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EDUCATION

1977 B. S. with Honors in Chemistry, Magna Cum Laude, Duke University.
1981 Ph. D. in Physical Chemistry, Duke University.

PROFESSIONAL BACKGROUND

2012- Ray and Mary Ingwersen Chair in Chemistry
2009-2012 Joseph B. Platt Chair in Effective Teaching, Harvey Mudd College
1993- Professor of Chemistry, Harvey Mudd College.
1991 Visiting Research Scientist, Chemical Biodynamics Division, Lawrence Berkeley Laboratory, Berkeley, California.
1989-1993 Associate Professor of Chemistry, Harvey Mudd College.
1984-1989 Assistant Professor of Chemistry, Harvey Mudd College.
1981-1984 NIH Postdoctoral Fellow, Laboratory of Chemical Biodynamics, U. California-Berkeley.

COLLEGE SERVICE

2020 Faculty Representative to the Board of Trustees' Budget Committee
2014-2018 Faculty Representative to the Board of Trustees' Physical Plant and Campus Planning Committee
2014-2018 Chair, Department of Chemistry, Harvey Mudd College
2010-2013 Chair of the Faculty, Harvey Mudd College
2010-2013 *Ex officio* Member, Harvey Mudd College Board of Trustees
2010-2013 Faculty Representative to the Board of Trustees' Educational Planning Committee
2011-2012 Co-chair, Search Committee for the Vice President of Academic Affairs and Dean of the Faculty
2010-2011 Member, Search Committee for the Vice President of Advancement
2009-2010 Chair, Faculty Budget Committee
2009-2010 Faculty Representative to the Board of Trustees' Budget Committee
2009 Keynote Speaker for Harvey Mudd College's Presentation Days: A Celebration of Student Research and Creative Activity
2008-2010 Member, WASC Steering Committee for Harvey Mudd College's Reaccreditation Review
2006-2008 Chair, Assessment Committee
1999-2004 Chair, Curriculum Committee
1996-1997 Member, Presidential Search Committee
1995-1996 College Grievance Officer
1992-1995 Chair, Research Committee
1992-1993 Member, Search Committee for the Vice President of Student Affairs and Dean of Students
1990-1996 Member, Claremont Colleges Faculty House Board of Governors
1988-1989 Chair, Scholarly Standing Committee
1987-1994 Director, Harvey Mudd College Department of Chemistry Summer Undergraduate Research Program

PROFESSIONAL SERVICE

2021	Chair of the Committee on Professional Training, American Chemical Society
2020-	Member, Goldwater Scholarship Selection Committee
2018	Vice Chair of the Committee on Professional Training, American Chemical Society
2016-	Co-principal Investigator, NSF-IUSE Project with the Council on Undergraduate Research: "Integrating and Scaffolding Research into Undergraduate STEM Curricula: Probing Faculty, Student, Disciplinary, and Institutional Pathways to Transformational Change"
2013-21	Member, American Chemical Society, Committee on Professional Training
2012	Member, National Science Foundation Division of Chemistry Director Search Committee
2011-12	Member, Search Committee for the Executive Director of the Council on Undergraduate Research
2010-2014	Co-principal Investigator, NSF-CCLI-Phase 3 Project with the Council on Undergraduate Research: "Transformational Learning through Undergraduate Research: Comprehensive Support for Faculty, Institutions, State Systems and Consortia"
2010	Member, 2010 AWIS-NSF ADVANCE Workshop Program Committee
2009-2010	Member, National Science Foundation Division of Chemistry Committee of Visitors
2009-2010	Chair, Nominations Committee of the Council on Undergraduate Research
2008-2009	Chair, Council on Undergraduate Research Transformative Research Summit Steering Committee
2007-2008	President, Council on Undergraduate Research
2006-2012	Principal Investigator, NSF-ADVANCE-PAID Project: "Collaborative Research for Horizontal Mentoring Alliances"
2006-2010	Co-principal Investigator, NSF-CCLI-Phase 2 Project "A Workshop Initiative by the Council on Undergraduate Research to Establish, Enhance and Institutionalize Undergraduate Research"
2005-2009	Member, Executive Board, Council on Undergraduate Research
2005-2006	Secretary, Council on Undergraduate Research
2004-2006	Co-Chair, Council on Undergraduate Research 2006 National Conference
2004-2006	Member, Beckman Scholars Program Advisory Panel
2004-2005	Chair, Outreach Committee of the Council on Undergraduate Research
2003-	Feature Editor, Journal of Chemical Education
2002-2003	Member, Steering Committee, NSF-sponsored Summit on Undergraduate Research Research
2001-2003	Chair of the Chemistry Division of the Council on Undergraduate Research
2001-2003	Member, Executive Board, Council on Undergraduate Research
2001-	Member, Advisory Committee, NSF Center for Workshops in the Chemical Sciences
2000-2001	Member, Beckman Scholars Program Advisory Panel
1993-2008	Chemistry Division Councilor for the Council on Undergraduate Research

COMMUNITY SERVICE

2006-2007	Member of the City of Claremont Committee on Aging
2004-2009	Member of the Joslyn Senior Center Successful Aging Committee
2004-2018	Harvey Mudd College Liaison to Claremont Avenues for Lifelong Learning Program for senior citizen auditors at the Claremont Colleges

HONORS AND AWARDS

American Chemical Society Award for Research at an Undergraduate Institution, 2020; American Chemical Society Fellow, 2018; Council on Undergraduate Research Fellows Award, 2012; Council on Undergraduate Research Volunteer of the Year, 2010; Joseph B. Platt Chair in Effective Teaching, 2009-2012; Council on Undergraduate Research Volunteer of the Year, 2004; Henry T. Mudd Prize for Outstanding Service to Harvey Mudd College, 2003; Henry Dreyfus Teacher-Scholar Award, 1994; National Institutes of Health National Research Service Award, 1981-1984; James B. Duke Fellowship, 1980-81; Duke University Graduate Research Award, 1979-1980; American Chemical Society Centennial Scholarship, 1978; North Carolina Award for Graduate Study in Chemistry, 1977-78; National Science Foundation Graduate Fellowship Honorable Mention, 1977; Member of Sigma Xi, 1977; Member of Phi Beta Kappa, 1977; Member of Phi Lambda Upsilon, 1977; National Merit Scholarship, 1973-77; Dean's List, 1973-77.

RESEARCH INTERESTS

- Applications of absorbance and fluorescence spectroscopy to supramolecular assemblies (e.g., micelles, reverse micelles, vesicles) and macromolecular host-guest systems (e.g., cyclodextrins, cucurbiturils, dendrimers).
- Spectroscopic delineation of binary and ternary phase diagrams
- Strategies to enhance the academic advancement of women in science and engineering

PROFESSIONAL MEMBERSHIPS

American Chemical Society (Colloid and Surface Science, Physical Chemistry, and Chemical Education Divisions); Association for Women in Science; Council on Undergraduate Research; Phi Beta Kappa; Society of the Sigma Xi.

COURSES TAUGHT

- General Chemistry (now Chemistry in the Modern World) and Laboratory
- Physical Chemistry and Laboratory
    - Thermodynamics, Phase Equilibria, and Kinetics
    - Group Theory, Quantum Chemistry, and Spectroscopy
- Biophysical Chemistry
- Advanced Chemical Kinetics
- Advanced Thermodynamics
- Exploring the U.S. Scientific Enterprise
- Interdisciplinary Laboratory – First-year laboratory in chemistry, physics, and biology
- Introduction to Research
- Senior Thesis Research

PUBLICATIONS

BOOKS

A Guide to Lasers in Chemistry, G. R. Van Hecke and K. K. Karukstis, Jones and Bartlett Publishers, Boston, 1998.

Chemistry Connections: The Chemical Basis of Everyday Phenomena, K. K. Karukstis and G. R. Van Hecke, Harcourt/Academic Press, San Diego, 2000; 2nd edition, Academic Press/Elsevier Science, 2003.

Developing and Sustaining a Research-Supportive Curriculum: A Compendium of Successful Practices, K. K. Karukstis and Timothy E. Elgren, eds., Council on Undergraduate Research, Washington, D. C., 2007.

Transformative Research at Predominantly Undergraduate Institutions, K. K. Karukstis and N. Hensel, eds., Council on Undergraduate Research, Washington, D. C., 2010.

Mentoring Strategies to Facilitate the Advancement of Women Faculty, K. K. Karukstis, B. L. Gourley, M. Rossi, L. L. Wright, eds., ACS Symposium Series, American Chemical Society, Washington, D.C., 2010.

Enhancing and Expanding Undergraduate Research: A Systems Approach, M. Malachowski, J. M. Osborn, K. K. Karukstis, E. L. Ambos, eds., New Directions in Higher Education, Jossey-Bass, San Francisco, 2015.

PEER-REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS Undergraduate co-authors denoted by *

1. P. Smith and K. K. Karukstis, "EPR Study of Radicals Derived from n-Propyl Formate," Journal of Magnetic Resonance 39, 137-140 (1980).

2. P. Smith, K. K. Karukstis, and S. M. Denning, "INDO-MO Study of Long-Range EPR Couplings in Aliphatic Formate Radicals," Journal of Magnetic Resonance 40, 91-103 (1980).

3. P. Smith and K. K. Karukstis, "INDO-MO Study of γ-CH Formyl-Proton Couplings in Aliphatic α-Formyloxy Radicals," Journal of Magnetic Resonance 42, 208-221 (1981).

4. P. Smith and K. K. Karukstis, "INDO-MO Study of δ-CH Formyl-Proton Couplings in Aliphatic ß-Formyloxy Radicals," Journal of Magnetic Resonance 43, 122-136 (1981).

5. P. Smith and K. K. Karukstis, "EPR Study of Long-Range Acetyl-Proton Couplings in Aliphatic Acetoxy Radicals," Journal of Magnetic Resonance 46, 200-212 (1982).

6. P. Smith and K. K. Karukstis, "EPR Study of Radicals Derived from Olefinic Alcohols," Journal of Magnetic Resonance 46, 469-474 (1982).

7. P. Smith and K. K. Karukstis, "EPR Study of Long-Range Proton Couplings in Aliphatic Acetoxy and Alkoxycarbonyl Radicals," Journal of Magnetic Resonance 47, 8-18 (1982).

8. K. K. Karukstis and P. Smith, "INDO-MO Study of δ-CH Formyl-Proton Couplings in Radicals from Vinyl Formate," Journal of Magnetic Resonance 48, 265-271 (1982).

9. K. K. Karukstis and K. Sauer, "Potentiometric Titration of Photosystem II Fluorescence Decay Kinetics in Spinach Chloroplasts, "Biochimica et Biophysica Acta 722,364-371 (1983).

10. K. K. Karukstis and K. Sauer, "Picosecond Fluorescence Kinetic Studies of Electron Acceptor Q Redox Heterogeneity," Biochimica et Biophysica Acta 725, 246-253 (1983).

11. P. Haworth, K. K. Karukstis, and K. Sauer, "Picosecond Fluorescence Kinetics in Spinach Chloroplasts at Room Temperature: Effects of Phosphorylation," Biochimica et Biophysica Acta 725, 261-271 (1983).

12. K. K. Karukstis and K. Sauer, "Photosynthetic Membrane Development Studies Using Picosecond Fluorescence Kinetics," Biochimica et Biophysica Acta 725, 384-393 (1983).

13. K. K. Karukstis and K. Sauer, "Fluorescence Kinetics of Chlorophyll in Photosynthetic Membranes (a review)," Journal of. Cell Biochemistry. 23, 131-158 (1983).

14. K. Sauer, M. Boska, J. L. Casey, and K. K. Karukstis, "Photosystem 2 and Water Oxidation in Higher Plants," Advances in Photosynthesis Research, Vol. I (Sybesma, C., ed.), pp. 121-126, Nijhoff/Junke Publisher, The Hague, The Netherlands, 1984.

15. K. K. Karukstis and K. Sauer, "Fluorescence Decay Kinetics of Chlorophyll in Photosynthetic Membranes," in Biosynthesis of the Photosynthetic Apparatus: Molecular Biology, Development, and Regulation, UCLA Symposia on Molecular and Cellular Biology - New Series (Hallick, R., Staehelin, A., and Thornber P.), pp. 59-86, Alan R. Liss, New York, 1984.

16. K. K. Karukstis and K. Sauer, "Energy Transfer and Distribution in the Red Alga Porphyra Perforata Studied Using Picosecond Fluorescence Spectroscopy, Biochimica et Biophysica Acta 766, 141-147 (1984).

17. K. K. Karukstis and K. Sauer, "Organization of the Photosynthetic Apparatus of the Chlorina-f2 Mutant of Barley Using Chlorophyll Fluorescence Decay Kinetics" Biochimica et Biophysica Acta 766, 148-155 (1984).

18. B. R. Green, K. K. Karukstis, and K. Sauer, "Fluorescence Decay Kinetics of Photosystem I- and Photosystem II-Deficient Mutants of Corn," Biochimica et Biophysica Acta 767, 574-581 (1984).

19. B. S. Packard, K. K. Karukstis, and M. P. Klein, "Intracellular Dye Heterogeneity Determined by Fluorescence Lifetimes," Biochimica et Biophysica Acta 769, 201-208 (1984).

20. K. K. Karukstis and P. Smith, "INDO-MO Study of δ-CH Acetyl-Proton Couplings in Aliphatic α-Acetoxy Radicals," Journal of Magnetic Resonance 52, 288-293 (1984).

21. K. K. Karukstis and P. Smith, "Temperature Dependence of δ-CH Proton Couplings in Radicals from Aliphatic Carboxylic Acid Esters," Journal of Magnetic Resonance 56, 288-293 (1984).

22. K. K. Karukstis and K. Sauer, "The Effects of Cation-Induced and pH-Induced Membrane Stacking on Chlorophyll Fluorescence Decay Kinetics," Biochimica et Biophysica Acta 806, 374-389 (1985).

23. P. Smith, P. J. Pomery, C. E. Mader, and K. K. Karukstis, "INDO-MO Study of ε-CH Proton EPR Hyperfine Couplings in Radicals Derived from Allyl Ethyl Ethers," Journal of Magnetic Resonance 62, 182-194 (1985).

24. K. K. Karukstis and S. M. Gruber*, "Effect of Trivalent Lanthanide Cations on Chlorophyll Fluorescence and Thylakoid Membrane Stacking", Biochimica et Biophysica Acta 851, 322-326 (1986).

25. K. K. Karukstis, S. C. Boegeman*, S. M. Gruber*, C. R. Monell*, J. A. Fruetel*, and M. H. Terris*, "Multivariate Analysis of Photosystem II Fluorescence Quenching by Quinones", in Progress in Photosynthesis Research (J. Biggins, ed.), Vol. I, pp. 119-122, Martinus Nijhoff Publishers, Dordrecht, The Netherlands, 1987.

26. K. K. Karukstis, S. C. Boegeman*, J. A. Fruetel*, S. M. Gruber*, and M. H. Terris*, "Multivariate Analysis of Photosystem II Fluorescence Quenching by Substituted Benzoquinones and Naphthoquinones", Biochimica et BiophysicaActa 891, 256-264, 1987.

27. K. K. Karukstis, S. M. Gruber*, J. A. Fruetel*, and S. C. Boegeman*, "Quenching of Chlorophyll Fluorescence by Substituted Anthraquinones," Biochimica et Biophysica Acta 932, 84-90, 1988.

28. K. K. Karukstis and C. R. Monell*, "Reversal of Quinone-Induced Chlorophyll Fluorescence Quenching," Biochimica et Biophysica Acta 973, 124-130, 1989.

29. K. K. Karukstis, M. A. Berliner*, C. J. Jewell*, and K. T. Kuwata*, "Competition of Anthraquinones for the QB Binding Domain," in Current Research in Photosynthesis (M. Baltscheffsky, ed.), Vol. I, pp. 579-582, Martinus Nijhoff Publishers, Dordrecht, The Netherlands, 1990.

30. K. K. Karukstis, "Chlorophyll Fluorescence as a Physiological Probe of the Photosynthetic Apparatus," in Chlorophylls (H. Scheer, ed.), pp. 769-795, CRC Press, Boca Raton, 1990.

31. K. K. Karukstis, M. A. Berliner*, C. J. Jewell*, and K. T. Kuwata*, "Chlorophyll Fluorescence Measurements to Assess the Competition of Substituted Anthraquinones for the QB Binding Site," Biochimica et Biophysica Acta 1020, 163-168, 1990.

32. K. K. Karukstis, M. A. Berliner*, and K. T. Kuwata*, "Analysis of π Charge Distribution in Substituted Anthraquinones to Assess Affinity for the QB Binding Site," Biochimica et Biophysica Acta 1020, 169-175, 1990.

33. K. K. Karukstis, "Q_B Analogs as Inhibitors of Photosystem II Electron Transport in Plant Chloroplasts", Trends in Photochemistry and Photobiology, 1, 289-292, 1991.

34. K. K. Karukstis, R. M. Moision*, S. K. Johansen*, K. E. Birkeland*, and S. M. Cohen*, "Alternative Measures of Photosystem II Electron Transfer Inhibition Anthraquinone-Treated Chloroplasts", Photochemistry and Photobiology, 55, 125-132, 1992.

35. K. K. Karukstis, K. E. Birkeland*, B. P. Babusis*, K. A. Kasal*, and C. J. Jewell*, "Chlorophyll Fluorescence Characterization of Photosystem II Electron Transport Inhibitors, Journal of Luminescence, 51, 119-128, 1992.

36. K. K. Karukstis, "Chlorophyll Fluorescence Analyses of Photosystem II Reaction Center Heterogeneity", Journal of Photochemistry and Photobiology, B: Biology, 15, 63-74 (1992).

37. K. K. Karukstis, C. M. Emetarom*, D. P. Nash*, D. Takamoto*, M. Y. Kao*, and K. J. Kaphengst*, "Structural and Kinetic Aspects of Lanthanide Binding to Chloroplast Thylakoid Membranes", Research in Photosynthesis (N. Murata, ed.), Vol. II, pp. 93-96, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993.

38. G. R. Van Hecke and K. K. Karukstis, "Curriculum Using the Unique Capabilities of Lasers", Journal of Chemical Education, 70, 323 (1993).

39. K. K. Karukstis, D. A. Krekel*, D. A. Weinberger*, R. A. Bittker*, N. R. Naito*, and S. H. Bloch*, "Resolution of the Excited States of the Fluorescence Probe TNS using a Trilinear Analysis Technique", Journal of Physical Chemistry, 99, 449-453 (1995).

40. K. K. Karukstis, M. Y. Kao*, D. A. Savin*, R. A. Bittker*, K. J. Kaphengst*, C. M. Emetarom*, N. R. Naito*, and D. Y. Takamoto*, "Spectral Studies of Lanthanide Interactions with Membrane Surfaces", Journal of Physical Chemistry, 99, 4339-4346 (1995).

41. K. K. Karukstis, M. Y. Kao*, D. A. Savin*, R. A. Bittker*, K. J. Kaphengst*, N. R. Naito*, "Spectral Characterizations of Lanthanide Interactions with Thylakoid Membrane Surfaces", Photosynthesis: from Light to Biosphere (P. Mathis, ed.), Vol. III, pp. 245-248, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995.

42. K. K. Karukstis, S. W. Suljak*, P. J. Waller*, J. A. Whiles*, E. H. Z. Thompson*, "Fluorescence Analysis of Single and Mixed Micelle Systems of SDS and DTAB", Journal of Physical Chemistry, 100 11125-11132 (1996).

43. K. K. Karukstis, A. A. Frazier*, D. S. Martula*, J. A. Whiles*, "Characterization of the Microenvironments in AOT Reverse Micelles using Multidimensional Spectral Analysis", Journal of Physical Chemistry, 100 11133-11138 (1996).

44. K. K. Karukstis, N. D. D'Angelo*, and C. T. Loftus*, "Using the Optical Probe Methyl Orange to Determine the Role of Surfactant and Alcohol Chain Length in the Association of

1-Alkanols with Alkyltrimethylammonium Bromide Micelles", Journal of Physical Chemistry, 101 1968-1973 (1997).

45. K. K. Karukstis, "Enhancing Undergraduate Research in Chemistry: An Example of the Use of CUR Databases", Council on Undergraduate Research Quarterly 18 189-198 (1997).

46. G. R. Van Hecke, K. K. Karukstis, and J. M. Underhill*,"Using Lasers to Demonstrate the Concept of Polarizability: Variations in the Refractive Indices of the o-Halobenzenes", The Chemical Educator, December 1997.

47. K. K. Karukstis, D. A. Savin*, C. T. Loftus*, and N. D. D'Angelo*, "Spectroscopic Studies of the Interaction of Methyl Orange with Cationic Alkyltrimethylammonium Bromide Surfactants", Journal of Colloid and Interface Science 203 157-163, 1998.

48. K. K. Karukstis, E. H. Z. Thompson*, J. A. Whiles*, and R. J. Rosenfeld*, "Deciphering the Fluorescence Signature of Daunomycin and Doxorubicin", Biophysical Chemistry 73 249-264, 1998.

49. K. K. Karukstis and A. V. Gulledge*, "Analysis of the Solvatochromic Behavior of the Disubstituted Triphenylmethane Dye Brilliant Green", Analytical Chemistry 70 4212-4217 (1998).

50. K. K. Karukstis, A. A. Frazier*, C. T. Loftus*, and A. S. Tuan*, "Fluorescence Investigation of Multiple Partitioning Sites in Aqueous and Reverse Micelles", Journal of Physical Chemistry 102 8163-8169 (1998).

51. K. K. Karukstis, S. K. Avrantinis*, S. L. Boegeman*, J. M. Conner*, B. N. Hackman*, J. M. Lindsay*, A. L. Mandel*, and E. J. Miller *, "Spectroscopic Determination of Ternary Phase Diagrams", Journal of Chemical Education 77 701-703 (2000).

52. K. K. Karukstis, "Encapsulation of Fluorophores in Multiple Microenvironments in Surfactant-Based Supramolecular Assemblies" (invited review) in Handbook of Surfaces and Interfaces of Materials, Volume 3: Nanostructured Materials, Micelles, and Colloids, Chapter 12 (H. S. Nalwa, editor) Academic Press, San Diego, 2001.

53. K. K. Karukstis, S. C. Thonstad*, and M. E. Hall*, “Modulation of Guest Partitioning Within Dendrimer-Surfactant Supramolecular Assemblies”, Journal of Dispersion Science and Technology 23 737-746 (2002).

54. G. R. Van Hecke, K. K. Karukstis, R. C. Haskell, C. S. McFadden, and F. S. Wettack, “An Integration of Chemistry, Biology, and Physics: The Interdisciplinary Laboratory”, Journal of Chemical Education 79 837-844 (2002).

55. K. K. Karukstis, G. R. Van Hecke, K. A. Roth*, M. A. Burden*, “A Structure-Activity Investigation of Photosynthetic Electron Transport: An Interdisciplinary Experiment for the First-Year Laboratory”, Journal of Chemical Education 79 985-988 (2002).

56. G. M. Lanza, D. R. Abendschein, X. Yu, P. M. Winter, K. K. Karukstis, M. J. Scott, R. W. Fuhrhop, D. E. Scherrer, S.A, Wickline, “Molecular Imaging and Targeted Drug Delivery

with a Novel, Ligand-Directed Paramagnetic Nanoparticle Technology", Academic Radiology 9 S330-S331 (2002).

57. G. M. Lanza, X. Yu, P. M. Winter, D. Abendschein, D. R. Abendschein, K. K. Karukstis, M. J. Scott, L. K. Chinen, R. W. Fuhrhop, D. E. Scherrer, and S. A. Wickline, "Targeted Antiproliferative Drug Delivery to Vacular Smooth Muscle Cells with a Magnetic Resonance Imaging Nanoparticle Contrast Agent: Implications for Rational Therapy of Restenosis", Circulation 106 2842-2847 (2002).

58. K. K. Karukstis, L. A. Perelman*, and W. K.Wong*, "Spectroscopic Characterization of Azo Dye Aggregation on Dendrimer Surfaces", Langmuir 18 10363-10371, (2002).

59. K. K. Karukstis, "Examining Technology's Impact on Society", Journal of College Science Teaching 33 36-40 (2003).

60. K. K. Karukstis, C. A. Zieleniuk*, M. J. Fox*, "Fluorescence Characterization of DDAB-AOT Catanionic Vesicles", Langmuir 19 10054-10060 (2003).

61. K. K. Karukstis, G. R. Van Hecke, "Chemistry of Everyday Life", World and I, November 2003, 146-153.

62. K. K. Karukstis, S. A. McCormack*, T. M. McQueen*, K. F. Goto*, "Fluorescence Delineation of the Surfactant Microstructures in the CTAB-SOS-H2O Catanionic System", Langmuir 20 64-72 (2004).

63. M. D. Schuh and K. K. Karukstis, "Getting Started in Research with Undergraduates", Journal of Chemical Education 81 322 (2004).

64. K. K. Karukstis and T. J. Wenzel, "Enhancing Research in the Chemical Sciences at Predominantly Undergraduate Institutions: Recommendations of a Recent Undergraduate Research Summit", Journal of Chemical Education 81 468-4699 (2004).

65. K. K. Karukstis, "Reinvigorating the Undergraduate Experience with a Research-Supportive Curriculum", Journal of Chemical Education 81 938-939 (2004).

66. G. R. Van Hecke, K. K. Karukstis, F. S. Wettack, C. S. McFadden, and R. C. Haskell, "The Interdisciplinary Laboratory: An Integration of Chemistry, Biology, and Physics", in Reinvigorating the Undergraduate Experience: Successful Models Supported by NSF's RAIRE/AIRE Program, (L. E. Kauffman, J. E. Stocks, eds.), Council on Undergraduate Research, Washington, D.C., 2004, <http://www.cur.org/publications/aire_raire/toc.asp >.

67. K. K. Karukstis, "Creating Time for Research: Recommendations from Faculty at Predominantly Undergraduate Institutions", Journal of Chemical Education 81 1550-1551 (2004).

68. K. K. Karukstis, "Community-Based Research": New Paradigm for Undergraduate Research in the Sciences", Journal of Chemical Education 82 15-16 (2005).

69. K. K. Karukstis and J. R. McDonough*, “Characterization of the Aggregates of N-Alkyl-N-Methylpyrrolidinium Bromide Surfactants in Aqueous Solution”, Langmuir 21 5716-5721 (2005).

70. K. K. Karukstis and R. S. Rowlett, “On-Site Reviews and Institutes to Assess and Strengthen Undergraduate Departments and Programs”, Journal of Chemical Education 82 512-513 (2005).

71. K. K. Karukstis,, K. D. Sienerth, and F. V. Farnsworth, “Professional Infrastructure for Supporting the Undergraduate Research Enterprise on Campus”, Journal of Chemical Education 82 825-826 (2005).

72. K. K. Karukstis, “Communicating the Importance of Undergraduate Research to Legislators”, Journal of Chemical Education 82 1279-1280 (2005).

73. G. R. Van Hecke, K. K. Karukstis, H. Li*, H. C. Hendargo*, A. J. Cosand*, M. M. Fox*, “Synthesis and Physical Properties of Liquid Crystals: An Interdisciplinary Experiment for the First Year Laboratory, Journal of Chemical Education 82 1349-1354 (2005).

74. K. K. Karukstis, “Showcasing Successful Practices that Enhance a Research-Supportive Undergraduate Curriculum”, Journal of Chemical Education 82 1440-1442 (2005).

75. K. K. Karukstis, "Understanding the Federal Funding Landscape for Undergraduate Research", Journal of Chemical Education 83 1119-1120 (2006).

76. L. N. Gentile, N. S. Mills, and K. K. Karukstis, “Faculty Mentoring Faculty: Lending Support within the Undergraduate Research Community”, Journal of Chemical Education 83, 1584 (2006).

77. K. K. Karukstis, "A Council on Undergraduate Research Workshop Initiative to Establish, Enhance, and Institutionalize Undergraduate Research", Journal of Chemical Education 83, 1744-1745 (2006).

78. K. K. Karukstis, “Alliances to Promote Undergraduate Research”, Journal of Chemical Education, 84, 384-385 (2007).

79. K. K. Karukstis, “The Impact of Undergraduate Research on America's Global Competitiveness”, Journal of Chemical Education, 84, 912-914 (2007).

80. K. K. Karukstis, “Facilitating Advanced Study in Science and Engineering: The CUR Registry of Undergraduate Researchers”, Journal of Chemical Education, 84, 1744-1745 (2007).

81. K. K. Karukstis, “Starting a Successful Research Program at a Predominantly Undergraduate Institution”, Journal of Chemical Education, 85, 343-344 (2008).

82. K. K. Karukstis, “The Scientist’s Civic Responsibilities: Sharing Research and Scholarship on Capitol Hill”, Journal of Chemical Education, 85, 1170-1171 (2008).

83. J. M. Osborn and K. K. Karukstis, "The Benefits of Undergraduate Research, Scholarship, and Creative Activity", in **Broadening Participation in Undergraduate Research: Fostering Excellence and Enhancing the Impact**. M. K. Boyd and J. L. Wesemann, eds., Council on Undergraduate Research, Washington, D. C., 2009, Chapter 4.

84. K. K. Karukstis, T. E. Elgren, S. E. Ronco, S. E. Feller, and R. S. Rowlett, "Barriers to Seeking External Research Funding: Perceptions and Facts", Journal of Chemical Education, 86, 788-790 (2009).

85. D. F. Brakke, M. L. Crowe, and K. K. Karukstis, "Perspective: Reasons Why Deans and Provosts (and Presidents) Should Value, Support, and Encourage Undergraduate Research", Council on Undergraduate Research Quarterly 30, 10-14 (2009).

86. K. K. Karukstis, "Transformative Research Initiative: The Role of Undergraduate Institutions", Journal of Chemical Education, 86, 1011-1012 (2009).

87. K. K. Karukstis, "Women in Science, Beyond the Research University: Overlooked and Undervalued," *The Chronicle of Higher Education* **55** 41 p. 23 (2009).

88. K. K. Karukstis, "Expanding Opportunities for Undergraduate Research through Recent NSF Awards to CUR," Journal of Chemical Education, 87, 45-246 (2010).

89. K. K. Karukstis, J. P. Litz*, M. B. Garber*, L. M. Angell*, G. K. Korir*, "A Spectral Approach to Determine Location and Orientation of Azo Dyes within Surfactant Aggregates", Spectrochimica Acta Part A, 75, 1354-1361 (2010).

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