Narcotic Detection Canines", Ph.D. – Chemistry 2017.
66. Alison Simon "Detection Of An Invasive Pathogen Through Chemical and Biological Means for the Protection of Commercial Crops" Ph.D – Chemistry 2017. Recipient of 2015 Cartha "Deke" DeLoach Forensic Science Award and the J. Edgar Hoover Foundation Scientific Scholarship (\$10,000) – Forensic Science 2017.

67. Kelvin Frank “Utilizing Optimal Headspace Solid Phase Micro-Extraction for the Characterization of Volatile Organic Compounds (VOCs) Released from Explosives” PhD Chemistry Fall 2021.
68. Alice Boone “The Determination of Volatile Markers in Human Scent and the Correlation of Human Leukocyte Antigen Genes and the Microbiome to the VOCs from Individuals of Different Genders and Ages within Target Populations.” PhD – Chemistry Spring 2022
69. Chantrell Frazier “Chantrell Frazier - Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing” PhD – Biochemistry Fall 2022.
70. Vidia Gokool - "Investigation of Human Scent as a Biometric" PhD – Chemistry Spring 2023
71. Leann Forte – “Optimal Extraction of Fentanyl VOCs for the Development of Canine Training Aid Mimics” – PhD in Chemistry Spring 2023
72. Jacqueline Lissette Rodriguez – “The Utilization and Evaluation of Capillary Microextraction of Volatiles Coupled to Portable Instrumentation for the Analysis of Volatile Organic Compounds for Forensic Applications” PhD in Chemistry Spring 2023
73. Janet Crespo – “Improving Canine Detection Specificity via Instrumental and Sensing Tools” PhD in Chemistry Spring 2024.
74. Basit Olayanju – “Universal Fabric Phase Sorptive Membrane: Development, Characterization and Applications to Environmental Water Quality Monitoring” (Anticipated Fall 2025)
75. Michelle Karpinsky – “The Headspace Profile of Crude Oil for Detection and Differentiation Purposes” (Anticipated Fall 2026)
76. Emma Calabrese - “Analysis of Vapor Transport from Buried and Contained Explosive Substances” (Anticipated Fall 2026)
77. Kayla Hogan – “Development and Maintenance of odor training aids including Fentanyl”
78. Farnaz Javadimarand – “Collection of Biometric Evidence Connecting Human Scent, DNA and Microbiomes”
79. Machaela Clarke, PhD project “Rapid and efficient identification of cannabis, hemp and kratom chemicals using a novel portable sampling device”
80. Fernando Zaldivar Eyre, MSFS/PhD project - “Optimum Training Materials for Canine Detection of Humans, Drugs and Explosives” (MSFS anticipated Fall 2025, PhD Fall 2027). Fernando is currently in the MSFS program and has applied to transfer into the combined MSFS/PhD program.
81. Steven Isbel - “Development of Advanced Universal Detection Calibrants and Advanced Materials for Field Calibration of Dogs and Handheld Sensors” (PhD anticipated Fall 2028). Student accepted in Fall 2024 PhD class but has begun working on project in the Spring/Summer 2024

82. Tauhidur Rahman – TA NMIPS/NPUCS project – Included his name on CARFS NCASS proposal (Anticipated 2028)

RESEARCH EXPERIENCE - h-index of 53 as reported by [Google Scholar](#)

FLORIDA INTERNATIONAL UNIVERSITY - DEPARTMENT OF CHEMISTRY: Assistant, Associate and Full Professor. Dr. Furton's research program has focused on separation science and the development of novel sample preparation methods including solid phase extraction, supercritical fluid extraction and, most recently, solid phase microextraction (SPME). Recent research includes physicochemical measurements using chromatographic techniques and the development of column technology and instrumentation for chromatography. Recent specific projects have included the use of supercritical fluids in forensic toxicology, the use of SPME in arson, explosives and drug analysis, the discriminating power of glass fragments, chemical agents to detect illicit US currency, chemical methods to visualize latent fingerprints and behavioral olfactometry to study canine selectivity and sensitivity to chemical odor fingerprints associated with paper currency, drugs and explosives.

UNIVERSITY COLLEGE OF SWANSEA - DEPARTMENT OF CHEMISTRY: Postdoctoral Research Assistant. Conducted with Professor J.H. Purnell, OBE (Physical Chemistry) and Dr. G. Stedman (Inorganic Chemistry). Determination of thermodynamic data relating to potentially hazardous acids in various complexing solvents for use in spent nuclear fuel reprocessing techniques.

WAYNE STATE UNIVERSITY - DEPARTMENT OF CHEMISTRY: Graduate Research Assistant. Conducted with Professor C.F. Poole (Analytical Chemistry). Ph.D. Dissertation Title: "Factors Governing the Retention of Solutes on Liquid Organic Salt Phases Used in Gases Chromatography". Synthesis and evaluation of new selective stationary phases for chromatography, methods for evaluating polarity and selectivity of stationary phases used in gas chromatography.

WAYNE STATE UNIVERSITY - SCHOOL OF MEDICINE: Research Consultant. Conducted with Professor S. Dutta (Pharmacology). The analysis of permanent gases/light hydrocarbons in the study of lipid peroxidation in rats. Also with Professor T. Kuo (Pathology). The study of fatty acid methyl esters derived from rat heart plasma membrane phospholipids.

UNIVERSITY OF CENTRAL FLORIDA - DEPARTMENT OF CHEMISTRY: Research Assistant. Conducted with Professor C.A. Clausen (Physical Chemistry). The development of a routine sampling method to entrap, detect, and identify accelerants present in fire atmospheres, the application of ATR/FTIR to the analysis of questioned documents.

PATENTS

1. K.G. Furton and A.M. Curran, "Identification of Humans through Characteristic Compounds Detected in Human Scent" United States Patent No. 7,781,218, Issued August 24, 2010.
2. K.G. Furton and K. Beltz, Universal Detection Calibrant, U.S. Patent application filed on Feb. 18, 2011. U.S. Patent 9,250,222 Issued February 2, 2016
3. A Kabir and K.G. Furton, Fabric Phase Sorptive Extraction (FPSE), U.S. Patent Application filed March 15, 2013. U.S. Patent 9,283,544 Issued March 15, 2016
4. A. Kabir, K.G. Furton. Field Sampling Kit for Chemical Recovery, Storage, and Profiling, Method of Making and Using the Kit, and a Dynamic Fabric Phase Sorptive Extraction (DFPSE) Media. United States Patent 9,527,059. Issued December 27, 2016.

5. A. Kabir, K.G. Furton. Fabric Phase Sorptive Extractors. Patent 9,557,252 issued January 31, 2017.
6. K.G. Furton, K. Beltz, Universal Detector Calibrant, United States Patent 9,575,038 issued February 21, 2017
7. A. Kabir and K.G. Furton, Superpolar chromatographic stationary phases and extraction sorbents and their methods of synthesis, U.S. Patent 9,700,872 issued July 11, 2017.
8. K.G. Furton and R.J. Harper, Controlled Odor Mimic Permeation System, U.S. Patent 9,706,755 issued July 18, 2017.
9. A. Kabir, K.G. Furton. Materials and Methods for the Detection of Trace Amounts of Substances in Biological and Environmental Samples. United States Patent. Patent No. 9,772,338 (Issued on Sep. 26, 2017).
10. A. Kabir, K.G. Furton. In-Vial Microextraction (IVME) Systems and Their Method of Making, United States Patent 9,851,281, January 5, 2017. Issued December 26, 2017
11. A. Kabir, K.G. Furton. Sol-Gel Polymeric Stationary Phases for High-Performance Liquid Chromatography and Solid Phase Extraction: Their Method of Making, United States Patent, 9,925,518 Issued March 27, 2018
12. A. Kabir, K.G. Furton, Alkyl Functionalized Porous Silica Liquid Chromatographic Stationary Phases and Solid Phase Extraction Sorbents, Patent 9,925,515, Issued March 27, 2018
13. A. Kabir, K.G. Furton. Encapsulation of Particulate Matters in Sol-gel Silica Matrix: Methods of Preparation, Patent 10,183,270, Issued 01/22/2019
14. A. Kabir, K.G. Furton. Sol-Gel Polymeric Stationary Phases for High-Performance Liquid Chromatography and Solid Phase Extraction: Their Method of Making, United States Patent, 10,335,767. Issued July 2, 2019
15. A. Kabir, K.G. Furton. Microextraction Capsules and Methods of Making, United States Patent, 10,352,833, January 16, 2017. (Issued July 16, 2019)
16. A. Kabir, K.G. Furton. Materials and Methods for the Detection of Trace Amounts of Substances in Biological and Environmental Samples. United States Patent. 10,768,157, Issued September 8, 2020
17. K.G. Furton, M. Cerreta, A. Kabir. Polymer-Based Training Aids and Methods of Use. United States Patent US 11,129,363 B2, Issued September 28, 2021
18. A. Kabir, K.G. Furton. Sol-Gel Molecularly Imprinted Polymers and Their Method of Making. USPTO Serial Number 15/298,776. October 20, 2016. (Patent Pending)
19. A. Simon, K. G. Furton. Compositions comprising volatile organic compounds from natural specimens and uses thereof (Submitted September 12, 2019) (Patent Pending)
20. A. Kabir, K.G. Furton, Sol-gel Primary Secondary Amine (Sol-gel PSA) sorbents and their composites: Methods of Synthesis (submitted July 29, 2018) (Patent Pending)

21. A. Kabir, K.G. Furton. Method of Making Mesoporous Silica and Its Application in Reversed Phase, Normal Phase, Ion-exchanging, Mixed Mode and Polymeric Liquid Chromatographic Stationary Phases and Solid Phase Extraction Sorbents. (submitted August 8, 2018) (Patent Pending)
22. A. Kabir, K.G. Furton. Mesoporous Silica and Stationary Phases and Solid Phase Sorbents Therefrom (US Patent 16,252,829, January 2019)
23. A. Kabir, K.G. Furton. Microcrystalline Cellulose Particle Supported Liquid Chromatographic Stationary Phases and Solid Phase Extraction Sorbents: Methods of Making; 2019-078 (US Patent 11,135,567, October 5, 2021)
24. A. Kabir, K.G. Furton. 3-Thiocyanatopropyl Functionalized Sol-gel Silica Sorbent for Broad-Spectrum Metal Monitoring and Mitigation: Methods of Making Disclosure Status (Submitted May 7, 2021) (Patent Pending)
25. A. Kabir, K.G. Furton, "Sol-gel based paper supported colorimetric sensor for urea determination: method of fabrication", Invention disclosed to the Office of Technology Management and Commercialization, Florida International University on November 30, 2022.
26. A. Kabir, K.G. Furton, "Pyridylethylthiopropyl functionalized sol-gel sorbent coating and particles for heavy metal extraction: method of synthesis", Florida International University on June 20, 2023.
27. A. Kabir, K.G. Furton, M. Locatelli, A. Tartaglia, "Devices and Methods for Extraction of Analytes", United States Patent No. US 12,158,403, Dec 3, 2024.
28. A. Kabir, K. G. Furton, "Sol-gel Primary Secondary Amine (Sol-gel PSA) sorbents and their composites", United States Patent Application No. US 17,675,828 (February 18, 2022).
29. A. Kabir, K.G. Furton, "Microcrystalline Cellulose Particle Supported Sol-gel Sorbents", United Patent Application No. 20220016600 (January 20, 2022).
30. A. Kabir, K.G. Furton, "Materials and Methods for Extracting Metals", United States Patent No. US 11,506,642 (November 22, 2022).
31. A. Kabir, K.G. Furton, "PSA-functionalized sol-gel sorbent materials and methods of preparation, United States Patent No. 11,628,418 B1, Apr. 18, 2023.
32. A. Kabir, K.G. Furton, M. Locatelli, A. Tartaglia, Devices and methods for extraction of analytes, US Patent App. 18/045,640, 2024.
33. A. Kabir, K.G. Furton, A. Anthemidis, N. Manousi, PYRIDYLETHYLTHIOPROPYL FUNCTIONALIZED SOL-GEL SORBENT AND USES THEREOF, 18211814 December 26, 2024
34. A. Kabir, K.G. Furton, M. Locatelli, A. Tartaglia, Devices and methods for extraction of analytes, 18965500, March 20, 2025/3/25

BOOK PUBLICATIONS

1. J.R. Almirall and K.G. Furton, *Advances in Forensic Science Techniques: Interpretation of Fire Scene Evidence*, Edited Book published by CRC Press, Boca Raton, February 2004, 264 pages. First book in the series "Forensic Science Techniques Series" by CRC Press (J.R. Almirall and K.G. Furton, Series Eds.) (ISBN 9780849378850)
2. PA Prada, AM Curran, KG Furton, *Human Scent Evidence*, CRC Press Taylor and Francis Group 228 Pages October 2014 (ISBN 9781466583955)
3. S.S. Iyengar, Kenneth G. Furton Pronab Mohanty, Naveen Kumar Chaudhary Editors *Artificial Intelligence Driven Forensics* April 28, 2025, Proceedings of AI-Enabled Forensic Investigations Network in Digital Sciences, Springer

PEER REVIEWED PUBLICATIONS

1. K.G. Furton and C.F. Poole, Variation in the Gas Chromatographic Stationary Phase Properties of Tetra-n-Butylammonium Salts as a Function of the Anion Type, *J. Chromatogr.*, 349 (1985) 235-47.
2. C.F. Poole, B.R. Kersten, S.J. Ho, M.E. Coddens, and K.G. Furton, Organic Salts, Liquid at Room Temperature, as Mobile Phases in Liquid Chromatography, *J. Chromatogr.*, 352 (1986) 407-25.
3. M.E. Coddens, K.G. Furton, and C.F. Poole, Synthesis and Gas Chromatographic Stationary Phases Properties of Alkylammonium Thiocyanates, *J. Chromatogr.*, 356 (1986) 59-77.
4. C.F. Poole, K.G. Furton, and B.R. Kersten, Liquid Organic Salt Phases for Gas Chromatography, *J. Chromatogr. Sci.*, 24 (1986) 400-409.
5. K.G. Furton and C.F. Poole, Fast Atom Bombardment Mass Spectra of Some Alkylammonium 4-Toluenesulfonate Salts, *Org. Mass Spectrom.*, 22 (1987) 210-211.
6. K.G. Furton, S.K. Poole, and C.F. Poole, Gas Chromatographic Stationary Phase Properties of Two Room Temperature Liquid Organic Salts, *Anal. Chimica Acta*, 192 (1987) 49-61.
7. K.G. Furton and C.F. Poole, Solute-Solvent Interactions in Liquid Alkylammonium 4-Toluenesulfonate Salts Studied by Gas Chromatography, *Anal. Chem.*, 59 (1987) 1170-1176.
8. K.G. Furton and C.F. Poole, Thermodynamic Characterization of Solute Solvent Interactions in Liquid Organic Salt Solvents, Studied by Gas Chromatography, *J. Chromatogr.*, 399 (1987) 47-68.
9. K.G. Furton, C.F. Poole, and B.R. Kersten, Correlation of Solute Retention in Gas Chromatography With Properties of the Anion for Tetra-n-Butylammonium Salts, *Anal. Chimica Acta*, 192 (1987) 255-265.
10. K.G. Furton and C.F. Poole, Fast Atom Bombardment Mass Spectra of Some Tetra-n-Butylammonium Salts, *Org. Mass Spectrom.*, 22 (1987) 377-378.
11. B.R. Kersten, C.F. Poole, and K.G. Furton, Ambiguities in the Determination of McReynolds Stationary Phase Constants, *J. Chromatogr.*, 411 (1987) 43-59.

12. S.K. Poole, K.G. Furton, and C.F. Poole, Determination of Benzene in Gasoline by Gas Chromatography Using a Liquid Organic Salt Column, *J. Chromatogr. Sci.*, 26 (1988) 67-81.
13. K.G. Furton, The Mysterious Field of Forensic Chemistry (Invited Review for the Chemistry Journal of the University of Wales) *Pentacol*, 18 (1988) 8-10.
14. K.G. Furton, J.H. Purnell and G. Stedman, Stability Constants of Hydracid-Tributyl Phosphate Complexes in Alkane Solution: Hydrochloric Acid and Hydrogen Cyanide, *J. Chromatogr.*, 468 (1989) 73-89.
15. K.G. Furton, J.H. Purnell and G. Stedman, Chromatographic Study of the Complexation of Hydrogen Chloride and Hydrogen Cyanide with Tributyl Phosphate in Hexadecane. *Anal. Proc.*, 27 (1990) 42-43.
16. K.G. Furton and J. Rein, Trends in Techniques for the Extraction of Drugs and Pesticides from Biological Specimens Prior to Chromatographic Separation and Detection (invited review for special issue "Sample Preparation for Chromatographic Analysis"), *Anal. Chimica Acta*, 236 (1990) 99-114.
17. K.G. Furton, J.H. Purnell and G. Stedman, Stability Constants of Hydrazoic Acid-Tributyl Phosphate Complexes in Hexadecane Solution, *J. Chem. Soc. Faraday Trans.*, 86 (1990) 3561-3565.
18. K.G. Furton and A. Mantilla, Polarity and Selectivity of Ionic Stationary Phases Used in Gas Chromatography: Evaluation of Commercial Detergents Containing Anionic Surfactants as Column Packings, *J. Chem. Ed.*, 68 (1991) 74-77.
19. K.G. Furton and R. Morales, Potential Ambiguities in the Use of McReynolds Constants: Apparent Differences in Stationary Phase Selectivities Exclusively Attributable to the Hydrocarbon Index Standards, *J. High Resolut. Chromatogr.*, 14 (1991) 62-64.
20. K.G. Furton and R. Morales, The Effect of Anion Chain Length on the Solvent Properties of Liquid Tetrabutylammonium Alkylsulfonate Salts Studied by Gas-liquid Chromatography (invited paper for the special issue "Looking to the Future of Analytical Chemistry"), *Anal. Chimica Acta*, 246 (1991) 171-179.
21. J. Rein, C. Cork and K.G. Furton, Factors Governing the Analytical Supercritical Fluid Extraction and Chromatography of Polycyclic Aromatic Hydrocarbons, *J. Chromatogr.*, 545 (1991) 149-160.
22. K.G. Furton and J. Rein, The Quantitative Effect of Microextractor Cell Geometry on the Analytical Supercritical Fluid Extraction Efficiencies of Environmentally Important Compounds, *Chromatographia*, 31 (1991) 297-299.
23. K.G. Furton and J. Rein, Effect of Microextractor Cell Geometry on Supercritical Fluid Extraction Recoveries and Correlations With Supercritical Fluid Chromatographic Data, *Anal. Chimica Acta.*, 246 (1991) 263-270.
24. K.G. Furton and M.I. Perez, A Sensual Separation Science Experiment: Extraction and Chromatographic Separation of Menthol Utilizing Various Consumer Products, *J. Chem. Ed.*, 68 (1991) 946-947.
25. C.F. Poole, K.G. Furton, R.M. Pomaville, S.K. Poole, and B.R. Kersten, Physicochemical Properties of Liquid Organic Salts Using Chromatographic Techniques, in "Molten Salt Techniques", R.J. Gale and D.G. Lovering (eds.), Plenum Press, New York, Vol. 4, 1991, pp. 41-81.

26. K. Mopper and K.G. Furton, Extraction and Analysis of Polysaccharides, Chiral Amino Acids, and SFE-Extractable Lipids from Marine POM, in "Marine Particles: Analysis and Characterization", Geophysical Monograph 63, D.C. Hurd and D.W. Spencer (eds.), American Geophysical Union, Washington, 1991, pp. 151-161.
27. K.G. Furton and J. Rein, Relative Effect of Experimental Variables: Analytical Supercritical Fluid Extraction Efficiencies and Correlations with Chromatographic Data, Invited Chapter for ACS Symposium Series 488, F.V. Bright and M.E.P. McNally (Editors) "Supercritical Fluids Technology: Theoretical and Applied Approaches in Analytical Chemistry", American Chemical Society, Washington, 1992, pp. 237-250.
28. K.G. Furton and Q. Lin, The Dependence of Sorbent/Analyte Type on Observed Differences in Supercritical Fluid Extraction Efficiencies Employing Extraction Vessels of Different Dimensions, *Chromatographia*, 32 (1992) 185-187.
29. K.G. Furton, E. Jolly and J. Rein, Variables Affecting the Supercritical Fluid Extraction of Analytes from Octadecylsilane Solid Phase Sorbents invited paper for the special issue "Principles and Applications of Solid-Phase Extraction"), *J. Chromatogr.*, 629 (1993) 3-9.
30. K.G. Furton and A. Norelus, A Novel Colorimetric Method for Determining the Critical Micelle Concentration of Aqueous Surfactant Solutions, *J. Chem. Ed.*, 70 (1993) 254-257.
31. K.G. Furton and Q. Lin, Variation in Supercritical Fluid Extraction Efficiencies of Polychlorinated Biphenyls as a Function of Extraction Cell Dimensions, Fluid Flow Rate, and Sorbent Type (invited paper for a special issue devoted to Advances in Supercritical Fluid Extraction, *J. Chromatogr. Sci.*, 31 (1993) 201-206.
32. K.G. Furton, E. Jolly and G. Pentzke, Recent Advances in the Analysis of Polycyclic Aromatic Hydrocarbons and Fullerenes (invited review article for the special issue "Chromatography in Environmental Analysis"), *J. Chromatogr.*, 642 (1993) 33-45.
33. R. Morales, C. Blanco and K.G. Furton, The Gas-Liquid Chromatographic Stationary Phase Properties of Liquid Organic Salts: Anomalous Selectivity Variation Employing the Rohrschneider/McReynolds System, *Talanta*, 40 (1993) 1541-1549.
34. P. Cabaay and K.G. Furton, A Straightforward Method for Determining Critical Micelle Concentrations in Undergraduate Laboratories, 1st Place NSF Undergraduate Research Paper Competition reviewed by three referees and published in the Conference Proceedings of the *2nd National Conference on Diversity in the Scientific and Technological Workforce*, NSF 94-12 (1994) 97-100.
35. R. Morales, C. Blanco and K.G. Furton, Response to Letter to the Editor of *Talanta* Re: The Gas-Liquid Chromatographic Stationary Phase Properties of Liquid Organic Salts: Anomalous Selectivity Variation Employing the Rohrschneider/McReynolds System, *Talanta*, 41 (1994) 447. (Reviewed by the Editor of *Talanta*)
36. R. Vichot and K. G. Furton, Variables Influencing the Direct Determination of Haloacetic Acids in Water by Reversed-Phase Ion-Pair Chromatography with Indirect UV Detection, *J. Liq. Chromatogr.*, 17 (20) (1994) 4405-4429.

37. K.G. Furton, C.-W. Huang, R. Jaffé and M.A. Sicre, High-Temperature Supercritical Fluid Extraction of Hydrocarbons from Geological Samples and Comparison to Soxhlet Extraction, *J. High Resolut. Chromatogr.*, 17 (1994) 679-681.
38. J.R. Almirall and K.G. Furton, A Fast and Simple Method for the Analysis of Accelerants From Fire Debris Using Headspace Solid-Phase Microextraction, *Proceedings of the International Symposium on the Forensic Aspects of Arson Investigations*, U.S. Government Printing Office, Washington, D.C., 1995 (ISBN 0932115144), pp. 337-345.
39. R. Jaffe, L. Chen, C.W. Huang, N. Hajje, K.G. Furton and M.A. Sicre, An Investigation on Hydrocarbon Speciation in Ancient Sediments by Stepwise Supercritical Carbon Dioxide Extraction at Various Temperatures: Preliminary Results, in *Organic Geochemistry: Developments & Applications in Energy, Climate, Environment and Human History*, 1995, pp. 796.
40. J.R. Almirall and K.G. Furton, The Evolution, Practice and Future of Science in the Administration of Justice: The Importance of Standards in Forensic Science, *Standardization News*, 4 (1995) 42-49.
41. K.G. Furton, L. Chen and R. Jaffe, Rapid Determination of Uranium on Solid Matrices by Synergistic In-Situ Chelation Supercritical Fluid Extraction and UV Absorption Spectroscopy, *Anal. Chimica Acta.*, 304 (1995) 203-208.
42. K.G. Furton, J.R. Almirall and J. Bruna, A Simple, Inexpensive, Rapid, Sensitive and Solventless Method for the Recovery of Accelerants from Fire Debris Based on SPME, *J. High Resolut. Chromatogr.*, 18, (1995) 625-629.
43. K.G. Furton, J.R. Almirall and J. Bruna, A Novel Method for the Analysis of Gasoline from Fire Debris Using Headspace Solid-Phase Microextraction, *J. Forensic Sci.*, 41, (1996) 12-22.
44. J.R. Almirall, J. Bruna and K.G. Furton, The Recovery of Accelerants in Aqueous Samples from Fire Debris Using Solid Phase Microextraction (SPME), *Science and Justice*, 36 (1996) 283-287.
45. K.G. Furton, Y.-L. Hsu, T. Luo, J. Wang and S. Rose, Odor Signature of Cocaine Analyzed by GC/MS and Threshold Levels of Detection for Drug Detection Canines, *Curr. Top. Forensic Sci., Proc. Meet. Int. Assoc. Forensic Sci.*, 14(2) (1997) 329-332.
46. J.R. Almirall, M. Cole, K.G. Furton and G. Gettinby, Classification and Discrimination of Forensic Glass Samples Using the Statistical Analysis of their Elemental Composition and Refractive Index Data, *Curr. Top. Forensic Sci., Proc. Meet. Int. Assoc. Forensic Sci.*, 14(4) (1997) 79-89.
47. O.G. Ferreira, H.R. Fuentes, R. Jaffe and K.G. Furton, Supercritical Fluid Extraction of PAHs from Aquifer Materials, *Hazard. Ind. Wastes*, 29 (1997) 273-281.
48. K. G. Furton, A. Sabucedo, J. Rein and W. L. Hearn, "Analysis of drugs in human tissues by supercritical fluid extraction/immunoassay", in *Forensic Evidence Analysis and Crime Scene Investigation*, John Hicks, Peter De Forest, Vivian M. Baylor, Editors, Proc. SPIE Vol. 2941, pp. 19-23 (1997).
49. J. R. Almirall, M. Cole, K. G. Furton, and G. Gettingby, "The Statistical Significance of Trace Evidence Matches Using Independent Physicochemical Measurements", in *Forensic Evidence Analysis and Crime Scene Investigation*, John Hicks, Peter De Forest, Vivian M. Baylor, Editors, Proc. SPIE Vol. 2941, pp. 24-40 (1997).

50. K. G. Furton, Y.-L. Hsu, T. Luo, N. Alvarez and P. Lagos, "Novel Sample Preparation Methods and Field Testing Procedures Used to Determine the Chemical Basis of Cocaine Detection by Canines", in *Forensic Evidence Analysis and Crime Scene Investigation*, John Hicks, Peter De Forest, Vivian M. Baylor, Editors, Proc. SPIE Vol. 2941, pp. 56-62 (1997).
51. R. Jaffe, D. Diaz, N. Hajje, L. Chen, C. Eckardt and K.G. Furton, Hydrocarbon Speciation in Ancient Sediments Studied by Stepwise High Temperature Supercritical Carbon Dioxide Extraction, *Org. Geochem.*, 26 (1997) 59-65.
52. R. Jaffé, Y. Gong and K.G. Furton, Temperature Effects on Supercritical Carbon Dioxide Extraction of Hydrocarbons from Geological Samples, *J. High Resolut. Chromatogr.*, 20 (1997) 586-590.
53. K.G. Furton and G. Pentzke, *Chapter 1: Polycyclic Aromatic Hydrocarbons* in "Chromatographic Analysis of Environmental Food Toxicants", *Chromatogr. Sci. Ser.* Vol 77, T. Shibamoto, Editor, Marcel Dekker, New York, 1998, pp. 1-30.
54. J.R. Almirall, M.D. Cole, G. Gettinby and K.G. Furton, Discrimination of Glass Sources Using Elemental Composition and Refractive Index: Development of Predictive Models, *Science and Justice*, 38 (1998) 93-100.
55. Y. Deng, X. Fan, A. Delgado, C. Nolan, K.G. Furton, Y. Zuo and R. Jones, Separation and Determination of Aromatic Acids in Natural Waters with Preconcentration by Capillary Zone Electrophoresis, *J. Chromatogr. A*, 817 (1998) 145-152.
56. Y. Cai, S. Monsalud, K.G. Furton, R. Jaffe and R.D. Jones, Determination of Methylmercury in Fish and Aqueous Samples Using Solid-Phase Microextraction Followed by Gas Chromatography-Atomic Fluorescence Spectrometry, *Applied Organometallic Chemistry.*, 12 (1998) 565-569.
57. K.G. Furton, Y.-L. Hsu, T. Luo and S. Rose "Field and Laboratory Comparison of the Sensitivity and Reliability of Cocaine Detection on Currency Using Chemical Sensors, Humans, K-9s and SPME/GC/MS/MS Analysis", in *Investigation and Forensic Science Technologies*, Kathleen Higgins, Editor, Proc. SPIE Vol. 3576, pp. 41-46 (1999).
58. J.R. Almirall, L. Wu, M. Bi, M.W. Shannon and K.G. Furton, "The Field Recovery of Explosive Residues Using Solid-Phase Microextraction Followed by Chromatographic Analysis", in *Investigation and Forensic Science Technologies*, Kathleen Higgins, Editor, Proc. SPIE Vol. 3576, pp. 18-23 (1999).
59. J.R. Almirall, D.C. Duckworth, C.K. Bayne, S.J. Morton, D.H. Smith, R.D. Koons, K.G. Furton, "Elemental Analysis of Forensic Glasses by Inductively Coupled Plasma Mass Spectrometry" in *Investigation and Forensic Science Technologies*, Kathleen Higgins, Editor, Proc. SPIE Vol. 3576, pp. 87-91 (1999).
60. K.G. Furton, J.R. Almirall and Jing Wang, Variables Controlling the Recovery of Ignitable Liquid Residues from Simulated Fire Debris Samples Using Solid Phase Microextraction/Gas Chromatography, in *Investigation and Forensic Science Technologies*, Kathleen Higgins, Editor, Proc. SPIE Vol. 3576, pp. 136-141 (1999).
61. J.R. Almirall and K.G. Furton, "Chapter 7: Forensic and Toxicology Applications" in "Solid Phase Microextraction: A Practical Guide", Edited by Sue Ann Scheppers Wercinski, Marcel Dekker, New York, pp. 203-216 (1999).

62. K.G. Furton, Y.-L. Hsu and M.D. Cole, What Educational Background Is Required by Crime Laboratory Directors?, *J. Forensic Sci.*, 44, (1999), 128-132.
63. Wu L, Almirall JR, Furton KG. An Improved Interface for Coupling Solid-Phase Microextraction (SPME) to High Performance Liquid Chromatography (HPLC) Applied to the Analysis of Explosives, *J. High Resolut. Chromatogr.*, 22 (1999) 279-282.
64. K.G. Furton, J.H. Purnell and G. Stedman, Gas Chromatographic Study of Complexing in the System, Hydrazoic Acid - Tributylphosphate - Nitric Acid - Uranyl Nitrate, *J. Chromatogr.*, 859 (1999) 41-48.
65. K.G. Furton, J.H. Purnell and G. Stedman, Determination of Liquid-Liquid Partition Data for Hydrazoic Acid Between Tributylphosphate-Alkane /Nitric Acid Solutions Using Gas-Liquid Chromatography, *J. Radioanal. Nucl. Chem.*, 242(3) (1999) 663-669.
66. K.G. Furton, L. Chen and R. Jaffe, Relative Recoveries of Hydrocarbons from Geological Samples Using High Temperature Supercritical Fluid Extraction: Contributions from Thermal Desorption, *J. High Resol. Chromatogr.*, 22(11) (1999) 623-627.
67. R. Jaffe, D. Diaz, K.G. Furton and E. Lafargue, High Temperature Supercritical Carbon Dioxide Extraction of Geological Samples: Effects and Contributions from the Sample Matrix, *Applied Geochemistry*, 15 (2000) 79-89.
68. J.R. Almirall, J. Wang, K. Lothridge and K.G. Furton, The Detection and Analysis of Ignitable Liquid Residues Extracted from Human Skin Using SPME/GC, *J. For. Sci.*, 45(2) (2000) 461-469.
69. K.G. Furton, L. Wu and J.R. Almirall, Optimization of Solid Phase Microextraction (SPME) for the Recovery of Explosives From Aqueous and Post-Explosion Debris Followed by Gas and Liquid Chromatographic Analysis, *J. For. Sci.*, 45(4) (2000) 845-852.
70. K.G. Furton, J. Wang, Y.-L. Hsu, J. Walton and J.R. Almirall, The Use of Solid-Phase Microextraction / Gas Chromatography in Forensic Analysis, *J. Chromatogr. Sci.*, Invited review for special issue "Solid-Phase Microextraction Combined with Gas Chromatography". 38 (2000) 297-306.
71. Y. Cai, S. Monsalud and K.G. Furton, Determination of Methyl- and Ethylmercury Compounds Using Gas Chromatography Atomic Fluorescence Spectrometry Following Aqueous Derivatization with Sodium Tetraphenylborate, *Chromatographia*, 52(1/2) (2000) 82-86.
72. K.G. Furton, J.R. Almirall, M. Bi, J. Wang and L. Wu , Application of Solid-Phase Microextraction to the Recovery of Explosives and Ignitable Liquid Residues From Forensic Specimens, *J. Chromatogr.*, 885 (2000) 419-432.
73. K.G. Furton and L.J. Myers, The Scientific Foundations and Efficacy of the Use of Canines as Chemical Detectors for Explosives, Invited review for special thematic issue "Methods for Explosive Analysis and Detection", *Talanta*, 54/3 (2001) 487-500.
74. K.G. Furton, Factors Affecting Selectivity in Supercritical Fluid Chromatography, Invited article for entry in the "Dekker Encyclopedia of Chromatography", Edited by J. Cazes, Marcel Dekker, New York, 749-752 (2001).
75. J.R. Almirall and K.G. Furton, Forensic Chemistry, invited entry for the 2002 Yearbook of Science & Technology, MacGraw-Hill, New York, 113-115.

76. K.G. Furton, Y. C. Hong, Y.-L. Hsu, T. Luo, S. Rose and J. Walton, Identification of Odor Signature Chemicals in Cocaine Using Solid-Phase Microextraction / Gas Chromatography and Detector Dog Response to Isolated Compounds Spiked on U.S. Paper Currency, *J. Chromatogr. Sci.*, Invited paper for special issue "Solid-Phase Microextraction". 40 (2002) 147-155.
77. J.R. Almirall and K.G. Furton, New Developments in Sampling and Sample Preparation for Forensic Analysis, Invited chapter for "Sampling and Sample Preparation for the Field and Laboratory" in Wilson and Wilson's *Comprehensive Analytical Chemistry Vol. 37*, edited by J.B. Pawliszyn, Elsevier, 2002, pp. 919-934.
78. J.R. Almirall, S. Montero and K.G. Furton, Association of Glass Fragments by their Trace Elemental Content Using ICP-MS and LA-ICP-MS in the Analysis Scheme in *Enabling Technologies for Law Enforcement and Security*, Edward M. Carapezza, Editor, Proc. SPIE, 2002, pp. 61-71.
79. J.R. Almirall and K.G. Furton, "Trends in Forensic Science Education: Expansion and Increased Accountability", *Journal of Analytical and Bioanalytical Chemistry*, 376 (2003) 1156-1159.
80. N. Lorenzo, T. Wan, R.J. Harper, Y.-L. Hsu, M. Chow, S. Rose and K.G. Furton, Laboratory and field experiments used to identify *canis lupus var. familiaris* active odor signature chemicals from drugs, explosives and humans, *Analytical and Bioanalytical Chemistry*, invited paper for special forensic chemistry issue, 376 (2003) 1212-1224.
81. J.R. Almirall and K.G. Furton, Characterization of Background and Pyrolysis Products that May Interfere with the Forensic Analysis of Fire Debris, Invited paper for *J. Analyt. Appl. Pyrolysis*, 71(1) (2003) 51-67.
82. A.J. Sabucedo and K.G. Furton, Estimation of Postmortem Interval using the Protein Cardiac Troponin I, *Forensic Sci. International*, 134 (2003) 11-16.
83. K.G. Furton, R.J. Harper, J. M. Perr and J.R. Almirall, Optimization of biological and instrumental detection of explosives and ignitable liquid residues including canines, SPME/ITMS and GC/MSⁿ, in *Sensors and Command, Control, Communications and Intelligence Technologies for Homeland Defense and Law Enforcement*, Edward M. Carapezza, Editor, Proc. SPIE, 2003, 183-192.
84. J.R. Almirall, T. Trejos, A. Hobbs and K.G. Furton, Trace elemental analysis of glass and paint samples of forensic interest by ICP-MS using Laser Ablation solid sample introduction, in *Sensors and Command, Control, Communications and Intelligence Technologies for Homeland Defense and Law Enforcement*, Edward M. Carapezza, Editor, Proc. SPIE, 2003, 193-204.
85. K.G. Furton and R. Harper, Detection of Ignitable Liquid Residues in Fire Scenes Accelerant Detection Canine (ADC) Teams and other Field Tests Advances in Forensic Science in *Advances in Forensic Science Techniques: Interpretation of Fire Scene Evidence*, CRC Press, Boca Raton, 2004.
86. A.J. Sabucedo, M.A. Gutierrez, K.C. Mueller, B.L. Bellissima, Y.-L. Hsu, S. Rose, and K.G. Furton, Sex, Lies, and Niagra (Presence of Sildenafil in Niagra Actra Rx[®] and Actra Rx[®]), *JAMA*, 291(5) (2004) 560-562.
87. S. Rose and K.G. Furton, Variables Affecting the Accuracy and Precision of Breath Alcohol Instruments Including the Intoxilyzer 5000, Invited Book Chapter for "Georgia DUI Law, A Resource for Lawyers and Judges" edited by George Stein, Michie, 2004 (ISBN#0327162961).

88. J.R. Almirall, T. Trejos, A. Hobbs, J. Perr and K.G. Furton, Mass Spectrometry in Forensic Science, in *Advances in Mass Spectrometry*, Vol 16, A.E. Ashcroft, G. Breton and J.J. Monaghan, Eds., Elsevier, 2004, 167-187.
89. A.J. Sabucedo and K.G. Furton, Extractionless GC/MS Analysis of g-Hydroxybutyrate and g-Butyrolactone with Trifluoroacetic anhydride and Heptafluoro-1-butanol, *J. Separation Sci.*, 27 (2004) 703-709.
90. J.M. Perr, K.G. Furton and J.R. Almirall, Improved Detection of Organic Explosives Using SPME-IMS and SPME-GC-MS-MS, Proceedings of the 8th International Symposium on the Analysis and Detection of Explosive (ISADE), 2004, Ottawa, Canada.
91. R.J. Harper, J.R. Almirall and K.G. Furton, Improving the Scientific Reliability of Biological Detection of Explosives by Canis Familiaris Through Active Odor Signatures and their Implications, Proceedings of the 8th International Symposium on the Analysis and Detection of Explosive (ISADE), 2004, Ottawa, Canada.
92. A.M. Curran, S.I. Rabin and K.G. Furton, Analysis of the uniqueness and persistence of human scent, Forensic Science Communications, Vol. 7, No. 2, (April 2005), 23 pages accessed at http://www2.fbi.gov/hq/lab/fsc/backissu/april2005/research/2005_04_research02.htm.
93. J.M. Perr, K.G. Furton and J.R. Almirall, Solid phase microextraction ion mobility spectrometer interface for explosive and taggant detection, *J. Separation Sci.*, Volume 28, Issue 2 (February 2005), (p 177-183).
94. A.M. Curran, P.A. Prada, A.A. Schoon, J.R. Almirall and K.G. Furton, Human Scent as a Biometric Measurement, in Biometric Technology for Human Identification II, edited by A.K. Jain and N.K. Ratha, Proc. Of SPIE Vol. 5779, SPIE, Bellingham, WA, March, 2005, 398-408.
95. A.M. Curran, J.R. Almirall, A.A. Schoon and K.G. Furton, Human Scent as a Potential Biometric Measurement Utilizing Solid Phase Microextraction – Gas Chromatography/Mass Spectrometry (SPME-GC/MS), Proc. of the Eleventh International Symposium on Olfaction and electronic Nose – ISOEN 2005, S. Marco and I. Montoliu, Editors, Barcelona University, Spain, 2005 (ISBN: 84-689-113), pp. 345-348.
96. R.T. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Differentiation of Hazardous Indoor Molds via Canine Detection and SPME-GC/MS, Proceedings of the Eleventh International Symposium on Olfaction and electronic Nose – ISOEN 2005, S. Marco and I. Montoliu, Editors, Barcelona University, Spain, 2005 (ISBN: 84-689-113), pp. 351-354.
97. L. Conner and K.G. Furton, Evaluation of Electronic Noses in Conjunction with Field Sampling Apparatus in Fire Investigations, Proceedings of the Eleventh International Symposium on Olfaction and electronic Nose – ISOEN 2005, S. Marco and I. Montoliu, Editors, Barcelona University, Spain, 2005 (ISBN: 84-689-113), pp. 222-225.
98. A.M. Curran, S.I. Rabin, P.A. Prada and K.G. Furton, Comparison of the Volatile Organic Compounds Present in Human Odor Using SPME-GC/MS, *J. Chemical Ecology*, Vol. 31, No. 7 (2005) 1607 - 1619.

99. R.J. Harper, J.R. Almirall and K.G. Furton, Identification of dominant odor chemicals emanating from explosives for use in developing optimal training aid combinations and mimics for canine detection, *Talanta*, 67 (2005) 313-327.
100. J.M. Perr, K.G. Furton and J.R. Almirall, Gas Chromatography Positive Chemical Ionization and Tandem Mass Spectrometry for the Analysis of Organic High Explosives, *Talanta*, 67 (2005) 430-436.
101. K.G. Furton and D.P. Heller, Advances in the reliable location of forensic specimens through research and consensus best practice guidelines for dog and orthogonal instrumental detectors, *Canadian Journal of Police & Security Services, Special Issue: Advances in Forensic Science*, Vol. 3, Issue 2 (2005), 97-107.
102. S. Rose and K.G. Furton, Fundamentals of Forensic Breath- and Blood-Alcohol Analysis (Chapter 5.01[B]), in *Drunk Driving Defense*, 6th Edition, by Lawrence Taylor and Steve Oberman, Aspen Publishers, New York, ISBN 0-7355-5429-3, pp. 317-349, 2006.
103. L. Conner, S. Chin and K.G. Furton, Evaluation of Field Sampling Techniques including Electronic Noses and a Dynamic Headspace Sampler for Use in Fire Investigations, *Sensors and Actuators B*, 116 (2006) 121-129.
104. Curran, A.M., S.I. Rabin, P.A. Prada, and K.G. Furton. On the Definition and Measurement of Human Scent: Response by Curran et. al., *Journal of Chemical Ecology*, Vol. 32 (2006) 1617-1623.
105. K.G. Furton, M. Kusano and M.S. Macias, Gas Chromatography: Forensic Applications, in *Encyclopedia of Separation Science*, Elsevier Ltd., 2007, 1-8.
106. A.M. Curran, C.F. Ramirez, A.A. Schoon and K.G. Furton, The Frequency of Occurrence and Discriminatory Power of Compounds Found in Human Scent Across a Population Determined by SPME-GC/MS, *J. Chromatogr. B*, 846 (2007) 86-97.
107. R.J. Harper and K.G. Furton, Biological Detection of Explosives, Chapter 13 in "Counterterrorist Detection Techniques of Explosives", J. Yinon, Editor, Elsevier, 2007, 395-431.
108. R.T. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Differentiation of Toxic Molds via Headspace SPME-GC/MS and Canine Detection, *Sensors*, 7 (2007) 1415-1427.
109. K.G. Furton, M. Kusano and M.S. Macias, Gas Chromatography: Forensic Applications, in *Encyclopedia of Separation Science*, Elsevier Ltd., 2007, 1-8.
110. C.A. Newcombe and K.G. Furton, Dogs in Drug Detection, in *Encyclopedia of Drugs, Alcohol & Addictive Behavior*, 3rd edition, 2008, D-26-28.
111. P.A. Prada and K.G. Furton, Human Scent Detection: A Review of Its Developments and Forensic Applications, *Revista de Ciencias Forenses*, 1(2), 81-87, 2008.
112. A.A. Schoon, A.M. Curran and K.G. Furton, Odor Biometrics, In *Encyclopedia of Biometrics*, S.Z. Li, Editor, Springer, 2009, 1009-1014.
113. D.T. Hudson, A.M. Curran and K.G. Furton, The Stability of Collected Human Scent Under Various Environmental Conditions, *J. Forensic Sci.*, Vol. 54., No. 6, 1270-1277, 2009.

114. M.S. Macias, P. Guerra-Diaz, J.R. Almirall and K.G. Furton, Detection of piperonal emitted from polymer controlled odor mimic permeation systems utilizing *Canis familiaris* and solid phase microextraction-ion mobility spectrometry, *Forensic Science International*, 195 (2010) 132-138.
115. A.M. Curran, P.A. Prada and K.G. Furton, The Differentiation of the Volatile Organic Signatures of Individuals Through SPME-GC/MS of Characteristic Human Scent Compounds, *J Forensic Sci*, Vol. 55, No. 1, 50-57, 2010.
116. P.A. Prada, A.M. Curran and K.G. Furton, Comparison of Extraction Methods for the Removal of Volatile Organic Compounds (VOCs) Present in Sorbents Used for Human Scent Evidence Collection, Featured article on the cover of *Analytical Methods*, Vol. 2, No. 5 (2010) 417-588.
117. A.M. Curran, PhD; P.A. Prada, K.G. Furton, Canine Human Scent Identifications with Post-Blast Debris Collected from Improvised Explosive Devices, *Forensic Science International*, 199 (2010) 103-108.
118. S. Tolliver, W. L. Hearn and K.G. Furton, Evaluating the Relationship between Postmortem and Antemortem Morphine and Codeine Concentrations in Whole Blood, *Journal of Analytical Toxicology*, 34 (8) 491-497, 2010.
119. D.T. Hudson-Holness and K.G. Furton, Comparison between human scent compounds collected on cotton and cotton blend materials for SPME-GC/MS analysis, *J. Forensic Res.*, 1 (1) 1-6, 2010.
120. M. Kusano, E. Mendez and K.G. Furton, Development of headspace SPME method for analysis of volatile organic compounds present in human biological specimens, Expedited "Paper in Forefront" in *J. Anal. Bioanal. Chem.* Published online April 6, 2011. 400:1817-1826 (May 24, 2011).
121. P. Prada, A.M. Curran and K.G. Furton, The Evaluation of Human Hand Odor Volatiles on Various Textiles: A Comparison between Contact and Noncontact Sampling Methods, *Journal of Forensic Sciences*, 56(4), 866-881, 2011.
122. L.E. DeGreeff, A.M. Curran and K.G. Furton, Evaluation of Selected Sorbent Materials for the Collection of Volatile Organic Compounds Related to Human Scent Using Non-Contact Sampling Mode, *Forensic Science International*, 209 (2011) 133-142.
123. L.E. DeGreeff and K.G. Furton, Collection and Identification of Human Remains Volatiles by Non-Contact, Dynamic Airflow Sampling and SPME-GC/MS Using Various Sorbent Materials, *J. Anal. Bioanal. Chem.*, 401 (2011) 1295-1307.
124. M.S. Macias and K.G. Furton, Availability of Target Odor Compounds from Seized Ecstasy Tablets for Canine Detection, *Journal of Forensic Sciences*, 56 (6) 2011, 1594-1600.
125. L.E. DeGreeff, B. Weakley-Jones and K.G. Furton, Creation of Training Aids for Human Remains Detection Canines Utilizing a Non-Contact, Dynamic Airflow Volatile Concentration Technique, *Forensic Science International*, 217 (2012), 32-38.
126. P.A. Prada and K.G. Furton, Recent Advances in Solid-phase Microextraction for Forensic Applications, invited book chapter in *Comprehensive Sampling and Sample Preparation*. Pawliszyn, J., Le, X.C., Li, X.-F., Lee, H.K., Eds; Elsevier, Academic Press: Oxford, 2012, pp 441-465.

127. A. Kabir, H. Holness, K.G. Furton and J.R. Almirall, Legal and Forensic Sampling, Invited book chapter in *Comprehensive Sampling and Sample Preparation*; Pawliszyn, J., Bayona, J. M., Eds; Elsevier, Academic Press: Oxford, 2012, pp 877–891.
128. A. Kabir and K.G. Furton, Chapter 25: Applications of Gas Chromatography in Forensic Science, invited chapter in *Gas Chromatography* by C. F. Poole, Elsevier, Amsterdam, 2012, pp 563-604.
129. M. Kusano, E. Mendez and K.G. Furton, Comparison of the Volatile Organic Compounds from Different Biological Specimens for Profiling potential, *Journal of Forensic Sciences*, 2012, 1-11.
130. A. Kabir, H. Holness, K.G. Furton, and J.R. Almirall, Recent Advances in Micro Sample Preparation with Forensic Applications, *Trends in Analytical Chemistry (TrAC): Technological Innovation in Micro/Nano-Sample Preparation*, 2013, 264-279.
131. A. Kabir, A. Malik and K.G. Furton, Innovations in Sol-Gel Microextraction Phases for Solvent-Free Sample Preparation in Analytical Chemistry, *Trends in Analytical Chemistry (TrAC): Technological Innovation in Micro/Nano-Sample Preparation*, 2013, 197-218.
132. J.S. Brown, P.A. Prada, A.M. Curran, K.G. Furton, Applicability of Emanating Volatile Organic Compounds from Various Forensic Specimens for Individual Differentiation, *Forensic Science International*, 2013, 173-182.
133. PA Prada, AM Curran, KG Furton, Characteristic Human Scent Compounds Trapped on Natural and Synthetic Fabrics as analyzed by SPME- GC/MS, *Journal of Forensic Science and Criminology* Vol 1 Issue ,1 May 2014
134. R. Kumar, G. Heena, A. Malik, A. Kabir, K.G. Furton, Efficient analysis of selected estrogens using fabric phase sorptive extraction and high performance liquid chromatography-fluorescence detection, *Journal of Chromatography A*, 1359(2014)16-25. ([doi:10.1016/j.chroma.2014.07.013](https://doi.org/10.1016/j.chroma.2014.07.013))
135. V. Samanidou, A. Kabir; L. Galanopoulos; K. Furton Fast Extraction of Amphenicols Residues from Raw Milk Using Novel Fabric Phase Sorptive Extraction Followed by High-Performance Liquid Chromatography-Diode Array Detection *Analytica Chimica Acta*, 855 (2015) 41-50. ([doi:10.1016/j.aca.2014.11.036](https://doi.org/10.1016/j.aca.2014.11.036))
136. M. Roldán-Pijuána, R. Lucena, S. Cárdenas, M. Valcárcel, A. Kabir, K. G. Furton. Stir fabric phase sorptive extraction for the determination of triazine herbicides in environmental waters by liquid chromatography. *Journal of Chromatography A*, Available online Dec 12, 2014. ([doi:10.1016/j.chroma.2014.12.027](https://doi.org/10.1016/j.chroma.2014.12.027))
137. I. Racamonde, R. Rodil, J. Benito Quintana, B. José Sieira, A. Kabir, K. G. Furton, R. Cela, Fabric Phase Sorptive Extraction: A New Sorptive Microextraction Technique for the Determination of Non-steroidal Anti-inflammatory Drugs from Environmental Water Samples, *Analytica Chimica Acta* 865 (2015) 22-30 ([doi:10.1016/j.aca.2015.01.036](https://doi.org/10.1016/j.aca.2015.01.036))
138. C. Sanchez, P. Prada and K.G. Furton, On the importance of training aids and the definition of an explosive odor signature: Commentary on Kranz et al, *Forensic Science International* 2015, <http://dx.doi.org/10.1016/j.forsciint.2015.03.016>
139. M. M. Cerreta and K.G. Furton, An Assessment of Detection Canine Alerts using Flowers that Release Methyl Benzoate, the Cocaine Odorant, and an Evaluation of their Behavior in Terms of the

VOCs Produced, Forensic Science International 2015 pp. 107-114, doi:
10.1016/j.forsciint.2015.03.021

140. K.G. Furton, N.I. Caraballo, M.M. Cerreta and H. Holness, Advances in the use of Odour as Forensic Evidence through Optimizing and Standardizing Instruments and Canines, Philosophical Transactions B, 370: 20140262, 2015 <http://dx.doi.org/10.1098/rstb.2014.0262>
141. R. Kumar, A. Kabir, K.G. Furton and A.K. Malik, Development of fabric phase sorptive extraction-high performance liquid chromatography-ultraviolet detection method for analysis of alkylphenols in environmental samples, Journal of Separation Science, 2015, 0, p1-11.
142. S.S. Lakade, F. Borrull, K.G. Furton, A. Kabir, N. Fontanals, R.M. Marcé. Comparative Study of Different Fabric Phase Sorptive Extraction Sorbents to Determine Emerging Contaminants from Environmental Water Using Liquid Chromatography-Tandem Mass Spectrometry. In Press, Accepted for Publication. Talanta, 2015. Vol 144 pg 1342-1351
143. K. Eftychia, N. Manousi, V., A. Kabir, K.G. Furton. Fabric Phase Sorptive Extraction for the Fast Isolation of Sulfonamide Residues from Residues from Raw Milk followed by High Performance Liquid Chromatography with UV detection. Accepted for Publication. Journal Biomedical Chromatography, 2015. (<http://onlinelibrary.wiley.com/doi/10.1002/bmc.3615/abstract>)
144. S. Montesdeoca-Espnoda, Z. Sora-Ferrera, A. Kabir, K.G. Furton, J.J. Santana-Rodriguez, Fabric Phase Sorptive Extraction Followed by UHPLC-MS/MS For The Analysis of Benzotriazole UV Stabilizers in Sewage Samples, Journal of Analytical and Bioanalytical Chemistry, 2015 Oct; 407(26): 8137-50. doi: 10.1007/s00216-015-8990-x
145. A. K. Miller, M. Hensman, S. Hensman K. Schultz, P. Reid, M. Shore, J. Brown, K. Furton and S. Lee, African Elephants (*Loxodonta africana*) can Detect TNT using Olfaction; Implications for Biosensor Application, Journal of Applied Animal Behaviour Science, 171 (2015) 177-183
<http://dx.doi.org/doi:10.1016/j.applanim.2015.08.003>
146. A. Kabir, K. G. Furton. Novel Sol-Gel Sorbents in Sorptive Microextraction. In Analytical Microextraction Techniques. Editors M. Valcarcel, S. Cardenas, R. Lucena. Bentham Science Publishers, Sharjah, UAE, 2016.
147. V. Samanidou, I. Kaltzi, A. Kabir, K.G. Furton. Simplifying Sample Preparation Using Fabric Phase Sorptive Extraction Technique for the Determination of Benzodiazepines in Blood Serum by High-Performance Liquid Chromatography. J. Food Chemistry, 2016, 196, 428-436
(<http://www.sciencedirect.com/science/article/pii/S030881461501403X>)
148. Victoria Samanidou; Abuzar Kabir; Maria Kehagia; Kenneth G Furton, Matrix Molecularly Imprinted Mesoporous Sol-gel Sorbent for Efficient Solid-Phase Extraction of Chloramphenicol from Milk, Analytica Chimica Acta, Volume 914, 31 March 2016, Pages 62-74
149. Sanchez CL, Huertas AM, Prada PA and Furton KG, A Non-Contact Passive Approach for the Effective Collection of Target Explosive Volatiles for Canine Training Aid Development, Journal of Forensic Science & Criminology (2016), Vol 4, Issue 2, March 2016
150. A. Anthemidis, V.Kazantzi, V.Samanidou, A.Kabir, K.G.Furton, An automated flow injection system for metal determination by flame atomic absorption spectrometry involving on-line fabric disk sorptive extraction technique, Talanta Volumes 156–157, 15 August 2016, Pages 64–70

151. V. Samanidou, K. Michaelidou, A. Kabir, K.G. Furton. Fabric Phase Sorptive Extraction of Selected Penicillin Antibiotic Residues from Raw Milk Followed by High Performance Liquid Chromatography with Diode Array Detection. Food Chemistry, 2016 (<http://dx.doi.org/10.1016/j.foodchem.2016.12.024>).
152. Karageorgou, E.; Manousi, N.; Samanidou, V.; Kabir, A.; Furton, K. G. Fabric Phase Sorptive Extraction for the Fast Isolation of Sulfonamides Residues from Raw Milk Followed by High Performance Liquid Chromatography with Ultraviolet Detection. FOOD Chem. 2016, 196, 428–436. <https://doi.org/10.1016/j.foodchem.2015.09.060>
153. Heena, Gaurav, R. Kumar, A.K. Malik, A. Kabir*, K.G. Furton. Speciation of Cr(III) and Cr(VI) via fabric phase sorptive extraction for their Quantification via HPLC with UV detection. Sep. Sci. Tech. 2016, 7:3 (<http://dx.doi.org/10.4172/2157-7064.1000327>).
154. Norma Iris Caraballo, Julian Mendell, Howard Holness, Joel La Salvia, Tina Moroosse, Brian Eckenrode, Rex Stockham, Kenneth Furton and DeEtta Mills, An Investigation into the Concurrent Collection of Human Scent and Epithelial Skin Cells using a Non-Contact Sampling Device, Forensic Science International (2016), Vol 266, pg 148-159
155. M. Aznar, P Alfaro, C. Nerin, A. Kabir and K.G. Furton, Fabric phase sorptive extraction: An innovative sample preparation approach applied to the analysis of specific migration from food packaging, Analytica Chimica Acta (2016). Vol 936, pg 97-107.
156. Nadja Schreiber-Compo, Roland Carol, Jacqueline Evans, Pamela Pimentel, Kristin Nicholas-Lopez, Howard K Holness, Stefan Rose, Kenneth G. Furton, Witness memory and alcohol: The effects of state-dependent recall, Law and Human Behavior (2016, October 27) <http://dx.doi.org/10.1037/lhb0000224>
157. R.B. García-Guerra, S. Montesdeoca-Esponda, Z. Sosa-Ferrera, A. Kabir, K.G. Furton. Rapid Monitoring of Residual UV-Stabilizers in Seawater Samples from Beaches Using Fabric Phase Sorptive Extraction and UHPLC-MS/MS. Chemosphere, 2016 (164), 201-207 (<http://dx.doi.org/10.1016/j.chemosphere.2016.08.102>).
158. Heena, R. Kaur, S. Rani, A. K. Malik, A. Kabir, K.G. Furton. Determination of Cobalt (II), Nickel (II) and Palladium (II) Ions via Fabric Phase Sorptive Extraction in Combination with High Performance Liquid Chromatography-UV Detection. Separation Science and Technology, 52(1), 81-90, 2017 (<http://dx.doi.org/10.1080/01496395.2016.1232273>).
159. L.J. Colón-Crespo, D. Herrera-Hernández, H. Holness, K.G. Furton, Determination of VOC Marker Combinations for the Classification of Individuals by Gender and Race/Ethnicity, Forensic Science International 2016, 10.1016/j.forsciint.2016.09.011
160. Lakade, S. S.; Borrull, F.; Furton, K. G.; Kabir, A.; Maria Marce, R.; Fontanals, N. Dynamic Fabric Phase Sorptive Extraction for a Group of Pharmaceuticals and Personal Care Products from Environmental Waters. J. Chromatogr. A 2016, 1456, 19–26. <https://doi.org/10.1016/j.chroma.2016.05.097>.
161. R. Guedes-Alonso, L. Ciofi, Z. Sosa-Ferrera, J.J. Santana-Rodriguez, M. Del Bubba, A. Kabir*, K.G. Furton, “Determination of Androgens and Progesterons in Environmental and Biological Samples Using Novel Fabric Phase Sorptive Extraction (FPSE) Coupled to Ultra-High

- Performance Liquid Chromatography Tandem Mass Spectrometry”, J. Chromatogr. A, 2016, 1437, 116-126 (<http://dx.doi.org/10.1016/j.chroma.2016.01.077>), I.F. 4.759.
162. M.C. Alcudia-Leon, R. Lucena, S. Cardenas, M. Valcarcel, A. Kabir, K.G. Furton, “Integrated Sampling and Analysis Unit for the Determination of Sexual Pheromones in Environmental Air Using Fabric Phase Sorptive Extraction and Headspace-Gas Chromatography-Mass Spectrometry”, J. Chromatogr. A, 2016, 1488, 17-25 (<http://dx.doi.org/10.1016/j.chroma.2017.01.077>), I.F. 4.759.
163. M.Carmen Alcudia-León, Rafael Lucena, Soledad Cárdenas, Miguel Valcárcel, Abuzar Kabir, Kenneth G. Furton, Integrated sampling and analysis unit for the determination of sexual pheromones in environmental air using fabric phase sorptive extraction and headspace-gas chromatography–mass spectrometry, Journal of Chromatography A, January 2017 (<http://dx.doi.org/10.1016/j.chroma.2017.01.077>)
164. Alison G. Simon, DeEtta K. Mills, Kenneth G. Furton, Chemotyping the temporal volatile organic compounds of an invasive fungus to the United States, *Raffaelea lauricola*, Journal of Chromatography A, January 2017 ([Volume 1487](https://doi.org/10.1016/j.chroma.2017.01.077), 3 March 2017, Pages 72–76)
165. Alison G. Simon, DeEtta K. Mills, Kenneth G. Furton, Chemical and Canine Analysis as Complimentary Techniques for the Identification of Active Odors of the Invasive Fungus, *Raffaelea lauricola*, Talanta, March 2017 (<http://dx.doi.org/10.1016/j.talanta.2017.03.015>)
166. Shivender Singh Saini, Abuzar Kabir, Avasarala Lakshmi Jagannadha Rao1, Ashok Kumar Malik, Kenneth G. Furton, A novel protocol to monitor trace levels of selected polycyclic aromatic hydrocarbons in environmental water using fabric phase sorptive extraction followed by high performance liquid chromatography-fluorescence detection, Separations 2017, 4, 22.
167. V. Samanidou, O. Filippou, E. Marinou, A. Kabir, K.G. Furton. Rapid and efficient sample cleanup of cow and human breast milk for screening bisphenol A and residual dental restorative material using sol-gel graphene coated fabric phase sorptive extraction media prior to analysis in high performance liquid chromatography and diode array detection. Accepted for publication in Journal of Separation Sciences, 2017. 10.1002/jssc.201700256
168. Samanidou, V.; Michaelidou, K.; Kabir, A.; Furton, K. G. Fabric Phase Sorptive Extraction of Selected Penicillin Antibiotic Residues from Intact Milk Followed by High Performance Liquid Chromatography with Diode Array Detection. FOOD Chem. 2017, 224, 131–138. <https://doi.org/10.1016/j.foodchem.2016.12.024>.
169. M. Locatelli, A. Kabir, D. Innosa, T. Lopatriello, K.G. Furton. A Fabric Phase Sorptive Extraction-High Performance Liquid Chromatography-Photo Diode Array Detection Method for the Determination of Twelve Azole Antimicrobial Drug Residues in Human Plasma and Urine. J. Chromatogr. B, 1040 (2017) 192-198. (<http://dx.doi.org/10.1016/j.jchromb.2016.10.045>).
170. Aznar M, Úbeda S, Nerin C, Kabir A, Furton KG, Fabric phase sorptive extraction as a reliable tool for rapid screening and detection of freshness markers in oranges, J Chromatogr A. 2017 Jun 2;1500:32-42. doi: 10.1016/j.chroma.2017.04.006.
171. Abuzar Kabir, Rodolfo Mesa, Jessica Jurmain and Kenneth G. Furton, Fabric Phase Sorptive Extraction Explained, Separations 2017, 4, 21; doi:10.3390/separations4020021

172. Shivender Singh Saini, Abuzar Kabir , Avasarala Lakshmi Jagannadha Rao 1, Ashok Kumar Malik and Kenneth G. Furton, A Novel Protocol to Monitor Trace Levels of Selected Polycyclic Aromatic Hydrocarbons in Environmental Water Using Fabric Phase Sorptive Extraction Followed by High Performance Liquid Chromatography-Fluorescence Detection, *Separations* 2017, 4(2), 22; doi:10.3390/separations4020022
173. Danni Cuia, Alexander M. Mebel, Luis E. Arroyo-Mora, Howard Holness, G.Furton Kenneth, Kevin O'Shea, Kinetic, product, and computational studies of the ultrasonic induced degradation of 4-methylcyclohexanemethanol (MCHM), *Water Research*, <https://doi.org/10.1016/j.watres.2017.09.005>
174. Evans, J.R., Schreiber Compo, N., Carol, R.N., Schwartz, B.L., Holness, H., Rose, S., & Furton, K. G. (2017). Alcohol intoxication and metamemory: Little evidence that moderate intoxication impairs metacognitive monitoring processes. *Applied Cognitive Psychology*, 31, 573-585. doi: 10.1002/acp.3373
175. Compo, N. S.; Carol, R. N.; Evans, J. R.; Pimentel, P.; Holness, H.; Nichols-Lopez, K.; Rose, S.; Furton, K. G. Witness Memory and Alcohol: The Effects of State-Dependent Recall. *LAW Hum. Behav.* 2017, 41 (2), 202–215. <https://doi.org/10.1037/lhb0000224>.
176. Sergio Santana-Viera, PhD Student; Rayco Guedes-Alonso, PhD; Zoraida Sosa-Ferrera, PhD; José Juan Santana-Rodríguez, PhD; Abuzar Kabir, PhD; Kenneth G Furton, PhD, Optimization and application of fabric phase sorptive extraction coupled to ultra-high performance liquid chromatography tandem mass spectrometry for the determination of cytostatic drug residues in environmental waters, *J. Chromatography A* 2017 Dec 22;1529:39-49.
177. Samanidou, V.; Filippou, O.; Marinou, E.; Kabir, A.; Furton, K. G. Sol-Gel-Graphene-Based Fabric-Phase Sorptive Extraction for Cow and Human Breast Milk Sample Cleanup for Screening Bisphenol A and Residual Dental Restorative Material before Analysis by HPLC with Diode Array Detection. *J. Sep. Sci.* 2017, 40 (12), 2612–2619. <https://doi.org/10.1002/jssc.201700256>
178. A. Kabir, K.G. Furton, “Sample Preparation in Food Analysis: Practices, Problems and Future Outlook”, In: *Analytical Chemistry: Developments, Applications and Challenges in Food Analysis* (ISBN: 978153612282), Edited by Marcello Locatelli, Nova Science Publishers, Inc., Hauppauge, New York, USA, 2017.
179. Kechagia, Maria, Samanidou, Victoria, Kabir, Abuzar, Furton, Kenneth G, One-pot synthesis of a multi-template molecularly imprinted polymer for the extraction of six sulfonamide residues from milk before high-performance liquid chromatography with diode array detection, *JOURNAL OF SEPARATION SCIENCE* Volume: 41 Issue: 3 Pages: 723-731 DOI: 10.1002/jssc.201701205 FEB 2018
180. Kazantzi, Viktoria, Kabir, Abuzar, Furton, Kenneth G, Anthemidis, Aristidis, Fabric fiber sorbent extraction for on-line toxic metal determination by atomic absorption spectrometry: Determination of lead and cadmium in energy and soft drinks, *MICROCHEMICAL JOURNAL* Volume: 137 Pages: 285-291 DOI: 10.1016/j.microc.2017.11.006 Published: MAR 2018
181. M. Kechagia, V. Samanidou*, A. Kabir*, K.G. Furton, “Synthesis of a multi-analyte molecularly imprinted polymer for the extraction of six sulfonamide antibiotic drug residues from milk prior to HPLC-DAD analysis”, *Journal of Separation Sciences*, 41 (3) 723-731, 2017 (<http://onlinelibrary.wiley.com/doi/10.1002/jssc.201701205/full>), I.F. 3.645.

182. V. Kazantzi, A. Kabir, K.G. Furton, A. Aristidis*, “Fiber fabric sorbent extraction for on-line toxic metal determination by atomic absorption spectrometry: Determination of lead and cadmium in energy and soft drinks”, *Microchemical Journal* 137 (2018) 285-291 (<https://www.sciencedirect.com/science/article/pii/S0026265X1731055X>), I.F. 4.821.
183. Ketaki Deshpande, Kenneth G. Furton, De Etta K. Mills, The Equine Volatilome: Volatile Organic Compounds as Discriminatory Markers, *Journal of Equine Veterinary Science* 62 (2018) 47–53
184. Julian Mendel, Kenneth G. Furton, DeEtta K. Mills, An Evaluation of Scent-discriminating Canines for rapid responses to Agricultural Diseases, *HortTechnology*, April 2018 28 (2), 102–108
185. Julian Mendel, Christina Burns, Beatrice Kallifatidis, Edward Evans, Jonathan Crane, Kenneth G. Furton, DeEtta K. Mills Agri-dogs: Using Canines for Earlier Detection of Laurel Wilt Disease Affecting Avocado Trees in South Florida, *HortTechnology*, April 2018 28 (2), 109–116
186. Sameer S. Lakade, Francesc Borrull, Kenneth G. Furton, Abuzar Kabir, Rosa Maria Marcé, Núria Fontanals, Novel capsule phase microextraction in combination with liquid chromatography-tandem mass spectrometry for determining personal care products in environmental water, *Journal of Analytical and Bioanalytical Chemistry*, May 2018, Volume 410, Issue 12, pp 2991–3001
187. Marcello Locatelli, Angela Tartaglia, Abuzar Kabir, Songül ULUSOY, Elena Sperandio, Silvia, Piccolantonio, Halil Ibrahim ULUSOY, Kenneth Furton, Marcello Locatelli, FPSE-HPLC-DAD method for the quantification of anticancer drugs in human whole blood, plasma, and urine, *Journal of Chromatography B*, Volume 1095, 2018, Pages 204-213
188. Rekhi, Heena, Kaur, Ramandeep, Rani, Susheela, Malik, Ashok Kumar, Kabir, Abuzar, Furton, Kenneth G, Direct Rapid Determination of Trace Aluminum in Various Water Samples with Quercetin by Reverse Phase High-Performance Liquid Chromatography Based on Fabric Phase Sorptive Extraction Technique, *JOURNAL OF CHROMATOGRAPHIC SCIENCE* Volume: 56 Issue: 5 Pages: 452-460 DOI: 10.1093/chromsci/bmy015 Published: MAY 2018
189. V. Samanidou, D.E. Georgiadis, A. Kabir, K.G. Furton, “*Capsule Phase Microextraction: The Total and Ultimate Sample Preparation Approach*”, *Analytical and Separation Techniques*, 2018 (<https://doi.org/10.4172/2157-7064.1000395>), I. F. 4.83
190. Kabir, A.; Furton, K. G.; Tinari, N.; Grossi, L.; Innosa, D.; Macerola, D.; Tartaglia, A.; Di Donato, V.; D’Ovidio, C.; Locatelli, M. Fabric Phase Sorptive Extraction-High Performance Liquid Chromatography-Photo Diode Array Detection Method for Simultaneous Monitoring of Three Inflammatory Bowel Disease Treatment Drugs in Whole Blood, Plasma and Urine. *J. Chromatogr. B-ANALYTICAL Technol. Biomed. LIFE Sci.* 2018, 1084, 53–63. <https://doi.org/10.1016/j.jchromb.2018.03.028>.
191. Eirini Zilfidou, Abuzar Kabir, Kenneth G. Furton and Victoria Samanidou, Fabric Phase Sorptive Extraction: Current State of the Art and Future Perspectives, *Separations* 2018, 5, 40; doi:10.3390/separations5030040
192. Evans, J.R., Schreiber Compo, N., Carol, R.N., Nichols-Lopez, K., Holness, H., & Furton, K.G. The impact of alcohol intoxication on witness suggestibility immediately and after a delay. *Applied Cognitive Psychology* 2018;1-12

193. Paola Alexandra Prada, Kenneth G Furton, Birds and Dogs: Toward a Comparative Perspective on Odor Use and Detection, *Frontiers in Veterinary Science*, 14 August 2018, 5:188, DOI: 10.3389/fvets.2018.00188
194. Kazantzi, Viktoria, Samanidou, Victoria, Kabir, Abuzar, Furton, Kenneth G., Anthemidis, Aristidis, On-Line Fabric Disk Sorptive Extraction via a Flow Preconcentration Platform Coupled with Atomic Absorption Spectrometry for the Determination of Essential and Toxic Elements in Biological Samples, *SEPARATIONS* Volume: 5 Issue: 3 Article Number: 34 DOI: 10.3390/separations5030034 Published: SEP 2018
195. Ramandeep Kaur, Ripneel Kaur, Susheela Rani, Ashok Kumar Malik, Abuzar Kabir, Kenneth G. Furton, Application of Fabric Phase Sorptive Extraction/Gas Chromatography-Mass Spectrometry for the Determination of Organophosphate Pesticide Residues in Selected Vegetable Samples, *Journal of Separation Sciences*, 2019;1–9. DOI: 10.1002/jssc.201800854
196. Mesa, Rodolfo, Kabir, Abuzar, Samanidou, Victoria, Furton, Kenneth G., Simultaneous determination of selected estrogenic endocrine disrupting chemicals and bisphenol A residues in whole milk using fabric phase sorptive extraction coupled to HPLC-UV detection and LC-MS/MS, *JOURNAL OF SEPARATION SCIENCE* Volume: 42 Issue: 2 Pages: 598-608 DOI: 10.1002/jssc.201800901 Published: JAN 2019
197. Perez-Mayan, L, Rodriguez, I., Ramil, M., Kabir, A., Furton, K. G., Cela, R., Fabric phase sorptive extraction followed by ultra-performance liquid chromatography-tandem mass spectrometry for the determination of fungicides and insecticides in wine, *JOURNAL OF CHROMATOGRAPHY A* Volume: 1584 Pages: 13-23 DOI: 10.1016/j.chroma.2018.11.025 Published: JAN 7 2019
198. Kaur, R.; Kaur, R.; Rani, S.; Malik, A.K.; Kabir, A.; Furton, K.G.; Samanidou, V. Rapid Monitoring of Organochlorine Pesticides Residues in Various Fruit Juices and Water Samples Using Fabric Phase Sorptive Extraction and Gas Chromatography-Mass Spectrometry, *Molecules* 2019, 24(6), 1013; <https://doi.org/10.3390/molecules24061013>
199. Doukas-Evangelos Georgiadis, Athanasios Tsalbouris, Abuzar Kabir, Kenneth G. Furton, Victoria Samanidou, Novel capsule phase microextraction in combination with high performance liquid chromatography with diode array detection for rapid monitoring of sulfonamide drugs in milk, *Journal of Separation Science* 2019, 1-11, <https://doi.org/10.1002/jssc.201801283>
200. Angela Tartaglia , Marcello Locatelli, Abuzar Kabir, Kenneth G. Furton , Daniela Macerola, Elena Sperandio, Silvia Piccolantonio, Halil I. Ulusoy, Fabio Maroni, Pantaleone Bruni, Fausto Croce, Victoria Samanidou, Comparison between Exhaustive and Equilibrium Extraction using different SPE Sorbents and Sol-gel Carbowax 20M Coated FPSE Media, *Molecules* 2019, 24, 382; doi:10.3390/molecules24030382
201. Marcello Locatelli, Angela Tartaglia, Silvia Piccolantonio, Elena Sperandio, Halil Ibrahim Ulusoy, Kenneth G. Furton, Abuzar Kabir, Innovative Configurations of Sample Preparation Techniques Applied in Bioanalytical Chemistry: A Review, *Current Analytical Chemistry*, (14) 731-744, 2019, DOI: 10.2174/1573411015666190301145042
202. Alison G Simon, Lauryn E DeGreeff, Kelvin Frank, Kimberly Peranich, Howard Holness, Kenneth G Furton, A Method for Controlled Odor Delivery in Olfactory Field-Testing, *Chemical Senses*, bjj031, <https://doi.org/10.1093/chemse/bjj031> (May 21, 2019).

203. M. Locatelli, A. Tartaglia, S. Piccolantonio, E. Sperandio, H.I. Ulusoy, K.G. Furton, A. Kabir, "Advances in Innovative Sample Preparation Configurations Applied to Bioanalytical Chemistry: A Critical Review", *Current Analytical Chemistry*, 2019, 15(3) 313-320 (<https://doi.org/10.2174/1573411014666180502105225>), I.F. 1.56.
204. Vanquilla Shellman Francis, Howard K. Holness, Kenneth G. Furton, The Ability of Narcotic Detection Canines to detect Synthetic Cathinones (Bath Salts), *Front. Vet. Sci.*, 09 April 2019, <https://doi.org/10.3389/fvets.2019.00098>
205. Dolezal, P.; Furton, K. G.; Lnenickova, J.; Kyjakova, P.; Skerikova, V.; Valterova, I.; Pinc, L.; Urban, S. Multiplicity of Human Scent Signature. *Egypt. J. FORENSIC Sci.* 2019, 9. <https://doi.org/10.1186/s41935-019-0112-z>.
206. Jennifer L. Essler, Paige G. Smith, Danielle Berger, Elizabeth Gregorio, M. Ross Pennington, Amanda McGuire, Kenneth G. Furton and Cynthia M. Otto, A Randomized Cross-Over Trial Comparing the Effect of Intramuscular Versus Intranasal Naloxone Reversal of Intravenous Fentanyl on Odor Detection in Working Dogs, *Animals* 2019, 9, 385; doi:10.3390/ani9060385
207. Evans, J. R.; Compo, N. S.; Carol, R. N.; Nichols-Lopez, K.; Holness, H.; Furton, K. G. The Impact of Alcohol Intoxication on Witness Suggestibility Immediately and after a Delay. *Appl. Cogn. Psychol.* 2019, 33 (3, SI), 358–369. <https://doi.org/10.1002/acp.3502>
208. Lioupi, A.; Kabir, A.; Furton, K. G.; Samanidou, V. Fabric Phase Sorptive Extraction for the Isolation of Five Common Antidepressants from Human Urine Prior to HPLC-DAD Analysis. *J. Chromatogr. B-ANALYTICAL Technol. Biomed. LIFE Sci.* 2019, 1118, 171–179. <https://doi.org/10.1016/j.jchromb.2019.04.045>.
209. Marcello Locatelli, Kenneth G. Furton, Angela Tartaglia, Elena Sperandio, Halil I. Ulusoy, Abuzar Kabir, An FPSE-HPLC-PDA Method for rapid determination of solar UV filters in human whole blood, *Journal of Chromatography B*, Volumes 1118–1119, 15 June 2019, Pages 40-50
210. Angela Tartaglia, Abuzar Kabir, Songul Ulusoy, Halil I. Ulusoy, Giuseppe Maria Merone, Fabio Savini, Cristian D'Ovidio, Ugo de Grazia, Fabio Maroni, Pantaleone Bruni, Fausto Croce, Dora Melucci, Kenneth G. Furton, Marcello Locatelli, Novel MIPs-parabens based SPE stationary phases characterization and application, *Molecules* (submitted 24 July 2019)
211. Artem Rogachev, Irina Ilyina, Abuzar Kabir, Konstantin Volcho, Valentina Fadeeva, Andrey Pokrovsky, Nariman Salakhutdinov, Kenneth Furton, Comparison of dried matrix spots and fabric phase sorptive extraction methods for quantitation of highly potent analgesic activity agent (2R,4aR,7R,8aR)-4,7-dimethyl-2-(thiophen-2-yl)octahydro-2H-chromen-4-ol in rat whole blood and plasma using LC–MS/MS, *Journal of Chromatography B*, Volume 1132, 15 November 2019 (<https://doi.org/10.1016/j.jchromb.2019.121813>)
212. A. Kabir, M. Locatelli, H.I. Ulusoy, K.G. Furton, "Recent Advances in Sorbent Based On-Line Sample Preparation Techniques Hyphenated to Liquid Chromatography", *Current Analytical Chemistry*, 2019, I.F. 1.56.
213. Sumeyra Gulle, Halil Ibrahim Ulusoy, Abuzar Kabir, Angela Tartaglia, Kenneth G. Furton, Marcello Locatelli and Victoria F. Samanidou, Application of a fabric phase sorptive extraction high performance liquid chromatographyphotodiode array detection method for the trace determination of

- methyl paraben, propyl paraben and butyl paraben in cosmetic and environmental samples, *Anal. Methods*, 2019, 11, 6136, DOI: 10.1039/c9ay02260k
214. Maria Celeiro, Ruben Acerbi, Abuzar Kabir, Kenneth G. Furton, Maria Llompart, Development of an analytical methodology based on fabric phase sorptive extraction followed by gas chromatography-tandem mass spectrometry to determine UV filters in environmental and recreational waters, *Analytica Chimica Acta* X, 4 December 17, 2019 DOI <https://doi.org/10.1016/j.acax.2019.100038>
215. A. Kabir, K.G. Furton, "Forensic Sampling and Sample Preparation", In: *Forensic Chemical sensing and Detection*, 1st Edition, Edited by T.R.L.C. Paixão and W.K.T. Colrto, The Royal Society of Chemistry, London, UK, 2019.
216. A. Kabir, K.G. Furton, "Fabric Phase Sorptive Extraction", In: *Handbooks of Separation Science Series, Extraction: Solid-Phase Extraction*, Edited by C. Poole, Elsevier, Amsterdam, 2019.
217. A.V. Lastovka, A. D. Rogachev, I. V Il'ina, A. Kabir, K. P. Volcho, V. P. Fadeeva, A.G Pokrovsky, N.F. Salakhutdinov, K.G. Furton, "Comparison of dried matrix spots and fabric phase sorptive extraction methods for quantification of highly potent analgesic activity agent (2*R*,4*aR*,7*R*,8*aR*)- 4,7- dimethyl-2-(thiophen-2-yl)octahydro-2*H*-chromen-4-ol in rat whole blood and plasma using LC-MS/MS", *Journal of Chromatography B*, 2019, 1132, 121813 (<https://doi.org/10.1016/j.jchromb.2019.121813>, I.F. 3.205).
218. E. Zilfidou, A. Kabir, K.G. Furton, V. Samanidou, "An improved fabric phase sorptive extraction method for the determination of five selected antidepressant drug residues in human blood serum prior to high performance liquid chromatography with diode array detection", *Journal of Chromatography B*, 2019, 1125, 121720 (<https://doi.org/10.1016/j.jchromb.2019.121720>), I.F. 3.205.
219. A. Tartaglia, A. Kabir, S. Ulusoy, E. Sperandio, S. Piccolantonio, H.I. Ulusoy, K.G. Furton, M. Locatelli, "FPSE-HPLC-PDA analysis of seven paraben residues in human whole blood, plasma, and urine" *Journal of Chromatography B*, 2019, 1125, 121707 (<https://doi.org/10.1016/j.jchromb.2019.06.034>), I.F. 3.205.
220. V. Alampanos, A. Kabir, K.G. Furton, V. Samanidou, I. Papadoyannis, "Fabric phase sorptive extraction of four penicillin antibiotic residues from human blood serum prior to high performance liquid chromatography and photo-diode array detection", *Microchemical Journal*, 149, 2019, 103964 (<https://doi.org/10.1016/j.microc.2019.103964>), I.F. 4.821.
221. M. Otoukesh, M. Aznar, A. Kabir, K.G. Furton, Z. Es'haghi, C. Nerin, "Determination of adhesive acrylates in recycled polyethylene terephthalate by fabric phase sorptive extraction coupled to UPLC-MS", *Journal of Chromatography A*, 2019, 1602,56-63 (<https://doi.org/10.1016/j.chroma.2019.05.044>), I.F. 4.759.
222. A. Kabir, K. G. Furton, "Application of Gas Chromatography in Forensic Science", In: *Gas Chromatography*, 2nd Edition, Edited by Colin Poole, Elsevier, Amsterdam, 2020.
223. Maria Celeiro, Lua Vazquez, Piyaluk Nurerk, Abuzar Kabir, Kenneth G. Furton, Thierry Dagnac, Maria Llompart, Fabric phase sorptive extraction for the determination of 17 multiclass fungicides in environmental water by gas chromatography-tandem mass spectrometry, *Journal of Separation Science*, 1-13, January 14, 2020, DOI: 10.1002/jssc.201901232

224. J.C. Nadal, F. Borrull, K.G. Furton, A. Kabir, N. Fontanals, "Selective monitoring of acidic and basic compounds in environmental water by capsule phase microextraction using sol-gel mixed mode sorbents followed by liquid chromatography-mass spectrometry in tandem", *Journal of Chromatography A*, 1625 (2020) 461295 (<https://doi.org/10.1016/j.chroma.2020.461295>), I.F. 4.759.
225. N.P. Kalogiouri, A. Tsalbouris, A. Kabir, K.G. Furton, V.F. Samanidou, "Synthesis and application of molecularly imprinted polymers using sol-gel matrix imprinting technology for the efficient solid-phase extraction of BPA from water", *Microchemical Journal*, 157 (2020) 104965 (<https://doi.org/10.1016/j.microc.2020.104965>), I.F. 4.821.
226. A. Tartaglia, A. Kabir, F. D'Ambrosio, P. Ramundo, S. Ulusoy, H.I. Ulusoy, G.M. Merone, F. Savini, C.D. Ovidio, U. De Grazia, K.G. Furton, M. Locatelli, "Fast off-line FPSE-HPLC-PDA determination of six NSAIDs in saliva samples", *Journal of Chromatography B*, 1144 (2020) 122082 (<https://doi.org/10.1016/j.jchromb.2020.122082>), I.F. 3.205.
227. M. Locatelli, A. Tartaglia, F. D'Ambrosio, P. Ramundo, H.I. Ulusoy, K.G. Furton, A. Kabir, "Biofluid sampler: A new gateway for mail-in-analysis of whole blood samples", *Journal of Chromatography B*, 1174, 122055, 2020 (<https://doi.org/10.1016/j.jchromb.2020.122055>), I.F. 3.205.
228. I. Gazioglu, O.S. Zengin, A. Tartaglia, M. Locatelli, K.G. Furton, A. Kabir, "Determination of polycyclic aromatic hydrocarbons (PAHs) in nutritional supplements by fabric phase sorptive extraction (FPSE) with high-performance liquid chromatography (HPLC) with fluorescence detection", *Analytical Letters*, 2020 (<https://doi.org/10.1080/00032719.2020.1821209>), I.F. 2.329.
229. V. Alampanos, A. Kabir, K.G. Furton, Z. Roje, I.V. Vreck, V. Samanidou, "Fabric phase sorptive extraction combined with high-performance liquid chromatography-photodiode array analysis for the determination of seven parabens in human breast tissues: application to cancerous and non-cancerous samples", *Journal of Chromatography A*, 1630 (2020), 461530 (<https://doi.org/10.1016/j.chroma.2020.461530>), I.F. 4.759.
230. E. Agadellis, A. Tartaglia, M. Locatelli, A. Kabir, K.G. Furton, V. Samanidou, "Mixed mode fabric phase sorptive extraction of multiple tetracycline residues from milk samples prior to high performance liquid chromatography-ultraviolet analysis", *Microchemical Journal*, 159 (2020) 105437 (<https://doi.org/10.1016/j.microc.2020.105437>), I.F. 4.821
231. Ramandeep Kaur Heena Ripneel Kaur Aman Grover Susheela Rani Ashok Kumar Malik Abuzar Kabir Kenneth G. Furton, Trace determination of parabens in cosmetics and personal care products using fabric-phase sorptive extraction and high-performance liquid chromatography with UV detection, *Journal of Separation Science*, April 7, 2020, <https://doi.org/10.1002/jssc.201900978>
232. Joan Carles Nadal; Francesc Borrull; Kenneth G Furton; Abuzar Kabir; Rosa Maria Marcé, Selective monitoring of acidic and basic compounds in environmental water by capsule phase microextraction using sol-gel mixed-mode sorbents followed by LC-MS/MS, *Journal of Chromatography A*, submitted April 9, 2020
233. Natasa Kalogiouri, Abuzar Kabir, Athanasios Tsalbouris, Kenneth Furton, Synthesis and application of molecularly imprinted polymers using sol-gel matrix imprinting technology for the efficient solid-phase extraction of BPA from water, *Microchemical Journal*, submitted April 17, 2020

234. Georgios Rigkos, Vasileios Alampanos, Abuzar Kabir, Kenneth G. Furton, Zeljka Roje, Ivana Vinkovic Vrcek, Irene Panderi, Victoria Samanidou, An improved fabric-phase sorptive extraction protocol for the determination of seven parabens in human urine by HPLC–DAD, *Biomedical Chromatography*, Vol 35, Issue 2, August 25, 2020, <https://doi.org/10.1002/bmc.4974>
235. DeGreeff, L. E., Simon, A. G., Macias, M. S., Holness, H. K., Furton, K. G. Controlled Odor Mimic Permeation Systems for Olfactory Training and Field Testing., *J. Vis. Exp* (167), e60846, doi:10.3791/60846 (January 28, 2021). <https://www.jove.com/t/60846/controlled-odor-mimic-permeation-systems-for-olfactory-training-field>
236. Rayco Guedes-Alonso *, Zoraida Sosa-Ferrera, José J. Santana-Rodríguez, Abuzar Kabir, Kenneth G. Furton, Rapid determination of steroid hormone residues in commercial raw milk through fabric phase sorptive extraction followed by ultra-high performance liquid chromatography tandem mass spectrometry, *Food Analytical Methods* (In Press January 31, 2021)
237. Parla, A.; Zormpa, E.; Paloumpis, N.; Kabir, A.; Furton, K.G.; Roje, Ž.; Samanidou, V.; Vinković Vrček, I.; Panderi, I. Determination of Intact Parabens in the Human Plasma of Cancer and Non-Cancer Patients Using a Validated Fabric Phase Sorptive Extraction Reversed-Phase Liquid Chromatography Method with UV Detection. *Molecules* 2021, 26, 1526. <https://doi.org/10.3390/molecules26061526>
238. Stephanie R. Vaughan, Lauryn E. DeGreeff, Leann Forte, Howard K. Holness, Kenneth G. Furton, Identification of Volatile Components in the Headpace of Pharmaceutical-Grade Fentanyl, *Forensic Chemistry*, 2021, <https://doi.org/10.1016/j.forc.2021.100331>
239. Natasa P. Kalogiouri Agathi Pritsa Abuzar Kabir Kenneth G. Furton Victoria F. Samanidou, A green molecular imprinted solid-phase extraction protocol for bisphenol A monitoring with HPLC-UV to guarantee the quality and safety of walnuts under different storage conditions, *Journal of Separation Science*, January 2021, <https://doi.org/10.1002/jssc.202001199>
240. J. Mendel, K. Frank, L. Edlin, K. Hall, D. Webb, J. Mills, H.K. Holness, K.G. Furton, D. Mills, Preliminary accuracy of COVID-19 odor detection by canines and HS-SPMEGC-MS using exhaled breath samples, *Forensic Science International: Synergy* (2021), <https://doi.org/10.1016/j.fsisyn.2021.100155>
241. Natalia Manousi, Abuzar Kabir, Kenneth G Furton, George A Zachariadis, Aristidis Anthemidis, Multi-element analysis based on an automated on-line micro-column separation/preconcentration system using a novel sol-gel thiocyanatopropyl functionalized silica sorbent prior to ICP-AES for environmental water samples. *Molecules* 2021, 26(15), 4461; <https://doi.org/10.3390/molecules26154461>
242. Manousi, N.; Kabir, A.; Furton, K. G.; Rosenberg, E.; Zachariadis, G. A. Capsule Phase Microextraction of Selected Polycyclic Aromatic from Water Samples Prior to Their Determination by Gas-Mass Spectrometry. *MICROCHEMICAL JOURNAL* 2021, 166. <https://doi.org/10.1016/j.microc.2021.106210>.
243. Tartaglia, A.; Romasco, T.; D'Ovidio, C.; Rosato, E.; Ulusoy I, H.; Furton, K. G.; Kabir, A.; Locatelli, M. Determination of Phenolic Compounds in Human Saliva after Oral of Red Wine by High Performance Liquid Chromatography. *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS* 2022, 209. <https://doi.org/10.1016/j.jpba.2021.114486>.

244. Alampanos, V.; Kabir, A.; Furton, K. G.; Samanidou, V. Rapid Exposure Monitoring of Six Bisphenols and Diethylstilbestrol in human Urine Using Fabric Phase Sorptive Extraction Followed by High Liquid Chromatography-Photodiode Array Analysis. *JOURNAL OF Chromatogr. B* 2021, 1177. <https://doi.org/10.1016/j.jchromb.2021.122760>
245. V. Alampanos, A. Kabir, K.G. Furton, V. Samanidou, "Magnet Integrated Fabric Phase Sorptive Extraction of Selected Endocrine Disrupting Chemicals from Human Urine Followed by High-Performance Liquid Chromatography-Photodiode Array Analysis", *Journal of Chromatography A*, 1654 (2021) 462459 (<https://doi.org/10.1016/j.chroma.2021.462459>), I.F. 4.759.
246. N. Manousi, V. Alampanos, I. Priovolos, A. Kabir, K.G. Furton, E. Rosenberg, G.A. Zachariadis, V. Samanidou, "Designing a Moderately Hydrophobic Sol-gel Monolithic Carbowax 20M Sorbent for the Capsule Phase Microextraction of Triazine Herbicides from Water Samples Prior to HPLC Analysis", *Talanta* 234 (2021) 122710 (<https://doi.org/10.1016/j.talanta.2021.122710>). I.F. 6.057.
247. N. Manousi, A. Kabir, K.G. Furton, G. A. Zachariadis, Aristidis Anthemidis, "Automated solid phase extraction of Cd(II), Co(II), Cu(II) and Pb(II) coupled with flame atomic absorption spectrometry utilizing a new sol-gel functionalized silica sorbent", *Separations*, 2021, 8(7), 100 (<https://doi.org/10.3390/separations8070100>), I.F. 2.65.
248. N. Manousi, A. Kabir, K.G. Furton, G.A. Zachariadis, A. Anthemidis, "Multi-Element Analysis Based on an Automated On-Line Microcolumn Separation/Preconcentration System Using a Novel Sol-Gel Thiocyanatopropyl- Functionalized Silica Sorbent Prior to ICP-AES for Environmental Water Samples", *Molecules*, 2021, 26, 4461 (<https://doi.org/10.3390/molecules26154461>), I.F. 4.412.
249. K. Mazaraki, A. Kabir, K.G. Furton, K. Fytianos, V.F. Samanidou, C. K. Zacharis, "Fast fabric phase sorptive extraction of selected β -blockers from human serum and urine followed by UHPLC-ESI-MS/MS analysis", *Journal of Pharmaceutical and Biomedical Analysis*, 1999 (2021) 114053 (<https://doi.org/10.1016/j.jpba.2021.114053>), I.F. 3.209.
250. Y.K. Dolaksiz, M. Çelebier, A. Kabir, K.G. Furton, "Fabric phase sorptive extraction combined with high-performance liquid chromatography-photodiode array detection for determination of tazarotene in gel dosage forms", *Journal of Pharmaceutical and Biomedical Analysis*, 2021 (<https://doi.org/10.1016/j.jpba.2021.114075>). I.F. 3.935.
251. F.A. Casado-Carmona, G. Lasarte-Aragones, A. Kabir, K.G. Furton, R. Lucena, "Fan-based device for integrated air sampling and microextraction", *Talanta*, 2021, (<https://doi.org/10.1016/j.talanta.2021.122290>), I.F. 6.057.
252. N. Kalogiouri, A. Kabir, K.G. Furton, V. Samanidou, "A green molecular imprinted solid-phase extraction protocol for bisphenol A monitoring with HPLC-UV to guarantee the quality and safety of walnuts under different storage conditions", *Journal of Separation Science*, 2021, 1-8 (<https://doi.org/10.1002/jssc.202001199>), I.F. 3.645.
253. I. Gazioglu, A. Kabir, O.S. Zengin, E.K. Tekkeli, K.G. Furton, A. Tartaglia, M. Locatelli "Development of sol-gel phenyl/ methyl/poly (dimethylsiloxane) sorbent coating for fabric phase sorptive extraction and its application in monitoring human exposure to selected polycyclic aromatic hydrocarbons using high performance liquid chromatography fluorescence detection" *Journal of Chromatography B*, 2021, 1163, 122520 (<https://doi.org/10.1016/j.jchromb.2020.122520>), I.F. 3.205.
254. E. Lazaridou, A. Kabir, K.G. Furton, A. Anthemidis, "A novel glass fiber coated with sol-gel poly-diphenylsiloxane sorbent for the on-line determination of toxic metals using flow injection

- column preconcentration platform coupled with flame atomic absorption spectrometry”, *Molecules*, 2021, 26(1) 9 (<https://doi.org/10.3390/molecules26010009>), I.F. 4.412.
255. R. Guedes-Alonso, Z. Sosa-Ferrera, J.J. Santana-Rodriguez, A. Kabir, K.G. Furton, “Fabric Phase Sorptive Extraction of Selected Steroid Hormone Residues in Commercial Raw Milk Followed by Ultra-High-Performance Liquid Chromatography–Tandem Mass Spectrometry”, *Foods*, 2020, 10 (2) 343 (<https://doi.org/10.3390/foods10020343>), I.F. 3.167.
 256. A. Tsalbouris, N.P. Kalogiouri, A. Kabir, K.G. Furton, V.F. Samanidou, “Bisphenol A migration to alcoholic and non-alcoholic beverages-an improved molecular imprinted solid phase extraction method prior to detection with HPLC-DAD”, *Microchemical Journal*, 2021 (<https://doi.org/10.1016/j.microc.2020.105846>), I.F. 4.821.
 257. Kelvin J. Frank, Howard K. Holness, Kenneth G. Furton, and Lauryn E. DeGreeff, *Explosives detection by dogs Book Chapter in Counterterrorist Detection Techniques of Explosives 2nd Edition*, Edited by Avi Kagan and Jimmie C. Oxley, Elsevier Publishing 2022, ISBN 978-0-444-64104-5
 258. Cristian D’Ovidio, Martina Bonelli, Enrica Rosato , Angela Tartaglia, Halil ‘Ibrahim Ulusoy, Victoria Samanidou, Kenneth G. Furton, Abuzar Kabir, Imran Ali, Fabio Savini, Marcello Locatelli and Ugo de Grazia, *Novel Applications of Microextraction Techniques Focused on Biological and Forensic Analyses*, *Separations* 2022, 9, 18. <https://doi.org/10.3390/separations9010018>
 259. Vidia A. Gokool, Howard K. Holness, Kenneth G. Furton, *The Influence of Intra-Personal Variations in Human Hand Odor on The Determination of Sample Donor*, *Forensic Science International*, 2022, 111235, ISSN 0379-0738, <https://doi.org/10.1016/j.forsciint.2022.111235>
 260. Torki Zughaibi, Kenneth G. Furton, Howard Holness, Michelle R. Peace, *Measuring Odor Transport of Narcotic Substances using DART-AccuTOF*, *Forensic Sci.* 2022, 2(1), 262-271; <https://doi.org/10.3390/forensicsci2010020>
 261. A. Tartaglia, S. Covone, E. Rosato, M. Bonelli, F. Savini, K.G. Furton, I. Gazioglu, C. D’Ovidio, A. Kabir, M. Locatelli, *Fabric Phase Sorptive Extraction (FPSE) as an efficient sample preparation platform for the extraction of antidepressant drugs from biological fluids*, *Advances in Sample Preparation*, Vol 3, June 2022, <https://doi.org/10.1016/j.sampre.2022.100022>
 262. A. Ferracane, N. Manousi, A. Kabir, K.G. Furton, P.Q. Tranchida, G.A. Zachariadis, J. Plotka-Wasylika, L. Mondello, V.F. Samanidou, E. Rosenberg. *Monolithic capsule phase microextraction prior to gas chromatography-mass spectrometry for the determination of organochlorine pesticides in environmental water samples*. *Microchemical Journal*, Vol 186, 2023 (<https://doi.org/10.1016/j.microc.2022.108355>).
 263. A. Moral, F. Borrull, K.G. Furton, A. Kabir, R.M. Marce, N. Fontanals. *Extraction of selected benzothiazoles, benzotriazoles and benzenesulfonamides from environmental water samples using a home-made sol-gel silica based mixed mode zwitterionic sorbent modified with Graphene*. *Talanta*, Vol 256, 2023
 264. P. Stamou, A. Parla, A. Kabir, K.G. Furton, D. Gennimata, V. Samanidou, I. Panderi. *Hydrophilic interaction liquid Chromatography-electrospray ionization mass spectrometry combined with fabric phase sorptive extraction for therapeutic drug monitoring of pioglitazone, repaglinide and nateglinide in human plasma*. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2023 Feb 15;1217:123628. doi: 10.1016/j.jchromb.2023.123628.

265. N. Manousi, A. Korpeti, A. Kabir, K.G. Furton, C.K. Zacharis. Capsule Phase Microextraction Combined with Chemometrics for the HPLC Determination of amphotericin B in human serum, *Separations*, *Separations* 2022, 9 (12). <https://doi.org/10.3390/separations9120433>
266. E. Asimakopoulou, N. Manousi, N. Anaxagorou, A. Kabir, K.G. Furton, C.K. Zacharis. Fabric Phase sorptive extraction combined with HPLC-UV for the analysis of amphotericin B in human urine. *Chemosensors*, 2022 10 (12). <https://doi.org/10.3390/chemosensors10120537>
267. N. Manousi, A. Ferracane, A. Kabir, K.G. Furton, P.Q. Tranchida, G.A. Zachariadis, J. Plotka-Wasyłka, L. Mondello, V.F. Samanidou, E. Rosenberg. Green capsule phase microextraction employing hydrophobic monolithic sol-gel octadecyl siloxane platforms for the monitoring of organophosphorus pesticides in environmental water samples. *Sustainable Chemistry and Pharmacy*, 30 (2022) 100892, I.F. 5.464 (<https://doi.org/10.1016/j.scp.2022.100892>).
268. G. Tiris, I. Gazioglu, K.G. Furton, A. Kabir, M. Locatelli. Fabric phase sorptive extraction combined with high performance liquid chromatography for the determination of favipiravir in human plasma and breast milk. *Journal of Pharmaceutical and Biomedical Analysis*, 223 (2023) 115131, I.F. 3.571 (<https://doi.org/10.1016/j.jpba.2022.115131>).
269. V. Alampanos, A. Kabir, K.G. Furton, I. Panderi, V. Samanidou. Capsule phase microextraction of six bisphenols from human breast milk using a monolithic polyethylene glycol sorbent-based platform prior to high performance liquid chromatography-photo-diode array detection determination. *Journal of Chromatography A*, 2022, I.F. 4.759.
270. Locatelli, M.; Covone, S.; Rosato, E.; Bonelli, M.; Savini, F.; Furton, K. G.; Gazioglu, I.; D'Ovidio, C.; Kabir, A.; Tartaglia, A. Analysis of Seven Selected Antidepressant Drugs in Post-Mortem Samples Fabric Phase Sorptive Extraction Followed by High Performance Chromatography-Photodiode Array Detection. *FORENSIC CHEMISTRY* 2022, 31. <https://doi.org/10.1016/j.fore.2022.100460>
271. P. Mourouzis, E. Andreasidou, A. Arhakis, A. Kabir, K.G. Furton, V. Samanidou, K. Tolidis. Release of monomers in dental wastewater during treatment. . A comparative in Vitro and in Vivo Study Based on Fabric Phase Sorptive Extraction. *MICROCHEMICAL JOURNAL* 2022, 183. <https://doi.org/10.1016/j.microc.2022.107999>.
272. N. Manousi, A. Kabir, K.G. Furton, A. Anthemidis, “Dual lab-in-syringe flow-batch platform for automatic fabric disk sorptive extraction/back extraction as a front-end to inductively coupled plasma atomic emission spectrometry”, *Analytical Chemistry*, 2022, I.F. 6.986.
273. G. Mamounas, N. Manousi, A. Kabir, K.G. Furton, G.A. Mystridis, I.S. Vizirianakis, C.K. Zacharis, “Designing an “all-in-one” microextraction capsule device for the liquid chromatographic-fluorescencedetermination of doxorubicin and its metabolites 2in rat plasma”, *Journal of Chromatography A*, 2022, I.F. 4.759.
274. N. Manousi, A. Ferracane, A. Kabir, K.G. Furton, P.Q. Tranchida, G.A. Zachariadis, L. Mondello, E. Rosenberg, V.F. Samanidou, “A monolithic capsule phase microextraction method combined with HPLC-DAD for the monitoring of benzoyl urea insecticides in Apple juice samples”, *Microchemical Journal*, 2022, I.F. 4.821.
275. N. Manousi, A. Kabir, K.G. Furton, M. Stathogiannopoulou, E. Drosaki, A. Anthemidis, “An automatic on-line sol-gel pyridylethylthiopropyl functionalized silica-based sorbent extraction system Coupled to flame atomic absorption spectrometry for the determination of nutrient and toxic elements in beer samples”, *Food Chemistry*, 394 (2022) 133548, I.F. 7.514 (<https://doi.org/10.1016/j.foodchem.2022.133548>).
276. N.P. Kalogiouri, N. Ampatzi, A. Kabir, K.G. Furton, V.F. Samanidou, “Development of a capsule phase microextraction methodology for the selective determination of coumarin in foodstuff analyzed

- by HPLC-DAD”, *Advances in Sample Preparation*, 3 (2022) 100026 (<https://doi.org/10.1016/j.sampre.2022.100026>).
277. A. Moral, F. Borrul, K.G. Furton, A. Kabir, N. Fontanals, R.M. Marce, “Development of sol-gel silica-based mixed-mode zwitterionic Sorbents for determining drugs in environmental samples”, *Journal of Chromatography A* 1667 (2022) 463237 (<https://doi.org/10.1016/j.chroma.2022.463237>), 2022, I.F. 4.759.
278. N. Manousi, A. Kabir, K.G. Furton, P. D. Tzanavaras, C.K. Zacharis, “In situ synthesis of monolithic sol-gel polyethylene glycol-based sorbent encapsulated in porous polypropylene microextraction capsules and its application for selective extraction of antifungal and anthelmintic drugs from human urine” *Microchemical Journal*, 180 (2022) 107594 (<https://doi.org/10.1016/j.microc.2022.107594>), I.F. 4.821.
279. N. Manousi, A. Kabir, K.G. Furton, G.A. Zachariadis, E. Rosenberg, “Expanding the applicability of magnet integrated fabric phase sorptive extraction in food analysis: Extraction of triazine herbicides from herbal infusion samples”, *Microchemical Journal*, 179 (2022) 107524 (<https://doi.org/10.1016/j.microc.2022.107524>), I. F. 4.821.
280. Manousi, N.; Kabir, A.; Furton, K. G.; Rosenberg, E.; Zachariadis, G. A. Fabric Phase Sorptive Extraction Combined with Gas Chromatography-Mass as an Innovative Analytical Technique for the determination of Selected Polycyclic Aromatic Hydrocarbons in Herbal Infusions and Tea. *RSC Adv* 2022, 12 (12), 7149–7156. <https://doi.org/10.1039/d2ra00408a>.
281. N. Manousi, V. Alampanos, A. Ferracane, G. Efstratiadis, A. Kabir, K.G. Furton, P.Q. Tranchida, G. A. Zachariadis, L. Mondello, E. Rosenberg, V. Samanidou, “Magnet integrated fabric phase sorptive extraction as a stand-alone extraction device for the monitoring of benzoyl urea insecticides in water samples by HPLC-DAD”, *Journal of Chromatography A* 1672 (2022) 463026 (<https://doi.org/10.1016/j.chroma.2022.463026>), I.F. 4.759.
282. G. Sidiropoulou, A. Kabir, K.G. Furton, F.S. Kika, K. Fytianos, P.D. Tzanavaras, C.K. Zacharis, “Combination of fabric phase sorptive extraction with UHPLC-ESI-MS/MS for the determination of adamantane analogues in human urine”, *Microchemical Journal*, 176 (2022) 107250 (<https://doi.org/10.1016/j.microc.2022.107250>), I.F. 4.821.
283. N.P. Kalogiouri, A. Kabir, B. Olayanju, K.G. Furton, V.F. Samanidou, “Development of highly hydrophobic fabric phase sorptive extraction membranes and exploring their applications for the rapid determination of tocopherols in edible oils analyzed by high pressure liquid chromatography-diode array detection”, *Journal of Chromatography A*, 1664 (2022) 462785 (<https://doi.org/10.1016/j.chroma.2021.462785>)
284. N. Manousi, V. Alampanos, I. Priovolos, A. Kabir, K.G. Furton, E. Rosenberg, G.A. Zachariadis, V.F. Samanidou, “Exploring sol-gel zwitterionic fabric phase sorptive extraction sorbent as a new multi-mode platform for the extraction and preconcentration of triazine herbicides from juice samples”, *Food Chemistry*, 373 (2022) 131517 (<https://doi.org/10.1016/j.foodchem.2021.131517>)
285. E. Andreasidou, P. Mourouzis, L. Daktylidi, A. Kabir, K. G. Furton, V. Samanidou, “A fabric phase sorptive extraction method for the HPLC-UV determination of bisphenol A and leaching monomers from dental materials in human saliva”, *Journal of Chromatography B*, 1188 (2022) 123073 (<https://doi.org/10.1016/j.jchromb.2021.123073>)
286. S. Santana-Viera, A. Canino-Byreing, M. E. Torres-Padron, Z. Sosa-Ferrera, J. J. Santana-Rodriguez, A. Kabir, K.G. Furton, “Fabric Phase Sorptive Extraction for the Determination of Anthracyclines in Sewage”, *Separations*, 9(3) 69, 2022 (<https://doi.org/10.3390/separations9030069>)

287. N. Manousi, A. Kabir, K. G. Furton, V.F. Samanidou, C.K. Zacharis, "Exploiting the capsule phase microextraction features in bioanalysis: extraction of ibuprofen from urine samples", *Microchemical Journal*, 172 (2022) 106934 (<https://doi.org/10.1016/j.microc.2021.106934>)
288. A. M. Ares-Fuentes, R.A. Lorenzo, P. Fernandez, A.M. Fernandez, K.G. Furton, A. Kabir, A.M. Caro, "Determination of synthetic opioids in oral fluid samples using fabric phase sorptive extraction and gas chromatography-mass spectrometry, *Journal of Chromatography A*, 1663 (2022) 462768 (<https://doi.org/10.1016/j.chroma.2021.462768>), I.F. 4.759.
289. A. Kabir, K.G. Furton, "Fabric Phase Sorptive Extraction: Unifying Solid Phase Microextraction and Solid Phase Microextraction by Design," in *Evolution of Solid Phase Microextraction Technology*, Edited by Janusz Pawliszyn, Royal Society of Chemistry (RSC), 2023.
290. A.C. Fulton, L. Forte, S.R. Vaughan, H.K. Holness, K.G. Furton and L.E. DeGreeff, Investigation of the volatile organic compounds from trace fentanyl powder via passive degradation, *Forensic Chemistry*, October 10, 2022, 31. <https://doi.org/10.1016/j.forc.2022.100456>
291. Vidia A. Gokool, Janet Crespo-Cajigas, Amritha Mallikarjun, Amanda Collins, Sarah Kane, Victoria Plymouth, Elizabeth Nguyen, Benjamin S. Abella, Howard K. Holness, Kenneth G. Furton, A.T. Charlie Johnson, and Cynthia Otto, The Use of Biological Sensors and Instrumental Analysis to Discriminate COVID-19 Odor Signatures, *Biosensors*, 2022, 12 (11). <https://doi.org/10.3390/bios12111003>.
292. A. Kabir, B. Olayanju, K.G. Furton, Fabric phase sorptive extraction: unifying solid phase microextraction and solid phase extraction by design. In *Evolution of solid phase microextraction technology*, Edited by Janusz Pawliszyn, Royal Society of Chemistry, 2023.
293. Janet Crespo-Cajigas, Vidia A. Gokool, Andrea Ramirez-Torres, Liam Forsythe, Benjamin S. Abella, Howard K. Holness, Alan T. Charlie Johnson, and Kenneth G. Furton, Investigating The Use Of COVID-19 Odor Expression As A Non-Invasive Diagnostic Tool, *Diagnostics*, **2023**, 13 (4). <https://doi.org/10.3390/diagnostics13040707>.
294. Chantrell J.G. Frazier, Vidia A. Gokool, Howard K. Holness, DeEtta K. Mills, Kenneth G. Furton, Multivariate Regression Modelling for Gender Prediction Using Volatile Organic Compounds from Hand Odor Profiles via HS-SPME-GCMS, *PLOS ONE*, July 5, 2023.
295. Cristian D'Ovidio, Marcello Locatelli *, Miryam Perrucci, Luigi Ciriolo, Kenneth G. Furton, Işıl Gazioglu, Abuzar Kabir, Giuseppe Maria Merone, Ugo De Grazia, Imran Ali, Antoio Maria Catena, Michele Treglia, Luigi Tonino Marsella, Fabio Savini, LC-MS/MS Application in Pharmacotoxicological Field: Current State and New Applications. *MOLECULES* **2023**, 28 (5). <https://doi.org/10.3390/molecules28052127>
296. Manousi, N.; Kabir, A.; Furton, K. G.; Anthemidis, A. Sol-Gel Graphene Oxide-Coated Fabric Disks as Sorbents for the Automatic-Injection Column Preconcentration for Toxic Metal in Distilled Spirit Drinks. *MOLECULES* 2023, 28 (5). <https://doi.org/10.3390/molecules28052103>
297. G. Antoniou, V. Alampanos, A. Kabir, T. Zughaibi, K.G. Furton, V. Samanidou, Magnet Integrated Fabric Phase Sorptive Extraction for the Extraction of Resin Monomers from Human Urine Prior to HPLC Analysis, *Separations* 10(4) (2023) 235.
298. A. Ferracane, N. Manousi, A. Kabir, K.G. Furton, A. Mondello, P.Q. Tranchida, G.A. Zachariadis, V.F. Samanidou, L. Mondello, E. Rosenberg, Dual sorbent coating based magnet-integrated fabric phase sorptive extraction as a front-end to gas chromatography–mass spectrometry for multi-

- class pesticide determination in water samples, *Science of The Total Environment* (2023) 167353.
299. A. Ferracane, N. Manousi, A. Kabir, K.G. Furton, P.Q. Tranchida, G.A. Zachariadis, J. Plotka-Wasyłka, L. Mondello, V.F. Samanidou, E. Rosenberg, Monolithic capsule phase microextraction prior to gas chromatography-mass spectrometry for the determination of organochlorine pesticides in environmental water samples, *Microchemical Journal* 186 (2023) 108355.
300. A. Kechagia, N. Manousi, A. Kabir, K.G. Furton, C.K. Zacharis, Fabricating a designer capsule phase microextraction platform based on sol-gel Carbowax 20M-zwitterionic ionic liquid composite sorbent for the extraction of lipid-lowering drugs from human urine samples, *Microchimica Acta* 190(11) (2023) 428.
301. A. Korpeti, N. Manousi, A. Kabir, K.G. Furton, P.D. Tzanavaras, C.K. Zacharis, Investigating the applicability of polar fabric phase sorptive extraction for the HPLC quantitation of salivary vitamin B12 following administration of sublingual tablets and oral sprays, *Talanta* 258 (2023) 124482.
302. N. Manousi, A. Ferracane, N.P. Kalogiouri, A. Kabir, K.G. Furton, P.Q. Tranchida, G.A. Zachariadis, L. Mondello, V.F. Samanidou, E. Rosenberg, Design and development of second-generation fabric phase sorptive extraction membranes: Proof-of-concept for the extraction of organophosphorus pesticides from apple juice prior to GC-MS analysis, *Food Chemistry* 424 (2023) 136423.
303. N. Manousi, I. Priovolos, A. Kabir, K.G. Furton, V.F. Samanidou, A. Anthemidis, An integrated automatic lab-in-syringe sol-gel coated foam microextraction platform as a front-end to high performance liquid chromatography for the migration studies of bisphenol A, *Analytica Chimica Acta* 1268 (2023) 341400.
304. A. Moral, F. Borrull, K.G. Furton, A. Kabir, R.M. Marcé, N. Fontanals, Extraction of selected benzothiazoles, benzotriazoles and benzenesulfonamides from environmental water samples using a home-made sol-gel silica-based mixed-mode zwitterionic sorbent modified with graphene, *Talanta* 256 (2023) 124315.
305. A. Moral, P. Clivillé-Cabré, F. Borrull, K.G. Furton, A. Kabir, R.M. Marcé, N. Fontanals, Application of a homemade silica-based mixed-mode ion-exchange sorbent for the determination of drugs in environmental water samples, *Advances in Sample Preparation* 7 (2023) 100074.
306. C. Nikolaou, N.P. Kalogiouri, P. Mourouzis, A. Kabir, K. Furton, V.F. Samanidou, Fabric phase sorptive extraction of monomers released from dental resins in alcoholic beverages prior to their HPLC-UV determination, *Microchemical Journal* 191 (2023) 108802.
307. K. Papadouli, M. Ntorkou, N. Manousi, A. Kabir, K.G. Furton, C.K. Zacharis, Poly (tetrahydrofuran)- based fabric phase sorptive extraction combined with HPLC-UV for the determination of antihistamines in human urine, *Microchemical Journal* (2023) 108951.
308. P. Stamou, A. Parla, A. Kabir, K.G. Furton, D. Gennimata, V. Samanidou, I. Panderi, Hydrophilic interaction liquid chromatography-electrospray ionization mass spectrometry combined with fabric phase sorptive extraction for therapeutic drug monitoring of pioglitazone, repaglinide, and nateglinide in human plasma, *Journal of Chromatography B* 1217 (2023) 123628.

309. G. Tiris, I. Gazioglu, K.G. Furton, A. Kabir, M. Locatelli, Fabric phase sorptive extraction combined with high performance liquid chromatography for the determination of favipiravir in human plasma and breast milk, *Journal of Pharmaceutical and Biomedical Analysis* 223 (2023) 115131
310. VA Gokool, J. Crespo-Cajigas, A Ramírez Torres, L Forsythe, BS Abella, HK Holness, AT Charlie Johnson, R Postrel, KG Furton, Predicting SARS-CoV-2 Variant Using Non-Invasive Hand Odor Analysis: A Pilot Study, *Analytica* 4 (2), 206-216, 2023. IF=4.0.
311. P. Kubica, N.P. Kalogiouri, A. Kabir, K.G. Furton, V.F. Samanidou, Optimization of a Fabric Phase Sorptive Extraction protocol for the isolation of six bisphenols from juice pouches to be analysed by high performance liquid chromatography coupled with diode array detector, *Journal of Chromatography A* 1708 (2023) 464366. IF=4.1
312. B. Olayanju, A. Kabir, K.G. Furton, Development of a universal sol-gel sorbent for fabric phase sorptive extraction and its application in tandem with high performance liquid chromatography-ultraviolet detection for the analysis of phthalates in environmental and drinking water samples, *Microchemical Journal* 196 (2024) 109619. IF=4.8.
313. B. Olayanju, A. Kabir, N. Manousi, K.G. Furton, Application of sol-gel universal sorbent coated fabric phase sorptive extraction membranes in combination with high-performance liquid chromatography-ultraviolet detection to monitor endocrine-disrupting chemicals in milk and environmental water samples, *Sep. Sci. Plus* (2024) 2300101. IF=3.7.
314. A. Castiñeira-Landeira, L. Vazquez, A.M. Carro, M. Celeiro, A. Kabir, K.G. Furton, T. Dagnac, M. Llompard, Fabric phase sorptive extraction as a sustainable sample preparation procedure to determine synthetic musks in water, *Microchemical Journal* 196 (2024) 109542. IF=4.8
315. MN Maughan, JD Gadberry, CE Sharpes, PE Buckley, AE Miklos, KG Furton, LE DeGreeff, NJ Hall, RR Greubel, KB Sloan, Calibrating canines—a universal detector calibrant for detection dogs, *Frontiers in Allergy* 5, 1366596 2024 IF=2.4
316. JC Cajigas, VA Gokool, HK Holness, KG Furton, LE DeGreeff, Method Development for an Untargeted HS-SPME-GC-MS Analysis of Terpenes and Cannabinoids for the Geographical Sourcing of Marijuana, *Talanta Open*, 100300, 2024. IF=6.1
317. Y. Ekin Dolaksız, M.S. Kaynak, A. Kabir, K.G. Furton, M. Çelebier, Adapting Fabric Phase Sorptive Extraction as an Innovative Multitool for Sample Transfer and Extraction in Pharmacokinetic Analysis Followed by LC-MS Determination of Levofloxacin in Plasma Samples, *ACS Omega* (2024). IF=4.1
318. A. Ferracane, N. Manousi, A. Kabir, K.G. Furton, A. Mondello, P.Q. Tranchida, G.A. Zachariadis, V.F. Samanidou, L. Mondello, E. Rosenberg, Dual sorbent coating based magnet-integrated fabric phase sorptive extraction as a front-end to gas chromatography-mass spectrometry for multi-class pesticide determination in water samples, *Science of The Total Environment* 906 (2024) 167353. IF=10.8
319. A. Moral, F. Borrull, K.G. Furton, A. Kabir, N. Fontanals, R.M. Marcé, Selective determination of 2-aminobenzothiazole in environmental water and organic extracts from fish and dust samples, *Analytical and Bioanalytical Chemistry* 416(2) (2024) 439-448. IF=4.5

320. M. Ntorkou, A. Kabir, K.G. Furton, P.D. Tzanavaras, C.K. Zacharis, Sol-gel Carbowax 20M-zwitterionic ionic liquid composite sorbent-based capsule phase microextraction device combined with HPLC/post-column derivatization for the determination of lanreotide, a human somatostatin analogue in urine, *Journal of Chromatography A* 1717 (2024) 464674. IF=4.1
321. A. Tartaglia, S. Covone, E. Rosato, M. Bonelli, F. Savini, K. Furton, I. Gazioglu, C. D'Ovidio, A. Kabir, M. Locatelli, Corrigendum to "Fabric Phase Sorptive Extraction (FPSE) as an efficient sample preparation platform for the extraction of antidepressant drugs from biological fluids"[*Advances in Sample Preparation*, Volume 3, August 2022, 100022, *Advances in Sample Preparation* 9 (2024). IF=4.0
322. Janet Crespo Cajigas, Vidia A. Gokool ¹, Howard K. Holness, Kenneth G. Furton, Lauryn, E. DeGreeff, Method development for an untargeted HS-SPME-GC-MS analysis of terpenes and cannabinoids for the geographical sourcing of Marijuana, *Talanta Open*, Volume 9, August 2024, <https://doi.org/10.1016/j.talo.2024.100300>
323. V. A Gokool, M. Karpinsky, K. G Furton, L E DeGreeff, Proof-of-concept chemometric approach for environmental forensic sourcing of crude oil samples using SPME-GC-MS, *Talanta* 285 (2025), 127381 (IF=6.1)
324. E. Calabrese, S. Alexis, K.G Furton and L.E. DeGreeff, Impact on the vapor availability of contained explosives and drugs, *Propellants, Explos., Pyrotech.* 50 (2025), 1-11 IF=2.1
325. G.N. Tsompanopoulou, A. Kabir, K.G. Furton, N.P. Kalogiouri, V.F. Samanidou, Magnetic integrated fabric phase sorptive extraction (MI-FPSE) for the selective isolation of seven sulfonamides from human urine prior to HPLC-DAD analysis, *Microchemical Journal*, 206 (2024) 111552 IF=4.9
326. M. Karpinsky, D. Lopez, E. Campues, P. Bunker, S.R. Vaughan, H.K. Holness, K.G. Furton, L.E. DeGreeff, Exploring canine olfactory generalization using odor profile fractions from native crude oils, *Plos One* 19(10) e0311818. IF=2.9
327. P. Pingou, A. Parla, A. Kabir, K.G. Furton, V. Samanidou, S. Papageorgiou, E. Tsirivas, A. Varvaresou, I. Panderi, Quantitation of Copper Tripeptide in Cosmetics via Fabric Phase Sorptive Extraction Combined with Zwitterionic Hydrophilic Interaction Liquid Chromatography and UV/V is Detection, *Separations* 11(10) (2024) 293. IF=2.8
328. J. Crespo-Cajigas, A. Kabir, J. Carrasco, A. Shahid, K.G. Furton, L.E. DeGreeff, Correction: Crespo-Cajigas et al. Development of a Paper-Based Sol-Gel Vapochromic Sensor for the Detection of Vapor Cross-Contamination within a Closed Container. *Analytica* 2024, 5, 295–310, *Analytica* 5(3) (2024) 430-430. IF=1.8
329. N. Manousi, A. Kabir, K.G. Furton, C.K. Zacharis, Ionic-liquid/Carbowax 20 M functionalized capsule phase microextraction platform for the extraction of phosphodiesterase-5 inhibitors from human serum and urine prior to their determination by LC-MS, *Journal of Chromatography A*, 1730 (2024) 465157. IF=3.8
330. Y. Ekin Dolaksız, M.S. Kaynak, A. Kabir, K.G. Furton, M. Çelebier, Adapting Fabric Phase Sorptive Extraction as an Innovative Multitool for Sample Transfer and Extraction in Pharmacokinetic Analysis Followed by LC-MS Determination of Levofloxacin in Plasma Samples, *ACS Omega* (2024). IF=4.1
331. Kenneth G. Furton, Max M. Houck, Jeff Teitelbaum, Kevin Lothridge and S.S. Iyengar, "From Forensic Intelligence to Artificial Intelligence: A Review of Information Models in Forensic Science" *Proceedings of Artificial Intelligence Driven Forensics* April 28, 2025, *Proceedings of AI-Enabled Forensic Investigations Network in Digital Sciences*, Springer

332. Kenneth G. Furton, S.S. Iyengar, Yashas Hariprasad, Himali Upadhayay, Rodolfo Mesa Martin, Amy L Roda, "Sniffing Out Snails: Artificial Intelligence Powered Canine Forensics of Invasive Species – A Preliminary Study", Proceedings of *Artificial Intelligence Driven Forensics* April 28, 2025, Proceedings of AI-Enabled Forensic Investigations Network in Digital Sciences, Springer

PAPERS/PRESENTATIONS AT MEETINGS/CONFERENCES

1. S.C. Dhanesar, K.G. Furton, M.E. Coddens, and C.F. Poole, Organic Molten Salt Phases for Gas Chromatography, 36th Pittsburgh Conference and Exposition, New Orleans, Louisiana, February 25 - March 1, 1985.
2. K.G. Furton, M.E. Coddens, S.C. Dhanesar, S.J. Ho, and C.F. Poole, Chromatographic Properties of Organic Molten Salts, 21st International Symposium - Advances in Chromatography, Oslo, Norway, June 3 - 6, 1985.
3. C.F. Poole, B.R. Kersten, S.J. Ho, M.E. Coddens, and K.G. Furton, Solvent Properties of Liquid Organic Molten Salts, 9th International Symposium on Column Liquid Chromatography, Edinburgh, Scotland, July 1 - 5, 1985.
4. K.G. Furton and C.F. Poole, Organic Molten Salt Phases for G.C., 1985 Anachem Symposium, Plymouth, Michigan, October 24, 1985.
5. K.G. Furton and C.F. Poole, The Stationary Phase Properties of Tetra-n-butylammonium Salts in Gas Chromatography, 37th Pittsburgh Conference and Exposition, Atlantic City, New Jersey, March 10 - 14, 1986.
6. K.G. Furton and C.F. Poole, Liquid Organic Salts as Selective Stationary Phases for Gas Chromatography, 18th American Chemical Society Regional Meeting, Bowling Green, Ohio, June 1 - 5, 1986.
7. C.F. Poole, B.R. Kersten, and K.G. Furton, Factors Affecting the Determination of the Selectivity of Polar Stationary Phases for Gas Chromatography, 22nd International Symposium - Advances in Chromatography, Houston, Texas, September 15 - 18, 1986.
8. K.G. Furton and C.F. Poole, Factors Governing the Retention of Solutes on Liquid Organic Salt Phases in Gas Chromatography, 22nd International Symposium - Advances in Chromatography, Houston, Texas, September 15 - 18, 1986.
9. K.G. Furton and C.F. Poole, Retention Mechanisms of Liquid Organic Salt Phases Used in Gas Chromatography, Federation of Analytical Chemistry and Spectroscopy Societies, XIII, St. Louis, Missouri, September 28 - October 3, 1986.
10. C.F. Poole, K.G. Furton, and B.R. Kersten, Liquid Organic Salt Phases for Gas Chromatography, Federation of Analytical Chemistry and Spectroscopy Societies, XII, St. Louis, Missouri, September 28 - October 3, 1986.
11. C.F. Poole, B.R. Kersten, and K.G. Furton, Determination of the Selectivity of Polar Phases, 1986 Anachem Symposium, Plymouth, Michigan, October 28, 1986.
12. K.G. Furton and C.F. Poole, Evaluation of Polarity and Selectivity of Liquid Organic Salt Phases in Gas Chromatography by Thermodynamic Quantities, 1986 Anachem Symposium, Plymouth, Michigan, October 28, 1986.

13. K.G. Furton and C.F. Poole, Comparison of the Intermolecular Interactions in LOS and Non-Ionic Liquids by GLC Physicochemical Measurements, 24th International Symposium - Advances in Chromatography, Berlin, West Germany, September 8 - 10, 1987.
14. K.G. Furton, J. H. Purnell, and G. Stedman, Gas Chromatographic Study of the Complexation of Hydrogen Chloride With Tributyl Phosphate in Organic Solvents, 25th Anniversary Analytical Chemistry Research and Development Topics Meeting - Royal Society of Chemistry, Plymouth, United Kingdom, July 18 - 19, 1988.
15. K.G. Furton, J.H. Purnell, and G. Stedman, Chromatographic Investigation of the Solution Properties of Hydracids in Tributyl Phosphate/Hydrocarbon/Aqueous Systems, 25th International Symposium - Advances in Chromatography, Minneapolis, Minnesota, August 29 - September 1, 1988.
16. K.G. Furton, J. H. Purnell, and G. Stedman, Thermodynamics of Hydracid Complexation Studied by Gas Chromatography, 198th ACS National Meeting, Miami, Florida, September 10-15, 1989.
17. K.G. Furton and R. Morales, Anion and Cation Effects on the Polarity and Selectivity of Liquid Organic Salt Stationary Phases Used in Gas Chromatography, 198th ACS National Meeting, Miami, Florida, September 10-15, 1989.
18. K.G. Furton and R. Morales, The Stationary Phase Properties of Liquid Tetra-n-butylammonium Alkyl and Aryl Sulfonate Salts Used in Gas Chromatography, 16th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies, Chicago, Illinois, October 1 - 6, 1989.
19. A. Mantilla and K.G. Furton, Evaluation of Laundry Detergents Containing Anionic Surfactants as Column Packings in Gas Chromatography, 1990 Society for the Advancement of Chicanos and Native Americans in Science Conference, Tempe, Arizona, January 5 - 7, 1990.
20. K.G. Furton and J. Rein, Study of Microextractor Designs and Optimization for Use in Analytical Supercritical Fluid Extraction of Environmentally Important Compounds, 200th ACS National Meeting, Washington, D.C., August 26 - 31, 1990.
21. K.G. Furton and R. Morales, Gas Chromatographic Physicochemical Measurements and Practical Applications of Liquid Tetra-n-butylammonium n-alkyl Sulfonate Salts, 200th ACS National Meeting, Washington, D.C., August 26 - 31, 1990.
22. M.I. Perez and K. G. Furton, Polarity and Selectivity of Ionic Gas Chromatographic Stationary Phases: Comparison of Anionic Detergents to Conventional Molecular Liquids, SACNAS Conference, Costa Mesa, California, January 4 - 7, 1991, Young Scholars Poster 4.
23. K. Mopper and K.G. Furton, Extraction and Analysis of Polysaccharides, Chiral Amino Acids, and SFE-extractable Lipids from Marine POM, FRECLES Workshop on "The Analysis and Characterization of Marine Particles", East-West Center, Honolulu, Hawaii, January 20-26, 1991.
24. K.G. Furton, C. Blanco and R. Morales, Effect of Anion Chain Length on the Thermodynamics of Solute-Solvent Interactions in Liquid Organic Salts Studied by Gas Chromatography, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Chicago, Illinois, March 4-8, 1991.

25. K.G. Furton, C. Cork and J. Rein, Factors Governing the Supercritical Fluid Extraction Efficiencies of Polycyclic Aromatic Hydrocarbons in Combination with Gas, Liquid, and Supercritical Fluid Chromatography, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Chicago, Illinois, March 4-8, 1991.
26. J. Rein and K.G. Furton, The Quantitative Effect of Microextractor Cell Geometry on the Supercritical Fluid Extraction Efficiencies of Environmentally Important Compounds, 201st ACS National Meeting, Atlanta, Georgia, April 14-19, 1991, ACS Sci-Mix.
27. K.G. Furton and J. Rein, Factors Governing the Supercritical Fluid Extraction Efficiencies of Polycyclic Aromatic Hydrocarbons and Correlations with Supercritical Fluid Chromatographic Data, 201st ACS National Meeting, Atlanta, Georgia, April 14-19, 1991, Invited Paper for ACS Symposium Series 'Supercritical Fluid Technology'.
28. J. Rein and K.G. Furton, The Quantitative Effect of Microextractor Cell Geometry on the Supercritical Fluid Extraction Efficiencies of Environmentally Important Compounds, 201st ACS National Meeting, Atlanta, Georgia, April 14-19, 1991, Environmental Chemistry Division.
29. K.G. Furton and J. Rein, The Relative Effect of Experimental Variables on the Supercritical Fluid Extraction of Polycyclic Aromatic Hydrocarbons from Octadecyl Sorbents, 1991 Annual Meeting of the Florida Section of the American Chemical Society, Tampa, Florida, May 15-17, 1991, Session 9: Environmental Chemistry; paper No. 96.
30. K.G. Furton, E. Jolly, Q. Lin, and J. Rein, The Quantitative Effect of Experimental Variables on the Supercritical Fluid Extraction of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls from Model Sorbents and Environmental Solids, 2nd Pan American Chemical Congress, San Juan, Puerto Rico, September 24-29, 1991.
31. A. Norelus and K. G. Furton, A Novel Colorimetric Method for Determining the Critical Micelle Concentration of Aqueous Surfactant Solutions, SACNAS Conference, San Antonio, Texas, January 2 - 4, 1992.
32. K.G. Furton, Raul Morales and A. Calvo, Anomalous Selectivity Variation when Employing the Rohrschneider/McReynolds System to Characterize Liquid Organic Salt Stationary Phases, 1992 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, New Orleans, Louisiana, March 9-13, 1992.
33. K.G. Furton, E. Jolly, Q. Lin, and J. Rein, The Relative Effects of Temperature, Density, and Cell Dimensions on the Supercritical Fluid Extraction Efficiencies of Analytes from Model Sorbents and Environmental Solids, 1992 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, New Orleans, Louisiana, March 9-13, 1992.
34. K.G. Furton, and A. Norelus, An Accurate, Straightforward Visualization Technique for Determining Critical Micelle Concentrations, 204th ACS National Meeting, San Francisco, California, April 5 - 10, 1992.
35. K.G. Furton, E. Jolly, and J. Rein, Selective Elution of Analytes from Solid Phase Extraction Sorbents using Supercritical Fluids, 204th ACS National Meeting, San Francisco, California, April 5 - 10, 1992, Invited Paper for symposium entitled 'Solid Phase Extraction in Environmental and Clinical Chemistry'.

36. K.G. Furton, E. Jolly, and Q. Lin, Variables Affecting the Analytical-Scale Supercritical Fluid Extraction Efficiencies of Environmentally Important Compounds, 1992 Annual Meeting - Florida Sections - American Chemical Society, Cocoa Beach, Florida, April 30 - May 2, 1992.
37. A. Norelus and K.G. Furton, The Gas-Liquid Chromatographic Stationary Phase Properties of Commercial Detergent Powders used as Column Packings, 1993 Society for the Advancement of Chicanos and Native Americans in Science Conference, Albuquerque, New Mexico, January 14 - 18, 1993.
38. C. Ferro Hernandez and K.G. Furton, Comparison of the Physical Properties and Efficacy of Regular and "Ultra" Laundry Detergent Powders, 1993 Society for the Advancement of Chicanos and Native Americans in Science Conference, Albuquerque, New Mexico, January 14 - 18, 1993.
39. E. Jolly, J. Rein and K.G. Furton, The Supercritical Fluid Extraction of Drugs of Abuse from Octadecylsilane Solid Phase Sorbents, 1993 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, Georgia, March 8-12, 1993.
40. K.G. Furton, B. Glickman, C.F. Hernandez, and A. Norelus, The Gas-Liquid Chromatographic Stationary Phase Properties of Alkylbenzenesulfonate Salts, 1993 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, Georgia, March 8-12, 1993.
41. K.G. Furton and Q. Lin, Supercritical Fluid Extraction of Polychlorinated Biphenyls from Solid Phase Sorbents: The Effect of Cell Dimensions, Fluid Flow Rate, and Sorbent Type, 1993 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, Georgia, March 8-12, 1993.
42. K.G. Furton, E. Jolly and Q. Lin, Variables Influencing the Supercritical Fluid Extraction of PCBs and PAHs from Solid Phase Sorbents, Invited paper for Environmental Chemistry division symposium "Applications of Supercritical Fluid Extraction" 205th ACS National Meeting, Denver, Colorado, March 28 - April 2, 1993.
43. E. Jolly, K.G. Furton, J. Rein and L. Hearn, The Use of Supercritical Fluids To Elute Drugs From Solid Phase Sorbents, 1993 Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 6 - 8, 1993.
44. K.G. Furton, Advances in Sample Preparation Methods For The Isolation and Concentration of Non-volatile Poisons, Invited speaker for Forensic Chemistry symposium, 1993 Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 6 - 8, 1993.
45. A. Norelus and K.G. Furton, The Development of an Inexpensive, Straightforward Method for Determining Critical Micelle Concentrations With High Accuracy, 1993 Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 6 - 8, 1993.
46. K.G. Furton, L. Chen, Y.-M. Gong, R. Jaffe and C.-W. Huang, The Study of 'Trapped' Analytes in Environmental Solids Using Unconventional Solids and Supercritical Fluids, Invited presentation for special symposium on SFE at the 1993 Southeast Regional American Chemical Society Meeting, Johnson City, Tennessee, October 17 - 20, 1993.
47. P. Cabauy and K.G. Furton, Development of Accurate Straightforward Inexpensive Methods for Determining Critical Micelle Concentrations of Aqueous Surfactant Solutions, NSF National

- Conference on Diversity in the Scientific and Technological Workplace, Washington, D.C., October 28-30, 1993 (Student won 1st place in undergraduate research paper competition).
48. K. G. Furton, E. Jolly, A.J. Sabucedo, J. Rein and L. Hearn, Supercritical Fluid Extraction in Forensic Toxicology: Potential and Problems, Invited presentation for symposium "SFE and SFC: Current Status and Future Directions", 1993 Eastern Analytical Symposium & Exposition, Somerset, New Jersey, November 14 - 19, 1993.
 49. K.G. Furton, R. Jaffe, C.-W. Huang and M.A Sicre, High Temperature SFE for the Recovery of Hydrophobic Organic Compounds from Ancient Sediments, The 5th International Symposium on Supercritical Fluid Chromatography and Extraction, Baltimore, Maryland, January 11 - 14, 1994.
 50. K.G. Furton and R. Vichot, Variables Influencing the Reversed-Phase Ion-Pair Chromatography of Haloacetic Acids with Indirect Detection, 1994 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Chicago, Illinois, February 27 - March 3, 1994.
 51. A.J. Sabucedo and K.G. Furton, Selectivity Schemes for the Systematic Choice of Modifiers for Use In Supercritical Fluid Extraction, 1994 FIU GSA Graduate Students Scholarly Forum, Miami, Florida, April 11, 1994.
 52. P. Cabauy, A. Norelus, M.L. Sarkees and K.G. Furton, Inexpensive Undergraduate Experiments Demonstrating the Physicochemical Properties of Micellar Solutions, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
 53. A. Norelus and K.G. Furton, The Gas Chromatographic Stationary Phase Properties of Alkylbenzenesulfonate Salts and Commercial Detergents, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
 54. A.J. Sabucedo, E. Jolly, and K.G. Furton, Comparison of Solvent Selectivity Schemes for the Systematic Choice of Modifiers for Use In Supercritical Fluid Extraction, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
 55. C.-W. Huang, K.G. Furton, R. Jaffe, and M.A. Sicre, The Recovery of HOCs from Sediments Using High-Temperature Supercritical Carbon Dioxide Extraction, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
 56. K.G. Furton and S. Rose, Cocaine Contaminated Currency, Invited talk at Metro-Dade Police Department Narcotics Canine Course, Miami, Florida, August 29 - September 2, 1994.
 57. K.G. Furton, A. Sabucedo, J. Rein and W.L. Hearn, Supercritical Fluid Extraction/Enzyme Immunoassay for the Rapid Determination of Phenobarbital in Human Liver Tissues, Southern Association of Forensic Scientists - Fall 1994 Meeting, Orlando, Florida, September 7 - 10, 1994.
 58. J.R. Almirall, K.G. Furton and J.C. Bruna, A Novel Method for the Analysis of Gasoline from Fire Debris Using Headspace Solid-Phase Microextraction, Southern Association of Forensic Scientists - Fall 1994 Meeting, Orlando, Florida, September 7 - 10, 1994.
 59. K.G. Furton, A.J. Sabucedo, E. Jolly, J. Rein and W.L. Hearn, Supercritical Fluid Extraction of Drugs of Abuse from Post-Mortem Fluids and Tissues, Joint Congress of the International Association of Forensic Toxicologists and Society of Forensic Toxicologists, Tampa, Florida, October 31 - November 4, 1994.

60. K.G. Furton, J.R. Almirall, and J.C. Bruna, The Application of Headspace Solid-Phase Microextraction to the Analysis of Accelerants from Fire Debris in Casework (B7), 47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 13 - 18, 1995.
61. J.R. Almirall, K.G. Furton and J.C. Bruna, A Novel Method for the Analysis of Accelerants from Fire Debris Using Headspace Solid-Phase Microextraction (B61), 47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 13 - 18, 1995.
62. A. Sabucedo, K.G. Furton, J. Rein and W.L. Hearn, Supercritical Fluid Extraction/Enzyme Immunoassay for Determination of Drugs of Abuse in Human Tissue, Pittcon '95, New Orleans, Louisiana, March 5 - 10, 1995, 614.
63. J.C. Bruna, J.R. Almirall and K.G. Furton, The Rapid Ultra-Trace Analysis of Accelerants from Fire Debris Using Headspace Solid-Phase Microextraction, Pittcon '95, New Orleans, Louisiana, March 5 - 10, 1995, 999.
64. A. Norelus and K.G. Furton, Ultra Chromatography: Evaluation of Various Regular and "Ultra" Laundry Detergent Powders Used as Gas Chromatographic Packings., 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
65. P. Cabauy, Y. Darici and K.G. Furton, Study of Sulfur Bonding on Gallium Arsenide (100) Surfaces using Supercritical Fluid Extraction, 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
66. N. Hajje, R. Jaffe, L. Chen, C.-W. Huang, K.G. Furton and M.A. Sicre, Supercritical Carbon Dioxide Extractions of Geological Samples at Various Temperatures: Preliminary Results, 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
67. B. Viniegra, P. Cabauy, K.G. Furton and R. Jaffe, Supercritical Fluid Extractions of Hydrophobic Organic Compounds (HOCs) from Different Solid Phases, 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
68. J.C. Bruna, J.R. Almirall, and K.G. Furton, The Application of Direct and Headspace Solid-Phase Microextraction to the Analysis of Forensic Science Casework, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
69. A. Sabucedo, K.G. Furton, J. Rein and W.L. Hearn, Supercritical Fluid Extraction/Enzyme Immunoassay for the Rapid Determination of Drugs in Forensic Toxicology Samples, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
70. A. Norelus, A. Norelus, J. Carranza and K.G. Furton, Undergraduate Laboratory Experiments in Forensic Science Utilizing Consumer Products, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
71. P. Cabauy, Y. Darici and K.G. Furton, The Use of High Temperature Supercritical Fluid Extraction to Study Sulfur Bonding on Gallium Arsenide Semiconductor Surfaces, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
72. D. Diaz, N. Hajje, R. Jaffe, K.G. Furton, C. Eckardt and H.R. Fuentes, Supercritical Fluid Extraction of Geological Samples: Extraction Temperature Dependence and Molecular Speciation,

- 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
73. L. Marbot, R. Jaffe, K.G. Furton, and H.R. Fuentes, Molecular Speciation of Hydrophobic Compounds in Sediments from the Port of Galveston, Texas, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
 74. Y. Gong, R. Jaffe and K.G. Furton, Experimental Parameters Controlling the Supercritical Fluid Extraction of Hydrocarbons from Geological Samples, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
 75. J.R. Almirall and K.G. Furton, A Fast and Simple Method for the Analysis of Accelerants From Fire Debris Using Headspace Solid-Phase Microextraction, The International Symposium on the Forensic Aspects of Arson Investigations, Fairfax, Virginia, July 31 - August 4, 1995.
 76. R. Jaffe, L. Chen, C.-W. Huang, N. Hajje, K.G. Furton and M.A. Sicre, An Investigation of Hydrocarbon Speciation in Ancient Sediments by Stepwise Supercritical Carbon Dioxide Extraction at Various Temperatures, 17th International Meeting on Organic Geochemistry, Donostia-San Sebastian, The Basque Country, Spain, September 4 - 8, 1995.
 77. Y.-L. Hsu, Y.-C. Hong, T. Luo and K.G. Furton, Challenges in the Preparation of Laboratory and Field Samples Used to Determine the Chemical Basis of Cocaine Detection by Canines, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
 78. K.G. Furton, Y.C. Hong and Y.L. Hsu, Development of Multistep Sample Preparation Methods for the Isolation of Non-Volatile Drugs as well as Associated Volatile Chemicals Present in Forensic Specimens, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
 79. J. Bruna, K.G. Furton and J.R. Almirall, A Novel Technique for Recovering Flammable and Combustible Liquid Residues from Aqueous and Solid Fire Debris Samples, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
 80. R. Jaffe, K.G. Furton, D. Diaz, N. Hajje and H.R. Fuentes, Isolation of Hydrocarbons from Geological Samples: High Temperature Supercritical Fluid Extraction, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
 81. A. Sabucedo and K.G. Furton, SFE/EIA and SFE-GC/MS for the Rapid Analysis of Drugs of Abuse from Human Tissues, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
 82. R. Jaffe, K.G. Furton, D. Diaz, N.Hajje, Y. Gong and H.R. Fuentes, Stepwise Supercritical Carbon Dioxide Extraction at Increasing Temperatures: A Tool for Hydrocarbon Speciation Studies in Ancient Sediments, VI Latin American Congress on Chromatography, Caracas, Venezuela, January 21 - 25, 1996.
 83. K.G. Furton, Y.-C. Hong, Y.-L. Hsu and S. Rose, Drug Money and Detection Dogs: What Are They Really Smelling and What Does it Mean?, 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, B12.

84. K.G. Furton, J.R. Almirall, and J.C. Bruna, The Rapid Analysis of Flammable and Combustible Liquid Residues from Fire Debris Using Solid-Phase Microextraction, 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, B41.
85. J.R. Almirall, M.R. Cole and K.G. Furton, Characterization of Glass Evidence by the Statistical Analysis of their Inductively Coupled Plasma/Atomic Emission Spectroscopy and Refractive Index Data, 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, B77.
86. K.G. Furton, A. Sabucedo, Joseph Rein and W. Lee Hearn, The Potential and Problems Using Supercritical Fluid Extraction in Forensic Toxicology, Invited Presentation at the 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, K46.
87. K.G. Furton and A. Sabucedo, The Development of Supercritical Fluid Extraction/Enzyme Immunoassay for Forensic Drug Analysis, Invited Guest Speaker for the 7th International Symposium on Supercritical Fluid Chromatography and Extraction, Indianapolis, Indiana, March 31 - April 4, 1996.
88. K.G. Furton Threshold Levels of Cocaine Odor Detection by K-9's Under Field Conditions, Invited Speaker at the Seventh Annual FAA Southern Region K-9 Conference, Atlanta, Georgia, May 21 - 23, 1996
89. K.G. Furton, Y.-L. Hsu and T. Luo, Statistical Significance of Cocaine Contamination on U.S. and Canadian Currency and Correlation to Detector Dog Alerts to Suspected Drug Money, Third International Conference on Forensic Statistics, Edinburgh, Scotland, June 30 - July 3, 1996. Granted NSF Travel award to attend.
90. K.G. Furton Odor Signatures of Narcotics Analyzed by GC/MS and Threshold Levels of Detection for Drug Detection Canines Under Field Conditions, 14th Meeting of the International Association of Forensic Sciences (IAFS), Tokyo, Japan, August 26 - 30, 1996. Receptient of a Young Investigators' Award.
91. R. Jaffe, L. Marbot, K.G. Furton and H.R. Fuentes, Speciation of Hydrophobic Organic Compounds in Contaminated Sediments – Assessment via Stepwise Supercritical Fluid Extraction, 5th Latin American Congress on Organic Geochemistry, October, 1996, Cancun, Mexico.
92. O.G. Ferreira, H.R. Fuentes, R. Jaffe and K.G. Furton, Supercritical Fluid Extraction of PAH-Contaminated Soils, II International Seminar on Environment and Sustainable Development, Symposium No. 4: 'Energia y Medio Ambiente', October, 1996, Bucaramanga, Columbia.
93. K.G. Furton, A. Sabucedo, J. Rein and W.L. Hearn, Analysis of drugs in human tissues by supercritical fluid extraction/immunoassay, SPIE's First Annual Symposium on Enabling Technologies for Law Enforcement and Security, Boston, Massachusetts, November 19 - 21, 1996.
94. J.R. Almirall, M. Cole, K.G. Furton, and George Gettinby, The Statistical Significance of Trace Evidence Matches Using Independent Physicochemical Measurements, SPIE's First Annual Symposium on Enabling Technologies for Law Enforcement and Security, Boston, Massachusetts, November 19 - 23, 1996.

95. K.G. Furton, Y.-L. Hsu, T. Luo, N. Alvarez and P. Lagos, Novel sample preparation methods and field testing procedures used to determine the chemical basis of cocaine detection by canines, SPIE's First Annual Symposium on Enabling Technologies for Law Enforcement and Security, Boston, Massachusetts, November 19 - 21, 1996.
96. K.G. Furton, Y.-L. Hsu, T. Luo, N. Alvarez and P. Lagos, U.S. Currency Cocaine Speciation and Threshold Levels of Cocaine Odor Detection by K-9, Man and Machines, 49th Annual Meeting of the American Academy of Forensic Sciences, New York, New York, February 17 - 22, 1997, B30.
97. J.R. Amirall, M. Cole, G. Gettinby and K.G. Furton, The Evaluation of the Physicochemical Measurements of Glass Fragments, 49th Annual Meeting of the American Academy of Forensic Sciences, New York, New York, February 17 - 22, 1997, B79.
98. L. San Miguel and K.G. Furton, Comparison of Ion Suppression and Ion-Pair Chromatography of Haloacetic Acid using Direct and Indirect UV and Fluorescence Detection, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
99. M. Bi, J.R. Almirall, and K.G. Furton, Potential and Problems in the Analysis of Explosives by Solid-Phase Microextraction followed by HPLC and GC/MS, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
100. T. Luo, F. Lopez and K.G. Furton, Diffusion of Volatile Drug Components Under Controlled Experimental Conditions and the Relevance to Detector Dog Alerts to Suspected Drug Money, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
101. Y.-L. Hsu and K. G. Furton, Speciation of Cocaine and Methyl Benzoate in Forensic Specimens Studied by SPME/GC/MS/MS, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
102. J. Wang, J.R. Almirall, and K.G. Furton, The Influence of Water on the Analysis of Accelerants in Fire Debris Using Direct and Headspace Solid-Phase Microextraction, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
103. K.G. Furton, What Chemical Education Background is Required to Land a Job in a Crime Lab?, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
104. K.G. Furton, Scientific Investigation of Dog Alerts to Drug Odor Chemicals on Currency, Detection Canine Trainer Certification Course, Organized by K.G. Furton, Supervised by P.W. Gallagher, co-sponsored by the National Forensic Science Technology Center and the International Forensic Research Institute, Miami, Florida, June 9 - 13, 1997
105. K.G. Furton, Introduction to Chemometrics, Basic Trace Evidence Course sponsored by the Florida Crime Laboratory Council, Miami Beach, Florida, June 18-20, 1997. Invited 1 hour lecture.
106. M. Bi, J.R. Almirall and K.G. Furton, The Analysis of Explosives and Explosive Odors by Solid-Phase Microextraction Followed by HPLC and GC/MS, 214th ACS National Meeting, Las Vegas, NV, September 7 – 11, 1997.

107. J. Wang, J.R. Almirall and K.G. Furton, Variables Influencing the Recovery of Ignitable Liquid Residues from Simulated Fire Debris Samples Using Solid-Phase Microextraction, 214th ACS National Meeting, Las Vegas, NV, September 7 – 11, 1997.
108. T. Luo, and K.G. Furton, Evaluation of Solid-Phase Microextraction for the Detection of Cocaine Odors and the Relevance to Drug Dog Detection, 214th ACS National Meeting, Las Vegas, NV, September 7 – 11, 1997.
109. K.G. Furton, K-9's and Currency: Scientific Validation of Alerts, California Narcotic Canine Association Annual Training Conference, Van Nuys, California, October 9-11, 1997. Invited instructor for two 2-hour sessions.
110. K.G. Furton, Chemical Basis of Dog Alerts to Drug Money, Invited talk at University of Central Florida Chemistry Departmental Seminar, Orlando, Florida, October 13, 1997.
111. K.G. Furton, The Chemical Validation of K-9 Alerts to Drug Money, Invited talk at University of Miami Chemistry Departmental Seminar, Miami, Florida, November 21, 1997.
112. Y. Deng, A. Delgado, C. Nolan, X. Fan, K.G. Furton, Y. Zuo and R. Jones, Method Development for the Analysis of Aromatic Acids Using Capillary Zone Electrophoresis, The First SoFLACS Industrial/Academe Symposium on Marine and Environmental Chemistry, Highland Beach, Florida, November 15, 1997.
113. K.G. Furton, The Chemical Basis of Dog Alerts to Drug Odors, Detection Canine Trainer Certification Course, Organized by K.G. Furton, Supervised by P.W. Gallagher, co-sponsored by the National Forensic Science Technology Center and the International Forensic Research Institute, Miami, Florida, January 12 – 16, 1998.
114. Y. Deng, X. Fan, A. Delgado, C. Nolan, K.G. Furton, Y. Zuo and R. Jones, Separation and Quantitative Determination of Phenolic Acids by Capillary Zone Electrophoresis, The Eleventh International Symposium on High Performance Capillary Electrophoresis and Related Microscale Technology (HPCE'98), January 31 – February 5, 1998, Orlando, Florida.
115. K.G. Furton, Training and Research Trends in Materials Analysis, part of workshop on Developments in Trace Evidence Examinations: Interpretation of Material Transfers with J.R. Almirall, K. Lothridge, S.M. Ballou, J.L. Buckle and M.M. Houck, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, Workshop #1.
116. K.G. Furton and M.D. Cole, What Educational Background Is Required by Crime Laboratory Directors?, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B11.
117. K.G. Furton, Y.-L. Hsu, T. Luo, F. Lopez and S. Rose, Diffusion Studies and SPME/GC/MS/MS Analysis of Volatile Drug Components and the Relevance to Detector Dog Alerts to Suspected Drug Money, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B49.
118. J.R. Almirall, J. Wang and K.G. Furton, Variables Controlling the Recovery of Ignitable Liquid Residues from Simulated Fire Debris Samples Using Solid Phase Microextraction/Gas

- Chromatography, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B70.
119. J.R. Almirall, G. Bi and K.G. Furton, The Analysis of High Explosives Residues by Solid-Phase Microextraction Followed by HPLC, GC/ECD and GC/MS, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B71.
 120. J. Hudson, R. Knabe, K.G. Furton and S. Rose, Panel: Airport Searches and Canine Cases, Invited talk at U.S. Department of Justice Advanced Asset Forfeiture Seminar, Charleston, South Carolina, February 17-19, 1998.
 121. A. Norelus, K.G. Furton, Y.L. Hsu, T. Luo, F. Lopez and S. Rose, Analysis of Volatile Cocaine Components and the Relevance to Detector Dog Alerts to Suspected Drug Money, paper 60a, 215th ACS National Meeting, Dallas, Texas, March 29 – April 2, 1998.
 122. L. Wu, M. Bi, J.R. Almirall and K.G. Furton, Optimization of SPME for the Recovery of Explosives Followed by Gas and Liquid Chromatographic Analysis, FAME98 (ACS Florida Annual Meeting and Exposition), Orlando, Florida, May 8 – 9, 1998.
 123. D.C. Duckworth, D.C. Bayne, S.J. Morton, D.H. Smith, J.R. Almirall, R.D. Koons and K.G. Furton, Elemental Analysis of Forensic Glasses by Inductively Coupled Plasma Mass Spectrometry, 46th ASMS Conference on Mass Spectrometry and Allied Topics, Orlando, Florida, May 31 - June 4, 1998.
 124. R. Knabe, S. Rose and K.G. Furton, Scientific Validation of the Uses of Canines in Forefeiture Cases, Invited speaker at the U.S. Department of Justice Southwest Border/Asset Forfeiture Financial Investigations Seminar, Albuquerque, New Mexico, June 23-25, 1998.
 125. C.M. Lopez, J. Lopez, R. Jaffe and K.G. Furton, High Pressure Water/Solid Phase Microextraction of Hydrocarbons from Geological Samples, 216th ACS National Meeting, Boston, MA, August 23-27, 1998.
 126. K.G. Furton, Scientific Evaluation of K-9 Alerts to Currency and Comparison to an Electronic Nose, California Narcotic Canine Association Annual Training Conference, Van Nuys, California, October 7-10, 1998. Invited instructor for two 2-hour sessions.
 127. R. Knabe, S. Rose and K.G. Furton, Practical and Legal Implications of the Use of Canines in Search and Seizure Operations, Invited speaker at the Florida Association of Police Attorneys (FAPA) Legal Update Seminar, Long Boat Key, Florida, November 5 - 6, 1998.
 128. K.G. Furton, Optimized Analysis of Narcotic, Explosive and Accelerant Residues from Forensic Specimens Using SPME Combined with Chromatographic Separation and Spectroscopic Identification, Invited talk at Chemical and Analytical Sciences Division Seminar, Oak Ridge National Laboratory, Oak Ridge, Tennessee, January 26, 1999.
 129. K.G. Furton, Location and identification of drug money, accelerants and explosives by odor signatures using K-9s and instrumental analysis, Invited talk at Chemical Science and Technology Division Seminar, Los Alamos National Laboratory, Los Alamos, New Mexico, February 3, 1999.
 130. K.G. Furton, New Developments in Forensic Chemistry, Invited speaker at the multidisciplinary symposium: An Overview of the Forensic Sciences: Where Have We Been and Where are We

- Going?, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999.
131. K.G. Furton, Y.-L. Hsu, T. Luo, and S. Rose, Comparisons of Sensitivity and Reliability of Cocaine Odor Detection on Currency Using Chemical Sensors, Humans, SPME/GC/MS/MS Analysis and K9 Detection, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999, B28.
 132. K.G. Furton and M.D. Cole, What is the Ideal Criminalistics Curricula? Invited speaker at The Future of Education in the Forensic Sciences Symposium, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999, B35.
 133. K.G. Furton, L. Wu, J.R. Almirall, J. Wang and G. Bi, The Analysis of High Explosives and Ignitable Liquid Residues by Solid Phase Microextraction Combined with Chromatographic Analysis, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999, B66.
 134. J.R. Almirall, R.D. Koons, D.C. Duckworth, C.K. Bayne, S.J. Morton and K.G. Furton, The Forensic Analysis of Glass Fragments by ICP-MS, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 606.
 135. K.G. Furton, Y.-L. Hsu, T. Luo, A. Norelus and S. Rose, Detection and Quantitation of Cocaine Odor Chemicals on US Paper Currency Using Chemical Sensors, Detector Dogs and SPME/GC-MS-MS Analysis, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 676.
 136. J.Wang, J.R. Almirall, K. Lothridge and K.G. Furton, The Rapid Determination of Accelerant Residues in Fire Debris Samples and on Human Skin Using Solid Phase Microextraction/Gas Chromatography, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 1705P.
 137. L.Wu, G. Bi, M.W. Shannon, J.R. Almirall and K.G. Furton, Rapid Extraction and Quantitation of Explosives in Water and Post-Explosion Residues Using SPME/GC/ECD/MS and SPME/HPLC/UV/MA Analysis, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 1706P.
 138. R. Knabe, S. Rose and K.G. Furton, Money Seizures and the Use of Canines, U.S. Invited talk at Customs Service Academy Asset Forfeiture Financial Investigations Seminar, San Antonio, Texas, March 16 - 26th, 1999.
 139. N.M. Sanchez, E. Hernandez, D. Aquilar, Z.C. Morales-Martinez, K.G. Furton and K. O'Shea, Five Consecutive Years of Outstanding Recognition of the Florida International University American Chemical Society Student Affiliate Chapter, 217th ACS National Meeting, Anaheim, California, March 21-25, 1999.
 140. K.G. Furton, S. Rose and R.C. Pixler, Significance of a Dog Alert in a Forfeiture Case, Invited speaker at the U.S. Department of Justice Southwest Border/Asset Forfeiture Financial Investigations Seminar, Phoenix, Arizona, April 6-8, 1999.
 141. K.G. Furton, Chemometrics Applied to Trace Evidence, Invited speaker at the National Forensic Science Technology Center "Trace Evidence Workshop", May 10-12, 1999, Miami, Florida.

142. K.G. Furton and S. Rose, Cocaine Detection on Currency by Detection K9's/K9 Olfaction and Scent Recognition, Invited speaker at the Pacific Northwest Police Detection Dog Association Narcotics Detection Dog Seminar and Clinic, Mt. Vernon, Washington, May 13-17th, 1999.
143. Y.-L. Hsu, J. Walton, C. Lopez, S. Rose and K.G. Furton, Applying the Scientific Method to the Determination of the Reliability of Law Enforcement Canines Used as Chemical Detectors, FAME99 (ACS Florida Annual Meeting and Exposition), Orlando, Florida, May 8 – 9, 1999.
144. B. Memari, S. Rose and K.G. Furton, Variable Affecting the Analytical Precision and Accuracy of the Intoxilyzer 5000, FAME99 (ACS Florida Annual Meeting and Exposition), Orlando, Florida, May 8 – 9, 1999.
145. J. Almirall, A. Bouza, K.G. Furton, D. Duckworth, S. Morton, C. Bayne and R. Koons, Discrimination Power of ICP-MS in the Forensic Analysis of Glass Fragments, 47th ASMS Conference on Mass Spectrometry and Allied Topics, Dallas, Texas, June 13 - 17, 1999.
146. S.L. Ellison, S. Rose and K.G. Furton, Money Seizures and the Use of Canines, Invited speaker at U.S. Customs Service Academy Asset Forfeiture/Financial Investigations Seminar, Jacksonville, Florida, June 15-25, 1999.
147. K.G. Furton, The Physiological and Chemical Basis of K9 Alerts to Drug Odor Signatures, International Narcotics Interdiction Association SKYNARC 1999 Conference, Ft. Lauderdale, Florida, June 13-16, 1999.
148. K.G. Furton, J. Almirall, S. Rose and K. Lothridge, Development, Implementation and Management of a Scientifically Sound Program to Determine and Certify the Reliability of Law Enforcement Canines Used as Chemical Detectors, 15th Triennial Meeting of the International Association of Forensic sciences (IAFS), August 22-28, 1999.
149. K.G. Furton, B. Memari and S. Rose, Statistical Evaluation of the Relative Influence of Variables Affecting the Precision and Accuracy of Breath Alcohol Concentration Measurements Using the Intoxilyzer 5000, 15th Triennial Meeting of the International Association of Forensic sciences (IAFS), August 22-28, 1999.
150. K.G. Furton, Fundamentals of Drug Analysis, Fire Debris Analysis and Toxicology, Invited Speaker for U.S. Customs Forensic Science Training Class hosted by the National Forensic Science Technology Center (NFSTC), St. Petersburg, FL, September 15 – 29, 1999.
151. D.C. Duckworth, C.K. Bayne, S.J. Morton, J. Almirall, K.G. Furton and R.D. Koons, Discrimination of Glass Fragments by ICP-MS, 50th Anniversary Southeast Regional Meeting of the American Chemical Society (SERMACS-99), Knoxville, Tennessee, October 17-20, 1999.
152. J.R. Almirall and K.G. Furton, Forensic and Toxicology Applications: Ignitable Liquid Residues, Explosives and Drug analysis by SPME, invited paper in the Advances in Solid Phase Microextraction Session of the 1999 Eastern Analytical Symposium, Somerset, New Jersey, November 14 - 19, 1999.
153. K.G. Furton, Scientific Validation of Dog Alerts to Drug Odor Chemicals on Forfeiture Money, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2000. Invited instructor for two 2-hour sessions.

154. X. Fan, Y. Deng, L. Wu, J. Wang, R. Nossen, K.G. Furton and J.R. Almirall, Rapid Extraction and Quantitation of Explosives in Water and Post-Explosion Residues Using SPME/GC/ECD, SPME/HPLC/UV and SPME/MECC Analysis, 52nd Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21- 26, 2000. B3
155. J. Walton, Y.-L. Hsu, C. Lopez, J.R. Almirall, S. Rose, K. Lothridge and K.G. Furton, Development of a Scientific Protocol to Evaluate and Certify the Sensitivity and Reliability of Chemical(s) Odor Detection by Canines, 52nd Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21- 26, 2000. B9
156. S. Montero, K.G. Furton, D.C. Duckworth, S.J. Morton, C.K. Bayne, R.D. Koons and J.R. Almirall, Advances in Elemental Analysis of Glass by ICP-MS, 52nd Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21- 26, 2000. B32
157. Y. Deng, X. Fan, K.G. Furton and Y. Zuo, Separation and Identification of Aromatic Acids in Soil and Sediment Samples Using Solid-Phase Microextraction Followed by Capillary Electrophoresis, Pittcon 2000, New Orleans, LA, March 12 - 17, 2000, 1897P.
158. Y. Deng, X. Fan, K.G. Furton and Y. Zuo, Analysis of Phenolic Antioxidants in Chianti Red Wine and Cranberry Juice by Solid-Phase Microextraction and Capillary Electrophoresis, Pittcon 2000, New Orleans, LA, March 12 - 17, 2000, 1898P.
159. J.R. Almirall, K.G. Furton, D.C. Duckworth, S.J. Morton, C.K. Bayne, S. Montero, Trace-elemental analysis of forensic glass samples by ICP-MS, 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000 Paper 108.
160. C. Lopez, J. Walton, Y-L. Hsu, J. Wang, S. Rose, K.G. Furton, Isolation, identification, quantitation, and confirmation of volatile odor signature chemicals in controlled substances and high explosives. 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000. Paper 523.
161. J.R. Almirall, R.M. Nossen, X. Fan, Y. Deng, L. Wu, J. Wang, K.G. Furton, Quantitation of high explosives extracted from postblast residues using SPME/GC/ECD, SPME/HPLC/UV, and SPME/MECC analysis, 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000. Paper 540.
162. K.G. Furton and J.R. Almirall, Analytical Chemistry Applications in Forensic Science: New Methods and Method Development, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000. Invited speaker and presider over Forensic Chemistry Symposium.
163. K.G. Furton, B. Memari and S. Rose, Evaluation of the Analytical and Biological Variables Affecting the Precision and Accuracy of Breath Alcohol Instruments Including the Inoxylyzer 5000, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
164. A. Sabucedo, E. Jolly, J. Rein, W.L. Hearn and K.G. Furton, The Utility of Solvent Selectivity Schemes for the Optimization of Supercritical Fluid Extraction of Drugs from Model Sorbents and Post Mortem Tissues , FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.

165. S. Montero, J.R. Almirall, K.G. Furton, D.C. Duckworth, S.J. Morgan and R.D. Coons, Trace Elemental Analysis of Forensic Glass by ICP-MS, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
166. J. Walton, C. Lopez, J. Wang, Y.-L. Hsu, L.J. Myers and K.G. Furton, Comparison of the Identification of Volatile Odor Signatures Chemicals from Narcotics and High Explosives Using Canines and Instruments, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
167. J. Wang, L. Wu, J.R. Almirall and K.G. Furton, The Application of Solid-Phase Microextraction to the Recovery of Accelerants and Explosive Traces from Forensic Specimens, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
168. Y.-L. Hsu, S. Rose and K.G. Furton, Isolation and Quantitation of Drug Odor Chemicals and Free Fraction Drugs Using SPME/GC/MS/MS, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
169. J.R. Almirall and K.G. Furton, Application of Solid Phase Microextraction to the Recovery of Explosive Residues from Post Blast Debris, Invited paper for symposium "Detection of Explosives: Challenges for Chemists", 220th ACS National Meeting, Washington, D.C., August 20-24, 2000.
170. K.G. Furton, Scientific Validation of Dog Alerts to Suspected Drug Money, invited talk at the Asset Forfeiture Seminar, Mid-Atlantic Narcotics Training Academy, Ft. Fisher, North Carolina, November 7-9, 2000.
171. K.G. Furton, K-9's & Currency: The Scientific Foundations and Efficacy of the Use of Canines as Chemical Detectors for Narcotics, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 11-13, 2001. Invited instructor for two 2-hour sessions.
172. K.G. Furton, J.R. Almirall, J. Wang and Y.-L. Hsu, Standardization of SPME Methods for Forensic Analysis including Arson and Explosives, Invited paper for the Sixth International Conference on Sample Preparation, January 21-24, 2001, Amelia Island, Florida, U.S.A.
173. A.J. Sabucedo, J. Almirall and K.G. Furton, Analysis of Flammables and Explosive Residues, Invited talk at workshop W4 "An Introduction to Solid-Phase Microextraction – Forensic Applications", 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001.
174. K.G. Furton, Forensic Sciences at Florida International University, One of four invited Academic Program Directors for Young Forensic Scientists Forum "Expectations and Realities for Forensic Science Employment", 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001.
175. K.G. Furton, J. Almirall and D.C. Duckworth, Discrimination of Forensic Glasses via Trace Element Analysis by Inductively Coupled Plasma Mass Spectrometry, National Institute of Justice Investigative and Forensic Science Division 2001 Program Meeting, Seattle, Washington, February 21, 2001.
176. Y.-L. Hsu, J. Walton, C. Lopez, S. Rose and K.G. Furton, The Analysis of Drug Odor Signatures and Free Fraction Drugs from Plasma Using SPME/GC/MS, 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001, B57.

177. X. Fan, Y. Deng, L. Wu, J. Wang, J.R. Almirall and K.G. Furton, Critical Evaluation of SPME for the Rapid Analysis of High Explosives in Water and Post-Explosion Residues Combined with Separation Methods Including GC, HPLC, and MECC, 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001, B66.
178. J. Wang, M.D. Plasencia, K.G. Furton, and J.R. Almirall, A Comprehensive Approach to the Extraction, Detection, and Identification of Compounds from Ignitable Liquid Residues Using SPME-GC-MS-MS, 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001, B67.
179. K.G. Furton, Comparison of Instrumental and K-9 Detection of Explosives and Drug Odors from Forensic Specimens, invited speaker for Symposium “Catching Crooks with Chemistry”, The Pittsburgh Conference 2001, New Orleans, LA, March 4-9, 2001.
180. K.G. Furton, The Law and Science of Detector Dogs and How it Relates to the Drugs on Your Money, invited Featured Speaker for FIU Faculty Lunchtime Symposium, FIU Faculty Club, March 29, 2001
181. K.G. Furton, Identification of Drug Money Using Biological and Instrumental Chemical Detectors: K9s and SPME/GC/MS/MS, Invited talk at Departmental Seminar, Department of Chemistry and Biochemistry, Ohio University, Athens, Ohio, April 13, 2001
182. K.G. Furton, K-9s and Currency: Scientific Validation of Dog Alerts to Drug Odor Chemicals on Forfeiture Money, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Vancouver, British Columbia, Canada, May 7th – 10th, 2001. K.G. Furton and S. Rose, K9 Olfaction and Scent Recognition: Odor Signature Chemicals of Methamphetamine and 3,4-Methylenedioxy-N-Methylamphetamine (Ecstasy), invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Vancouver, British Columbia, Canada, May 7th – 10th, 2001.
184. N. Lorenzo, V. Cabrera, J. Prieto, J. Walton, Y.-L. Hsu and K.G. Furton, Identification of Canine Active Odor Signature Chemicals from Currency and Street Narcotics Including 3,4-Methylenedioxy-N-Methylamphetamine (Ecstasy), Florida Annual Meeting and Exposition (FAME), Orlando, Florida, May 11 & 12, 2001. K.G. Furton, Norma Lorenzo, Ya-Li Hsu, Claudia Lopez, John Walton and Jose Almirall, Instrumental and K-9 Detection of Explosives, Drugs and Ignitable Liquid Residues, Florida Annual Meeting and Exposition (FAME), Orlando, Florida, May 11 & 12, 2001.
186. J. Wang, J.R. Almirall and K.G. Furton, The Application of SPME/GC/MS/MS to the Detection of Ignitable Liquid Residues from Fire Debris, Florida Annual Meeting and Exposition (FAME), Orlando, Florida, May 11 & 12, 2001. 187. K.G. Furton, K-9 alerts to “drug” money, 2nd National Detector Dog Conference: Training Aids and Certification Standards for the New Millennium, North Miami Beach, Florida, May 22-25, 2001. K.G. Furton, J. Wang and J.R. Almirall, Determination of Active Odor Signature Chemicals and the Efficacy of the Use of Canines as Chemical Detectors for Explosives, 7th International Symposium on the Detection and Analysis of explosives, Edinburgh, Scotland, U.K. June 25-28, 2001.
188. J. R. Almirall and K.G. Furton, Fast Extraction of High Explosives from Water and Post-Blast Residues Using Solid-Phase Microextraction (SPME) for GC, HPLC and MECC Analyses, 7th International Symposium on the Detection and Analysis of explosives, Edinburgh, Scotland, U.K. June 25-28, 2001.

189. K.G. Furton, The Science of Currency Alerts, Invited speaker for two two hour talks, International Narcotics Interdiction Association 11th Annual Training Conference, Washington, D.C. July 15-18, 2001.
190. K.G. Furton, K-9's & Currency: The Scientific Foundations and Efficacy of the Use of Canines as Chemical Detectors, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 9-11, 2002. Invited instructor for two 2-hour sessions.
191. K.G. Furton, K-9 Alerts to Drug Money & the Designer Drug "MDMA", invited speaker at the Advanced K-9 Narcotics Seminar, Police K-9 Training Institute, Ft. Lauderdale, Florida, January 14-18, 2002.
192. K.G. Furton, The importance of scientific research, proper training aids and a standardized certification program for reliable canine detection, invited speaker at the 2nd International Termite Detector Dog Association Conference, Clearwater, Florida, January 17-19, 2002.
193. J.R. Almirall, S. Montero and K.G. Furton, Association of Glass Fragments by their Trace Elemental Content Using ICP-MS and LA-ICP-MS in the Analysis Scheme, paper in session "Forensic Science: Technologies and Systems" of "Enabling Technologies for Law Enforcement and Security" program at SPIE's 16th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 1-5, 2002.
194. K.G. Furton, T. Wan, R.J. Harper and J.R. Almirall, Analytical Techniques to Validate Explosive Detector Dogs for Evidentiary Purposes, paper in session "Forensic Science: Technologies and Systems" of "Enabling Technologies for Law Enforcement and Security" program at SPIE's 16th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 1-5, 2002.
195. A. Benson, A. Sabucedo, J. Almirall, K. G. Furton, Detection and identification of illicit drugs including GHB, rohypnol, ketamine, and psilocybin by refocused solid-phase microextraction high-performance liquid chromatography mass spectrometry, 223rd ACS National Meeting, Orlando, FL, ANYL 54, April 7-11, 2002.
196. N. Lorenzo, Y.-L. Hsu, K. G. Furton, Identification of Canis familiaris active odor signature chemicals in methamphetamine and 3,4-methylenedioxy-N-methylamphetamine (Ecstasy), 223rd ACS National Meeting, Orlando, FL, ANYL 84, April 7-11, 2002.
197. Y.-L. Hsu, S. Rose, K. G. Furton, Determination of the free fraction of protein-bound drugs using valproic acid in clinical samples by solid-phase microextraction GC/MS, 223rd ACS National Meeting, Orlando, FL, ANYL 143, April 7-11, 2002.
198. K.G. Furton, N. Lorenzo, Y.-L. Hsu, T. Wan and B. Young, Use of Detector Dogs for the Accurate Location and Collection of Forensic Evidence, Invited speaker for special session "Forensic Science Symposium and Hands-on Activity", 223rd ACS National Meeting, Orlando, FL, April 7-11, 2002.
199. K.G. Furton, K-9 Olfaction and active odor signature chemicals in methamphetamine and 3,4-methylenedioxy-N-methylamphetamine (Ecstasy), invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Vancouver, British Columbia, Canada, May 6th – 10th, 2002.

200. N. Lorenzo, R.J. Harper, Y.-L. Hsu, J.R. Almirall and K.G. Furton, Identification of Canis Familiaris Active Odor Signature Chemicals from Narcotics and Explosives Employing Headspace SPME/GC/MS, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
201. K.G. Furton and A.J. Sabucedo, Determination of Time Since Death by Fragmentation of Cardiac Troponin I, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
202. K.G. Furton, What Educational Background Do Crime Lab Directors Require? – USA Perspective, invited speaker at the “Forensic Education and Training Forum” 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
203. K.G. Furton, Explosive Residue Analysis and Odour Signature Analysis by SPME, invited instructor at “Practice and Applications of SPME Workshop”, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
204. A. Benson, A.J. Sabucedo, Y.-L. Hsu, L. Wu, J.R. Almirall and K.G. Furton, The Analysis of Thermally Labile Forensic Specimens Including Explosives and Illicit Drugs Using SPME/HPLC/MS, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
205. K.G. Furton and A.J. Sabucedo, Cardiac Troponin I : A Time of Death Marker, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
206. N. Lorenzo, Y.-L. Hsu and K.G. Furton, Identification of Active Odor Signature Chemicals in 3,4-Methylenedioxy-N-Methylamphetamine (Ecstasy) Using Canis Familiaris as Biological Detectors, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
207. R.J. Harper, J.R. Almirall and K.G. Furton, A Comprehensive Study of the Scientific Foundation of Explosive Detector Dog Performance, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
208. K.G. Furton, S. Rose and Y.-L. Hsu, The Determination of the Free Fraction of Protein Bound Drugs Including Valproic Acid in Clinical Samples by Solid Phase Microextraction(SPME) GC/MS, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
209. K.G. Furton, ID of Unique Odor Chemicals from Narcotics, Explosives and Training Aids and the Legal Significance, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 15-17, 2003. Invited instructor for two 2-hour sessions.
210. K.G. Furton, Recent Advances in Field Sampling in Forensic Science Including the Use of Detector Dogs, Invited featured speaker at the Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003.

211. R. Harper and K.G. Furton, Identification of Active Odor Signatures from Bomb Dogs, Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003.
212. A. Sabucedo and K.G. Furton, Development of a Time of Death Marker Based on Cardiac TroponinI, Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003.
213. Y.-L. Hsu and K.G. Furton, Analysis of Antipsychotic Drugs from Biological Samples Using Nonequilibrium SPME/GC/MS/MS, Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003
214. J.M. Perr, C.J. Diaz, K.G. Furton and J.R. Almirall, The Analysis of Ignitable Liquid Residues and Explosive Material Using SPME/GC/MS/MS”, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
215. R.J. Harper, J.R. Almirall and K.G. Furton, A Comprehensive Study of the Scientific Foundation of Explosive Detector Dog Performance, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
216. N. Lorenzo, Y.-L. Hsu and K.G. Furton, Identification of active odor signature chemical in methamphetamine and 3,4-methylenedioxy-N-methamphetamine (ecstasy) using canis familiaris as biological detectors, B28, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
217. A.J. Benson, A. Sabucedo and K.G. Furton, Detection and Identification of Date Rape Drugs Directly from Simulated Tampered Beverages Using Solid Phase Microextraction (SPME) High-Performance Liquid Chromatography Mass Spectrometry (HPLC/MS), B13, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
218. A.J. Sabucedo and K.G. Furton, Determination of Time Since Death – Cardiac Troponin I, G77, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
219. C. Lopez, J. Walton, Y.-L. Hsu, R. Harper and K.G. Furton, Identification of *Canis familiaris* active odor signature chemicals in controlled substances and high explosives, The 225th ACS National Meeting, New Orleans, LA, March 23-27, 2003
220. J.R. Almirall, T. Trejos, A. Hobbs and K.G. Furton , Trace elemental analysis of glass and paint samples of forensic interest by ICP-MS using Laser Ablation solid sample introduction, in Sensors and C3I Technologies for Homeland Defense and Law Enforcement, SPIE’s 17th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 21-25, 2003.
221. K.G. Furton, R.J. Harper, J. M. Perr and J.R. Almirall, Optimization of biological and instrumental detection of explosives and ignitable liquid residues including canines, SPME/ITMS and GC/MSⁿ, in Sensors and C3I Technologies for Homeland Defense and Law Enforcement, SPIE’s 17th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 21-25, 2003.
222. K.G. Furton, N. Lorenzo, Y.-L. Hsu, R. Harper, S. Tolliver and J.R. Almirall, SPME/GC/MS Combined with Field Experiments Used to Identify Active Odor Signature Chemicals Used By

- Detector Dogs to Locate Forensic Specimens, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
223. R.J. Harper, J.R. Almirall and K.G. Furton, Biological Detection of Explosives by Canis Familiaris: A Scientific Approach, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
 224. J.M. Perr, K.G. Furton, and J.R. Almirall, Design and Testing of a SPME/IMS Interface for Identification and Detection of Explosives, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
 225. S. Tolliver, M. Chow and K.G. Furton, Identification of Canis Familiaris Active Odor Signature Chemicals in Human Remains, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
 226. J.R. Almirall and K.G. Furton, Trends in Forensic Science Education: Expansion and Increased Accountability; A Report on the Forensic Education Programs Accreditation Committee (FEPAC) of the AAFS, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
 227. A.J. Sabucedo, and K.G. Furton, Estimation of Postmortem Interval using Cardiac Troponin I, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
 228. K.G. Furton, The Identification of Canis Familiaris Active Odor Signature Chemicals in Pseudos, Simulants and Actual Items Including Cocaine and MDMA, 3rd National Detector Dog Conference: The Expanding Role of Detection Canines in Homeland Security, North Miami Beach, Florida, May 19-23, 2003.
 229. K.G. Furton, Y.-L. Hsu, A. Benson, and A.J. Sabucedo, Forensic Applications of Extractionless GC/MS, SPME-GC/MSⁿ and SPME-LC/MS including Drug Detection in Beverages and Free Fraction Toxicological Analysis in Biological Samples, WeC-167, 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
 230. J.M. Perr, K.G. Furton and J.R. Almirall, Development of a SPME/IMS Interface and Method for the Detection of Explosive Compounds, WeC-171, 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
 231. Jose Almirall, Kenneth G. Furton, Mass Spectrometry in Forensic Science, 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
 232. Ross Harper, J.R. Almirall and K.G. Furton, Investigation of Canis Familiaris as Biological Detectors for Explosives Using Headspace SPME-GC-MS Analysis 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
 233. K.G. Furton, Laboratory and field experiments used to identify the odor signature chemicals used by detector dogs to locate drugs, explosives and humans, Invited speaker at the 3rd International Working Dog Breeding Conference, San Antonio, Texas, October 5-8, 2003.
 234. A.J. Sabucedo and K.G. Furton, Extraction of Cardiac Troponin I from Muscle Tissue with Carboxylate Magnetic Microparticles, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.

235. S. Tolliver, M. Chow, K.G. Furton , Identification of Canis Familiaris Active Odor Signature Chemicals in Human Remains, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
236. A. Curran and K.G. Furton, Laboratory and field experiments used to identify the uniqueness of human scent identified by canines, SPME/GC/MS and SPME/LC/MS, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
237. K.G. Furton, N. Lorenzo, R. Harper, Y.-L. Hsu, S. Tolliver, A. Curran, J.R. Almirall Laboratory and field experiments used to identify canis lupus var. familiaris active odor signature chemicals from drugs, explosives and humans, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
238. R. Harper, J.R. Almirall, K.G. Furton, Investigation of Canis Familiaris as Biological Detectors for Explosives Using Headspace SPME-GC-MS Analysis, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
239. J. Perr, K.G. Furton, J.R. Almirall, Improving the Detection and Sampling of Ignitable Liquid Residues and Explosive Compounds, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
240. A.M. Curran and K.G. Furton, Development of Optimal Collection and Storage Methods for Human Scent Evidence and Characterization of Uniqueness of Human Scent, Netherlands Police National Agency, Amsterdam, Netherlands, November 5-8, 2004.
241. K.G. Furton and J.R. Almirall, Trends in Forensic Science Education: Expansion and Increased Accountability, invited paper in the Session: Forensic Science Education, 2003 Eastern Analytical Symposium, Somerset, New Jersey, November 17 - 20, 2003.
242. K.G. Furton and, Gas Chromatographic Methods Used to Determine the Odor Signature Chemicals Used by Detector Dogs to Locate Forensic Specimens, invited paper in the Session: Recent Advances in Gas Chromatography in Forensic Science, 2003 Eastern Analytical Symposium, Somerset, New Jersey, November 17 - 20, 2003.
243. K. G. Furton, The Study of Scents Detected by Dogs Using SPME Combined with Gas and Liquid Chromatography, invited speaker for the Society for Analytical Chemists of Pittsburgh (Co-sponsor of PittCon), January 5, 2004, Pittsburgh, Pennsylvania.
244. K.G. Furton, Chemistry of Scent: Olfaction and Odor Signature Analysis, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 13-15, 2004. Invited instructor for two 2-hour sessions.
245. K.G. Furton, Current Detection Dog Research, Invited speaker at the 10th Annual Sports Medicine Symposium, Auburn University, Auburn, Alabama, January 23-25, 2004.
246. K.G. Furton, Identification of the Dominant Odor Signature Chemical(s) used by Dogs to Locate Forensic Specimens, Invited speaker at the 7th UNCW Symposium on Chemistry and Biochemistry, Wilmington, North Carolina, January 30-31, 2004.

247. K.G. Furton, Identification of Odor Signature Chemical(s) Used By Dogs and Possibly Instruments to Locate Forensic Specimens, Invited featured speaker at Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
248. A. Curran and K.G. Furton, Optimization of Collection and Storage Methods for Scent Evidence and the Identification of the Volatile Components Comprising an Individual Human Odor Signature, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
249. R.J. Harper, F. Khodadadi, S. Rose, J.R. Almirall and K.G. Furton, Continued Scientific Investigation of Explosives Detection by *Canis lupis var. familiaris*, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
250. J. Perr, K.G. Furton and J.R. Almirall, Contruction and Development of a SPME/IMS Interface for the Detection of Explosive Compounds and Taggants, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
251. S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification of *Canis familiaris* Signature Odor Chemicals in Human Remains, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
252. D. Heller, J.R. Almirall, S. Rose and K.G. Furton, Scientific Validation of the Reliability of Detector Dog Teams: Progress Towards the Development of a National Standard for Best Practices, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
253. K.G. Furton, Dogs Serving Forensic Science: From Folklore to Fact, Invited speaker at Young Forensic Scientists Forum at the 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
254. J.M. Perr, K.G. Furton and J.R. Almirall, Construction of a SPME/IMS Interface for Detection of Explosive Compounds and Taggants Evaluated by SPME/GC/MS, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004. (Best Oral Presentation Award by Jeannette Perr).
255. A.M. Curran and K.G. Furton, Optimization of Collection and Storage Methods for Scent Evidence and the Identification of the Volatile Components Comprising an Individual Human Odor Signature, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
256. A. Benson, S. Rose, Y.-L. Hsu, K.G. Furton and A. Sabucedo, LC/MS Analysis of Flunitrazepam (Rohypnol) Solid Dosage Tablets, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
257. D.P. Heller, J.R. Almirall, S. Rose and K.G. Furton, Scientific Validation of the Reliability of Detector Dog Teams: Progress Towards the Development of a National Standard for Best Practices,

- 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
258. R.J. Harper, F. Khodadadi, S. Rose, J.R. Almirall and K.G. Furton, Continued Scientific Investigation of Explosives Detection by Canis Lupus var. Familiaris, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
259. S.S. Chin and K.G. Furton, Comparison of Field Portable Instruments and Accelerant Detection Canines for the Detection and Collection of Ignitable Liquid Residue at Fire Scenes, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
260. A.J. Sabucedo and K.G. Furton, Extractionless GC/MS of g-Hydroxybutyrate and g-Butyrolactone with Trifluoroacetic Anhydride and Heptafluoro-1-butanol from Aqueous Samples, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
261. S.S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification of Canis familiaris Signature Odor Chemicals in Human Remains, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
262. S. Rose and K.G. Furton, Identification of Odor Signature Chemicals used by Dogs and Possibly Instruments to Locate Forensic Specimens, Featured Speaker at the 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
263. A.M. Curran and K.G. Furton, Optimization of Collection and Storage Methods for Scent Evidence and the Identification of the Volatile Components Comprising an Individual Human Odor Signature, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
264. R.J. Harper, F. Khodadadi, S. Rose, J.R. Almirall and K.G. Furton, Continued Scientific Investigation of Explosives Detection by Canis Lupus var. Familiaris, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
265. J.M. Perr, K.G. Furton and J.R. Almirall, Construction of a SPME/IMS Interface for the Detection of Explosive Compounds and Taggants, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida. (Best poster presentation by Jeannette Perr).
266. S.S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification of Canis Familiaris Signature Odor Chemicals in Human Remains, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
267. D.P. Heller, J.R. Almirall, S. Rose and K.G. Furton, Scientific Validation of the Reliability of Detector Dog Teams: Progress Towards the Development of a National Standard for Best Practices, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
268. A.J. Sabucedo and K.G. Furton, Extractionless GC/MS of g-Hydroxybutyrate and g-Butyrolactone with Trifluoroacetic Anhydride and Heptafluoro-1-butanol from Aqueous Samples, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.

269. J.R. Amirall and K.G. Furton, Trends in forensic science education in the U.S.A: expansion and increased accountability, accreditation by FEPAC of the AAFS, 17th International Symposium on the Forensic Sciences, ANZFSS, Wellington, NZ , March 28 – April 2nd, 2004.
270. J. Perr, K.G. Furton and J.R. Almirall, Solid Phase MicroExtraction Coupled to Ion Mobility Spectrometry (SPME-IMS) for the Field Detection of Explosives, 17th International Symposium on the Forensic Sciences, ANZFSS, Wellington, NZ, March 28 – April 2nd, 2004.
271. K.G. Furton, Odor Signature of Cocaine Analyzed by GC/MS and Threshold Levels of Detection for Drug Detection Canines, Invited talk at Drug Detection Canine Record Keeping and Court Testimony Seminar (Multijurisdictional Counter Drug Task Force Training Center), Orlando, Florida, April 1-2, 2004.
272. K.G. Furton and A. Curran, Laboratory and field experiments used to identify the uniqueness of human scent identified by instrumental methods and canine detection, Invited speaker at special symposium on human scent detection, FBI Academy, Quantico, VA, April 29, 2004.
273. A.M. Curran and K.G. Furton, The Identification of the Volatile Components Comprising an Individual Human Odor Signature (Invited Speaker), Human Scent Symposium, Federal Bureau of Investigations (FBI), Quantico VA April 29, 2004.
274. K.G. Furton, K-9 Olfaction and active odor signature chemicals in narcotics and other forensic specimens, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Seattle, WA, May 3 – 8, 2004.
275. K.G. Furton, Organized and presided over 2 day Forensic Chemistry Symposium I and II., ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
276. K.G. Furton, CSI K9: Accurate Location Of Forensic Evidence And WMD With Canines And Instrumentation, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
277. J. Perr, K.G. Furton and J.R. Almirall, Application Of SPME-IMS To The Detection of Explosives, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
278. L. Conner and K.G. Furton, Critical Evaluation of Field Sampling And Analysis Methods For Arson Investigation Including Electronic Noses And Adsorption Sampling/GCMS, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
279. R.J. Harper, S. Rose, J.R. Almirall and K.G. Furton, Odor Analysis of Smokeless Powders For Canine Detection, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
280. Y.-L. Hsu, B.J. Young and K.G. Furton, Drugs On Money-The Role Of Ink, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
281. R. Griffith and K.G. Furton, Location Of Molds And Mycotoxins Using Canines And SPME/GC/MS Detection Of Microbial Volatile Organic Compounds, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.

282. S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification Of Canis Familiaris Signature Odor Chemicals In Human Remains, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
283. A.M. Curran and K.G. Furton, The Analysis Of Volatile Compounds Found In Human Scent, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
284. A. Sabucedo, and K.G. Furton, Applications of GC/MS And LC/MS In Forensic Drug Analysis, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
285. J.M. Perr, K.G. Furton and J.R. Almirall, Improved Detection of Organic Explosives Using SPME-IMS and SPME-GC-MS-MS, Proceedings of the 8th International Symposium on the Analysis and Detection of Explosive (ISADE), June 6-10, 2004. Ottawa, Canada.
286. R.J. Harper, J.R. Almirall and K.G. Furton, Improving the Scientific Reliability of Biological Detection of Explosives by Canis Familiaris Through Active Odor Signatures and their Implications, Proceedings of the 8th International Symposium on the Analysis and Detection of Explosive (ISADE), June 6-10, 2004. Ottawa, Canada.
287. D. Heller, R.J. Harper, J.M. Perr, J.R. Almirall and K.G. Furton, , Improving the Scientific Reliability of Biological Detection of Explosives Through Active Odor Signatures and the Development of Best Practices for Dogs and Orthogonal Detectors, Homeland Security Advanced Research Projects Agency (HSARPA) Technology Workshop on Countering Threats from Truck, Suicide and Public Transportation Bombs, Washington, DC, June 15-16, 2004.
288. K.G. Furton, J.M. Perr and J.R. Almirall, Optimizing the Rapid Detection of Explosive Odors Employing Biological and Instrumental Methods Including SPME-IMS AND SPME-GC-MS-MS, Homeland Security Advanced Research Projects Agency (HSARPA) Technology Workshop on Countering Threats from Truck, Suicide and Public Transportation Bombs, Washington, DC, June 15-16, 2004.
289. K.G. Furton and D. Heller, SWGDOG – the need for global cooperation and understanding, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
290. A.M. Curran and K.G. Furton, Contamination Issues as it Pertains to Human Scent and Improving Non-Hazardous Training Aids, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
291. R.J. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part I: The Need for Scientific Study, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
292. R.J. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part II: Identifying Active Odours, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
293. K.G. Furton and J.R. Almirall, The Forensic Science Education Programs Accreditation Commission (FEPAC) of the AAFS: An Update and Perspectives from a University Administrator, Invited talk at the NIJ FRN/CLIP National Conference: Innovative Partnerships, Tampa, Florida, September 20-22, 2004.

294. B. Young, A. Latham, Y.-L. Hsu, S. Rose and K.G. Furton, Detection of Signature Chemicals Used to Locate Items Containing Drugs and Drug Odors Including Currency, The Joint Meeting of the Southern Association of Forensic Scientists (SAFS), Midwestern Association of Forensic Scientists (MAFS), Mid-Atlantic Association of Forensic Scientists (MAAFS) and Canadian Society of Forensic Science (CSFS), Orlando, Florida, September 19-24, 2004.
295. R. Griffith, K. Jayachandran, W. Whitstine and .G. Furton, Canine and SPME/GC/MS Detection of Microbial Volatile Organic Compounds Emitted from Two Problematic Indoor Molds: Penicillium Chrysogenum and Aspergillus Versicolor, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
296. L. Conner and K.G. Furton, Field Sampling and Analysis Methods for Arson Investigation, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
297. P. Prada, A.M. Curran and K.G. Furton, Supercritical Fluid Extraction of Organic Compounds from Adsorbents Used to Collect Human Scent Evidence, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
298. W. Jeffris, S.S. Tolliver and K.G. Furton, Identification of Volatile Organic Compounds Produced by Decomposing Human Blood and Those Detected by Cadaver Dogs, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
299. R.J. Harper, J.R. Almirall and K.G. Furton; Explosive Detection Goes to the Dogs: Scientific Investigations into Canine Olfaction, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
300. A.M. Curran and K.G. Furton, SPME-GC/MS Analysis of the Volatile Components Comprising an Individual Human Odor Signature, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
301. K.G. Furton, S. Chin, L. Conner, R.J Harper, J. M. Perr, D. Heller and J.R. Almirall, Comparison of instrumental and biological field detection of accelerants and explosives, The 31st Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Portland, Oregon, October 3 - 7, 2004.
302. A.M. Curran and K.. Furton, SPME-GC/MS Investigations Into the Uniqueness of Human Scent, The 31st Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Portland, Oregon, October 3 - 7, 2004.
303. R.J. Harper, S. Rose, J.R Almirall and K.G. Furton, Chemical Odour Signatures of Powder Explosives and Their Implications upon Biological Detection of Explosives by Canis Familiaris, The 31st Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Portland, Oregon, October 3 - 7, 2004
304. R.J Harper, A.M Curran, J.R. Almirall and K.G. Furton, Improving the Science behind Canine Olfaction of Forensic Specimens, Olfactory-Based Systems for Security Applications 2004 (OBSSA 04), Dstl Fort Halstead, U.K., 29th November - 01st December 2004.
305. R.J. Harper, A.M. Curran, J.R. Almirall and K.G. Furton Developing the Science Behind Canine Olfaction of Forensic Specimens, Olfactory Based Systems for Security Applications (OBSSA-04) hosted by DSTL, London, England, December 2004

306. K.G. Furton, Advances in Chemistry of Scent: Currency, Narcotics, Explosives and Humans, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 13-15, 2004. Invited instructor for two 2-hour sessions.
307. K.G. Furton, Advances in Instrumental and Biological Explosive Detection Systems, Invited featured speaker at Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
308. A. Curran, P.A. Prada, A.A. Schoon, J.R. Almirall and K.G. Furton, Human Scent as a Biometric Measurement, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
309. P.A. Prada, A.M. Curran and K.G. Furton, Supercritical Fluid Extraction of Organic Compounds Present in Adsorbents Used in Human Scent Evidence, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
310. J.M. Perr, K.G. Furton and J.R. Almirall, Improving the Detection of Explosive Compounds Before and After Detonation, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
311. W. Jeffris, S.S. Tolliver and K.G. Furton, Volatile Compounds Produced by Decomposing Human Blood and Those Detected by Cadaver Dogs, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
312. R. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Canine and SPME/GC/MS Detection of Microbial Volatile Organic Compounds from Toxic Indoor Molds, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
313. R. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part I: The Need for Scientific Study, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
314. R. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part II: Identifying Active Odors, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
315. K.G. Furton and D. Kontny, K9 versus Machine: Optimizing the Combination of Biological and Instrumental Detectors, Invited speaker for the Young Forensic Science Forum session “Forensic Science Outside the Box”, 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
316. P.A. Prada, A.M. Curran and K.G. Furton, Comparison of Pressurized Fluid Extraction Methods of Adsorbents for Use in Human scent Evidence Collection (B35), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
317. R.J. Harper, A.M. Curran, D. Heller, and K.G. Furton Understanding the Odors of Forensic Specimens, (Invited Speaker) Nomadics, Still Water, Oklahoma, February 2005

318. J.M. Perr, K.G. Furton, M. Prieto and J.R. Almirall, Application of a Standardized Gas Chromatography Tandem Mass Spectrometry Method for the Improved Detection of Ignitable Liquid Residues (B118), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
319. R.J. Harper, J.R. Almirall, D. Heller and K.G. Furton, Realizing the Science Behind Canine Detection of Explosives (B122), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
320. A.M. Curran, J.R. Almirall, A.A. Schoon and K.G. Furton, The Instrumental Analysis of the Volatile Organic Compounds Present in Human Scent by SPME-GC/MS and the Evaluation of Scent Preservation Methods (B154), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
321. W. Jeffris, S. Tolliver and K.G. Furton, Volatile Compounds Produced by Decomposing Human Blood and Those Detected by Cadaver Dogs (B43), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
322. L.M. Conner and K.G. Furton, Field Sampling and Analysis Methods for Arson Investigation (D21), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
323. S. Tolliver, M. Chow, A. Lowy, M.A. Sawal and K.G. Furton, Detection of *Canis Familiaris* Signature Odor Chemicals in Human Remains Using Derivatization/SPME/GC/MS (D45), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
324. R.T. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Canine and SPME/GC/MS Detection of Microbial Volatile Organic Compounds Emitted from *Stachybotrys chartarum*, *Penicillium chrysogenum* and *Aspergillus versicolor* (D48), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
325. A.M. Curran, A.A. Schoon and K.G. Furton, Determination of the Volatile Organic Compounds in a Human Scent Profile through SPME-GC/MS, Young Forensic Scientists Forum, Bring Your Own Poster, AAFS, New Orleans LA, February 2005
326. K.G. Furton, Alisha Latham, Ya-Li Hsu, Stefan Rose, Bradley Young, Signature Chemicals Used by Instrumental and Biological Detectors to Locate Items Containing Drugs and Drug Odors Including Currency, PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
327. R.T. Griffith, K. Jayachandran and K.G. Furton, Identification of Signature Microbial Volatile Organic Compounds from Toxic Molds Using SPME/GC/MS and Canine Detection (1330-8 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
328. R.J. Harper, J.R. Almirall, K.G. Furton, Determining Explosive Odours Using Solid Phase Microextraction: Gas Chromatography (SPME-GC) and Explosive Detection Canines (1520-5), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
329. L. Conner and K.G. Furton, Field Sampling and Analysis Methods for Arson Investigation (1880-1 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.

- 330. A.M. Curran, K.G. Furton and A.A. Schoon, Determination of the Volatile Organic Compounds Present in a Human Scent Profile through SPME-GC/MS (1880-2 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
- 331. S. Tolliver and K.G. Furton, Detection of Canis Familiaris Signature Odor Chemicals in Human Remains Using Derivatization/SPME/GC/MS (1880-12 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
- 332. P.A. Prada, A.M. Curran and K.G. Furton, Supercritical Fluid Extraction of Organic Compounds Present in Adsorbents Used in Human Scent Evidence Collection (1880-22 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
- 333. A.M. Curran, P. Prada, A.A. schoon, J.R. Almirall and K.G. Furton, Human Scent as a biometric measurement (5779-46), in Technologies for Human Identification, SPIE Defense and Security Symposium, Orlando, Florida, March 28 – April 1, 2005.
- 334. R.J. Harper, J.R. Almirall and K.G. Furton, Discrimination of smokeless powders by headspace SPME-GC-MS and SPME-GC-ECD, and the implications upon training explosives detection canines (5778-91), in Sensors and C3I Technologies for Homeland Security and Homeland Defense, SPIE Defense and Security Symposium, Orlando, Florida, March 28 – April 1, 2005.
- 335. J. Perr, K.G. Furton and J.R. Almirall, Application of a SPME-IMS detection system for illicit explosives (5778-94), in Sensors and C3I Technologies for Homeland Security and Homeland Defense, SPIE Defense and Security Symposium, Orlando, Florida, March 28 – April 1, 2005.
- 336. K.G. Furton, The significance of drug dog alerts to paper currency, Invited talk for the Miami Dade Police Training Bureau Narcotics Canine Course, Miami, Florida, April 11 - 15, 2005.
- 337. A.M. Curran, J.R. Almirall, A.A. Schoon and K.G. Furton, Human Scent as a Potential Biometric Measurement Utilizing Solid Phase Microextraction – Gas Chromatography/Mass Spectrometry (SPME-GC/MS), 11th International Symposium on Olfaction and electronic Nose, Barcelona, Spain, April 13 – 15, 2005.
- 338. R.T. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Differentiation of Hazardous Indoor Molds via Canine Detection and SPME-GC/MS, 11th International Symposium on Olfaction and electronic Nose, Barcelona, Spain, April 13 – 15, 2005.
- 339. L. Conner and K.G. Furton, Evaluation of Electronic Noses in Conjunction with Field Sampling Apparatus in Fire Investigations, 11th International Symposium on Olfaction and electronic Nose, Barcelona, Spain, April 13 – 15, 2005.
- 340. K.G. Furton and L. Myers, Co-organized and co-hosted the 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.
- 341. K.G. Furton, Chemistry of Training Aids, 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.
- 342. R.J. Harper, J.R. Almirall and K.G. Furton, Development of Explosive Odor Mimics for Scientifically Sound Canine Training, 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.

- 343. A.M. Curran, A.A. Schoon and K.G. Furton, Analysis of the Components of Human Scent by SPME-GC/MS, 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.
- 344. K.G. Furton, Organized and presided over Forensic Chemistry Symposium, ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
- 345. K.G. Furton and D. Heller, The Reliable Location of Forensic Specimens Through Research and Best Practice Guidelines for Dog and Orthogonal Instrumental Detectors (paper #40), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
- 346. Jeannette Perr, K.G. Furton, and J.R. Almirall, Improved Tandem Mass Spectrometry Method for Ignitable Liquid Residue Analysis Using Multiple Reaction Monitoring (paper #42), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
- 347. D.K. Mills and K.G. Furton, Graduate Student and Forensic Research at Florida International University's Forensic DNA Profiling Facility: A Summary (paper #44), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
- 348. A.M. Curran, A.A. Schoon and K.G. Furton, The Analysis of Human Scent by SPME-GC/MS (paper #74), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
- 349. K.G. Furton, Basics of Canine Olfaction and Odor Signature Analysis, First Annual International Mold Detector Dog Association (IMDDA) Conference, Tampa, Florida, May 20 – 21, 2005.
- 350. R. Griffith and K.G. Furton, Developments in the Pioneering Research Being Conducted with Mold Detection Dogs, First Annual International Mold Detector Dog Association (IMDDA) Conference, Tampa, Florida, May 20 – 21, 2005.
- 351. K.G. Furton, Research into Chemical Odor Signatures for Different Detection Canines including Bomb, Drug, Persons and Cadavers, First Annual International Mold Detector Dog Association (IMDDA) Conference, Tampa, Florida, May 20 – 21, 2005.
- 352. K.G. Furton, Forensic searches: dog vs. machine, The Leads 6th International Seminar on Detection Dogs, Tulliallan Castle, Fife, Scotland, June 3 – 5, 2005.
- 353. A. Curran, R. Harper and K.G. Furton, Contamination issues for the improvement of non-hazardous training aids / Real or pseudo, what's the difference?, The Leads 6th International Seminar on Detection Dogs, Tulliallan Castle, Fife, Scotland, June 3 – 5, 2005.
- 354. R.T. Griffith, K. Jayachandran, K.G. Shetty, W. Whitstine and K.G. Furton, Hazardous Indoor Molds Detection Application in Forensic Sciences, American Society of Microbiology 105th General Meeting: Atlanta, GA, June 5-9, 2005
- 355. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 1st members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, San Antonio, TX, September 18-21, 2005.
- 356. A.M. Curran and K.G. Furton, Human Odor Component Determination Through SPME-GC/MS (Invited Speaker) Federal Bureau of Investigation, Quantico Virginia, October, 2005.

357. A.M. Curran and K.G. Furton, Human Odor Component Determination Through SPME-GC/MS (Invited Speaker) Old Dominion Bloodhound Seminar, Appomattox, Virginia, October, 2005.
358. A.M. Curran and K.G. Furton, SPME-GC/MS for the Analysis of Human Scent as a Potential Biometric Measurement, National Academies of Science Sackler Forensic Science Colloquium, Washington D.C. November, 2005
359. K.G. Furton, Advances in the Chemistry of Scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 9-11, 2006. Invited instructor for two 2-hour sessions.
360. K. G. Furton, A. Curran and D. Hudson, Advances in Human Scent Evidence Research, Human Scent Research Workshop, Nunspeet, Netherlands, January 17th, 2006.
361. R.J. Harper, A.M. Curran and K.G. Furton, The Nose Knows: Canine and Instrumental Detection of Suspects, Explosives and Cadavers, Moderator for Workshop #8, 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
362. A.M. Curran and K.G. Furton, Scientific Working Group on Dog and Orthogonal Detection Guidelines (SWGDOG), National Institute of Justice Office of Science and Technology Investigative and Forensic Sciences Division 2006 General Forensics R&D Grantees Meeting, Seattle, WA, February 21, 2006.
363. K.G. Furton, Chemistry of Scent and SWGDOG/Research in the K-9 Field, 2 Invited lectures at the Ke Kula Maka'I Canine Training Facility Seminar, Hawaii, February 20-24, 2006.
364. R. J. Harper and K.G. Furton, Development of Scientifically Sound Protocols for the Training of Explosive Detection Canines (B11), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
365. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, The Effects of Storage Conditions on Human Scent by SPME-GC/MS (B12), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
366. M.S. Macias, R.J. Harper and K.G. Furton, A Comparison of Real vs. Pseudo Contraband for Reliable Detector Dog Training (B13), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
367. A.M. Curran, R.A. Stockham and K.G. Furton, The Acceptance of Human Scent as Evidence in the U.S. Court System (B69) (FSF Emerging Forensic Scientist Award Paper Presentation); 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
368. P.A. Prada, A.M. Curran, A.A. Schoon and K.G. Furton, Compounds Present in Human Scent: A Population Study (B109), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
369. J. Aarons, Y.-L. Hsu and K.G. Furton, Comparison of the Volatile Organic Compounds Above Paper Currency and Illicit Drugs using SPME/GC-MS, 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.

- 370. J.N. Aarons, Y.-L. Hsu, B.J. Young and K.G. Furton, Chemical and Microscopic Characterization of Illicit Drug Speciation in Paper Currency, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.
- 371. M. Macias, R. Harper and K.G. Furton, The Use of SPME-GC/MS for the Analysis of VOC's of Contraband and Simulated Contraband, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.
- 372. L. Conner and K.G. Furton, Evaluation of Field Portable Detection and Collection Devices for use in Arson Investigation, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.
- 373. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Optimization of the Storage of Collected Human Scent Evaluated by SPME-GC/MS, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.
- 374. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 2nd members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Burbank, CA, April 2 -4, 2006.
- 375. K.G. Furton, The optimized combination of canines and machines for detecting forensic traces, Invited featured speaker at 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
- 376. J. Aarons, Y.-L. Hsu and K.G. Furton, Comparison of the volatile organic compounds above paper currency and illicit drugs using SPME/GC-MS, 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
- 377. P.A. Prada, A.M. Curran, A.A. Schoon and K.G. Furton, A population study: Compounds present in human scent, 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
- 378. M. Macias, R.J. Harper and K.G. Furton, A comparison of real vs. simulated contraband VOC's for reliable detector dog training utilizing SPME-GC/MS, 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
- 379. K.G. Furton, Chemical Analysis of Dog Alerts, Invited talk at the Louisiana District Attorneys Association Highway Interdiction and Drug Asset Forfeiture post Certification Seminar, Lafayette, Louisiana, May 8-10, 2006.
- 380. K.G. Furton, Organized and presided over Forensic Chemistry Symposium, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006.
- 381. K.G. Furton and D. Heller, Improved location of forensic traces through canine research and standardization efforts including SWGDOG, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 96).
- 382. A.M. Curran, R.A. Stockham and K.G. Furton, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 97).
- 383. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Storage of human scent, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 98).

384. M. Macias, R.J. Harper and K.G. Furton, A Comparison of Real vs. Simulated Contraband VOC's for Reliable Detector Dog Training Utilizing SPME-GC/MS, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (Paper 161).
385. P. Prada, A.M. Curran and K.G. Furton, Optimization of Sorbent Materials Used to Collect Human Scent for Instrumental Analysis, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 162).
386. J.N. Aarons, Y.L.-Hsu and K.G. Furton, Comparison of Volatile Organic Compounds Above Paper Currency and Illicit Drugs using SPME/GC-MS, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 163).
387. K.G. Furton, Advances in the Chemistry of Scent, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Annual Conference, Bellingham, WA, May 22 – 26, 2006.
388. K.G. Furton, Advances in the optimal detection of odors by detector dogs and machines, keynote speaker at the 1st Tennessee Detector Dog Conference, Knoxville, Tennessee, June 12 - 14, 2006.
389. K.G. Furton, Optimizing the Combination of Biological and Instrumental Detectors, Invited speaker at the workshop “Use of Dogs for Helping Forensic Investigation” organized by Silke Löffler, 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
390. P. Prada, A. Curran and K.G. Furton, Optimization of Sorbent Materials in Human Scent Identification (W72), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
391. A. Curran, A. Schoon and K.G. Furton, Optimization of Sorbent Materials in Human Scent Identification (W73), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
392. D. Hudson, A. Curran, A. Schoon and K.G. Furton, Storage Conditions and Human Scent Evidence (W104), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
393. K.G. Furton, L. Conner, R. Griffith, J. Aarons, M. Macias, S.S. Tolliver and, A.M. Curran, Improved detection of accelerants, biotoxins, currency, drugs, explosives and humans by canines and instruments through optimal combination of odor signature chemicals (F72), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
394. K.G. Furton, Improved detection of forensic specimens by canines and instruments through identification of odor signature chemicals (F72), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
395. K.G. Furton, The use of chemical odor profiles to optimize biological and instrumental detection systems, invited lunchtime lecture, Nomadics, Inc., Stillwater, Oklahoma, July 20, 2006.
396. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 3rd members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Philadelphia, PA, September 11 – 13, 2006.

397. K.G. Furton, Canines in Court: From Civil Forfeiture to Criminal Human Scent Identification Cases, Invited speaker for the National Conference on Science, Technology and the Law, St. Petersburg, Florida, November 2-5, 2006.
398. K.G. Furton, Chemistry of Scent: Science behind K9 detection of contaminated currency, narcotics, explosives and human scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 9-11, 2007. Invited instructor for two 2-hour sessions.
399. D. Hudson, A.M. Curran and K.G. Furton, The Effects of Storage on Volatile Organic Compounds Present in Hand Odor Samples through the Use of SPME-GC/MS, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
400. M.S. Macias and K.G. Furton, Development of Reliable Contraband Mimics for Biological/Instrumental Training Aids/Calibration Standards Using SPME/GC-MS, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
401. P. Prada, A. Curran and K.G. Furton, Optimization of Sorbent Materials to Collect Human Scent for Instrumental Analysis, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
402. B. Memari, A. Sabucedo and K.G. Furton, Improved Estimation of Time Since Death with Multiple Protein Markers and Improved Analytical Methods, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
403. K.G. Furton, Advances in the Biological and Instrumental Detection of Forensic Evidence, Invited featured speaker 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
404. P. Guerra, M. Macias, K.G. Furton and J.R. Almirall, Field Detection of Drug and Explosive Odor Signatures Using SPME-IMS, NIJ Grantees meeting, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
405. K.G. Furton, J. Greb and H. Holness, Scientific Working Group on Dog & Orthogonal detector Guidelines (SWGDOG), Invited speaker at NIJ Grantees Forum, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
406. K.G. Furton, Characterization of Volatile Chemical Profiles and the Development of Explosive Odor Calibrants for Instruments and Canines, Co-organizer of workshop #1 at the 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
407. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Biological and Chemical Influences on a Canine's Ability to Differentiate Hand Odor Samples, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
408. J.N. Aarons, I. Corbin and K.G. Furton, The Quantification of Drug Residies and Drug odorants Under Variable Conditions Evaluated by SPME-GC/MS and with Detection Canines, 59th Annual

- Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
409. M.S. Macias and K.G. Furton, Explosive Training Aid Variance Affecting Canine Detection, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
 410. P.A. Prada, A.M. Curran and K.G. Furton, Laboratory Experiments for the Optimization of Non-Contact Human Scent Sampling, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
 411. M. Kusano and K.G. Furton, Comparison of the Volatile Biomarkers from Biological Specimens for Profiling Potential, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
 412. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 4th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Burbank, CA, March 10-14, 2007.
 413. A.M. Curran, Jessie Greb and K.G. Furton, *SWGDOG*: Best practice guidelines for improved biological and instrumental detection, Invited presentation for the Novel Programs and Standards Panel, 4th NIJ Applied Technology Conference, April 3 – 5, 2007, Garden Grove, California
 414. K.G. Furton, Organized and presided over Forensic Chemistry Symposium at the 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
 415. K.G. Furton, J. Aarons, L.DeGreeff, H. Holness, D.T. Hudson, M. Macias and P. Prada, The chemistry and law behind the use of canines and machines to identify drug money and suspects, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
 416. M. Macias, L. Calvo and K.G. Furton, Alternative training aid systems for canine detection, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
 417. P.A. Prada, A.M. Curran and K.G. Furton, Laboratory experiments for the optimization of non-contact human scent sampling, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
 418. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Biological and chemical influences on a canine's ability to differentiate hand odor samples, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
 419. B. Memari, A.J. Sabucedo and K.G. Furton, Improved estimation of postmortem interval with multiple protein markers and improved analytical methods, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
 420. J.S. Wirks, P.A. Prada and K.G. Furton, Evaluation of fiber composition of human scent collection materials and their effect on collected human hand odor, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.

421. K.G. Furton, The science behind the canine detection of contaminated currency, narcotics, explosives and human scent, Advances in the Chemistry of Scent, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Annual Conference, Bellingham, WA, May 21 – 25, 2007.
422. K.G. Furton, Development of Best Practice Guidelines for Detector Dogs and their Optimal Combination with Instrumental Detection, Invited speaker at the 2007 National Search and Rescue Conference, Charlotte, NC, May 31-June 2, 2007.
423. K.G. Furton, Latest capabilities of canines and instruments from A to F (accelerants, biotoxins, currency, drugs, explosives and flesh), Invited keynote speaker at the UKLEADS 7th International Seminar on Detection Dogs, Tulliallan Castle, Fife, Scotland, June 8 – 10, 2007.
424. D. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Variables Affecting Alerts Produced by Human Scent Identification Canines, UKLEADS 7th International Seminar on Detection Dogs, Tulliallan Castle, Fife, Scotland, June 8 – 10, 2007.
425. P.A. Prada, A.M. Curran and K.G. Furton, Human Scent Evidence Collection for Instrumental and Canine Detection, UKLEADS 7th International Seminar on Detection Dogs, Tulliallan Castle, Fife, Scotland, June 8 – 10, 2007.
426. Represented FIU at Alumni Advisors College as Hi Pi of the Pi Phi Zeta of Lambda Chi Alpha Chapter at the 2007 Stead Leadership Seminar in Memphis, Tennessee, July 25-29th, 2007.
427. K.G. Furton and S. Rose, Science Behind Narcotic Dog Alerts: The Significance of Alerts to the Odor of Drugs on Paper Currency, Invited speaker at the Louisiana District Attorneys Association Annual Conference, Destin, Florida, July 29-August 3.
428. K. G. Furton, Canines in Court: From Civil Forfeitures to Human Scent Criminal Cases, Invited panelist for session “The Future of Evidence”, ABA Section of Science & Technology Law, American Bar Association Annual Conference, San Francisco, CA, August 8 – 14, 2007
429. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 5th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Fredricksburg, VA, August 12-16, 2007.
430. K.G. Furton, Chimie des odeurs, Invited talk at Horaire du seminaire de L’AMCPQ, September 9-14, St-Jean-sur-Richelieu, Quebec, Canada.
431. K.G. Furton, Detection of drugs, explosives and humans: Dogs vs Machines, invited talk for special session “Advances in Spectroscopy and Mass Spectrometry in Forensic Sciences” at the 34th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Memphis, TN October 14-18, 2007.
432. K.G. Furton, Capabilities of Canines and Contraptions from A to F - Accelerants, Biotoxins, Currency, Drugs, Explosives and Flesh (dead and alive), Invited featured speaker at the 1st Detector Dog World Congress – Spain 2007, Barcelona, Spain, November 7-10, 2007.
433. K.G. Furton, Current Capabilities of Machines, Man and Man's Best Friend- Locating accelerants, biotoxins, currency, drugs, explosives and flesh, Invited speaker at the special seminar for Middle

- and High School Teachers entitled “Differences in Scent Discrimination between Dogs, Man and Machines ” at the 2007 Eastern Analytical Symposium, Somerset, New Jersey, November 11, 2007.
434. K.G. Furton, Chemistry of Scent: Science behind Canine location of contaminated currency, narcotics, explosives and human scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 8-10, 2008. Invited instructor for two 2-hour sessions.
 435. K.G. Furton, J. Greb and H. Holness, Optimized location of Forensic Evidence by Canines and Instruments Through Implementation of Best Practice Guidelines and SPME/GC-MS Methods, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
 436. D.T. Hudson, A.A. Schoon and K.G. Furton, Variables Influencing the Ease With Which Canines Match Hand Odor Samples From Individuals, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
 437. J.N. Aarons and K.G. Furton, Laboratory and Field Experiments Used for the Determination of Odor Signature Chemicals in Marijuans, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
 438. L. DeGreeff, S. Herran and K.G. Furton, The Development of the Human Scent Collection for the Minimalization of Environmental Contamination During Non-Contact Human Scent Sampling, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
 439. M.S. Macias, L. Calvo and K.G. Furton, Canine Detection Using a Calibration Standard and an Optimized Explosive Training Aid System, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
 440. P.A. Prada, A.M. Curran and K.G. Furton, Determining Individual Hand Odor Profiles Through Non-Contact Scent Collection Methodologies, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
 441. M. Kusano, E. Mendez and K.G. Furton, Pilot Study of the Potential for Using Different Biological Specimens as Human Scent Sources, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
 442. K.G. Furton, Chemistry of Detector Dog Alerts to Narcotics and Contaminated Currency, Invited speaker at the Correctional Service Canada National Dog Handler Conference, Cornwall, Ontario, March 3-4, 2008.
 443. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 6th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Dallas, TX, March 9-13, 2008.
 444. Davia Hudson and K.G. Furton, 84th ACS Florida Annual Meeting and Exposition (FAME 2008), Orlando, FL, May 8-10, 2008.

445. K.G. Furton, The Detection of Human Scent Traces and the Development of Best Practice Guidelines, HITS 2008, Handler Instruction and Training Seminar, Denver, Colorado, May 28-31, 2008.
446. K.G. Furton, The Chemistry of Scent and Canine Detection of Drugs and Contaminated Currency, HITS 2008, Handler Instruction and Training Seminar, Denver, Colorado, May 28-31, 2008.
447. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 7th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Fredricksburg, VA, September 14-18, 2008.
448. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 8th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Dallas, TX 3/1/09 – 3/5/09.
449. K.G. Furton, Invited speaker at Panel A: Emerging Scientific Disciplines: Directions and Priorities, The First Sino-US Summit on Science Education and Research, Peking University, Shanghai, China, October 23, 2008. Part of a 12 member U.S. NSF Delegation of Science Deans, October 20-31, 2008 visiting universities in Beijing, Xian and Shanghai.
450. K.G. Furton, Invited speaker at Panel C: Overcoming Obstacles Facing Scientific Research Management: Organizations, Faculty Recruitment and Development, and Fund Acquisition and Management, The First Sino-US Summit on Science Education and Research, Peking University, Shanghai, China, October 23, 2008.
451. K.G. Furton, Chemistry of Scent: Science behind K9 detection of contaminated currency, narcotics, explosives and human scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2009. Invited instructor for two 2-hour sessions.
452. M. Kusano, E. Mendez and K.G. Furton, HS-SPME/GC-MS Analysis of Various Biological Specimens Using VOCs, A37, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
453. J.S. Wirks, P.A. Prada, A. M. Curran and K.G. Furton, The Optimization and Evaluation of the Headspace Analysis of Head Hair Samples for the Application as a Human Scent Source, A38, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
454. L.E. DeGreeff, A.M. Curran and K.G. Furton, Evaluation of the Scent Transfer Unit (STU-100) for the Non-Contact Sampling of Volatile Compounds, A49, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
455. K.G. Furton, The Scientific Working Group on Dog and Orthogonal Detector Guidelines, A118, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
456. P.A. Prada, A.M. Curran, N.I. Caraballo and K.G. Furton, The Evaluation of Human Hand Odor Volatiles on Various Fiber Chemistries: A Comparison Between Contact and Non-Contact

- Sampling Methodologies, A156, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
457. M.S. Macias and K.G. Furton, MDMA Synthesis Affecting Canine Detection, A166, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
458. K.G. Furton, Identifying Odorants and Establishing Best Practice Guidelines for Explosive Detection Canines, Invited speaker for Workshop “Measurements and Standards for Trace Explosives (2080-4), PittCon 2009, Denver, Colorado, March 8-13, 2009.
459. K.G. Furton, Identification of Odorant Molecules Emanating from Explosives, Narcotics and Persons, Invited speaker at the UKLEADS 8th International Symposium on Detector Dogs, Moreton-in-Marsh, U.K., March 4-6, 2009.
460. E. Mendez , K.G. Furton, Potential for Identical Twin Differentiation using Volatile Organic Compounds found in Blood. 2009 Honors College Research Conference, Miami, Fl. March 26, 2009.
461. E. Mendez, S. Rose, H. Holness, K.G. Furton, The Response of the Intoxilyzer 8000 to Volatile Organic Compounds Found in the Human Breath at Physiologic Concentrations, Second Annual Life Sciences Research Symposium, Miami Florida. March 28, 2009. Award: Best Poster Presentation
462. E. Mendez, M. Kusano and K.G. Furton, Preliminary Study of Volatile Organic Compounds in Blood using FTA cards and SPME-GC/MS, 23rd National Conference on Undergraduate Research (NCUR), La Crosse, Wisconsin, April 16-18, 2009.
463. E. Mendez, S. Rose, H. Holness, K.G. Furton The Response of the Intoxilyzer 8000 to Volatile Organic Compounds Found in the Human Breath at Physiologic Concentrations FAME, Orlando, Florida. May 2009.
464. K.G. Furton, The Expanded Use of Biological and Electronic Sensors in Forensic Science (K13.4), Keynote speaker at the European Academy of Forensic Sciences, September 8-11, 2009
465. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 9th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Tampa, FL, 9/13/09 – 9/17/09.
466. K.G. Furton, Recent Advances in the Use of Human Scent as Forensic Evidence, Invited talk at the Dubai Police Forensic Laboratory, Dubai, U.A.E., 9/28/09.
467. K.G. Furton, Rewarding Faculty – Approaches to T&P Review and Joint Appointments, Invited moderator at the Science and Math Teacher Imperative (SMTI) Leadership Collaborative Retreat, Miami, FL, 1/6-8/2010.
468. K.G. Furton, Chemistry of Scent: Science behind K9 detection of forensic specimens, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2010. Invited instructor for two 2-hour sessions.

469. L.E. DeGreef and K.G. Furton, Collection of Human Remains Volatiles by Non-Contact Dynamic Airflow Sampling , A27, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.
470. K.G. Furton, J. Greb and H. Holness, Improved Location of Forensic Evidence Through Implementation of the Scientific Working Group on Dog and Orthogonal Detector Guidelines , A169, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.
471. P.A. Prada, A.M. Curran and K.G. Furton, Temperature and Humidity Effects on the Stability of Human Odor, A170, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.
472. J.S. Wirks and K.G. Furton, An Evaluation of Volatile Organic Compounds From Biological Specimens Over Time, A206, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.
473. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 10th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Tampa, FL, 3/1/10 – 3/3/010.
474. K.G. Furton, Improved Crime Scene Detection of Drugs, Explosives and Human Scent with Biological and Electronic Detectors, invited speaker for “Forensic Analysis: From the Lab to the Crime Scene” (1060-5), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
475. L.E. DeGreef and K.G. Furton, Determination of Human Remains Using Non-Contact Dynamic Airflow Sampling (930-78P), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
476. M. Kusano and K.G. Furton, A 6-month Study of the Characteristic Human Scent VOCs Present in Various Biological Specimens (1000-65), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
477. J.S. Wirks and K.G. Furton, The Evaluation of VOCs from Novel Biological Specimens by Non-Destructive Analytical Techniques for Use in Forensic Identifications (1000-11P), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
478. K.G. Furton, Improved Work Dog Detection of Accelerants, Drugs, Explosives and Human Scent through Research and Adoption of SWGDOG Best Practices, North American Police Work Dog Association (NAPWDA) national workshop, April 30 - May 7, 2010, Eureka, Missouri, Invited speaker for 2 four hour lectures.
479. K.G. Furton, Improving Biological and Orthogonal Detectors using Forensic Odor Mimics and Best Practice Guidelines, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida , May 13-15, 2010. Invited Plenary speaker – Forensic Program.
480. K. Beltz, K.G. Furton, Explosives Training Aid Kid: A Tool for the Enhancement of Explosives Detection Canine Training, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010.

481. J.Wirks-Brown, K.G.Furton, Assessment of Human Scent Volatiles for the Discrimination of Individuals Canine Training, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010
482. L.DeGreeff, K.G.Furton, Collection and Determination of Human Remains Volatiles by non-contact, Dynamic Airflow Sampling, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida , May 13-15, 2010.
483. K.G.Furton, Improving Biological and Orthogonal Detectors using Forensic Odor Mimics and Best Practice Guidelines, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida , May 13-15, 2010.
484. J.La Salvia, J.Mendel, K.G.Furton, D.Mills, Recovery of Human Cells from Smooth Surfaces using Polycarbonate Filaters for Subsequent DNA Profiling, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010.
485. N.Caraballo, H.K.Holness, D.Mills, K.G.Furton, A Preliminary Evaluation for the Utilization of the Scent Transfer Unit (STU-100) for the Collection of Human Odor from Porous and Non-porous Objects, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010.
486. K.G. Furton, Enhancing the Performance of Canine Teams through Research and Implementation of the Scientific Working Group on Dog and Orthogonal detector Guidelines (SWGDOG), 2010 NASAR National Search and Rescue Conference, Tunica, Mississippi, May 13-15, 2010, Invited speaker for 2 hour lecture
487. K.G. Furton, Advances in the Science Behind Canine and Instrumental Detection of Drugs and Humans, invited keynote speaker at the annual Pacific Northwest Police Detection Dog Association Annual Conference, Bellingham, WA, May 17-21, 2010.
488. K.G. Furton , J. Greb and D. Kontny, “The Scientific Working Group on Dog and Orthogonal Detection Guidelines”, Scientific Working Group (SWG) Chairs meeting, Quantico, VA, June 1, 2011.
489. K.G. Furton, J. Greb and D. Kontny, “Update on the Scientific Working Group on Dog and Orthogonal Detection Guidelines (SWGDOG)”. Organized the meeting and chaired sessions at the 10th SWGDOG members meeting, Burbank, CA, 9/12/10 – 9/16/10.
490. K.G. Furton, Proving the Presence and Significance of Drug Odors on Seized Currency, Invited speaker for Legal Update Seminar of the Florida Association of Police Attorneys (FAPA), St. Augustine, Florida, October 7-8, 2010.
491. K.G. Furton, Which Nose Knows?, “Lessons Learned When Chemistry Goes to the Dogs”, Invited Keynote Lecture for the Twelfth Annual Chemistry Graduate Symposium, Wayne State University, Detroit, Michigan, October 9, 2010.
492. K.G. Furton, Recent Developments in Identifying Forensic Odorants Utilizing SPME Instrumental Detection and Canine Field Trials, Invited speaker at Supelco/Sigma-Aldrich Seminar on “Innovations in Chromatography and Sample Prep” Miramar, FL, November 9, 2010.

- 493. K.G. Furton, Technology vs. K9, Second Annual Amtrak Police K9 unit Conference, Miami, FL, November 16-19, 2010.
- 494. P.A. Prada, G. Nevitt and K.G. Furton, A preliminary analysis of naturally occurring volatile organic compounds associated with nest-sites and feathers from Leach's storm-petrels, *Oceanodroma leucorhoa*, Society of Integrative and Comparative Biology, 2011 Annual Meeting, January 3-7, 2011.
- 495. K.G. Furton, Chemistry of Scent: Chemistry of Scent Narcotics, Currency, Explosives and Persons. California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2011. Invited instructor for two 2-hour sessions.
- 496. N.I. Caraballo, H. Holness, D. Mills and K.G. Furton, Evaluation of the Scent Transfer Unit (STU-100) for the Collection of Human Odor from Porous Objects, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
- 497. J.S. Wirks-Brown and K.G. Furton, Comparison of the Instrumental and Canine Evaluations of the Chemical Composition of Biological Specimens for Human Scent Discrimination, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
- 498. K. Beltz and K.G. Furton, Validation of a Prototype Surrogate Explosives Kit as a Tool for the Enhancement of Explosive Detection Canine Training, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
- 499. K.G. Furton and J. Greb, Update on the Adoption of the Scientific Working Group on Dog and Orthogonal Detector Guidelines (SWGDOG), 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
- 500. P.A. Prada, A.M. Curran and K.G. Furton, Evaluation of the Operational Parameters of a Non-Contact Airflow Dynamic Device for Collection of Scent Trace Evidence, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
- 501. K. G. Furton, Lowering Detection Limits and Raising Reliability of K9 Teams with Optimized Training Aids and Combinations, Invited speaker at the UKLEADS 9th International Symposium on Detector Dogs, Moreton-in-Marsh, U.K., February 28 - March 2, 2011.
- 502. K. Beltz and K.G. Furton, Selection of the Optimal Containment Vessel for the Storage of Explosives Training Aids, PittCon 2011, Atlanta, GA March 13-18, 2011.
- 503. J. Wirks-Brown and K.G. Furton, Analysis of Hand Odor Utilizing Various Extraction Techniques to Provide a Comprehensive Assessment of Volatile Components, PittCon 2011, Atlanta, GA March 13-18, 2011.
- 504. K.G. Furton, C. Sanchez, K. Beltz, J. Brown, N. Iris Caraballo, Rapid Field Detection of Forensic Odorants Using Biological and Orthogonal Detectors, Invited paper for Session 820 - Forensic Analysis at the Crime Scene and in the Lab arranged by I.K. Lednev, PittCon 2011, Atlanta, GA March 13-18, 2011.

- 505. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 11th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Tampa, FL, 3/20/11 – 3/23/11.
- 506. N.I. Caraballo, H.K. Holness, D.K. Mills and K.G. Furton, Evaluation of the Scent Transfer UnitTM (STU-100) for the Collection of Human Odor from Porous Objects, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 29, 2011. Ms. Caraballo won 1st Place in the Forensics and Crime Poster Session.
- 507. J.S. Wirks-Brown and K.G. Furton, Comparison of the Instrumental and Canine Evaluations of the Chemical Composition of Biological Specimens for Human Scent Discrimination, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 29, 2011. Mrs. Wirks-Brown won 2nd Place in the Forensics and Crime Poster Session.
- 508. K. Beltz and K.G. Furton, Validation of a Prototype Surrogate Explosives Kit as a Tool for the Enhancement of Explosive Detection Canine Training, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 29, 2011. Ms. Beltz won 1st Place in the Forensics and Crime Oral Presentation Session.
- 509. K.G. Furton, Improved detection of drugs, explosives, humans and human remains through research and adoption of best practices, Invited keynote speaker at the Washington State Police Canine Association 2011 Spring Seminar, Provided 6 hours of class lecture. Kirkland, WA, April 18-20, 2011.
- 510. P.A. Prada, K.G. Furton and G. Nevitt, Testing the Ability of Birds to Detect Explosive Odorants: Comparison with Canine Abilities and Instruments, The 11th Annual Intelligence Community Postdoctoral Research Fellowship, Colloquium Tysons Corner, VA, April 2011.
- 511. A. Miziolek, M. Martin, K.G. Furton, G. Borghi, J. Lewoczko, J. Almirall, Special Panel Discussion, LIBS in the Courtroom: Recent Examples and Future Potential, 3rd North American Symposium on Laser-Induced Breakdown Spectroscopy, Clearwater Beach, FL, July 18-20, 2011.
- 512. K.G. Furton, Improving canine consistency by employing field calibrants and international best practices, Penn Vet International Working Dog Conference, Pearl River, NY, September 7-9, 2011.
- 513. K.G. Furton, Admission of Novel Forensic Evidence in Capital Murder Trials, School of Integrated Science and Humanity Lecture at LaGorce Country Club, October 28, 2011.
- 514. K. G. Furton, Improving Canine and Instrument Reliability By Employing Field Calibrants and International Best Practices, invited presentation at FLIR, Stillwater, Oklahoma, September 28, 2011.
- 515. K.G. Furton, The Arts & Science of Forensic Science, Tools for Success STEM Lecture Series, Miami-Dade College – Kendall Campus, November 30, 2011.
- 516. K.G. Furton, Update on SWGDOG, Scientific Working Groups / Interagency Working Groups Meeting, Washington, DC, December 7-8, 2011.

517. K.G. Furton, Chemistry of Scent: Chemistry of Scent Narcotics, Currency, Explosives and Persons. 21st Annual CNCA Narcotic, Explosive and Patrol K9 Handler Conference, California, January 8-12, 2012. Invited instructor for two 2-hour sessions.
518. P.A. Prada, K.G. Furton and G. Nevitt, First Demonstration that Procellariiforms can Smell Plastic: The Good, The Bad and the Implications, The 39th Annual Pacific Seabird Group Meeting (PSG), Haleiwa, HI February 7-10, 2012
519. P.A. Prada, C.L. Sánchez, T.O'Dwyer, K.G. Furton and G. Nevitt, What the Nose Knows Best: Volatiles from Feathers and Nest Soil as Potential Individual Odor Signatures in Two Distinct Petrel Species, The 39th Annual Pacific Seabird Group Meeting (PSG), Haleiwa, HI February 7-10, 2012.
520. K.G. Furton, The Arts & Science of Forensic Science, Tools for Success STEM Lecture Series, Miami-Dade College – Wolfson Campus, February 15, 2012.
521. L.K. Baden, K. G. Furton, H.M. Pitluck, J.A. Baez, Timothy T.E. Huntington, K.J. Reichs, J.H. Bock, L. Koblinsky, W. Spitz, A.B. Falsetti and B.K. Logan, The Casey Anthony Trial – From the Defense, Medical, and Scientific Viewpoint, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
522. K.Beltz; K.G. Furton, The Effects of Containment System Selection for the Storage of Surrogate Continuation Aids, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
523. J.S. Brown, and K.G. Furton, The Use of Canine Field Testing to Optimize the Operating Parameters of a Non-Contact Collection Device for Human Scent, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
524. C.L. Sanchez, P.A. Prada and K.G. Furton, Avian Olfaction in Forensic Context: A Preliminary Analysis of Naturally Occurring Volatile Organic Compounds Associated With Feathers From Procellariiforms, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
525. J. Greb and K.G. Furton, SWGDOG and ICODD: Latest Dog and Orthogonal Detector Best Practices and Development of an Accreditation Program, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
526. P.A. Prada, G.Nevitt and K.G. Furton, Testing the Ability of Birds to Detect Forensic Odorants: Comparison With Canine Abilities and Instruments, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
527. N.I. Caraballo; K.G. Furton, Frozen-Thawed vs. Freshly Killed: A Comparison of the Volatile Organic Compounds Detected From Decomposing Remains, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012. Ms. Caraballo won 2012 Forensic Sciences Foundation Student Scholarship Award Competition.
528. M. Cerreta, A. Kabir and K.G. Furton, The Optimization of a Sol Solution for Its Use With Molecular Imprinting for the Extraction of Illicit Drugs, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.

- 529. N.I. Caraballo and K.G. Furton, Frozen-Thawed vs. Freshly Killed: A Comparison of the Volatile Organic Compounds Detected From Decomposing Remains, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, February 27, 2012.
- 530. K. Beltz and K.G. Furton, The Effects of Containment System Selection on the Storage of Surrogate Continuation Aids, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, February 27, 2012. Ms. Beltz won 2nd Place in the Forensics and Crime Poster Session.
- 531. J. Brown and K.G. Furton, The Use of Canine Field Testing to Optimize the Operating Parameters of a Non-Contact Collection Device for Human Scent, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, February 27, 2012.
- 532. M. Cerreta and K.G. Furton, The Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, February 27, 2012.
- 533. K.G. Furton, Testifying in the Shadows of Death: A Compelling Narrative Supported by Solid Evidence, FIU – Fisher Island Lecture Series, Fisher Island, Miami, Florida, February 28, 2012.
- 534. K.G. Furton, Testifying in the Shadow of Death: A Compelling Narrative Supported by Solid Evidence, Center for the Humanities in an Urban Environment Fisher Island Lecture Series, Fisher Island, Florida, February 28, 2012.
- 535. K.G. Furton, Casey Anthony: Forensics on Trial, Admissibility of Novel Scientific Evidence, Annual Forensic Science Symposium, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
- 536. K. Beltz and K.G. Furton, Improvement of Detection Canine Training: Validation of a Prototype Surrogate Explosives Kit, Annual Forensic Science Symposium, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
- 537. V. Shellman, N.I. Caraballo, J.S. Brown, A.Kabir and K G. Furton, Headspace Solid-Phase Micro Extraction Coupled to Gas Chromatography/Mass Spectrometry (HS-SPME-GC/MS) for the Detection of Caffeine in Cocaine, an Over the Counter (OTC) Medicine and a Coffee Sample, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
- 538. N.I. Caraballo and K.G. Furton, Method Optimization for the Detection of Volatile Organic Compounds from Decomposing Remains, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
- 539. M. Cerreta, A. Kabir, K.G. Furton, Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, Annual Forensic Science Symposium, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
- 540. P. Davis and K.G. Furton, Advancement in the Qualitative and Quantitative Analysis of Volatile Organic Compounds found in Human Breath and Blood for Medical and Forensic Purposes Using SPME-GC-MS, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.

541. A.A. McKenzie Coe; J.S. Brown, N.I. Caraballo, A. Kabir and K.G. Furton, Identification and Comparison of Volatile Organic Compounds in Cigarettes and Marijuana Samples using Solid Phase Microextraction and Gas Chromatography/Mass Spectrometry (SPME-GC/MS), 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
542. C. Sanchez, P. Prada and K.G. Furton, Avian Olfaction in Forensic Context: A Preliminary Analysis of Naturally Occurring Volatile Organic Compounds Associated With Feathers from Procellariiforms, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
543. M. Cerreta, A. Kabir and K.G. Furton, The Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, PittCon 2012, Orlando, Florida, March 11-15, 2012.
544. K.G. Furton, Collection and Analysis of Human Scent as Forensic Evidence from Crime Scenes, PittCon 2012, Orlando, Florida, March 11-15, 2012.
545. K. Beltz and Kenneth G Furton, Improvement of Detection Canine Training: Validation of a Prototype Surrogate Explosives Kit, PittCon 2012, Orlando, Florida, March 11-15, 2012.
546. N.I. Caraballo and Kenneth G Furton, Method Optimization for the Detection of Volatile Organic Compounds from Decomposing Remains, PittCon 2012, Orlando, Florida, March 11-15, 2012.
547. K.G. Furton, N.I. Caraballo, J.S. Brown and L. DeGreeff, Advances in the Field and Laboratory Detection of Human Remains, PittCon 2012, Orlando, Florida, March 11-15, 2012.
548. C.L. Sanchez, Paola A Prada, Kenneth G Furton, Gabrielle Nevitt, A Preliminary Analysis Linking Avian Olfaction to Potential Forensic Applications, PittCon 2012, Orlando, Florida, March 11-15, 2012.
549. K.G. Furton, Importance of mentors and graduate school on future career options and decision, Keynote address for McNair Fellows Induction Ceremony, Florida International University, Miami, Florida, March 23, 2012.
550. K.G. Furton, Death Penalty Symposium: Forensic Evidence and the Death Penalty, Department of Religious Studies, Florida International University, April 12, 2012.
551. K.G. Furton, CSI: Crime and Science, Invited speaker at the Third Annual Food for Talk, Miami Beach, April 19, 2012.
552. K.G. Furton, J.S. Brown, N.I. Carabalo, K. Beltz and L. DeGreeff, Optimization of Canine Human Scent Detection and Improving Canine Performance and Consistency by Employing Field Calibrants, Invited moderator for "Human Factors" session, Caine Science and Technology Forum, Imperial College, London, UK, April 26-27, 2012.
553. K.G. Furton, N.I. Caraballo, J.S. Brown, L. DeGreeff, Advances in the Field and Laboratory Detection of Live Scent and Human Remains: From the Crime Scene to the Courtroom, 88th Annual Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 17-19, 2012.

- 554. M. Cerreta, A. Kabir, K.G. Furton, The Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, 88th Annual Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 17-19, 2012.
- 555. J.S. Brown, K.G. Furton, Exploring Human Scent with Instruments and Canines, 88th Annual Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 17-19, 2012.
- 556. E. Brewe, K.G. Furton and L. Kramer, Physics Modeling Instruction (selected as a SMTI promising practice), APLU's 2012 Science and Mathematics Teacher Imperative National Conference, Old Town Alexandria, VA, June 6 – 8, 2012.
- 557. K.G. Furton, Latest Canine Research at FIU, invited update talk at USARO R&D Symposium, Raleigh, NC, June 19, 2012.
- 558. P.A.Prada, K.G. Furton, G. Nevitt, Olfactory Evidence: A New Era for Odor Profiling in Birds, XVI International Symposium on Olfaction and Taste (ISOT), Stockholm, Sweden, June 23-26, 2012.
- 559. K.G. Furton, Human Scent Tracking, What Odor Are You Following?, Invited instructor at the 6th Annual Handler Instruction & Training Seminar (HITS 2012), Seattle, WA, August 21-24, 2012.
- 560. K.G. Furton, Pseudo vs Real Drug Odor, Which to Train With?, Invited instructor at the 6th Annual Handler Instruction & Training Seminar (HITS 2012), Seattle, WA, August 21-24, 2012.
- 561. P.A. Prada, K.G. Furton and G. Nevitt, Detection of Explosive Analog Odors by Birds, 12th Annual Intelligence Community Postdoctoral Research Fellowship Annual Project Update, Washington DC, September 24-26, 2012.
- 562. K.G. Furton, Update on SWGDOG, An invited attendee to help develop SWG bylaws, Scientific Working Groups / Interagency Working Groups Meeting, Washington, DC, October 16-18, 2012.
- 563. J. Hildreth, K.G.Furton and J. Agro, How a Dog Can Be Your Star Witness in Your Forfeiture Case!, invited speaker at Asset Forfeiture Conference, Batavia, NY, October 23, 2012.
- 564. E. Ray, N. Finkelstein, K.G. Furton, M.J. O'Hair and J.B. Presley, Improving STEM Teaching and Learning: Leveraging STEM Education Centers, 125th APLU Annual Meeting, Denver, CO, November 11-13, 2012.
- 565. K.G. Furton, Chemistry of Scent: Odor Signatures from Narcotics, Currency, Explosives and Persons. 21st Annual CNCA Narcotic, Explosive and Patrol K9 Handler Conference, Burbank, California, January 7-10, 2013. Invited instructor.
- 566. P.R. Davis, S. Rose, K.G. Furton, An Investigation into Volatile Organic Compounds that Have the Potential to Cause False Positives in Blood Alcohol Analysis, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
- 567. K.G. Furton, J. Greb. Enhancing Canine Performance through Improved Training Materials and Adoption of International Best Practices (SWGDOG and ICODD), 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.

568. K. Beltz, M. Cerreta, K.G. Furton, The Development of Field Calibrants for Detection Canines, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
569. L.J. Colon-Crespo, J.S. Brown, N.I. Caraballo, K.G. Furton, Advances in the Forensic Use of Human Scent, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
570. N.I. Caraballo and K.G. Furton, An Investigation Into the Volatile Organic Compounds Released From Submerged Remains, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013. Ms. Caraballo won the Forensic Sciences Foundation (FSF) Student Travel Grant 2013.
571. K.G. Furton, Advances in the Sampling and Identification of Illicit Substances and Persons in the Field and in the Lab, The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Philadelphia, Pennsylvania, March 17-21, 2013.
572. C.L. Sanchez, H. Holness, P.A. Prada, K.G. Furton, Analysis of Volatile Organic Compounds of Heroin for Canine Detection by Using Solid Phase Microextraction/Gas Chromatography-Mass Spectrometry (SPME/GC-MS), 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.
573. K. Beltz, M. Cerreta, K.G. Furton, The Development of Field Calibrants for Detection Canines, 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.
574. N.I. Caraballo and K.G. Furton, Submerged Remains: A Study on the Scent of Death, 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.
575. N.I. Caraballo and K.G. Furton, An Investigation Into the Volatile Organic Compounds Released From Submerged Remains, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 25-26, 2013. Ms. Caraballo won 1st Place in the Forensics and Crime Oral Presentation Session.
576. N.I. Caraballo and K.G. Furton, An Investigation Into the Volatile Organic Compounds Released From Submerged Remains, Florida Statewide Graduate Student Research Symposium, University of South Florida, Tampa, Florida, April 19, 2013.
577. N.I. Caraballo and K.G. Furton, Scent of the Living and the Dead: Its Application in Criminal Investigations, Invited Speaker at the Contemporary Methods of Forensic Anthropology and Crime Scene Investigation Course, Broward Sheriff's Office, Fort Lauderdale, Florida, April 29-May 3, 2013.
578. K.G. Furton, Canine Odor Recognition: Odor on Currency and Understanding Double Blind Testing, Invited speaker at 15th Annual Detection K9 Conference, Bend, Oregon, May 13-17, 2013.
579. K.G. Furton, Chemistry of Scent: Chemistry of Scent Narcotics, Currency, Explosives and Persons. California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 27-30, 2014. Invited instructor.

580. L.J. Colon-Crespo, D. Herrera-Hernández; H. Holness, A. Kabir, K.G. Furton, A. Fan, L. Du-Thumm, Evaluation of Human Scent As Possible Classification Evidence, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
581. R. Mesa, A. Kabir, K.G. Furton, Analysis of Trace Organics at Parts-per-Trillion Level Concentrations Using a Novel Sample Preparation Technique: Fabric Phase Sorptive Extraction, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
582. A.M. Huertas, C.L. Sanchez, K.G. Furton, Evaluation of the Volatiles Organic Compounds Released From an Illicit Substance for the Development of Improved Field Calibrants for Instrumental and Canine Detection, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
583. M. Cerreta, K.G. Furton, Detection Canine Field Accuracy to Flowers Producing Methyl Benzoate (A Cocaine Odorant), 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
584. P.R. Davis, A. Kabir, K.G. Furton, Development of an Improved Extraction and Analysis Technique for Human Scent Evidence Analysis, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
585. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Use of Human Scent as a Classification Tool for Individuals, Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 8 - May 10, 2014.
586. Herrera-Hernández, D.; Colón-Crespo, L.J.; Holness, H.; Furton, K.G.; Fan, A.; Du-Thumm, L., Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction Methods, Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 8 - May 10, 2014.
587. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Evaluation of Human Scent As Possible Classification Evidence, 3rd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, April 30 - May 1, 2014.
588. Herrera-Hernández, D.; Colón-Crespo, L.J.; Holness, H.; Furton, K.G.; Fan, A.; Du-Thumm, L., Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction Methods, 3rd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, April 30 - May 1, 2014.
589. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Evaluation of Human Scent As Possible Classification Evidence, Graduate Student Appreciation Week's (GSAW) Scholarly Forum, Florida International University, Miami, Florida, March 31 - April 1, 2014.
590. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Evaluation of Human Scent As Possible Classification Evidence, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.

591. Herrera-Hernández, D.; Colón-Crespo, L.J.; Holness, H.; Furton, K.G.; Fan, A.; Du-Thumm, L., Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction Methods, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
592. Colón-Crespo, L.J.; Brown, J.S.; Caraballo, N.I.; Furton, K.G., Advances in the Forensic Use of Human Scent, 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.
593. Colón-Crespo, L.J.; Brown, J.S.; Caraballo, N.I.; Furton, K.G., Advances in the Forensic Use of Human Scent, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
594. K.G. Furton, J. Greb, The Scientific Working Group on Dog and Orthogonal Detector Guidelines (SWGDOG), 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
595. V. Shellman, H. Holness, and K.G. Furton, An Assessment of Different Extraction Techniques for the Detection of Volatile Organic Compounds from Synthetic Cathinone Derivatives, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
596. D. Herrera-Hernández, L.J. Colón-Crespo, H. Holness, K.G. Furton, A. Fan, .D. 2, and L. Du-Thumm, Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction, Methods, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
597. Kenneth G. Furton, Norma Iris Caraballo, Lauren Colon, Adhly Huertas, Michelle Cerreta, Rodolfo Messa and Abuzar Kabir, Development of new extraction and analysis methods for the rapid detection of characteristic chemicals from humans and contraband materials, Pittcon 2014, Chicago, Illinois, March 2-6, 2014.
598. Ekaterina Halivelakis, Michelle Cerreta, and Kenneth G. Furton, The Creation of Novel, Polymer-based Training Aids for Odor Dissipation Manipulation, Poster Presentation at the Florida Annual Meeting and Exposition, May 2014.
599. Michelle Cerreta and Kenneth G. Furton, An Assessment of Field Accuracy of detection Canines Using Flowers that produce the Same Odorant as Cocaine
Poster Presentation at the Florida Annual Meeting and Exposition, May 2014
600. Michelle Cerreta and Kenneth G. Furton, An Assessment of Field Accuracy of detection Canines Using Flowers that produce the Same Odorant as Cocaine
Poster Presentation at the Annual IFRI Forensic Science Symposium, May 2014
601. Kenneth G. Furton, Development of Novel Sampling and Detection Methods for Identifying Forensic Odorants Including the use of Dogs, Birds and Elephants, DHS Science and Technology Workshop, Raleigh North Carolina, July 29, 2014.

602. N. Fontanals, S. Lakade, A. Kabir, K.G. Furton, R.M. Marce, F. Borrull. Fabric Phase Sorptive Extraction: A New Direction in Enriching Polar Emerging Contaminants from Environmental Samples. 14th Instrumental Analysis Conference, Barcelona, Spain, October 1-3, 2014.
603. Kenneth G. Furton, Chemistry of Scent: Narcotics, Currency, Explosives and Persons, California Narcotics Canine Association, Burbank California, January 2015
604. Kenneth G. Furton, Advances in Analytical Chemistry Odor as Evidence, Royal Society of Chemistry Paradigm Shift in Forensic Science, UK February 2, 2015
605. Claudia L. Sanchez, BA*; Adhly M. Huertas, BSc; Paola A. Prada, PhD; Kenneth G. Furton, PhD , A Static Collection Approach for Target Explosive Analog Odors , Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
606. Adhly M. Huertas, , BSc*; Kenneth G. Furton, PhD Illicit Substance Volatile Organic Compounds (VOCs) Analysis for Canine Detection, Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
607. Abuzar Kabir, PhD; Rodolfo Mesa*; Kenneth G. Furton, PhD, Fabric Phase Sorptive Extraction Media: A Highly Effective Forensic Sample Collection and Storage Device, Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
608. Alison Simon*; Julian L. Mendel, MSc; Kenneth G. Furton, PhD; DeEtta Mills, PhD ,An Assessment of the Volatile Organic Compounds (VOCs) of an Agricultural Biothreat Agent, Raffaelea lauricola, and Training Aids for Canine Detection, Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
609. Huertas, Adhly, B.Sc and Furton Kenneth G, Ph.D. Illicit Substance Volatile Organic Compounds (VOCs) Analysis for Canine Detection. AAFS 67th Annual Scientific Meeting, Hyatt Regency Orlando, Orlando, FL. February 19, 2015.
610. Claudia L. Sanchez, B.A, Adhly M. Huertas, B.Sc, Paola A. Prada, PhD, Kenneth G. Furton, PhD. A Static Collection Approach for Target Explosive Analog Odors. AAFS 67th Annual Scientific Meeting, Hyatt Regency Orlando, Orlando, FL. February 19, 2015.
611. Kenneth G. Furton, Lauren Colon, Vanquilla Shellman, Michelle Cerreta, Rodolfo Messa and Abuzar Kabir, Development of Novel Forensic Sampling methods and Evaluation of Microextraction Data for the Identification and Classification of Forensic Specimens utilizing Gas Chromatography Mass Spectrometry, Presented by Howard Holness, Pittcon Conference and Exposition, New Orleans Louisiana, March 12, 2015.
612. Huertas, Adhly, B.Sc and Furton Kenneth G, Ph.D. Illicit Substance Volatile Organic Compounds (VOCs) Analysis for Canine Detection. GSAW Scholarly Forum, Florida International University, Miami, FL. April 6, 2015.
613. S. Montesdeoca-Esponda, R. Alonso-Guedes, Z. Sosa-Ferrera, A. Kabir, K.G. Furton, J.J. Santana-Rodriguez. Fabric Phase Sorptive Extraction (FPSE) followed by UHPLC for the Analysis of UV Stabilizers in Aqueous Samples from Gran Canaria Island (Spain). Society of Environmental Toxicology and Chemistry (SETAC) Europe 25th Annual Meeting, Barcelona, Spain, May 3-7, 2015.

614. Rodolfo Mesa, BSc, Abuzar Kabir, PhD, Kenneth G. Furton, PhD, Trace Analysis of Endocrine Disrupting Chemicals in Whole Milk using Fabric Phase Sorptive Extraction, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015
615. Abuzar Kabir, Rodolfo Mesa, Rayma Blanco, Manuel A. Bode, Namita Khajanchi, Kenneth G. Furton, FABRIC PHASES: UNIQUE SORPTIVE EXTRACTION MEDIA WITH DIVERSIFIED APPLICATIONS, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015
616. Abuzar Kabir, Rodolfo Mesa, Kenneth G. Furton, In Search of Advanced Materials for Sorptive Microextraction: A Facile SOL-GEL Synthesis Approach, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015
617. Rayma Blanco, Manuel A. Bode, Namita Khajanchi, Rodolfo Mesa, Abuzar Kabir, Kenneth G. Furton, Fabric Phase Sorptive Extraction: A Novel Approach for Field Sampling and in Situ Sample Preparation, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015
618. Massimo Del Bubba, Lorenzo Ciofi, Rayco Guedes-Alonso, Zoraida Sosa-Ferrera, José Juan Santana-Rodríguez, Abuzar Kabir, Kenneth G. Furton. Fabric Phase Sorptive Extraction (FPSE) Followed by UHPLC-MS/MS Analysis of Steroid Hormones in Biological and Environmental Samples. 21st International Symposium on Separation Science, Ljubljana, Slovenia, June 30-July 3, 2015.
619. R. Guedes-Alonso, L. Ciofi, M. Del Bubba, Z. Sosa-Ferrera, J.J. Santana-Rodríguez, A. Kabir, K.G. Furton. Determination of Steroid Hormones in Wastewaters by Using Fabric Phase Sorptive Extraction (FPSE) and Ultra-High Performance Liquid Chromatography Tandem Mass Spectrometry. 42nd International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2015), Geneva, Switzerland, June 21-25, 2015.
620. Evans, J.R., Schreiber Compo, N., Carol, R., Pimentel, P., Pena, M., Hoogesteyn, K., Powell, M., Holness, H., Furton, K., & Rose, S. The effects of alcohol intoxication on metamemory. Paper to be presented to the biannual meeting of the Society for Applied Research in Memory and Cognition, Victoria, BC, in June 2015.
621. Kenneth G. Furton, Chemistry of Scent Narcotics, Currency, Explosives and Persons, California Narcotics Canine Association, San Diego, California, January 25, 2016
622. Kenneth G. Furton, Innovative Science — How Advances in Technology Transform Forensic Science, Invited speaker on Interdisciplinary Panel, AAFS 68th Annual Scientific Meeting, Las Vegas, NV. February 23, 2016.
623. Abuzar Kabir, Rodolfo Mesa, Rayma Blanco, Kenneth G Furton, A Green Sample Preparation Device for Complex Biological, Environmental, Food, Pharmaceutical and Toxicological Samples, (Presented by Abuzar Kabir) Pittcon Conference and Exposition, Atlanta Georgia, March 6, 2016
624. Abuzar Kabir, Rayma Blanco, Rodolfo Mesa and Kenneth G. Furton, Microextraction Capsules: Integration of Extraction Sorbent, Filtering Medium, and Stirring Mechanism into One. (Oral Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL.

625. Schreiber Compo, N., Carol, R., Hoogesteyn, K., Evans, J.R., Holness, H., Furton, K. and Rose, S., Alcohol and witness memory, (Oral Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL.
626. Abuzar Kabir, Rayma Blanco, Rodolfo Mesa and Kenneth G. Furton, Microextraction Capsules: Integration of Extraction Sorbent, Filtering Medium, and Stirring Mechanism into One, (Poster Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL.
627. Rodolfo Mesa, BSc, Abuzar Kabir and Kenneth G. Furton, Direct Ultra-Trace Analysis of 5 Estrogenic Endocrine Disruptors and Bisphenol A from Whole Milk with Fabric Phase Sorptive Extraction, (Poster Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL
628. Rayma Blanco, Rodolfo Mesa, Abuzar Kabir and Kenneth G. Furton, Fabric Phase Sorptive Extraction: An Indispensable Tool for Food Forensics, (Poster Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL
629. Alison G. Simon, Julian Mendel, Kenneth G. Furton, and DeEtta Mills, CHEMICAL AND CANINE ANALYSIS AS COMPLIMENTARY TECHNIQUES FOR THE IDENTIFICATION OF ACTIVE ODORS IN AN INVASIVE PATHOGEN, RAFFAELEA LAURICOLA, National Conference on Ecosystem Restoration, April 18, 2016, Coral Springs, FL
630. K.G. Furton keynote address Integration of Colleges - Blurring the Lines of Education: Misfortune or Opportunity? Presented at the 15th Annual South Florida Education Research Conference June 4, 2016, Florida International University, BBC
631. A. Simon, D. Mills, K. Furton, Volatile Organic Compounds (VOCs) of an Invasive Fungus to the United States, Raffaelea lauricola, and Possible Effects on Commercial Avocado Groves, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on International Sciences Torun, Poland July 3-6, 2016 (Poster)
632. A. Simon, D. Mills, K. Furton, Chemical and Canine Analysis as Complimentary Techniques for the Identification of Active Odors in an Invasive Species in the USA, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on International Sciences Torun, Poland July 3-6, 2016 (Keynote Lecture)
633. K.G. Furton, Without a trace: Advances in forensic science detection and identification, Invited presentation at the Qindao Agricultural University China, September 18, 2016
634. H. K. Holness, L. J. Colon-Crespo, A. Huertas, V. Shellman, R. Mesa, A. Kabir and K. G. Furton, Pioneering uses of headspace analysis for the rapid identification of objects of forensic interest in the field, Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) - SciX Minneapolis, September 21, 2016
635. Kenneth G. Furton, The Chemistry of Forensics, Miami Dade College, Wolfson Campus, October 12, 2016.
636. Vanquilla L. Shellman, and Kenneth G. Furton, Optimal Headspace Extraction for the Detection of Volatile Organic Compounds (VOCs) Released From Synthetic Cathinones Using Solid-Phase Microextraction (SPME) for Field Application, AAFS February 2017, New Orleans

637. Alison Simon and Kenneth G. Furton, Greenhouse Evaluations of Volatile Plant Defense Against an Invasive Agricultural and Environmental Biothreat Agent, *Raffaelea lauricola*, and Possible Implications for Canine Detection, AAFS February 2017, New Orleans, LA
638. Alison Simon, and Kenneth G. Furton, Characterization of Controlled Odor Mimic Permeation Systems (COMPS) Containing Live Training Aids for Utilization by Detection Canines, AAFS February 2017, New Orleans
639. Kenneth G. Furton, Howard K. Holness, Alison Simon, Adhly Huertas, Vanquilla Shellman, Rodolfo Mesa, Abuzar Kabir, Discriminating Power of Volatiles from Forensic Specimens in the Field Using Innovative Sampling and Analysis, Pittcon 2017, Chicago, IL.
640. Vanquilla Shellman, Alison G. Simon, Alice Boone, Kenneth G. Furton, The Development and Understanding of Efficient Mimic Devices for Calibrating and Training Detection Canines for Forensic, Environmental, and Medical Use, International Working Dog Conference, April 2017, Banff Alberta Canada (Oral Presentation)
641. Alison G. Simon, DeEtta Mills, Kenneth G. Furton, Chemical and Canine Analysis as Complimentary Techniques for the Identification of Active Odors in an Invasive Agricultural Pest, International Working Dog Conference, April 2017, Banff Alberta Canada (Oral Presentation)
642. Alice B. Boone, Vanquilla Shellman, Alison G. Simon, Lauryn Degreeff, Kimberly Peranich, Howard K. Holness and Kenneth G. Furton, Utilization of Controlled Odor Mimic Devices to Improve law Enforcement Canine Training, International Working Dog Conference, April 2017, Banff Alberta Canada (Poster Presentation)
643. Lorenzo Ramirez, Alyssa Worrell, Collen Nelson¹, Spiro Kokolis, Tessa Seales, Bridget Stewart, Vanquilla Sherman, Philip Davis, Howard Holness, Kenneth Furton, Cynthia M. Otto, The Use of the Universal Detection Calibrant as a Scent Detection Training Tool, International Working Dog Conference, April 2017, Banff Alberta Canada (Poster Presentation)
644. Simon, A.; DeGreeff, L.; Peranich, K.; Furton, K. Evaluation of generalization – discrimination balance for detection canines, International Defence & Security Canine Conference, July 2017, Cirencester, UK (Oral Presentation).
645. Alice B. Boone, Howard Holness, Kenneth G. Furton, The Enhancement of Human Scent Profiles as Forensic Evidence, Presented at the American Academy of Forensic Sciences, Seattle Washington, February 2018
646. Chantrell Frazier, DeEtta K. Mills, Kenneth G. Furton, Advanced Human Scent Identification: A cross-disciplinary study using SPME-GC/MS VOC analysis and Next Generation DNA sequencing techniques for increasing the probative value of human scent evidence, Presented at the American Academy of Forensic Sciences, Seattle Washington, February 2018, IUCRC special session
647. Kelvin J. Frank, Jr, and Kenneth G. Furton, Optimal Headspace Extraction for the Detection of Volatile Organic Compounds (VOCs) Released From Triacetone Triperoxide (TATP) Using Solid-Phase Microextraction (SPME), Presented at the American Academy of Forensic Sciences, Seattle Washington, February 2018

- 648. Kenneth G. Furton, Culture Shift when online becomes the largest campus, March 8, 2018, Tel Aviv University (Keynote address)
- 649. Kenneth G. Furton, 4IRU – The Next Generation Global Social Innovation University, International Career & Counseling Conference (IC3) Presidential Forum, August 28th, 2018, New Delhi, India, (Keynote address)
- 650. Chantrell Frazier, DeEtta Kay Mills, and Kenneth G. Furton, Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing. Presented at SCIX 2018, Atlanta Georgia, October 2018: [Awarded 2nd place for best student poster by the Federation of Analytical Chemistry and Spectroscopy Society (FACSS)]
- 651. Chantrell Frazier, DeEtta Kay Mills and Dr. Kenneth G. Furton, Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC Analyses and Length Heterogeneity PCR, Presented at the Florida International University Biosymposium, February 2, 2019 (Awarded 1st Place for Best Poster)
- 652. Isis Artze-Vega, Kenneth Furton & Meredith Newman, Faculty Co-Led, University-wide Redesign of Teaching Evaluation presented at the 2019 Academic Affairs Winter Meeting, February 8, 2019, Amelia Island, Florida
- 653. Kelvin Frank, Rodolfo Mesa and Kenneth G. Furton, The Determination of a Canine Olfactory Detection Threshold Using a Universal Detection Calibrant (UDC), presented at the 71st American Academy of Forensic Sciences (AAFS) 2019 conference, February 21, 2019, Baltimore, Maryland
- 654. Chantrell Frazier, DeEtta Kay Mills and Kenneth G. Furton Human Scent Forensics: A Cross-Disciplinary Study Using HS-SPME-GCMS VOC Analyses and Length Heterogeneity PCR, presented at the Pittcon 2019 conference, March 19, 2019 in Philadelphia, Pennsylvania
- 655. Alice Boone, Howard Holness and Kenneth G Furton, The Enhancement of Human Scent Profiles as Forensic Evidence, presented at the Pittcon 2019 conference, March 19, 2019 in Philadelphia, Pennsylvania
- 656. Kenneth G. Furton, The Next Gen Global Innovation University, Cargo Network Services (CNS) Partnership Conference, Miami Florida, May 6, 2019
- 657. Yeilin Caballero, Rodolfo Mesa, Kenneth G. Furton, HS-SPME-GC-MS COMPARISON OF VOLATILE ORGANIC COMPOUNDS OF HEALTHY VS RAFFAELEA LAURICOLA INFECTED AVOCADO TREES FOR ADVANCED CANINE RECOGNITION TRAINING, presented at the 95th Florida Annual Meeting and Exposition (FAME) conference, May 8, 2019
- 658. Kelvin Frank, Alison G Simon, Kimberly Peranich, Howard Holness, Kenneth Furton, Lauryn DeGreeff, A method for controlled odor delivery in canine olfactory testing, presented at the 11th International Working Dog Conference, September 3, 2019 in Stockholm, Sweden
- 659. Kenneth G. Furton, Transforming student success through global engagement and innovative learning platforms, Invited Keynote speaker at annual meeting of the China Association of Higher Education, Lanzhou, China, October 11-13, 2019

- 660. Alice B. Boone, Kenneth G. Furton, Howard K. Holness, The Enhancement of Human Scent Profiles as Forensic Evidence, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California
- 661. Chantrell Frazier, Kenneth G. Furton, DeEtta Mills, PhD, Forensic Identification: An Investigation to Corroborate Volatile and Biological Profiles for Subject Identification, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California
- 662. Leann Forte, Kenneth G. Furton, Optimal Extraction of Fentanyl Volatile Organic Compounds (VOCs) for the Development of Canine Training Aid Mimics, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California
- 663. Kelvin J. Frank, Jr., Kenneth G. Furton, The Detection of Volatile Organic Compounds (VOCs) Released From Mass Storage Devices Utilizing Headspace/Solid-Phase Microextraction (HS/SPME) and Its Implications for Canine Training and Contraband Detection, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California
- 664. Vidia A. Gokool, Howard K. Holness, Kenneth G. Furton, Human Scent Biometrics: Paving a Path Toward Improved Data Analysis, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 21, 2020, Anaheim California
- 665. Kenneth G. Furton, Changemaking in times of crisis: How can higher education become more resilient, impactful, and innovative?, Times Higher Education Education World Academic Summit Panelist - August 27, 2020, Virtual Conference
- 666. Kenneth G. Furton, Repopulating Campus: Protecting the Safety and Health of Students Around the Globe in the Age of Pandemics with Smart Dashboards, Hc1 Precision Medicine presentation, November 2, 2020, Virtual Conference
- 667. Lauryn Degreeff, Stephanie Vaughan, Leann Forte, Howard K. Holness, Kenneth G. Furton, A Characterization of the Vapor Profiles of Fentanyl and Synthetic Opioids for Instrumental and Canine Detection, presented at the 73rd American Academy of Forensic Sciences (AAFS) 2021 conference, February 17, 2021, Virtual Conference
- 668. Leann Forte, Kenneth G. Furton, Lauryn Degreeff, The Effects of Degradative Stress on Vapor Analysis of Fentanyl, presented at the 73rd American Academy of Forensic Sciences (AAFS) 2021 conference, February 18, 2021, Virtual Conference
- 669. Janet M. Crespo Cajigas, Christopher J. Katilie, Abuzar Kabir, Lauryn Degreeff, Kenneth G. Furton, A Vapochromic Colorimetric Sensor for the Cross-Contamination of Volatile organic Compounds (VOCs), presented at the 73rd American Academy of Forensic Sciences (AAFS) 2021 conference, February 18, 2021, Virtual Conference
- 670. Kelvin Frank and Kenneth G. Furton, Differentiation of Marijuana and Hemp using Canines, presented at the 12th International Working Dog Conference (IWDC) October 12 to 14, 2021, Virtual Conference
- 671. Kelvin Frank and Kenneth G. Furton, The detection of Volatile Organic Compounds released from Mass Storage Devices utilizing Headspace Solid-phase microextraction and its implications

- for canine training, presented at the 12th International Working Dog Conference (IWDC) October 12 to 14, 2021, Virtual Conference
672. Kenneth G. Furton, Kelvin Frank, Julian Mendel, Howard K. Holness, and DeEtta K. Mills, Preliminary Accuracy of COVID-19 odor detection by canines, presented at the 12th International Working Dog Conference (IWDC) October 12 to 14, 2021, Virtual Conference
673. Paola Prada-Tiedemann, PhD*; Kenneth Furton, PhD; Suzanne Perry; Cynthia Otto, PhD, Taking a Sniff Ahead: Updates on the Development of National Standards for Canine Detection Applications, presented at the 74th American Academy of Forensic Sciences (AAFS) 2022 conference, February 21, 2022, Seattle Washington
674. Leann Forte, BS*; Stephanie Vaughan, PhD; Ashley Fulton, PhD; Lauryn DeGreeff, PhD; Howard K. Holness, PhD; Kenneth G. Furton, PhD, The Effects of Degradative Stress on the Headspace Profile of Fentanyl, presented at the 74th American Academy of Forensic Sciences (AAFS) 2022 conference, February 21, 2022, Seattle Washington
675. Vidia A. Gokool, MS*; Howard K. Holness, PhD; Kenneth G. Furton, PhD, Human Scent Biometrics: A Pilot Study in Source-Origin Determination, presented at the 74th American Academy of Forensic Sciences (AAFS) 2022 conference, February 21, 2022, Seattle Washington
676. Frazier, C; Gokool, V*; Holness, H; Mills, DE; Furton, KG. Multivariate Regression Modelling for Gender Prediction Using Volatile Organic Compounds from Hand Odor Profiles via HS-SPME-GCMS. The Annual Visitation Day Poster Presentation, Florida International University, Miami, FL, March 11, 2022.
677. DeGreeff, L.; Furton, K. G.; Gokool, V. A.; Boone, A.; Crespo-Cajigas, J.; Advances in the Use of Human Scent as a Classifier, Identifier, and Marker of Disease. Forensic Olfactronics Workshop, Prague, Czech Republic, 2022
678. Emma R. Calabrese, Stephanie R. Vaughan, Kenneth G. Furton, Lauryn E. DeGreeff, Impact of Soil Adsorption on Vapor Transport of Buried TNT-Based Explosives: Experimental Design and Preliminary Results (oral presentation) Trace Explosive Detection Workshop (TED), New Orleans, Louisiana, May 12th, 2022
679. Gokool, V*; Holness, H; Furton, KG. Human Scent Biometrics: A Pilot Study in Source-Origin Determination. GFJC 11th Annual Forensic Science Symposium, Virtual, June 6-10, 2022.
680. Frazier, C; Gokool, V*; Holness, H; Mills, DE; Furton, KG. Multivariate Regression Modelling for Gender Prediction Using Volatile Organic Compounds from Hand Odor Profiles via HS-SPME-GCMS. Center for Advanced Research in Forensic Science (CARFS) 10th Industry Advisory Board (IAB) Meeting, Lawrence Livermore National Laboratory (LLNL), Livermore, CA, June 16, 2022.
681. Crespo-Cajigas, J.; Abuzar, K.; DeGreeff, L; Furton, K. G. Development of a Paper-based Sol-Gel Vapochromic Sensor for the Detection of VOC Cross-Contamination within Canine Training Aid Kits. Global Forensic and Justice Center (GFJC) 11th Symposium, 2022, June 6-10th, 2022 – Poster Presentation

- 682. Crespo-Cajigas, J*; Gokool, V*; Holness, H; Furton, KG. Investigating the use of Covid-19 odor expression as a non-invasive diagnostic tool. Southeastern Regional Meeting American Chemical Society, October 20, 2022
- 683. Emma R. Calabrese, Howard H. Holness, Kenneth G. Furton, Lauryn E. DeGreeff, Influence of Soil Composition on the Release of VOCs from Buried Explosives (poster presentation), Southeastern Regional Meeting for American Chemical Society (SERMACS), San Juan, Puerto Rico, October 20th, 2022
- 684. Crespo-Cajigas, J.; Gokool, V. A.; Holness, H. K.; Johnson, A.T.C.; Furton, K. G. Investigating The Use Of COVID-19 Odor Expression As A Non-Invasive Diagnostic Tool. Southeastern Regional Meeting of the American Chemical Society (SERMACS), San Juan, PR, 2022 October 20th, 2022 – Poster Presentation
- 685. Gokool, V*; Holness, HK; Furton, KG. Influence of intra-personal variations in human hand odor on the determination of sample donor. Southeastern Regional Meeting American Chemical Society, October 21, 2022
- 686. Forte, Leann; Vaughan Stephanie; DeGreeff, Lauryn; Holness, Howard; Furton, Kenneth G Effects of Degradative Stress on the Headspace Profile of Fentanyl Southeastern Regional Meeting of the American Chemical Society, San Juan, Puerto Rico, October 19-23, 2022
- 687. Crespo-Cajigas, J.; Holness, H. K.; Furton, K. G. Geographical Sourcing of Marijuana: An Untargeted HS-SPME-GC-MS Approach. Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS), San Juan, PR, 2022 October 28th, 2022 – Oral Presentation
- 688. Janet Crespo Cajigas, MS*; Howard Holness, PhD; Lauryn DeGreeff, PhD; Kenneth Furton, PhD, An HS/SPME-GC/MS Analysis of Terpenes and Cannabinoids for the Geographical Sourcing of Marijuana Using Multivariable Data Analysis, 75th American Academy of Forensic Sciences (AAFS) 2023 conference, February 13-18 2023, Orlando, Florida
- 689. Frazier, C; Gokool, V*; Holness, H; Mills, DE; Furton, KG. Multivariate Regression Modelling for Gender Prediction Using Volatile Organic Compounds from Hand Odor Profiles via HS-SPME-GCMS. American Academy of Forensic Sciences- Center for Advanced Research in Forensic Science Reception, Orlando, FL, February 15, 2023
- 690. Vidia Gokool, MS*; Chantrell Frazier, DPhil; Howard Holness, PhD; Kenneth Furton, PhD, An Instrument-Based Approach to the Use of Human Scent as a Biometric, 75th American Academy of Forensic Sciences (AAFS) 2023 conference, February 13-18 2023, Orlando, Florida
- 691. Kelvin Frank, Jr., MSFS; Howard Holness, PhD; Suzanne Perry, Paola Prada-Tiedemann, PhD; Kenneth Furton, PhD*, Standardization of Dogs and Sensors: Update on Current and Planned Standard of the Dogs and Sensors ASB Consensus Body, 75th American Academy of Forensic Sciences (AAFS) 2023 conference, February 13-18 2023, Orlando, Florida
- 692. Leann Forte, MS*; Howard Holness, PhD; Kenneth Furton, PhD; Lauryn DeGreeff, PhD, The Development of a Safe Canine Training Aid Mimic for Fentanyl, 75th American Academy of Forensic Sciences (AAFS) 2023 conference, February 13-18 2023, Orlando, Florida

693. Emma R. Calabrese, Kenneth G. Furton, Lauryn E. DeGreeff, Role of Adsorption on the Detectability of Contained Explosives and Drugs (poster and oral presentation), American Academy of Forensic Sciences, Orlando, Florida, February 16th, 2023
694. Crespo-Cajigas, J.; Burnett, L.; Castro, K.; Frank, K.; Furton K. G.; DeGreeff, L. Canines: The Original Biosensors. World Police Summit, Dubai, United Arab Emirates, 2023 March 9th, 2023 – Oral Presentation
695. DeGreeff, L.E., Fulton, A., Jayawardana, T., Giordano, B., Vaughan, S., Forte, L., Holness, H., Furton, K.G. “Non-Contact Detection of Fentanyl and Other Synthetic Drugs”, NIJ Forensic Science R&D Symposium at the American Academy of Forensic Science Conference; Denver, CO; 20 Feb 2024.
696. Kelvin Frank and Kenneth G. Furton, “Dispelling K9 Odor Myths and Implementing National Standards” 32nd Annual IPCA Law Enforcement Training Institute; Anaheim, CA; 23 and 24 Jan 2024.
697. Kenneth G. Furton and Kelvin Frank, "Canine Detection Myths Dispelled Including Fresh vs. Aged Trails, Marijuana vs Hemp and Cell Phones vs Mass Storage Devices," 32nd Annual IPCA Law Enforcement Training Institute; Anaheim, CA; 23 and 24 Jan 2024.
698. Kenneth G. Furton and Kelvin Frank, “Canine National Standards & Trends ICODD”, Smart Dog Training Seminar; Scottsdale, AZ; 14 Aug 2023.
699. Kenneth G. Furton and Kelvin Frank, “Comparison Fresh vs Aged Trails, Marijuana vs Hemp and Cell Phones vs Mass Storage Devices”, Smart Dog Training Seminar; Scottsdale, AZ; 14 Aug 2023.
700. Crespo-Cajigas, J.M., Kabir, A., Furton, K.G., DeGreeff, L.E., “Development and evaluation of a vaporchromic sensor to indicate cross-contamination of vapors between closed containers,” Pittsburgh Conference and Exposition; 27 Feb 2024.
701. Karpinsky, M., Gokool, V., Vaughan, S.R., Furton, K.G., DeGreeff, L.E., “Comparison of odor profiles of differently sourced fresh and weathered crude oils,” Pittsburgh Conference and Exposition; 27 Feb 2024.
702. Calabrese, E.R., Furton, K.G., DeGreeff, L.E., “Vapor transport through soil: Impact of environmental conditions in a simulated explosive burial,” Pittsburgh Conference and Exposition; 26 Feb 2024.
703. Karpinsky, M., Bunker, P., Campues, E. *, Lopez, D. *, Vaughan, S., Furton, K.G., DeGreeff, L.E., “Generalization of crude oil for oil detection canines using odor profile fractions,” Pittsburgh Conference and Exposition; 25 Feb 2024.
704. Hogan, K.A., DeGreeff, L.E., Furton, K.G., “Assessment of odorant permeability for training aid mimics in different containers utilizing HS-SPME-GC-MS,” F71, Annual Conference of the American Academy of Forensic Sciences; Denver, CO; 21 Feb 2024.
705. Paola A. Prada-Tiedemann, Suzanne Perry, Kenneth Furton PhD, The Road to Standard Development: An Update From Dogs and Sensors, F71, Annual Conference of the American Academy of Forensic Sciences; Denver, CO, February 22, 2024.
706. Kenneth G. Furton and Kelvin J. Frank Advances in Canine Science and the Implementation of National Standards, Annual Conference of the American Academy of Forensic Sciences; Denver, CO February 22, 2024
707. Kenneth G. Furton and Abuzar Kabir, Biofluid Sampler: A Promising Sampling and Sample Preparation Platform for Forensic Toxicological Investigations , L13, Annual Conference of the American Academy of Forensic Sciences; Denver, CO February 21, 2024
Kenneth G. Furton and Abuzar Kabir, Fabric Phase Sorptive Extraction: A Green Sample

- Preparation Strategy for Forensic Toxicology, L15, Annual Conference of the American Academy of Forensic Sciences; Denver, CO, February 21, 2024
708. Kenneth G. Furton, Tracey Dawson Green and Mathew E. Staymates, Dogs & Sensors for Volatile Organic Chemicals and Scent Detection”, Invited “Lightning Talk” "Identifying Canine Odorants Towards Developing Reliable Dog and Sensor Calibrants" American Society of Crime Lab Directors, May 18, 2024.
709. Crespo Cajigas, J., Gokool, V.A., Holness, H., Furton, K.G., DeGreeff, L.E., “Comparison of targeted and untargeted analyses for the geographical sourcing of marijuana,” Canine Detection and Olfaction Science Conference; Miami, FL; 25 May 2023.
710. Kenneth G. Furton, “Improving Odor Detection by Dogs and Sensors Through Advancing Science and Standards,” Invited speaker at Canine Detection and Olfaction Science Conference; Miami, FL; 24 May 2023.
711. Karpinsky, M., Campues, E.*, Lopez, D.*, Bunker, P., Furton, K., DeGreeff, L. “Canine detection by odor fraction profiles to determine odorants of interest in native crude oils,” Canine Detection and Olfaction Science Conference; Miami, FL; 23 May 2023.
712. M. Locatelli, C. D’Ovidio, A.M. Catena, F. Savini, G.M. Merone, U. de Grazia, I. Ali, K.G. Furton, I. Gazioglu, A. Kabir; “FPSE-HPLC-PDA quantification of seven antidepressant drugs in post-mortem samples”, International Symposium on Pharmaceutical and Biomedical Analysis, PBA 2023, Ankara University, Ankara, Turkey, July 02-06, 2023
713. G. Tiris, I. Gagioglu, K.G. Furton, A. Kabir, M. Perrucci, M. Locatelli; “FPSE-HPLC-UV/Vis method for favipiravir quantitation in biological matrices”, International Symposium on Pharmaceutical and Biomedical Analysis, PBA 2023, Ankara University, Ankara, Turkey, July 02-06, 2023.
714. I. Gazioglu, S.E.K. Tekkeli, A. Tartaglia, C. Aslan, M. Locatelli, A. Kabir. FPSE-HPLC-PDA quantification of febuxostat and montelukast in human plasma. 51st International Symposium on High-Performance Liquid Phase Separations and Related Techniques (HPLC 2023), Dusseldorf, Germany, June 18-22, 2023.
715. K.G. Furton and K. Frank, Revolutionizing Detection: FIU’s Breakthroughs in Dog and Sensor Technology, HITS, August 16, 2023 Scotsdale, AZ
716. K.G. Furton and K. Frank, Revolutionizing Detection: FIU’s Breakthroughs in Dog and Sensor Technology, HITS, August 17, 2023 Scotsdale, AZ
717. K.G. Furton and K. Frank, Discussion of ICODD (International Commission on Detector Dogs), How National Standards for Dogs and Sensors Will Impact You and How You Can Get Involved, HITS, August 16, 2023 Scotsdale, AZ
718. K.G. Furton and K. Frank, Discussion of ICODD (International Commission on Detector Dogs), How National Standards for Dogs and Sensors Will Impact You and How You Can Get Involved, HITS, August 17, 2023 Scotsdale, AZ
719. K.G. Furton, “”Body Odor Forensics” Invited interview on Freakonomics Radio Network, December 4, 2023.
720. K.G. Furton, Songs of meaning connected to my background and my roles at the university. Interviewed by Piper Mahoney for show “Folk with Folks” show on the FIU student radio April 18, 2024.
721. Calabrese, E., Furton, K., DeGreeff, L.E. “Impact of Adsorption on the Vapor Availability of Contained Explosives and Drugs,” Global Forensic Science Alliance; [virtual] 3 Dec 2024.
722. K.G. Furton and K. Frank, New National Detector Dog Standards - How they will impact you and how you can get involved- International Commission on Detector Dogs (ICODD), 16th Annual International HITS K9 Conference, New Orleans, LA, August 30, 2024, August 28, 2024

723. K.G Furton and K. Frank, New National Detector Dog Standards - How they will impact you and how you can get involved- International Commission on Detector Dogs (ICODD), 16th Annual International HITS K9 Conference, New Orleans, LA, August 30, 2024, August 29, 2024
724. Karpinsky, M., *Lopez, D., *Campues, E., Bunker, P., Vaughan, S., Holness, H., Furton, K., DeGreeff, L.E., "Exploring canine olfactory generalization using odor profile fractions from native crude oils," Joint Symposium for Working K9s; Atlanta, GA; 8-10 Apr 2025.
725. DeGreeff, L.E., Dargan, R., Hogan, L., Forte, L., Furton, K.G., "Towards the validation of canine training aids," Joint Symposium for Working K9s; Atlanta, GA; 8-10 Apr 2025.
726. Emma, C., Furton, K.G., DeGreeff, L.E., "Impact of adsorption on vapor availability of contained explosives and drugs," Joint Symposium for Working K9s; Atlanta, GA; 8-10 Apr 2025.
727. Emma, C., Carrasco, J., Furton, K.G., DeGreeff, L.E., "Simulated explosive burial: Analysis of vapor transport through soil conditions," Joint Symposium for Working K9s; Atlanta, GA; 8-10 Apr 2025.
728. Greco, D.; DeGreeff, L.E., "The impact of storage and container options for human remains detection training aids," Pittsburgh Conference and Exposition; Boston, MA; 4 Mar 2025.
729. Zaldivar Eyre, F.; Furton, K.G.; DeGreeff, L.E., "The contamination of training aid substrates," Pittsburgh Conference and Exposition; Boston, MA; 4 Mar 2025.
730. Zaldivar Eyre, F.; Furton, K.G.; DeGreeff, L.E., "The contamination of training aid substrates," Annual Conference of the American Academy of Forensic Sciences; Baltimore, MD; 17-22 Feb 2025.
731. Hogan, K.; Furton, K.G.; DeGreeff, L.E., "An assessment of the permeability of VOCs between containers housing detection canine training aids," Annual Conference of the American Academy of Forensic Sciences; Baltimore, MD; 17-22 Feb 2025.
732. Karpinsky, M; Bunker, P; *Campues, E.; *Lopez, D; Vaughan, S; Furton, K; DeGreeff, L., "Generalization of crude oil for oil detection canines using odor profile fractions," Clean Gulf, 18-20 Nov 2024.
733. DeGreeff, L.E., Forte, L., Furton, K., "Towards the development of a non-hazardous canine training aid for fentanyl detection: Lessons learned," Trace Explosive and Drug Detection Workshop; Dublin, Ireland; 26 June 2024.
734. P. Roman, K.G. Furton, A. Kabir, A rapid hand-held detector for drugs and explosives and their signature VOCs using novel Nanoporous Molecularly Imprinted Polymer sensors (NPMIPS), Invited presentation, CARFS Biannual Meeting, Largo, Florida, January 15, 2025.
735. Sol-gel Universal Sorbent Coated Fabric Phase Sorptive Extraction Platform for Analyzing Benzodiazepines in Soil Samples, A. Kabir, K.G. Furton, Invited presentation, CARFS Biannual Meeting, Largo, Florida, January 15, 2025.
736. A. Kabir, K.G. Furton, Novel Sol-Gel Molecularly Imprinted Fabric Phase Sorptive Extraction Membrane for Targeted Toxin Detection, Invited Presentation, CARFS Biannual Meeting, Washington, DC, August 6-8, 2024.
737. A. Kabir, K.G. Furton, Sol-gel Universal Sorbent Coated Fabric Phase Sorptive Extraction Platform for Analyzing Benzodiazepines in Soil Samples, Invited Presentation, CARFS Biannual Meeting, Washington, DC, August 6-8, 2024.
738. A. Kabir, K.G. Furton, Novel Sol-Gel Molecularly Imprinted Fabric Phase Sorptive Extraction Membrane for Targeted Toxin Detection, Invited presentation, CARFS Biannual Meeting, Washington, DC, August 6-8, 2024.
739. F. Javadimarand, A. Kabir, P. Roman, K. G. Furton, Development of a rapid and sensitive human scent collection platform as a unique forensic biometric identification tool, , CARFS Biannual Meeting, Washington, DC, August 6-8, 2024.
740. A. Kabir, P. Roman, K.G. Furton, F. Javadimarand, Development of an Integrated VOC Sampling and Analysis Platform Using Sol-Gel Sorbents Coated Fabric Phase Sorptive Extraction Membrane followed by Thermal Desorption-Gas Chromatography/Mass Spectrometry for Forensic Human Scent Profiling, Invited presentation, CARFS Biannual Meeting, Largo, Florida, January 15, 2025.
741. A. Kabir, K.G. Furton, Biofluid Sampler: A Green and Robust Sampling and Sample Preparation Platform for Forensic Toxicological Analysis, Poster presentation, AAFS 2025, Baltimore, MD, February 17-22, 2025.
742. N.P. Kalogiouri, N. Manousi, G. Efstratiadis, A. Kabir, K.G. Furton, G. Zachariadis, E. Rosenberg, Development and validation of a capsule phase microextraction method combined with gas chromatography-tandem mass spectrometry for the determination of polychlorinated biphenyls in water

- samples, ISSS 2024, 28th International Symposium on Separation Science, September 22-25, 2024, Messina, Italy.
743. N. Manousi, A. Beina, A. Kabir, K.G. Furton, E. Rosenberg, G. Zachariadis, N.P. Kalogiouri, Development of a magnet-integrated fabric phase sorptive extraction method combined with GC-MS/MS for the determination of 16 polycyclic aromatic hydrocarbons in water samples, ISSS 2024, 28th International Symposium on Separation Science, September 22-25, 2024, Messina, Italy.
744. N. Manousi, A. Kabir, K.G. Furton, C.K. Zacharis, Development of a capsule phase microextraction protocol based on ionic-liquid/Carbowax 20M functionalized platforms for the determination of phosphodiesterase-5 inhibitors in human serum and urine, ISSS 2024, 28th International Symposium on Separation Science, September 22-25, 2024, Messina, Italy.
745. N. P. Kalogiouri, G.N. Tsompanopoulou, A. Kabir, K. G. Furton, V. F. Samanidou, Development and validation of a magnet integrated fabric phase sorptive extraction (MI-FPSE) method for the selective determination of seven sulfonamides in human urine analyzed by HPLC-DAD, ISSS 2024, 28th International Symposium on Separation Science, September 22-25, 2024, Messina, Italy.
746. K. G. Furton and K. Frank, "Dispelling K9 Odor Myths and Implementing National Standards" 32nd Annual IPCA Law Enforcement Training Institute; Anaheim, CA; January 28, 2025.
747. K.G. Furton and K. Frank, "Canine Detection Myths Dispelled Including Fresh vs. Aged Trails, Marijuana vs Hemp and Cell Phones vs Mass Storage Devices," 32nd Annual IPCA Law Enforcement Training Institute; Anaheim, CA; January 29, 2025.
748. K.G. Furton, The increasing importance of statistics in the accelerated evolution of forensic science, FIU Annual Statistics Conference, April 11, 2025
749. Fernando Zaldivar and K.G. Furton, Oral Presentation: "Optimization of Canine Training Aids: A Comparative Analysis of Substrates." Center for Advanced Research in Forensic Science, February 2025, Largo, FL
750. Hogan, K.A., Furton, K.A., Prada-Tiedemann, P.A., Perry, S. "Progress on Developing Dogs and Sensors Standards: Sniffing Out Success," 77th American Academy of Forensic Science Conference; Baltimore, MD; February 21, 2025. Oral Presentation
751. M. Clarke, KG Furton, : "Collection and Analysis of Biomarkers from Exhaled Breath of Cannabis and Kratom"Center for Advanced Research in Forensic Science, February 2025, Largo, FL Oral Presentation
752. F. Javadimarand, K.G. Furton, "Development of a rapid and sensitive human scent collection platform as a unique forensic biometric identification tool" Center for Advanced Research in Forensic Science, February 2025, Largo, FL Oral Presentation
753. Calabrese, E.; Furton, K. G.; DeGreeff, L. E. Impact of Adsorption on the Vapor Availability of Contained Explosives and Drugs. Trace Explosives and Drug Detection Workshop, June 2024, Dublin, IE, Awarded Student Scholar Ship Award, Oral presentation
754. Calabrese, E.; Furton, K. G.; DeGreeff, L. E. Impact of Adsorption on the Vapor Availability of Contained Explosives and Drugs, Customs and Border Protection – LSS Houston Laboratory, November 2024, Houston, TX. Oral presentation
755. Calabrese, E.; Furton, K. G.; DeGreeff, L. E. Impact of Adsorption on the Vapor Availability of Contained Explosives and Drugs. Global Forensic Science Alliance, Introductory Webinar, December 2024, Oral Presentation
756. Calabrese, E.; Carrasco, J.; Furton, K. G.; DeGreeff, L. E. Vapor Diffusion in Soil: Simulated Explosive Burials and Canine Trials, International Working Dog Conference, planned June 2025, Warwick, UK, Oral presentation
757. Calabrese, E.; Furton, K. G.; DeGreeff, L. E. Impact of Adsorption on the Vapor Availability of Contained Explosives and Drugs, International Working Dog Conference, planned June 2025, Warwick, UK, Poster presentation
758. Karpinsky, M., Bunker, P., Campues, E., Lopez, D., Vaughan, S., Furton, K., DeGreeff, L. Generalization of Crude Oil for Oil Detection Canines Using Odor Profile Fractions, Customs and Border Protection, November 2024, Houston, TX

- 759. Karpinsky, M., Bunker, P., Campues, E., Lopez, D., Vaughan, S., Furton, K., DeGreeff, L. Generalization of Crude Oil for Oil Detection Canines Using Odor Profile Fractions, Clean Gulf, November 2024, Houston, TX
- 760. Karpinsky, M., Lopez, D., Campues, E., Bunker, P., Holness, H.K., Furton, K.G., DeGreeff, L.E. Exploring Canine Olfactory Generalization using Odor Profile Fractions from Native Crude Oils, Joint Symposium for Working K9s (JSWK9), April 2025, Atlanta, GA, Poster Presentation
- 761. Isbel, S.R., Furton, K.G., Frank, K.J., Roman, P. "Augmenting Dogs and Sensors for Improved Detection of Explosives and Drugs" 77th American Academy of Forensic Science Conference; Baltimore, MD; February 18, 2025. Poster
- 762. K.G. Furton, "From Forensic Intelligence to Artificial Intelligence: A Review of Information Models in Forensic Science": FINDS: U.S. Army Funded Digital Forensics Center of Excellence Conference May 6th, 2025

EXTERNAL RESEARCH GRANTS/CONTRACTS FUNDED

Below are the external contracts and grants providing continuous funding for Dr. Furton's independent research program and collaborative projects since 1990 (\$21+ million total).

- 1. NSF Proposal "Acquisition of a Heat Flux Calorimeter" co-P.I. with M. Quirke, S. Winkle, and R. Lopez de la Vega(P.I.), \$48,486.00 (funded May 2, 1990).
- 2. ACS-PRF Type G Proposal "Thermodynamics of Molecular Association at Finite Concentrations in Liquid Organic Salts Studied by Gas-Liquid Chromatography", \$18,000.00 (funded May 31, 1990). August 1990-August 1993.
- 3. NSF Proposal "Speciation of Hydrophobic Organic Compounds in Sediments and Soils", co-P.I. with R. Jaffe (P.I.) and H. Fuentes, \$382,000, (Funded, September 8, 1994-December 1997).
- 4. Metro-Dade Police Law Enforcement Trust Fund proposal "Facilitation and Study of Training and Testing for Drug Detector Dogs", Submitted November 13, 1995. Sole P.I. \$142,958. (Funded April 1996 - December 1997).
- 5. NSF Travel Grant to present paper at the Third International Conference on Forensic Statistics entitled "Statistical Significance of Cocaine Contamination on U.S. and Canadian Currency and Correlation to Detector Dog Alerts to Suspected Drug Money", Edinburgh, Scotland, June 30-July 3, 1996. \$1000 (Funded May 1996).
- 6. NIJ Proposal "Discrimination of Forensic Glasses via Trace Element Analysis by Inductively Coupled Plasma Mass Spectrometry", co-P.I. with D.C. Duckworth & C.K. Bayne - Oak Ridge National Lab, S.A. McKenney - CASTLE, J. Almirall - Metro-Dade Police Crime Lab, R. Davis - Tennessee Bureau of Investigation and R.D. Koons, FBI Laboratory , Submitted November 1996 for \$450,000. (\$150,000 Funded November 1997, 9,630 for FIU - 12/1/98).
- 7. Metro-Dade Police Law Enforcement Trust Fund proposal "Facilitation and Continuation Study of Training and Testing for Drug Detecting Dogs: Analysis of Drug Odor Signatures on Forfeiture Money and Correlation to Drug Dog Alerts", Submitted April 1997. Sole P.I. \$118,418/2 years. Funded (\$9,209/yr) January 1998 – July 2000 (6 mo. no-cost extension).
- 8. Sigma/Aldrich/Supelco Proposal "Development of SPME for Arson and Explosive Analysis". \$10,000 funded February 1998. P.I. with J. Almirall.

9. DOE-NIJ Proposal "ICP-MS Analysis of Forensic Glasses and Database Development" Co-P.I with Jose Almirall (P.I.), D.C. Duckworth & C.K. Bayne - Oak Ridge National Lab, S.A. McKenney – CASTLE, R. Davis - Tennessee Bureau of Investigation and R.D. Koons Forensic Science Research Unit, FBI Laboratory , Submitted January 1999. \$151, 000 funded in 1999 (\$77,738 for FIU).
10. Sigma/Aldrich/Supelco Proposal "Continued Development of SPME for Arson and Explosive Analysis". \$10,000 funded February 1999 (co-P.I. with J. Almirall).
11. DOD/TSWG Proposal "Discrimination of Forensic Glasses Via Trace Element Analysis by ICP-MS" Co-P.I with Jose Almirall (P.I.), D.C. Duckworth & C.K. Bayne - Oak Ridge National Lab, S.A. McKenney – CASTLE, R. Davis - Tennessee Bureau of Investigation and R.D. Koons Forensic Science Research Unit, FBI Laboratory , Submitted December 1999. \$312,944 funded for September 2000 (\$135,000 for FIU).
12. NSF Florida Collaborative for Excellence in Teacher Preparation (FCETP) Proposal "Forensic Chemistry for Secondary School Educators", co-P.I. with J.R. Almirall (P.I.), \$15,765 funded April 2000 (\$6000 direct costs to FIU).
13. Sigma/Aldrich/Supelco Proposal "Development of SPME for Arson and Explosive Analysis". \$10,000 funded for 2000 (co-P.I. with J. Almirall).
14. Florida Department of Law Enforcement proposal "Improved Statewide Detector Dog Training and Certification Program" P.I. with J.R Almirall (co-P.I.) for \$350,000. Submitted October 1999. (\$50,000 funded July 2000 – July 2001).
15. Sigma/Aldrich/Supelco Proposal "Development of SPME for Arson and Explosive Analysis" for \$10,000. (co-P.I. with J. Almirall).
16. Trace Evidence Proficiency Testing Program (Glass, Paint, Fiber and Ignitable Liquid Residue Tests) to Crime Labs (co-P.I. with Jose Almirall (P.I.) \$36,600 in 2001/2002.
17. Technical Support Working Group of the Department of Defense, U.S. Government. Second year of competitive grant entitled: "Discrimination of Forensic Glasses by ICP-MS" (co-PI w/Almirall Total: \$ 254,912. (2000-2002)
18. Quality Forensics, Inc. competitive based grant for the design, development and manufacture of Trace Evidence Proficiency Tests in trace evidence (co-PI w/Almirall), \$ 55,000. was awarded Sept. 2002 – August 2003
19. Instrument grant from GE Iontrack for Ion Mobility Spectrometer, \$ 49,000, (PI w/Almirall), August 2003.
20. National Institute of Justice (NIJ)/National Forensic Science Technology Center (NFSTC) Proposal "Development and Implementation of Best Practice Procedures for Detector Dog Teams Through Scientific Based Validation" (PI) Funded January 1, 2003 – August 2005, \$506,938 with matching (\$350,000 direct to FIU).
21. Netherlands National Police Proposal "Deployment of Human Scent Research" (PI with J. Almirall) Funded August, 2004 – August, 2005; \$48,405.

22. Netherlands National Police Proposal “Deployment of Human Scent Research” (P.I. with AM Curran) Funded August 15, 2005 – August 14, 2006; \$60,627.
23. DoD / Technical Support Working Group (interagency and international R&D for combating terrorism) proposal “Optimization of Sorbent Materials for the Collection and Analysis of Human Scent” (P.I. with AM Curran) March 2006 – August 2008; \$454,405 Funded.
24. Netherlands National Police Proposal “Continuation of Deployment of Human Scent Research” (PI with AM Curran) Approved for funding August 15, 2006 – February 14, 2008; \$60,000. Funded.
25. National Institute of Justice (NIJ) proposal “The Scientific Working Group on Dog and Orthogonal Detector Guidelines” (PI). Approved for funding July 30, 2005 – October 31, 2008, 2008; \$285,152. Funded.
26. University of Central Florida FUNSAT IV satellite design competition “Using the Iridium Network for Amateur Satellite Communication” Faculty advisor for Christian J. Rodriguez (P.I.). Submitted September 13, 2007. Selected for presentation at the NASA’s 50th Anniversary conference held on April 17th in Miami. \$2,750.00 awarded March 13, 2008 – August 15, 2009, Funded.
27. DoD / Technical Support Working Group (interagency and international R&D for combating terrorism) proposal “Optimization of Sorbent Materials for the Collection and Analysis of Human Scent” (P.I. with AM Curran) August 2008 – December 2009; \$225,130 Funded.
28. NIJ proposal “The Scientific Working Group on Dog and Orthogonal Detector Guidelines” (PI). Approved for funding November 1, 2008 – January 30, 2009; \$82,359 Funded.
29. National Institute of Justice (NIJ) proposal “Field Detection of Drug and Explosive Odor Signatures Using SPME-IMS” (Co-PI with J.R. Almirall). Funded October 30, 2006 – September 30, 2010; \$480,881. Funded.
30. DoD / Technical Support Working Group (PI). Supplemental funding for Task 13 -Instrumental Evaluation of the Operational Parameters of the HSCS for the Collection of Volatile Profiles for \$111,659, Task 14 Canine Evaluation of HSCS for \$46,441, and Task 15 SIJL.GCOG Guidelines and Implementation via and International Accreditation Commission on Detector Dogs for \$154,425. Total of new contract \$312, 525 from December 16, 2009 – June 30, 2011.
31. Federal Bureau of Investigation Biometric Center of Excellence (BCOE), “Epithelial Cell Presence in Human Scent Evidence”, Approved for funding September 1, 2009 – January 30, 2011, \$211,255 (PI). Collaborative project with West Virginia University. Total project cost approved \$500,000.
32. National Institute of Justice (NIJ)/National Forensic Science Technology Center (NFSTC) Proposal “Validation and Implementation of Canine Training Aids Using COMPS” (PI) Funded 07/29/11 – 11/30/11, \$64,786.
33. National Institute of Science and Technology, “Design and Development of Scientifically Validated Non-Hazardous Canine Training Materials” (PI), Approved for funding December 30, 2009 – December 30, 2012, \$200,898.

34. Howard Hughes Medical Institute, “FIU Science Collaborative (FSC)” (Co-PI with Laird Kramer as PI), Approved for funding 4/15/2010-4/15/2014, \$1,000,000.
35. Central Intelligence Agency, “Testing the Ability of Birds to Detect Explosive Odorants: Comparisons with Canine Abilities and Instruments” (PI), Approved for funding July 12, 2010 – July 11, 2012, \$238,914.
36. Department of Education, “Opening the Gateway: The High Tech High Touch Initiative” (PI) 10/1/2010-02/29/2016, \$2,447,448.
37. FBI Biometric Center of Excellence (BCOE), “The Development of a Novel Method of Cell Extraction Using Pressure Cycling Technology for Samples Collected with the STU-100 with Respect to its Usefulness for Low Copy Template DNA Samples”, Approved for funding May 13, 2011 – April 12, 2012, 2010, \$207,852. (co-PI with D. Mills as PI).
38. TSWG (DoD), “Evaluation of the Scent Collection System (SNT SKR2000) for Use in Canine Training”, \$411,030.84, 5/30/12-1/30/14.
39. Colgate-Palmolive, “Determining the Human Scent Profile from Axillary and Hand Odor from Different Target Populations”, \$222,000, 04/10/12 – 04/09/15.
40. Canine Assistance, “Identification of Epileptic Seizure Specific Chemical Biomarkers”, \$100,002.52, 01/2013-01/2014.
41. FLIR “Evaluation of the Griffin 844 and FidoX”, \$22,000, 09/8/2014 – 04/30/2015
42. Colgate-Palmolive, “Analysis of Odor Samples”, \$11,000, 10/01/2015 – 12/31/2015
43. APLU, “University Transformation through Teaching (UT3) Phase II” \$640,000, 10/16/2015 – 6/30/2020
44. NSF, “Advance Institutional Transformation at Florida International University” \$3,202,167, 09/15/2016 – 08/31/2021
45. Colgate Palmolive, “Phase 2 Hispanic Study” \$56,800, 10/01/2016 – 06/30/2017
46. Office of Naval Research, “Exploring the Effects of the Generalization-Discrimination Balance and Odor Availability in Odor Detection Canines” \$210,419.26, 09/01/2016 - 12/31/2018
47. NSF, Industry–University Cooperative Research Centers, Center for Advanced Research in Forensic Science, “Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing techniques for increasing the probative value of human scent forensics” \$25,000, 10/17/2017 – 12/31/2018
48. NSF, Industry–University Cooperative Research Centers, Center for Advanced Research in Forensic Science, “Continued Advanced Human Scent Identification: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing techniques for increasing the probative value of human scent evidences” \$24,960, 10/29/2019 – 12/20/2022
49. Non-Contact Detection of Fentanyl and Other Synthetic Opioids, (subcontract) National Institute of Justice, \$107,368, 09/01/2019 – 08/30/2021

50. Microbiome-based vector control (subcontract), Ginkgo Bioworks Inc, \$79,076, 9/16/2020 – 3/16/2022
51. Analysis of T-Shirts - "Effective, Reagent-free Detection of the Odor Signature of Covid-19 Infection Using a Nano-Enabled Sensor Array" (subcontract), National Institute of Health, \$239,937.75, 12/20/2020 – 11/31/2022. Total NIH grant \$1,987,782 with UPenn.
52. NSF, Industry–University Cooperative Research Centers, Center for Advanced Research in Forensic Science“, \$4,125,000. 2024-2028.
53. ABC-UTC – “Use of Canines as a Corrosion Detection Device”, \$50,000, 07/01/2022 - 06/30/2023
54. ABC-UTC – “Use of Canines as a Corrosion Detection Device Phase II”, \$70,000, 07/01/2022 - 06/30/2023
55. NSF, Industry–University Cooperative Research Centers, Center for Advanced Research in Forensic Science – Phase II” \$4.25M, 8/1/2023 – 7/31/2028.
56. USDA Identification of Giant African Snail Odors to Aid Detector Dog Training, \$96,602.60, 8/1/2023 -7/31/2025
57. USDA Identification of A Suspensa Larvae Odors to Aid Detector Dog Training, \$95,603.00, 9/16/2024-9/15/2025

EXPERT WITNESS SERVICE

Below are 90 cases in which Dr. Kenneth G. Furton has been retained as an expert including testimony retained by the prosecution (TP) 25 time and testimony retained by the defense (TD) 11 times (36 total):

1. 1/25/96 retained by USAO Southern District of Florida. Case of U.S. \$500,000 95-1322-CIV-UUB. Deposition of Dr. Furton taken on 1/29/96. Settled in 1996. (TP1)
2. 9/19/96 retained by Metro-Dade Police Department Legal Bureau. Affidavit submitted in State v. \$104,000.00, case no. 28405-S.
3. 6/23/97 retained by USAO Southern District of Florida in Case. No. 97-0073-CIV-SH US v. \$201,700.00 in U.S. Currency. Testified in a probable cause hearing on 12/2/97 and in trial on 12/4/97. (TP2)
4. 7/18/97 retained by USAO Eastern District of New York; Case of United States v. \$64,980 Civil No. 96/4883 (Block, J.) (EDNY). Affidavit submitted.
5. 2/3/1998 retained by USAO, San Diego, United States v. \$13,980 in US Currency, Case # 97CV1097-J (POR). Affidavit submitted.
6. 4/15/1998 retained by USAO and testified at grand jury regarding the reliability of narcotics detection canines in USAO#1998R000623, Key West, Florida. (TP3)
7. 8/19/1998 retained by USAO, Phoenix, AZ for U.S. v. \$22,474 U.S. Currency (CIV-98-0525-PHX-EHC). Affidavit submitted.

8. 4/1/1998 retained USAO, Buffalo, NY, U.S. v. \$94,010.00 in U.S. Currency; affidavit submitted,
9. 10/26/99 retained by District Attorneys Office, Oakland County, Pontiac, Michigan, People v. Joseph Puertas, case no. CR 98-157485-FH. Testified in trial. (TP4)
10. 3/3/99 retained by USAO, Atlanta, GA., U.S. v. \$279,040.00 in U.S. Currency, case no. 4:98-CV-0182-HIM. Affidavit submitted.
11. 3/31/9999 retained by USAO, Albuquerque, NM, U.S. v. \$180,770, Civ. No. 98-1103. Affidavit submitted.
12. 9/30/99 retained by USAO, Southern District of Florida, Miami, FL , U.S. v. \$70,000 in US Currency, Case No. 98-2378-Civ-Gold/Simonton. Report and affidavit submitted.
13. 5/10/1999 retained by USAO, Southern District of Florida in U.S.A. v. Manny Varas, case no. 98-282-CR-SEITZ regarding the reliability of explosives detection canines. Testified in trial. (TP5)
14. 9/11/2000 retained by U.S. Attorneys Office; District of New Jersey; United States v. \$200,000 in US Currency, Case Civ. No. 99-4561(HAA); Submitted affidavit.
15. 9/15/2000. Retained by Public Defender's Office, 11th Judicial Circuit of Florida, Miami, Florida in Case Number 118242X. Testified regarding the calculating of percent blood alcohol from breath alcohol measurements. (TD1)
16. 5/10/2000 retained by Public Defender's office, 11th Judicial Circuit of Florida, Miami, Florida in Case Number 119558F. Testified regarding the calculating of percent blood alcohol from breath alcohol measurements. (TD2)
17. 5/10/2000 retained by Public Defender's office, 11th Judicial Circuit of Florida, Miami, Florida in Case Number 318189W. Testified regarding the calculating of percent blood alcohol from breath alcohol measurements. (TD3)
18. 2/9/2002 retained by defense Attorney Woodard, Coconut Grove, FL in State v. Juan Estremera: F00-40592; MDPD # 2000 0690098CX. Analyzed and submitted report regarding suspected MDMA tablets.
19. 2/19/2002; Retained by Office of the Attorney General, Appellate Section; Ft. Lauderdale, Re: \$21,495.00 U.S. currency seizure (Case # 02-44-00351-24). Affidavit given.
20. 9/15/2000; Retained by Law Offices of Richard Ware Levitt; New York, NY; Case EDNY 96-CR329. Testified regarding a DEA agent field testing a suspected heroin sample. (TD4)
21. 5/11/2000 retained by Broward County Office of the Public Defender, Ft. Lauderdale, FL; State of Florida vs. Joe F. Smith. Case Number 99-018558-CF10A. Gave affidavit regarding the reliability of the Ionscan 400 for the identification of controlled substances including false positives. (TD5)
22. 7/15/1999 retained by Defense Attorney in Bartow, Florida; Case CF98-04028A-XX (Polk County); Produced report of testing and weighing of alleged cocaine.

23. 7/14/2000 retained by the Dade County Public Defenders Office. Testified that urine drug screen produced before trial was only presumptive of THC and GC/MS is required. Recently run GC/MS produced by county lab at trial. (TD6)
24. 7/25/2000 Retained by Defense office Andrew F. Rier Esq.; Rier & Doherty; Miami, Florida; Produced drug analysis report of suspected cocaine sample from case# 86441512710 12/01/86.
25. 1/29/2001 retained by defense attorney in Bartow, Florida 33830; State v. Michael Martel: CF99-06363A-XX (Polk County); Produced report of testing and weighing of alleged methamphetamine.
26. 8/28/2001 retained by Office of the Attorney General, Appellate Section; Ft. Lauderdale, Florida, Palm Beach Circuit Court CL-01-02274-AO; \$44,930 in U.S. Currency a 1989 Buick. Affidavit given.
27. 6/27/2003 retained by USAO in the case of US vs. \$90,150.00. Review of records and submitted affidavit.
28. 8/25/2003 retained by Office of the Public Defender; Eleventh Judicial Circuit of Florida; Miami, Florida; State v. Timothy Lively: Case # P02010821; reweighing of MDMA evidence and generation of report.
29. 9/10/2004 retained by County of Los Angeles District Attorney office in the case of State v. Benigno Salcido. Testified in a Kelly-Frye hearing regarding the admissibility of human scent evidence in case number GA052057. (TP6)
30. 9/17/2004 retained by USAO Southern District of Florida in the case of US vs. \$467,250. Reviewing records of drug dog alert in forfeiture proceeding.
31. 9/20/2004 retained by Defense attorney Keating in DEA vs. Lemus. Reviewing records of a DEA agent field testing a suspected heroin sample.
32. 3/9/2005 retained by USAO in the case of US vs. \$30,350.00. Reviewed records and submitted affidavit.
33. 4/5/2005 retained by USAO Southern District of Florida in case of US vs. \$99,960 and \$40,060. Testified in trial on 6/28/2005. (TP7)
34. 6/1/2005 retained by USAO in the case of U.S. vs \$1,199,500 (USDC Cr. No. 05-243). Review of records and preparation of affidavit.
35. 6/2/2005 retained by USAO in the case of US v. Hyunh involving the forfeiture of \$28,880. Reviewed records and prepared affidavit.
36. 7/13/2005 retained by USAO in the case of U.S. vs. Castanon. Review of record and preparation of affidavit in \$2.3M forfeiture.
37. 8/2/2005 retained by USAO (Lornette Reynolds) in the case of U.S. v. Mario Mello, et. al. / U.S. v. \$199,120. Review of records of drug dog alert.
38. 11/8/2005 retained by defense attorney Richard J. Diaz in the case of Forfeiture of \$249,058 in

U.S. Currency (Case No. 04-18006 CA 09/Carlos Zapada).

39. 11/21/2005 retained by State Attorneys office (Mathew Klecka) in the case of State v. Victor Robles (Case No. F03-000918 / Seizure of \$1,167,780). Testified in trial on 12/9/2005. (TP8)
40. 5/1/2006 retained by USAO in the case of U.S. v. \$148,840. (USDC Cr. 05-1263 MV/JDS).
41. 7/17/2006 retained by USAO in the case of U.S. v \$23,400 in U.S. Currency (USDC, Ashville 1:05cv310). Reviewed records and prepared affidavit. Testified on 1/16/2007 (TP9).
42. 8/17/2006 retained by USAO in the case of U.S. v. \$155,895 in U.S. Currency. Reviewed records and prepared affidavit. Case settled on 9/3/2006.
43. 8/22/2006 retained by Defense attorney Jonathan Drucker in the case of State v. Juan Carlos Merceles.
44. 8/22/2006 retained by USAO in the case of U.S. v. \$871,400 in U.S. Currency (Steven Tan 1:05CV919).
45. 2/2/2007 retained by USAO in the case of U.S. v. \$99,480.00 in U.S. Currency (Barbara Papademetriou 06-22966-Civ-King).
46. 1/7/2008 retained by USAO in the case of U.S. v. \$236,590 in U.S. Currency (Stephen R. Kotz) CV 07-375 LH/RHS.
47. 7/2/2008 retained by S. Abramowitz in the Family Court case regarding the reliability of testing for drugs in hair related to custody for J.E. Kenyon. Testified for defense on July 21, 2008 (TD7).
48. 9/12/2008 retained by USAO in the case of U.S. v. Wade (District of Alaska) regarding the reliability of human scent trailing canines. Testified in probable cause hearing regarding the reliability of human scent trailing canines on 12/10/2008 (TP10)
49. 11/21/2008 retained by defense attorney Jose Baez in the case of the State of Florida v. Casey Marie Anthony (Case No.: 48-2008-CF-0015606-O). Testified in deposition on 2/19/2011. Testified in admissibility hearing on 4/1/2011 (TD8). Testified in trial on 6/27/2011. (TD9).
50. 12/30/2008 retained by Merchant & Gould in class action law suit against the makers and retailers of Scent Lok clothing products.
51. 2/5/2009 retained by USAO in the case of U.S. v. \$145,845.00 in U.S. Currency (District of New Mexico, USDC Cr. No.: 08-703 MCA/ACT).
52. 4/7/2009 retained by USAO in the case of U.S. v. Vo, et. al. (Southern District of Texas, Houston Division, Cause No. 4:07cr388).
53. 4/9/2009 retained by District Attorney Scott Perrilloux in the case of U.S. v. \$19,960.00 in U.S. Currency. Telephone deposition on 4/14/2009. (TP11)
54. 4/24/2009 retained by Lubrani & Smith in the case of Espalin v. City of Riverside (CV08-06376 PSG [PLAx]). Affidavit submitted.

55. 12/30/2009 retained by Fort Bend County Texas District Attorney's Office (Amanda Bolin, Asst. District Attorney) in the case of State of Texas v. Rodolfo Dominguez, Cause # 49886, Capital Murder. Testified in hearing on 4/29/10.
56. 1/8/2010. Retained by Los Angeles District Attorney's Office (Martin J. Bean, Deputy District Attorney) in the case number GA069722. Testified on 1/11/2010 and 1/14/2010. (TP12).
57. 1/27/2010. Court ordered for appointment as an expert by Salvador Salgado, Deputy Public Defender, County of Los Angeles in the case of People of CA v. Johnny Bruister. Telephone testimony on 2/1/2010. (TD10)
58. 6/3/2010. Retained by Fort Bend County as an expert witness by Asst. County Attorney Randall Morse in the case of Buchanek vs. City of Victoria, et. al. (Deputy Keith Pikett).
59. 6/29/2010. Retained by USAO, Patricia Kenney, in the case of U.S. v. \$49,790.00 in U.S. Currency (08-CV-1654 – N.D. Cal.).
60. 7/27/2010. Retained by USAO/WDNY, Grace Carducci, in the case of U.S. v. \$60,020 in U.S. Currency (08-CV-6286 L). Testified on 10/12/2010 (TP13).
61. 8/2/2010. Retained by USAO, Daren Grove, in case of U.S. v. \$181,870 (10-20751-Civ-AJ).
62. 11/17/2010. Retained by USAO/DWNY in the case of US v. Omari A. Graham (08-CR-6259(L). Testified on 11/30/2010 (TP14).
63. 1/12/11. Retained by USAO-EDPA, Joseph Minni, in the case of US v. \$39,785 USC (10-CV-1892), testified in jury trial on May 10, 2011 (TP15).
64. 1/25/11. Retained by LA County Public Defender Office, Elizabeth Lashley-Haynes in the Case# GA067142, Thomas Mitchell involving a K9 scent identification lineup.
65. 3/14/2011. Retained by Allyson Ostrowski in the case of People of CA v. Prieto, Robles and Prieto, Case no. TA106590, testified in admissibility hearing for human scent line up (3/28-3/30/11), testified in jury trial (4/3-4/5/11). (TP16)
66. 4/4/2011. Retained by Howard S. Grossman in the case of Richard Cicero vs. American K-9 Detection Services.
67. 4/21/2011. Retained by Arthur Goldberg/Martin Bean, Pasadena, CA, Roberto Barajas. Testified in admissibility hearing on 4/26/11 (TD11). Testified in trial on 8/7/2012 (TP17).
68. 5/25/2011. Retained by AUSA Danial E. Bennett, Middle District of Georgia, in the case of U.S. v. \$39,785 (10-CV-1892 (USDC E.D. Pa.).
69. 3/9/2012, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of *United States v. \$13,000.00 et. al.*, USDC Civ. No. 11CV547.
70. 4/26/2012, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of *United States v. \$65,000.00 in U.S. Currency, et. al.*, Civ No. 12cv60 RB/LFG.
71. 10/8/2013, Retained by Los Angeles District Attorney's Office (Stephanie Mire) in the case

number BA331941, CA vs Villalobos. Testified on 12/10/13 (TP18).

72. 1/30/2014, retained by AUSA Joshua B. Royster, Eastern District of Carolina in the case of *United States v. \$98,699.60 in U.S. Currency*, Case No. 5:13-CV-585-D. Testified on July 25, 2016. (TP19)
73. 01/01/2015, retained by Robert Elmore in the case of *State of Florida v. Barry Davis*, Agency No. 12-003077, Walton County Florida. Testified on 05/11/2015. (TP20)
74. 03/30/2014, retained by Ontario General Council (James McKeachie) in the case of Attorney General of Ontario v \$13,900 in Canadian Currency CV-14-496368
75. 07/03/2015, retained by Dirk Ryneveld, Civil Forfeiture – 1999 Honda Accord, \$29,215.00 & Phones SCBC Action S-15 0544, Victoria Registry
76. 03/29/2016, retained by AUSA David Lew, Western District of Pennsylvania in the case of U.S. v. \$115,980.00 in U.S. Currency, *et. al.*
77. 06/15/2016, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of *United States v. \$494,005.00 in U.S. Currency, et. al.*
78. 02/18/2017, Retained by Heather Henrickson, Broward County State Attorney in the case of *State of Florida v Cid Torrez*. Testified on 07/11/2017. (TP21)
79. 10/18/2017, Retained by AUSA Matthew Fesak, Eastern District of North Carolina, US v. \$307,970 U.S. Currency, No. 4:12-CV-136-FL (EDNC)
80. 07/10/2018, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$71,000 in U.S. Currency
81. 10/29/2018, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$68,970, 18cv561
82. 10/3/2018, Retained by ADA Sara Hill Milwaukee County District, State of Wisconsin v. Kris Zocco. Testified on 10/04/2018 (TP22)
83. 3/20/2019, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$145,000.00, MM-18-0070
84. 01/15/2020, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$49,000 in U.S. Currency
85. 8/3/2021, Retained by AUSA Alexis James, Northern District of California, in the case of US v. Villagomez, testified on 8/3/2021 (TP23)
86. 8/31/2021, Retained Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$75,000 in U.S. Currency
87. 11/29/2022, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v.

\$426,590 in U.S. Currency

88. 02/28/2022, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$194,850 in U.S. Currency
89. 8/21/2024, Retained by ASA Pamela J. Hazel, State Attorneys Office, 4th Circuit of the Office of the State Attorney of Florida, Florida v. Binderim regarding the residual odor of human remains detection by canines. Testified in evidence admissibility hearing regarding the odor of human remains and reliability of detector dogs on 9/20/2024. (TP 24) 35 overall
90. 6/17/2024, Retained by ASA Don Geary, Gwinnett County Superior Court in the case of State of Georgis v. Jeffrey Emerson Moulder. Testifying in admissibility hearing on the odor of human remains and the reliability of detector dogs. (TP 25)
91. 1/25/2025, Retained by AUSA Cristyne Martens, US Attorney's office District of Wyoming in the case of US v George Ostertag. Testifying regarding the detection of human remains by detector dogs. Testified on 2/11/2025 in admissibility hearing. (TP 26)