

Konstantin Bukhryakov

Ph.D., Associate Professor
Department of Chemistry and Biochemistry
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Professional Experience

Florida International University (FIU), Miami, USA	2024 – present
Associate Professor Catalysis, organic, organometallic, and polymer chemistry.	
Florida International University (FIU), Miami, USA	2018 – 2024
Assistant Professor Catalysis, organic, organometallic, and polymer chemistry.	
Massachusetts Institute of Technology (MIT), Cambridge, USA	2015 – 2018
Postdoctoral Associate with Prof. Richard R. Schrock (Nobel Prize 2005) Organometallic chemistry and catalysis.	
King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia	2012 – 2015
Postdoctoral Research Fellow with Prof. Valentin Rodionov Catalysis, organic, and polymer chemistry.	
Chemical Diversity Research Institute (CDI), Moscow, Russia	2006 – 2012
Senior Research Scientist Contract R&D, synthesis of new compounds for pharma clients (including Merck, Eli Lilly, Novartis, Abbott), hit to lead development, lead optimization, target-based library design, and parallel synthesis.	

Education

Lomonosov Moscow State University (MSU), Moscow, Russia	2008 – 2012
Ph.D. in organic chemistry under the guidance of Prof. Alexander Kurkin Thesis: Synthesis of enantiomerically pure imidazopyridine and pyridopyrazine derivatives with a chiral substituent at the nitrogen.	
Tyumen State University, Tyumen, Russia	2001 – 2006
B.S. in organic chemistry under the guidance of Prof. Mikhail Belyatsky Thesis: Intramolecular cyclization in the Meerwein and Wittig reactions.	

Funded Research

Total \$3,168,237

- DOE, Office of Environmental Management: Savannah River Nuclear Solutions, Award #663595, Alternating copolymers for simultaneous anion and cation capture for sensing applications, \$350,000. PI: **K. Bukhryakov**, Co-PI: K. Kavallieratos, 2024 – 2025.
- NIH MIRA R35GM150902-01: Vanadium-mediated carbon isotope exchange. \$1,783,017. PI: **K. Bukhryakov**, 2023 – 2028.
- DOE, Office of Environmental Management: Savannah River Nuclear Solutions, Award #603084, Alternating copolymers for simultaneous anion and cation capture for sensing applications, \$320,000. PI: **K. Bukhryakov**, Co-PI: K. Kavallieratos, 2023 – 2024.
- NSF CHE-2212944, LEAPS-MPS: Mechanism of Iron-Catalyzed Olefin Metathesis, \$249,567. PI: **K. Bukhryakov**, 2022 – 2024.
- DOE, Interrogating f-element-ligand Interactions by X-ray Absorption Spectroscopy (Infrastructure Proposal), \$355,653. PI: C. Dares, Co-PIs: **K. Bukhryakov**, A. Mebel, R. Raptis, K. Kavallieratos. 2021.
- ACS PRF# 61343-DNI3: Iron-based catalysts for olefin metathesis, \$110,000. PI: **K. V. Bukhryakov**, 2020 – 2022.

Publications

FIU:

37. S. Hernandez, D. S. Belov, V. Krivovicheva, S. Senthil, and **K. V. Bukhryakov**,* Decreasing the Bond Order Between Vanadium and Oxo Ligand to Form 3d Schrock Carbynes, *J. Am. Chem. Soc.*, **2024**, *146*, 18905–18909. DOI: [10.1021/jacs.4c07588](https://doi.org/10.1021/jacs.4c07588)
36. C. M. B. Bolding, T. K. Haraniya, G. L. Parker, W. B. Martin, V. G. Desyatkin, L. Heck, **K. V. Bukhryakov**, V. O. Rodionov,* Edge Functionalization of Bulk γ -Graphyne Facilitates Mechanical Exfoliation and Modulates the Mode of Sheet Stacking, *J. Am. Chem. Soc.*, **2024**, *146*, 12889–12894. DOI: [10.1021/jacs.4c02064](https://doi.org/10.1021/jacs.4c02064)
35. C. Acosta, D. S. Belov, A. Lamur, C. L. Brantley, X. Solans-Monfort, **K. L. Rue**, G. Christou and **K. V. Bukhryakov**,* Mononuclear Four-Coordinate Bis-Fluoride Bis-NHC Complexes of Chromium(II), Iron(II), and Cobalt(II), *Inorg. Chem.*, **2023**, *62*, 18108–18115. DOI: [10.1021/acs.inorgchem.3c02442](https://doi.org/10.1021/acs.inorgchem.3c02442)
34. W. S. Farrell, G. Tejada, X. Solans-Monfort, É. Sá, **K. V. Bukhryakov**, Ring-Opening Metathesis Polymerization with Vanadium(V) Alkylidenes: Survey of Initiators, Density-Functional Theory Calculations, and Functional Group Tolerance, *J. Organomet. Chem.*, **2023**, *996*, 122753. DOI: [10.1016/j.jorganchem.2023.122753](https://doi.org/10.1016/j.jorganchem.2023.122753)
33. D. S. Belov, C. Acosta, M. Garcia-Molina, K. L. Rue, X. Solans-Monfort, and **K. V. Bukhryakov**,* Synthesis and Activity of Vanadium Oxo NHC Alkylidenes. Remarkable Preference for Degenerate Metathesis and Application for Carbon Isotope Exchange, *Organometallics*, **2022**, *41*, 2897–2902. DOI: [10.1021/acs.organomet.2c00465](https://doi.org/10.1021/acs.organomet.2c00465)
32. G. Tejada, D. S. Belov, D. A. Fenoll, K. L. Rue, C. Tsay, X. Solans-Monfort, and **K. V. Bukhryakov**,* Vanadium Imido NHC Complexes for the Ring-Closing Olefin Metathesis Reactions, *Organometallics*, **2022**, *41*, 361–365. DOI: [10.1021/acs.organomet.2c00013](https://doi.org/10.1021/acs.organomet.2c00013)
31. O. Alkhamis, J. Canoura, **K. V. Bukhryakov**, A. Tarifa, A. P. DeCaprio, and Y. Xiao,* DNA Aptamer-Cyanine Complexes as Generic Colorimetric Small-Molecule Sensors, *Angew. Chem., Int. Ed.*, **2021**, *60*, 2–12. DOI: [10.1002/anie.202112305](https://doi.org/10.1002/anie.202112305)
30. D. S. Belov, D. A. Fenoll, I. Chakraborty, X. Solans-Monfort, and **K. V. Bukhryakov**,* Synthesis of Vanadium Oxo Alkylidene Complex and its Reactivity in Ring-Closing Olefin Metathesis Reactions, *Organometallics*, **2021**, *40*, 2939–2944. DOI: [10.1021/acs.organomet.1c00425](https://doi.org/10.1021/acs.organomet.1c00425)
29. D. S. Belov, G. Tejada, and **K. V. Bukhryakov**,* Olefin Metathesis by First-Row Transition Metals, (invited review), *ChemPlusChem*, **2021**, *86*, 924–937. DOI: [10.1002/cplu.202100192](https://doi.org/10.1002/cplu.202100192)
28. D. S. Belov, G. Tejada, C. Tsay, and **K. V. Bukhryakov**,* Ring-Closing Olefin Metathesis Catalyzed by Well-Defined Vanadium Alkylidene Complexes, *Chem. Eur. J.*, **2021**, *27*, 4578–4582. DOI: [10.1002/chem.202005438](https://doi.org/10.1002/chem.202005438)
27. D. S. Belov, L. Mathivathanan, M. J. Beazley, W. B. Martin, and **K. V. Bukhryakov**,* Stereospecific Ring-Opening Metathesis Polymerization of Norbornene Catalyzed by Iron Complexes, *Angew. Chem., Int. Ed.*, **2021**, *60*, 2934–2938. DOI: [10.1002/anie.202011150](https://doi.org/10.1002/anie.202011150). Highlighted in [ChemistryViews](https://chemistryviews.org).
26. S. Chuprun, C. M. Acosta, L. Mathivathanan, and **K. V. Bukhryakov**,* Molybdenum Benzylidyne Complexes for Olefin Metathesis Reactions, *Organometallics*, **2020**, *39*, 3453–3457. DOI: [10.1021/acs.organomet.0c00491](https://doi.org/10.1021/acs.organomet.0c00491)

Postdoctoral research (MIT):

25. F. Zhai, **K. V. Bukhryakov**, R. R. Schrock, A. Hoveyda, C. Tsay, and P. Muller, Syntheses of Molybdenum Oxo Benzylidene Complexes, *J. Am. Chem. Soc.*, **2018**, *140*, 13609–13613. DOI: [10.1021/jacs.8b09616](https://doi.org/10.1021/jacs.8b09616)
24. **K. V. Bukhryakov**, R. R. Schrock, A. Hoveyda, C. Tsay, and P. Muller, Syntheses of Molybdenum Oxo Alkylidene Complexes Through Addition of Water to an Alkylidyne Complex, *J. Am. Chem. Soc.*, **2018**, *140*, 2797–2800. DOI: [10.1021/jacs.8b00499](https://doi.org/10.1021/jacs.8b00499)
23. **K. V. Bukhryakov**, S. VenkatRamani, C. Tsay, A. Hoveyda, and R. R. Schrock, Syntheses of Molybdenum Adamantylimido and *t*-Butylimido Alkylidene Chloride Complexes Using HCl and Diphenylmethylphosphine, *Organometallics*, **2017**, *36*, 4208–4214. DOI: [10.1021/acs.organomet.7b00647](https://doi.org/10.1021/acs.organomet.7b00647)
22. P. E. Sues, **K. V. Bukhryakov**, and R. R. Schrock, Evaluation of Several Molybdenum and Ruthenium Catalysts for the Metathesis Homocoupling of 3-Methyl-1-Butene, *Helv. Chim. Acta*, **2017**, *100*, e1700181. DOI: [10.1002/hlca.201700181](https://doi.org/10.1002/hlca.201700181)
21. **K. V. Bukhryakov**, R. R. Schrock, A. Hoveyda, P. Muller, and J. Becker, Synthesis of 2,6-Hexatertiarybutylterphenyl Derivatives, 2,6-(2,4,6-*t*-Bu₃C₆H₂)₂C₆H₃X, where X = I, Li, OH, SH, N₃, or NH₂, *Org. Lett.*, **2017**, *19*, 2607–2609. DOI: [10.1021/acs.orglett.7b01062](https://doi.org/10.1021/acs.orglett.7b01062)
20. J. K. Lam, C. Zhu, **K. V. Bukhryakov**, P. Muller, A. Hoveyda, and R. R. Schrock, Synthesis and Evaluation of Molybdenum and Tungsten Monoaryloxo Halide Alkylidene Complexes for Z-Selective Cross-Metathesis of Cyclooctene and Z-1,2-Dichloroethylene, *J. Am. Chem. Soc.*, **2016**, *138*, 15774–15783. DOI: [10.1021/jacs.6b10499](https://doi.org/10.1021/jacs.6b10499)
19. P. E. Sues, J. M. John, **K. V. Bukhryakov**, R. R. Schrock, and P. Muller, Molybdenum and Tungsten Alkylidene Complexes That Contain a 2-Pyridyl-substituted Phenoxide Ligand, *Organometallics*, **2016**, *35*, 3587–3593. DOI: [10.1021/acs.organomet.6b00644](https://doi.org/10.1021/acs.organomet.6b00644)

Postdoctoral research (KAUST):

18. T. Chen, B. Chen, **K. V. Bukhryakov**, and V. O. Rodionov, Thiols Make for Better Catalyst: Au Nanoparticles Supported on Functional SBA-15 for Catalysis of Ullmann-type Homocouplings, *Chem. Commun.*, **2017**, 53, 11638-11641. DOI: [10.1039/C7CC06146C](https://doi.org/10.1039/C7CC06146C)
17. K. B. Vu, T. Chen, S. Almahdali, **K. V. Bukhryakov**, and V. O. Rodionov, Hollow Nanospheres with Fluorous Interiors for Transport of Molecular Oxygen in Water, *ChemistrySelect*, **2016**, 1, 3306-3309. DOI: [10.1002/slct.201600602](https://doi.org/10.1002/slct.201600602)
16. **K. V. Bukhryakov**, V. G. Desyatkin, and V. O. Rodionov, Cooperative Organocatalysis of Mukaiyama-Type Aldol Reactions by Thioureas and Nitro Compounds, *Chem. Commun.*, **2016**, 52, 7576-7579. DOI: [10.1039/C6CC01984F](https://doi.org/10.1039/C6CC01984F)
15. C. Mugemana, **K. V. Bukhryakov**, O. Bertrand, K. B. Vu, J.-F. Gohy, N. Hadjichristidis, V. O. Rodionov, Ring opening metathesis polymerization of cyclopentene using a ruthenium catalyst confined by a branched polymer architecture, *Polym. Chem.*, **2016**, 7, 2923-2928. DOI: [10.1039/C6PY00389C](https://doi.org/10.1039/C6PY00389C)
14. **K. V. Bukhryakov**, C. Mugemana, K. B. Vu, V. O. Rodionov, Palladium-N-Heterocyclic Carbene Pre-Catalyst Site-Isolated in the Core of a Star Polymer, *Org. Lett.*, **2015**, 17, 4826-4829. DOI: [10.1021/acs.orglett.5b02388](https://doi.org/10.1021/acs.orglett.5b02388)
Selected by the Editorial Board of *Synfacts* for its important insights, *Synfacts*, **2016**, 12, 99
DOI: [10.1055/s-0035-1561082](https://doi.org/10.1055/s-0035-1561082)
13. K. B. Vu, **K. V. Bukhryakov**, D. H. Anjum, V. O. Rodionov, Surface-Bound Ligands Modulate Chemoselectivity and Activity of a Bimetallic Nanoparticle Catalyst, *ACS Catal.*, **2015**, 5, 2529-2533 (K. B. Vu and **K. V. Bukhryakov** contributed equally). DOI: [10.1021/acscatal.5b00262](https://doi.org/10.1021/acscatal.5b00262)
12. **K. V. Bukhryakov**, S. Almahdali, and V. O. Rodionov, Amplification of Chirality through Self-Replication of Micellar Aggregates in Water, *Langmuir*, **2015**, 31, 2931-2935. DOI: [10.1021/la504984j](https://doi.org/10.1021/la504984j)
11. B. Chen, **K. V. Bukhryakov**, R. Sougrat, and V. Rodionov, An Enzyme-Inspired Functional Surfactant for Aerobic Oxidation of Activated Alcohols to Aldehydes in Water, *ACS Catal.*, **2015**, 5, 1313-1317. DOI: [10.1021/cs5020018](https://doi.org/10.1021/cs5020018)
10. **K. V. Bukhryakov**, V. G. Desyatkin, J. P. O'Shea, S. R. Almahdali, V. Solovyeva, and V. Rodionov, Cooperative Catalysis With Block Copolymer Micelles: A Combinatorial Approach, *ACS Comb. Sci.*, **2015**, 17, 76-80. DOI: [10.1021/co5001713](https://doi.org/10.1021/co5001713). (ACS Editors' Choice article, Jan. 13, 2015 and highlighted in *C&EN*, Jan. 19, 2015).
9. C. Mugemana, B. Chen, **K. V. Bukhryakov**, and V. Rodionov, Star Block-Copolymers: Enzyme-Inspired Catalysts for Oxidation of Alcohols in Water, *Chem. Commun.*, **2014**, 50, 7862-7865. DOI: [10.1039/C4CC03370A](https://doi.org/10.1039/C4CC03370A)

Ph.D. research (MSU and CDI):

8. **K. V. Bukhryakov**, A. V. Kurkin, M. A. Yurovskaya, Synthesis of Imidazo[4,5-b]pyridines with a Chiral Substituent at the Nitrogen Atom and their Conversion to Piperazine Derivatives, *Chem. Heterocycl. Compd. (N.Y.)*, **2012**, 48, 773-784. DOI: [10.1007/s10593-012-1056-5](https://doi.org/10.1007/s10593-012-1056-5)
7. **K. V. Bukhryakov**, A. V. Kurkin, and M. A. Yurovskaya, Synthetic Approaches to Imidazo[4,5-b]pyridine Derivatives (review), *Chem. Heterocycl. Compd. (N.Y.)*, **2011**, 47, 533-557. DOI: [10.1007/s10593-011-0797-x](https://doi.org/10.1007/s10593-011-0797-x)
6. A. V. Kurkin, **K. V. Bukhryakov**, M. A. Yurovskaya, Synthesis of 1,2,3,4-tetrahydro[2,3-b]pyrazindiones with a Chiral Substituent at the Nitrogen, *Chem. Heterocycl. Compd. (N.Y.)*, **2009**, 45, 188-193. DOI: [10.1007/s10593-009-0249-z](https://doi.org/10.1007/s10593-009-0249-z)
5. I. Konstantinov, **K. Bukhryakov**, Y. Gezentsvey, and M. Krasavin, Practical Method for Parallel Synthesis of Diversely Substituted 1-Phenylpiperazines, *Lett. Org. Chem.*, **2011**, 8, 628-630. DOI: [10.2174/157017811799304386](https://doi.org/10.2174/157017811799304386)
4. C. Hulme, **K. Bukhryakov** et al., Multi-Component Reactions in Drug Discovery, *Adv. Exp. Med. Bio.*, **2011**, 699, 88-89. DOI: [10.1007/978-1-4419-7270-5_3](https://doi.org/10.1007/978-1-4419-7270-5_3)
3. M. Krasavin, R. Karapetian, I. Konstantinov, Y. Gezentsvey, **K. Bukhryakov**, E. Godovykh, O. Soldatkina, Y. Lavrovsky, A.V. Sosnov, A.A. Gakh, Discovery and Potency Optimization of 2-Amino-5-arylmethyl-1,3-thiazole Derivatives as Potential Therapeutic Agents for Prostate Cancer, *Arch. Pharm.*, **2009**, 342, 420-427. DOI: [10.1002/ardp.200800201](https://doi.org/10.1002/ardp.200800201)
2. M. Krasavin, S. Shkavrov, V. Parchinsky, and **K. Bukhryakov**, Imidazo[1,2-a]quinoxalines Accessed via Two Sequential Isocyanide-Based Multicomponent Reactions, *J. Org. Chem.*, **2009**, 74, 2627-2629. DOI: [10.1021/jo900050](https://doi.org/10.1021/jo900050)
1. M. Krasavin, S. Tsurulnikov, M. Nikulnikov, Y. Sandulenko, and **K. Bukhryakov**, *tert*-Butyl Isocyanide Revisited as a Convertible Reagent in the Groebke-Blackburn Reaction, *Tetrahedron Lett.*, **2008**, 49, 7318-7321. DOI: [10.1016/j.tetlet.2008.10.046](https://doi.org/10.1016/j.tetlet.2008.10.046)

Patents

3. **K. V. Bukhryakov**, D. S. Belov, Vanadium Alkylidene Complex, Synthesis and use Thereof, **2024**, [US Patent App. 18/584.272](https://www.uspto.gov/patent/applications/18/584/272).
2. **K. V. Bukhryakov**, Carbon isotope exchange mediated by vanadium complexes, **2024**, [U.S. Patent App. 18/199.565](https://www.uspto.gov/patent/applications/18/199/565).
1. R. R. Schrock, **K. V. Bukhryakov**, A. Hoveyda, Molybdenum Oxo Alkylidene Compounds, Methods of Making the Same and Use Thereof in Metathesis Reactions, **2020**, [US Patent App. 16/966.369](https://www.uspto.gov/patent/applications/16/966/369).

Awards

4. FIU Top Scholar Award, 2024.
3. FIU College of Arts, Sciences & Education (CASE) Faculty Recognition Award for Research, 2023.
2. Vebleo Fellow, 2022.

1. Thieme Chemistry Journals Award, 2022.

Presentations (FIU):

31. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Oral Presentation, 30th International Conference on Organometallic Chemistry, Agra, India, July 2024.
30. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of Texas San Antonio (UTSA), San Antonio TX, November 2023.
29. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of Texas Dallas (UTD), Dallas TX, September 2023.
28. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Short Talk at Organometallics Gordon Research Conference, Newport, RI, July 2023.
27. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Keynote Lecture, International Symposium of Olefin Metathesis and Related Chemistry (ISOM-XXIV), Bergen, Norway, July 2023.
26. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Invited speaker at FAME, ACS regional meeting, Palm Harbor FL, June 2022.
25. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of California, Irvine (UCI), Irvine CA, May 2023.
24. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of California, Los Angeles (UCLA), Los Angeles CA, May 2023.
23. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of Southern California (USC), Los Angeles CA, May 2023.
22. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at Florida State University (FSU), Tallahassee FL, April 2023.
21. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of New Mexico (UNM), Albuquerque NM, March 2023.
20. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at the Ohio State University (OSU), Columbus OH, March 2023.
19. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Invited speaker at Schrock Symposium at University of California, Riverside (UCR), Riverside, CA, January 2023.
18. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of South Carolina, Columbia SC, November 2022.
17. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at Kansas State University (KSU), Manhattan KS, October 2022.
16. **K. Bukhryakov**, Vanadium-based Olefin Metathesis, Seminar at University of Florida (UF), Gainesville FL, October 2022.
15. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of Miami (UM), Miami FL, October 2022.
14. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at North Carolina State University (NCSU), Raleigh NC, October 2022.
13. **K. Bukhryakov**, First-row Transition Metals for Olefin Metathesis, Seminar at University of Texas at El Paso (UTEP), El Paso TX, September 2022.
12. **K. Bukhryakov**, Vanadium Alkylidenes for Olefin Metathesis, Seminar at University of Pennsylvania (UPenn), Philadelphia PA, September 2022.
11. **K. Bukhryakov**, Olefin Metathesis Catalyzed by Vanadium Complexes, 6th International Conference on Catalysis and Chemical Engineering, San Francisco CA, February 2022.
10. **K. Bukhryakov**, Catalysis by Earth-abundant Transition Metals, Vebleo Webinar on Materials Science, Engineering and Technology, January 2022.
9. **K. Bukhryakov**, Well-defined Vanadium Alkylidenes for Olefin Metathesis, Pacifichem-2021, Honolulu HI, December 2021.
8. **K. Bukhryakov**, Catalysis by Earth-abundant Transition Metals, RASA meeting, St. Petersburg FL, November 2021.
7. **K. Bukhryakov**, Toward Iron-Catalyzed Olefin Metathesis, mini-FAME, ACS regional meeting, Gainesville FL, September 2021.
6. **K. Bukhryakov**, Olefin Metathesis Catalyzed by First-Row Metals, ACS meeting Fall 2021, Atlanta GA, August 2021.
5. **K. Bukhryakov**, Homogeneous Catalysis for Olefin Metathesis, Seminar during Summer Internship Program for high school students, Florida International University, Miami FL, August 2021.
4. **K. Bukhryakov**, Alkylidene Complexes: Synthesis and Application, Seminar at Florida Institute of Technology, Melbourne FL, March 2021.
3. **K. Bukhryakov**, Homogeneous Catalysis by Organometallic Complexes, Seminar at Catalysis Webinar Series organized by American Vacuum Society, University of Central Florida Chapter, Orlando FL, June 2020.
2. **K. Bukhryakov**, Alkylidene Complexes: Synthesis and Application, Seminar at University of Central Florida (UCF),

Orlando FL, January 2020.

1. **K. Bukhryakov**, Alkylidene Complexes: Synthesis and Application, Seminar at Florida Memorial University (FMU), Miami FL, October 2019.

Professional Development

DOE EM MSIPP Achievement Workshop

2024

August 6-7, 2024. Augusta, GA

The workshop is designed to enhance the collaboration between DOE and Minority Serving Institutions (MSI). Besides the discussion about funding opportunities at DOE for MSI, career opportunities at DOE for graduate students were presented.

DOE EM MSIPP Achievement Workshop

2023

August 1-2, 2023. Augusta, GA

The workshop is designed to enhance the collaboration between DOE and Minority Serving Institutions (MSI). Besides the discussion about funding opportunities at DOE for MSI, career opportunities at DOE for graduate students were presented.

NASA Professional Development Workshop

2022

June 15-16, 2022. Baltimore, MD

The workshop focuses on assisting and engaging early career faculty in developing effective planning skills to achieve their career goals and pursue academic leadership at their institution.

ACS New Faculty Workshop

2019

June 28-30, 2019. Pasadena, CA

The workshop primarily focuses on developing and implementing evidence-based teaching practices in the classroom. Additional topics discussed include integrating teaching and research, student mentoring, effective time management, laboratory safety, and grantsmanship/funding.

NSF Early Career workshop

2019

May 19-21, 2019. Alexandria, VA

The workshop gave participant feedback on research ideas and draft proposals, helped plan educational and outreach activities. Also, it enabled the participant to network with peers, interact with successful NSF awardees, and talk with many NSF CHE staff members and program managers from other federal agencies (DOE and NIH).

MIT Educational Technology Teaching Certificate Program, MIT

2017

Teaching course designed to learn how to use technology to enhance both student learning experience and assessment. This course is level two of the MIT Kaufman Teaching Certificate Program.

MIT Kaufman Teaching Certificate Program, MIT

2016

Teaching course designed to educate and provide future career support for individuals who are passionate about teaching and mentoring.

Courses Taught

CHM 5251	Organometallic Chemistry	FIU	Graduate	Fall 2024
CHM 2210	Organic Chemistry I	FIU	Undergraduate	Fall 2023
CHM 2211	Organic Chemistry II	FIU	Undergraduate	Spring 2023
CHM 5251	Organometallic Chemistry	FIU	Graduate	Fall 2022
CHM 2211	Organic Chemistry II	FIU	Undergraduate	Spring 2022
CHM 2210	Organic Chemistry I	FIU	Undergraduate	Fall 2021
CHM 2210	Organic Chemistry I	FIU	Undergraduate	Spring 2021
CHM 5251	Organometallic Chemistry	FIU	Graduate	Fall 2020
CHM 2210	Organic Chemistry I	FIU	Undergraduate	Fall 2019
CHM 2210	Organic Chemistry I	FIU	Undergraduate	Spring 2019