

John P. Kociolek
CURRICULUM VITAE
University of Colorado
Boulder, CO 80309

POSITIONS: Professor, Department of Ecology and Evolutionary Biology
Curator, Museum of Natural History

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EMAIL: Patrick.Kociolek@colorado.edu

INSTITUTIONS ATTENDED AND DEGREES ATTAINED

Stanford University, Graduate School of Business and Harvard Business School, October 2005 (Leading Change and Organizational Renewal), Executive Management Course
The University of Michigan (1983-1988), Ph.D. (Natural Resources)
Oregon State University (1982-1983), Post-graduate coursework
Bowling Green State University (1980-1982), M.S. (Biological Sciences)
University of Iowa (1980), Lakeside Laboratory, Summer coursework
University of Michigan (1979), Biological Station, Summer coursework
St. Mary's College of Maryland (1978-1980), B.S. (Biological Sciences, graduated with High Honors)
Anne Arundel Community College, A.A. (1976-1978)

HONORARY DEGREES

Honorary Doctorate, Botanical Institute, Russian Academy of Sciences, St. Petersburg, Russia (November 1999)

AWARDS

Top 25 Newsmakers of 2008, For Innovation and Achievement, Engineering News Record, 2008
Distinguished Scientist Award, Shanghai Normal University, Shanghai, China, June, 2011
Stockard Research Fellowship, University of Michigan Biological Station, Summer 2013
Fulbright Research and Teaching Fellowship, Spring 2016 (Poland)
Hundred Talents Program Award, People's Republic of China, Shanxi University, 2017-2022
Teach Algae Award, Phycological Society of America, 2020
Marinus Smith Award, University of Colorado, 2022

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Society of Plant Taxonomists
International Phycological Society
International Society for Diatom Research

PROFESSIONAL EXPERIENCE

Teaching
2023, *Freshwater Phycology in the 21st Century*, Workshop at Mountain Research Station, University of Colorado, Boulder, (July)
2022, *Sistemática, Biogeografía Y Ecología De Diatomeas De Agua Dulce*, Universidad Nacional La Plata, Argentina (November-December)
2019-2023, *Pharmaceutical Discovery from Northern Michigan Blue-Green Algae: Searching for New Antibiotics*, University of Michigan College of Pharmacy, MedChem 447 (August)
2017, *Sistemática, Biogeografía Y Ecología De Diatomeas De Agua Dulce*, Universidad Nacional La Plata, Argentina (November-December)
2016, *Diatoms: Taxonomy, Ecology and Biogeography*, Centrum Dydaktyczno-Badawcze, Nauk Przemysłowych, University of Szczecin, Poland (February-May)

2015, *Identification of Freshwater Diatoms, including Diatom Ecology and Applications of Molecular Biology in Diatom Research*, Shanghai Normal University, China (September)

2013, *Intensive Training Course on Freshwater Algae*, ATREE and Gubbi Labs, Bangalore, India

2011, *Taxonomy and Ecology of Freshwater Algae*, Shanghai Normal University, China

2009-present, University of Colorado, Boulder, Department of Ecology & Evolutionary Biology, *Freshwater Phycology; Diatom Taxonomy and Ecology*

2009-present University of Colorado, Boulder, Museum and Field Studies Program, *Introduction to Museum Studies; Seminar: Contact Zones; Museum Administration*

Summers 2003-2019, Professor, University of Michigan Biological Station, EEB 457 *Algae of Freshwater Ecosystems*; from 2018, *Advanced Freshwater Algae* EEB 405; from 2019 MEDCHEM 447 *Pharmaceutical Discovery from Blue-Green Algae*.

Summer 2001, Visiting Professor, University of Michigan Biological Station, *Algae of Freshwater Ecosystems*

Fall 1997, 1999, Research Professor, San Francisco State University, *Contemporary Issues in Biosystematics*

Summer 1993, Visiting Associate Professor, Iowa Lakeside Laboratory, *Freshwater Algae*

Summers 1992-1996, Visiting Associate Professor, San Francisco State University Field Campus, *Freshwater Algology*

Fall 1991-1996, Guest Lecturer, University of California, Berkeley, *Biology of the Algae*.

Summer, 1991, Guest Lecturer, University of Michigan Biological Station, *Freshwater Phycology*

Fall 1987, Guest Lecturer, Bowling Green State University, *Diatom Systematics*.

Summer 1985, Guest Lecturer, University of Michigan Biological Station, *Freshwater Phycology*.

Summer 1983, Visiting Lecturer, University of Michigan Biological Station, *Freshwater Phycology*.

1982-1983, Teaching Assistant, Department of Botany and Plant Pathology, Oregon State University, *Introductory Botany, Plant Taxonomy*.

1980-1982, Teaching Assistant, Department of Biological Sciences, Bowling Green State University, *Introductory Biology, Cytology*.

Research

2016, Fulbright Scholar, Department of Oceanology, University of Szczecin, Poland

2010-2015, Affiliate, Renewable and Sustainable Energy Institute, University of Colorado, Boulder

2002-present, Honorary Research Fellow, Botany Department, The Natural History Museum, London, U.K.

2000-2008, Curator, California Academy of Sciences

1992-1999, Associate Curator, California Academy of Sciences

1991, 2007, Senior Investigator, University of Michigan Biological Station

1989-1992, Assistant Curator, California Academy of Sciences

1988-1989, Research Fellow, Center for Great Lakes and Aquatic Sciences, The University of Michigan.

1986-1987, Research Assistant II, Great Lakes Research Division, The University of Michigan.

1983-1986, Research Assistant I, Great Lakes Research Division, The University of Michigan.

Administration

Spring 2009-2013, 2018-2020, Director, Museum and Field Studies Master of Science Program, University of Colorado, Boulder

March 2008-June, 2022, Director, Museum of Natural History, University of Colorado, Boulder

1997-2007, Executive Director, California Academy of Sciences

1993-1997, Director of Research, California Academy of Sciences

1990-1992, Chairman, Department of Invertebrate Zoology and Geology, California Academy of Sciences

Faculty Appointments

2017-2022, Professor, Department of Life Science, Shanxi University, Taiyuan, China

2016, Visiting Professor, Department of Biological Sciences, University of Szczecin, Poland

2008-present, Professor, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder

2003-2021, Adjunct Professor, Biological Station, College of Literature, Science and the Arts, The University of Michigan

1998-2021, Adjunct Professor, Department of Geosciences, University of Nebraska, Lincoln
 1997-2008, Consulting Associate Professor, Department of Ecology and Evolutionary Biology, Stanford University
 1997-2008, Research Professor, Department of Biological Sciences, San Francisco State University
 1994, Visiting Professor, Museum National d'Histoire Naturelle, Paris
 1993-2009, Adjunct Professor, School of Natural Resources and Environment, The University of Michigan
 1993, Visiting Associate Professor, The University of Iowa
 1992-1996, Visiting Associate Professor, Sierra Nevada Field Campus, San Francisco State University

Students

Ms. Megan Greenwood, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, 2023-present (Committee Chair)
 Ms. Catherine Ikudaisi, PhD student, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, 2022-present (Committee Chair)
 Mr. Mailor Amaral, PhD student, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, 2022-present (Committee Chair)
 Ms. Margaret Wolf, MS student, Museum and Field Studies, University of Colorado, 2021-2023 (Committee Chair)
 Ms. Madison Hogan, MS student, Museum and Field Studies, University of Colorado, 2020-2022 (Committee Chair)
 Mr. August Danz, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, 2019-2021 (Committee Chair)
 Mr. Kevin Thirouin, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, 2019-2021 (Committee Chair)
 Ms. Alexis Newton, MS student, Museum and Field Studies, University of Colorado, 2018-2020 (Committee Member)
 Ms. Jessica Mailhot, MS student, Museum and Field Studies, University of Colorado, 2018-2020 (Committee Member)
 Mr. Justin Williams, MS student, Museum and Field Studies, University of Colorado, 2018-2020 (Committee Member)
 Ms. Andrea Halling, Ph.D. student, IQ Biology/BioFrontiers and Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, 2019-present (Committee Co-Chair)
 Dr. Yan Liu, Visiting Scholar, Harbin Normal University, Harbin, China 2019 (Primary Advisor)
 Ms. Hannah Fredrick, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, 2018-2021 (Committee Member)
 Mr. Nick Schulte, Ph.D. Student, Department of Environmental Sciences, University of Colorado, Boulder, 2018-2020 (Committee Member)
 Ms. Julie Byle, Independent Study, Museum and Field Studies Program, University of Colorado, Boulder, Fall, 2018
 Mr. Josh Darling, MS Student, Department of Environmental Sciences, University of Colorado, Boulder, 2018-2021 (Committee Member)
 Mr. Josh Darling, Independent Study, Department of Environmental Sciences, University of Colorado, Boulder, Fall, 2018
 Ms. Jordan Swenson, MS student, Museum and Field Studies, University of Colorado, 2018-2020 (Committee Chair)
 Ms. Kelly Martin, MS student, Museum and Field Studies, University of Colorado, 2018-2020 (Committee Member)
 Mr. Aiguo Luo, Ph.D., Botany, Department of Life Science, Shanxi University 2018 (Final Review Committee Member).
 Ms. Junyan Guo, MS, Botany, Department of Life Science, Shanxi University 2018 (Final Review Committee Member).
 Ms. Weiwei Wu, MS, Botany, Department of Life Science, Shanxi University 2018 (Final Review Committee Member).
 Mr. Chaoyan Gong, MS, Hydrobiology, Department of Life Science, Shanxi University 2018 (Final Review Committee Member).

- Mr. Yang Liu, MS, Hydrobiology, Department of Life Science, Shanxi University 2018 (Final Review Committee Member).
- Ms. Josephina Order-Chang, Ph.D. student, School of Education, 2016-2019 (Committee Member)
- Ms. Wendy Child, Undergraduate Independent Study, University of Colorado, 2016-2017, Ecology and Evolutionary Biology
- Mr. Caelin Sheehan, Undergraduate Independent Study, University of Colorado, 2016-2017, Ecology and Evolutionary Biology
- Ms. Sarah Spotten, Undergraduate Independent Study, University of Colorado, 2016-2017 (UROP funded), Ecology and Evolutionary Biology
- Mr. Patrick Morrison, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, 2016-2018, (Committee Chair)
- Ms. Veronica Roscona, MS student, Museum and Field Studies, University of Colorado, 2016-2018 (Committee Chair)
- Ms. Rebecca Swanson, Ph.D. student, School of Education, University of Colorado, 2016-2018, (Committee Member)
- Ms. Carly Anderson, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2016-present, (Committee Member)
- Ms. Noelia Uyua, Visiting Ph.D. Student, Universidad Nacional de la Patagonia San Juan Bosco, Laboratorio de Hidrobiologia, 2016 (Primary Advisor); Fulbright funded
- Ms. Lara Vimercati, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2016-2020, (Committee Member)
- Dr. Qingmin You, Visiting Scholar, Shanghai Normal University, Shanghai, China 2015-2017 (Primary Advisor)
- Dr. Yan Liu, Visiting Scholar, Harbin Normal University, Harbin, China 2015-2017 (Primary Advisor)
- Ms. Jayna Sames, CLEAR Fellowship Student, University of Michigan Biological Station, Summer 2015
- Ms. Ella Salvator, Undergraduate Independent Study, Department of Ecology and Evolutionary Biology, Spring 2015
- Dr. Katerina Kopalova, Post-Doctoral Fellow, University of Charles, Prague, Czech Republic, 2014.
- Mr. Drew Meyers, Undergraduate Independent Study, University of Colorado, 2014-2015 (UROP funded), Ecology and Evolutionary Biology
- Ms. Antonette Hrycyk, MS student, Museum and Field Studies, University of Colorado, 2013-2015 (Committee Chair)
- Ms. Meredith George, MS student, Museum and Field Studies, University of Colorado, 2013-2015 (Committee Chair)
- Ms. Vanessa Diaz, MS student, Museum and Field Studies, University of Colorado, 2013-2016 (Committee Member)
- Ms. Jing Li, Visiting Ph.D. student, Xiamen University, 2013-2015 (Primary Advisor)
- Ms. Qi Liu, Visiting Ph.D. student, Shanghai Normal University 2013-2014 (Primary Advisor)
- Ms. Emily Johnston, Ph.D. student, University of Hawaii, Manoa 2012-2018 (Committee Member)
- Ms. Melanie Kenney, MS. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2012-2014 (Committee Member)
- Ms. Aly Schneeberger, MS student, Museum and Field Studies, University of Colorado, 2012-2014 (Committee Member)
- Mr. Tyler Kohler, Ph.D. student, Department of Environmental Studies, University of Colorado, 2012-2015, (Committee Member)
- Dr. Sarah Hamsher, Post-Doctoral Fellow, 2012-2015, (Faculty Advisor)
- Mr. Frank Fields, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, 2012-2014, (Committee Chair)
- Ms. Hannah Filkins, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, 2012 (Committee Chair)
- Ms. Katherine Kavulic, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, 2012-2014, (Committee Chair)
- Ms. Krystin Norman, Undergraduate Independent Study, University of Colorado, 2012 (UROP funded), MCDB
- Ms. Claudia Pichardo, MS student, Museum and Field Studies, University of Colorado, 2012-2017 (Committee Chair)

- Mr. Frank Fields, Undergraduate Independent Study, University of Colorado, 2012, ENVS
- Mr. Zachary Leibowitz, Undergraduate Independent Study, University of Colorado, 2012, EBIO
- Ms. Mindy Bridges, Undergraduate Independent Study, University of Colorado, 2012, ANTHRO / EBIO
- Mr. Jack Darcy, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2011-2017, (Committee Member)
- Ms. Kathryn Zullo, MS student, Museum and Field Studies, University of Colorado, 2011-2013 (Committee Member)
- Mr. Gaurav Vaidya, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2011-2017 (Committee Member)
- Ms. Yasmin Anoushiravani, Undergraduate Research Assistant, University of Colorado, 2011, EBIO
- Ms. Katherine Kronen, Undergraduate Independent Study, University of Colorado, 2011, EBIO
- Mr. Hayden Ripple, Undergraduate Independent Study, University of Colorado, 2011-2012, EBIO
- Mr. Michael Rose, Undergraduate Research Assistant, University of Colorado, 2010-2012, MCDB
- Ms. Laura Miscoe, Undergraduate Research Assistant, University of Colorado, 2010-2011, EBIO
- Ms. Ariel Hagan, MS student, Department of Art and Art History, University of Colorado, 2010-2011 (Committee Member)
- Mr. Tyson Burch, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2010-2016, (Committee Member)
- Mr. Andrew Hill, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2010-2013, (Committee Member)
- Ms. Rachel Asquith, MS student, Museum and Field Studies, University of Colorado 2010-2012, (Committee Chair)
- Mr. Joshua Stepanek, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2010-2016, (Committee Chair)
- Ms. Yan Liu, College of Life Science, Zhejiang University, Hangzhou 310058, China, Research Fellow, 2010 (Faculty Advisor)
- Dr. Karthick Balsubramanian, Energy and Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012, India, Post-Doctoral Fellow, 2010; 2012 (Faculty Advisor)
- Ms. Rebecca Wahlberg, MS student, Museum and Field Studies, University of Colorado 2009-2011, (Committee Chair)
- Ms. Jessica Brunecky, MS student, Museum and Field Studies, University of Colorado, 2008-2010, (Committee Chair)
- Ms. Cassiope Sydoriak, Art History, Anthropology, Italian, University of Colorado, (BA, Senior Thesis Committee Member)
- Dr. Ana Luiza Miranda Burliga, Laboratório de Estudos de Impactos Ambientais, UNIVALI – Rua Uruguai 458 - Bloco 20 sala 139, Itajaí, SC, Brazil, Post-Doctoral Fellow 2009-2010 (Faculty Advisor)
- Ms. Carrie Graeff, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, 2009-2011, (Committee Chair)
- Mr. Evan Thomas, Ph.D. student, Department of Ecology and Evolutionary Biology, University of Colorado, 2009-2016, (Committee Chair)
- Ms. Carly Rixham, MS student, Department of Ecology and Evolutionary Biology, University of Colorado, 2009-2011, (Committee Member)
- Ms. Janice Brahney, Ph.D. student, Department of Geology, University of Colorado, 2008-2012, (Committee Member)
- Ms. Tisza Bell, MS student, Department of Environmental Sciences, University of Colorado, 2008-2010 (Committee Member)
- Ms. Lee Standish, Ph.D. student, Department of Environmental Sciences, University of Colorado, 2008-2011, (Committee Member)
- Mr. Ted Bambakidis, MS student, Department of Biological Sciences, Bowling Green State University, 2008-2009 (Committee Member)
- Dr. Berengere Laslandes, Post-Doctoral Fellow, 2007-2009 (Faculty Advisor)
- Ms. Mary Ellen Benson, Ph.D. student, Department of Geology, University of Colorado, 2007-2011, (Committee Member)
- Ms. Kari Burr, MS student, University of the Pacific, 2007-2009 (Committee Member)

Mr. Gino Davis, undergraduate intern, Howard University, UMBS REU program, Summer 2007
 Ms. Stephanie Mixson, undergraduate research intern, Wake Forest University, UMBS Summer 2007
 Dr. Kasia Stachura-Suchoples, Post-Doctoral Fellow, 2000-2002 (Faculty Advisor)
 Dr. Elisabeth Fourtanier, CAS Post-Doctoral Fellow, 1994-1997 (Faculty Advisor)
 Dr. Sarah Spaulding, CAS Post-Doctoral Fellow, 1996-1997 (Faculty Advisor)
 Mr. Mathew Julius, Ph.D. student, University of Michigan, 1996-2000 (Committee Member)
 Ms. Elizabeth Ruck, MS student, San Francisco State University, 1998-2002 (Committee Chair, Thesis advisor)
 Ms. Zoe Knesl, MS student, San Jose State University, 1999-2002 (Committee Member)
 Mr. David Wong, undergraduate intern, San Francisco State University, 1996-1998
 Ms. Delina Lyon, undergraduate intern, St. Mary's College of Maryland, CAS Summer Systematics Institute, 1997
 Ms. Kristina Rhode, undergraduate intern, The Evergreen State College, CAS Summer Systematics Institute, 1995

Outside Student Review (Ph.D.)

Manipal University, Manipal, India (M. Munsli, "Prioritizing freshwater habitats for conservation of biodiversity of India"); 2016
 University of Queensland, Australia (D.S. Gale, "Diatoms as indicators of ecological change in freshwater reservoirs of SouthEast Queensland: Diatoms as indicators in SouthEast Queensland"); 2015

GRANTS AND AWARDS

2022-2025 "Collaborative Research: PurSUiT: Phylogenomics and taxonomic revision of Rhopalodiales-diatoms with obligate cyanobacterial endosymbionts." National Science Foundation, \$1,184,111 (With J. Li, S. Miller and S. Hamsher)
 2019-2023 "Algal Taxonomic Identification and Analysis for the National Ecological Observatory Network (NEON)" \$761,000
 2019-2023 "Revitalizing the Exhibitions of Chapin Mesa Archaeological Museum", National Park Service, \$255,000
 2017-2020 "One Hundred Talents Award" People's Republic of China, Shanxi University. \$125,000
 2016-2017 "DiatomBase: A new database for diatom names. World Registry of Marine Species: \$18,545
 2014-2015 "Diatoms of Rocky Mountains National Park" National Park Service, \$13,865.
 2013: "A Biological Survey of the Freshwater Algae and Benthic Macroinvertebrates of Rivers of the Western Ghats, India, National Geographic Society, \$19,000
 2011-2012: "Developing a Roadmap to the Diatoms with Greatest Oil Production" University of Colorado Innovative Seed Grant Award, \$48,300.
 2010-2012: "Development of an On-Line Diatom Identification System." United States Geological Survey. \$100,000.
 2009-2011: "EAGER: Land use and climatic controls on dust deposition," (with J. Neff), NSF, Early-concept Grants for Exploratory Research Program (EAGER) \$250,681.
 2009-2012: Freshwater Algal Flora of Hawaii, NSF, Collaborative Research/Biotic Surveys and Inventories, grant 0841774 (with A. Sherwood, R. Lowe and J. Johansen). \$998,235.
 2008-2012: Diatom analysis. State of California, State Water Assessment and Mapping Program. \$394,395.
 2007-2008: Diatom Remains: National Lakes Assessment. United States Environmental Protection Agency. \$142,500.
 2007-2011: Development of multivariate tools for setting numeric nutrient targets including a periphyton Index of Biotic Integrity. (with B. Fetscher and R. Sheath), State of California Water Resources Control Board. Proposal Number 9031. \$1,387,996.
 1999-2002: An inventory of scaled chrysophytes and diatoms in seepage lakes along the east coast of the United States: A basis for the future conservation of microscopic organisms. National Science Foundation, DEB-9972120 (with P. Siver). \$275,000
 1999: Biodiversity Observatories Network. Supplement to: A Verified Database of Diatom Names. National Science Foundation, DEB-9505269. \$48,000.
 1998-2001: KDI: Knowledge Networking of Biodiversity Information. National Science Foundation, DBI-9873021, subcontract from the University of Kansas. \$55,000.

- 1997: Participation in Diatom Evolution Workshop, Bremerhaven, Germany. Volkswagon Foundation.
- 1996-1997: Taxonomy of freshwater algae and diatoms from the Ozark Plateau. United States Geological Survey, NAWQA Program. \$20,850.
- 1996-1998: The California Academy of Sciences' Summer Systematics Institute as a REU site. National Science Foundation. \$125,000
- 1995-1998: A Verified Database of Diatom Names. National Science Foundation, DEB-9505269. \$239,969
- 1994-1995: A database of freshwater diatoms of the United States. U.S. Environmental Protection Agency. \$18,843
- 1994: Diatom Taxonomy for Paleoclimate Research. National Oceanic and Atmospheric Administration. \$25,000
- 1993: Geneva Sayre Fund Fellowship, Farlow Cryptogamic Herbarium, Harvard University
- 1993: Research Assistantships for Minority High School Students, Supplement to: Conservation, Processing and Computerization of the Diatom Collection of the California Academy of Sciences, National Science Foundation. \$9,412
- 1992: Research Assistantships for Minority High School Students, Supplement to: Conservation, Processing and Computerization of the Diatom Collection of the California Academy of Sciences, National Science Foundation. \$2,300
- 1991-1994: Conservation, Processing and Computerization of the Diatom Collection of the California Academy of Sciences, National Science Foundation, BRR-9017609. \$234,764
- 1988-1990: Phylogenetic Relationships and Evolutionary History of the Freshwater, Apical Pore Field-Bearing Cymbelloid and Gomphonemoid Diatoms; National Science Foundation, BSR-8722516 (with E.F. Stoermer). \$120,112
- 1985-1987: Taxonomy, Systematics and Biogeography of the diatom genus *Gomphoneis*; National Science Foundation, BSR-8500263 (with E.F. Stoermer). \$117,945
- 1985-1987: School of Natural Resources Merit Scholarship. \$1,000

MISCELLANEOUS ACTIVITIES

American Association for the Advancement of Science, Fellow, elected 1998.
California Academy of Sciences, Fellow, elected 1993.

American Association of Museums, Board of Trustees 2005-2008; Member: Finance Committee; Chair, Audit Committee; Accreditation Review Committee 1999-present; Task Force on Governance, 2000.

National Academy of Sciences, Committee on Smithsonian Scientific Research, 2002: *Funding Smithsonian Scientific Research*. The National Academies Press.

American Association for the Advancement of Science, Institutional Representative/Biological Sciences, 1993-2007.

Association of Systematics Collections: Board of Trustees 1998-2001; Steering Committee on Governmental Affairs, 1994; Committee on Long-Range Planning 1996.

Blue Ribbon Panel for Partnerships for Enhancing Expertise in Taxonomy, Special Competition, National Science Foundation

National Science Foundation Panels: Biotic Surveys & Inventories (1995); Systematics and Biodiversity Science (2021)

Review Committee, University of California Museum of Paleontology, 1997

Planning Consultant, Bell Museum of Natural History, University of Minnesota, Minneapolis, MN; June 2000

Proposal Reviewer: National Science Foundation; International Science Foundation (Russia); Institute for Museum and Library Services; Czech Science Foundation; Country of Luxembourg; Fulbright Foundation; National Geographic; Austrian Science Foundation; Kuwait Foundation for the Advancement of Sciences;

Polish National Science Foundation; Swiss Academy of Sciences (SwissCollNet); American Philosophical Society (Lewis and Clark Grant Program)

Tyge Christensen Prize Selection Committee, International Phycological Society, 2020, 2021, 2022.

Series Editor: *Bibliotheca Diatomologica* (2005-present)

Journal Editor: *Diatom Research* (2007-2010)

Journal Editor (Section Editor for Diatoms): *Phytotaxa* (2012-2014)

Associate Editor: *Journal of Phycology* (2007-2012); *Phycologia* (2012-2016)

Editorial Boards: *Iheringia* (Botanical Society of Porto Alegre, Brazil) (2012-present); *Marine Biological Journal* (2015-present); *Fottea* (2017-present); *Taxonomy* (2021-present)

Editor-in-Chief, DiatomBase (www.diatombase.org)

Editorial Review Board: *Diatoms of the United States* (<https://westerndiatoms.colorado.edu/>) (2011-2016)

International Society for Diatom Research: President 1996-1998; Executive Council 1992-2000

Journal Reviewer: *Diatom Research*, 1986-2022; *Journal of Phycology*, 1987-2022; *Proceedings of the Academy of Natural Sciences of Philadelphia*, 1988-2010; *Phycologia* 1990-2022; *Cryptogamie*, *Algologie* 1993-2019; *Nova Hedwigia* 1997-2019; *Phytotaxa* 2012-2023. Also: *Acta Botanica Croatia*, *Acta Oceanologica Sinica*, *Acta Phytotaxonomica Sinica*, *Algae* (Korean Journal of Phycology), *Algological Studies*, *Journal of Applied Ecology*, *Argentinian Journal of Botany*, *Biology Letters*, *Boletín Real Sociedad Española de Historia Natural*, *Botany*, *Botany Letters*, *Brazilian Journal of Botany*, *Bulletins of American Paleontology*, *Canadian Journal of Botany*, *Cladistics*, *Diatom*, *Ecography*, *European Journal of Phycology*, *European Journal of Taxonomy*, *Fottea*, *Freshwater Biology*, *Hydrobiologia*, *Journal of Applied Phycology*, *Journal of the Botanical Society of India*, *Journal of Great Lakes Research*, *Journal of Micropaleontology*, *Journal of Nanotechnology*, *Journal of Paleolimnology*, *Journal of the Polish Botanical Society*, *Journal of Systematics and Evolution*, *Chinese Journal of Oceanology and Limnology*, *Limnology and Oceanography*, *Macedonian Academy of Arts and Letters*, *Micropaleontology*, *Molecular Phylogenetics and Evolution*, *Nature*, *Naturwissenschaften*, *Nordic Journal of Botany*, *Northwest Science*, *Nova Hedwigia Beihefte*, *Novitates Systematicae Plantarum non Vascularum*, *Oceanology & Hydrobiological Studies*, *Open Journal of Modern Hydrology*, *Oxford Bibliographies*, *Paleobiology*, *Paleobotany and Palynology*, *PeerJ*, *Philippine Journal of Science*, *Phycological Research*, *Plant Ecology and Evolution*, *Polish Botanical Journal*, *Proceedings of the California Academy of Sciences*, *Proceedings of the International Diatom Symposia* (last 15 symposium proceedings), *Proceedings of the Royal Society B*, *Protist*, *Revista Biologia Tropica*, *Revista Ecologia Austral*, *Scientific Reports (Nature)*, *Taxon*, *Taxonomy*, *Water*.

Academic Service: Co-convenor, 11th International Diatom Symposium, San Francisco, CA, 12-17 August, 1990. Convenor, Biodiversity of the Sierra Nevada and the Functional Role of Wild Species, 29-30 April, 1995. Co-convenor, Origin and Early Evolution of the Diatoms: Fossil, Molecular and Biogeographical Approaches, 24-25 October, 1999. Organizing Committee, 15th German-Speaking Diatomists Meeting, March, 2001. Co-Organizer: Ecology and Taxonomy of Diatoms: A Marriage of Necessity: a Workshop. University of Szczecin, Poland, 23-27 October, 2002. Program Committee, 18th International Diatom Symposium, Szczecin, Poland, September 1-7, 2004. Program Committee, Instruments, Methods and Missions for Astrobiology X. SPIE Optics and Photonics Conference, 28-30 August, 2007. Convenor, 19th North American Diatom Symposium, University of Michigan Biological Station, 12-16 September, 2007. Scientific Program Committee, 20th International Diatom Symposium, Dubrovnik, Croatia, September 8-13, 2008. Scientific Program Committee, Van Heurck Symposium, Antwerp, Belgium August, 2009. Scientific Program Committee, Russian Diatom School 2013. Scientific Program Committee, Central European Diatom Meeting, Zagreb, Croatia, April 2014. Co-convenor, Meaning of Names in the 21st Century: Naming Diversity, Boulder, CO, September-October 2014. Scientific Program Committee, Russian Diatom School 2015. Scientific Program Committee, Problems of Systematics and Geography of Aquatic Plants", I.D. Papanin Institute for Biology and Inland Waters, Russian Academy of Sciences, October 2015. Scientific Program Committee, 10th Central European Diatom Meeting, Budapest, Hungary, 2016, Scientific Program Committee, 11th Central European Diatom

Meeting, Prague, Czech Republic, 2017, Scientific Program Committee, Russian Diatom School 2017, Borok, Russia. Scientific Program Committee, 12th Central European Diatom Meeting, Belvaux, Luxembourg, 26-27 March, 2019; Scientific Program Committee, XVII International Scientific Conference, “Diatoms; morphology, biology, taxonomy, floristry, ecology, paleogeography, biostratigraphy” Minsk, Belarus, August 23-28, 2021; Co-Chair, Taxonomy and Systematics Session, 8th European Phycological Congress, Brest, France, August 20-26, 2023.

PUBLICATIONS

Books and Monographs

Kociolek, J.P. & Kulikovskiy, M.S. [Eds]. 2018. *Taxonomy, Systematics and Biogeography of Fossil and Recent Algae. Festschrift Honoring Galina Khursevich*. Beihefte Nova Hedwigia 147. 372p. ISBN 978-3-443-51069-5.

Stepanek, J.G. & Kociolek, J.P. 2018. *Amphora and Halamphora* from coastal and inland waters of the United States and Japan, with the description of 33 new species. *Bibliotheca Diatomologica* 66: 1-280. ISBN 978-3-443-57057-6.

Liu, Y., Kociolek, J.P., Wang, Q.X. & Fan, Y.W. 2018. The diatom genus *Pimmularia* from Great Xing'an Mountains, China. *Bibliotheca Diatomologica* 65: 1-298. ISBN 978-3-443-57056-9.

Liu, Q., Kociolek, J.P., Li, B., You, Q., & Wang, Q. 2017. The diatom genus *Neidium* Pfitzer (Bacillariophyceae) from Zoige Wetland, China. *Bibliotheca Diatomologica* 63: 1-120.

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- Lowe, R.L. & Kociolek, J.P. 1984. New and rare diatoms from Great Smoky Mountains National Park. *Nova Hedwigia*, 39: 465-476.
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- Kociolek, J.P., Lamb, M.A. & Lowe, R.L. 1983. Notes on the growth and ultrastructure of *Biddulphia laevis* Ehr. (Bacillariophyceae) in the Maumee River, Ohio. *Ohio Journal of Science* 83: 125-130.

PUBLICATIONS ON MUSEUMS

- Kociolek, J.P., McDonald, R., Reynolds, L.J. & Knievel, J. 2022. The Cultural Heritage Collaborative: Shared Mission, Expertise and Spaces for Natural History and Library Collections (University of Colorado Boulder), Pp 63-71 In: "Cultural Heritage and the Campus Community: Academic Libraries and Museums in Collaboration."
- Kociolek, J.P. 2015. The BioLounge at the University of Colorado Museum of Natural History. Pp. 91-98, In: J. Decker [Ed.], *Innovative Approaches for Museums*. Rowman & Littlefield. ISBN-13: 978-1442238756.
- Diamond, J. & Kociolek, J.P. 2012. Pattern and Process: Natural History Museum Exhibits on Evolution. Pp. 375-388 In: K.S. Rosengren, S.K. Brem, E.M. Evans & G.M. Sinatra [eds], *Evolution Challenges: Integrating Research and Practice in Teaching and Learning about Evolution*. Oxford University Press.
- Kociolek, J.P. 2006. A Sustainable Academy: The New California Academy of Sciences. *Museums and Social Issues* 1: 191-202.
- Kociolek, J.P. 2004. The California Academy of Sciences: 150 years young with a vision for the future. *Proceedings of the California Academy of Sciences* 55, Supplement 1: 307-314.

MANUSCRIPTS IN REVIEW

Liu, Y., Kociolek, J.P., Chen, X., Lu, X., & Fan, Y. A new freshwater diatom genus (Naviculaceae: Bacillariophyta) from Guangxi Autonomous Region, China. *Fottea*.

Liu, Q., Liu, E., You, Q., Wang, Q., Kociolek, J.P. & Xie, S. New and interesting diatoms from the Shiwan wetwalls, Yunnan Province, China. III. Valve ultrastructure of four new species of *Eunotia* (Bacillariophyceae: Eunotiales). *Phytotaxa*.

Yu, P., Luo, F., You, Q., Kociolek, J.P., Pang, W., Cao, Y. & Wang, Q. Two new Stephanodiscaceae species (Bacillariophyta) from the southwest of China. *Journal of Oceanology and Limnology*.

Xiang, Y., Kociolek, J.P., Wang, J, Xie, S. & Liu, Q. Morphology, Phylogeny, and Chloroplast Genome of *Orthoseira sinensis* sp. nov. (Orthoseiraceae), a New Species from Yunnan, China. *Taxon*.

Mironov, A., Glushchenko, A., Maltsev, Y., Genkal, S., Kuznetsova, I., Kociolek, J.P. & Kulikovskiy, M. Reassessment of pore occlusions in some diatom taxa with a re-evaluation of *Placoneis Mereschkowsky* (Bacillariophyceae: Cymbellales) and description of two new genera. *PeerJ*.

ELECTRONIC PUBLICATIONS AND RESOURCES

CD-ROM

"Life Map". An Interactive CD-ROM product detailing the hierarchy of Life. Vol. I. Organic Diversity. 1992. Warner New Media, WNM 14015

WORLD WIDE WEB

Kociolek, J.P.; Balasubramanian, K.; Blanco, S.; Coste, M.; Ector, L.; Liu, Y.; Kulikovskiy, M.; Lundholm, N.; Ludwig, T.; Potapova, M.; Rimet, F.; Sabbe, K.; Sala, S.; Sar, E.; Taylor, J.; Van de Vijver, B.; Wetzel, C.E.; Williams, D.M.; Witkowski, A.; Witkowski, J. 2018-2022. DiatomBase. Accessed at <http://www.diatombase.org>.

Kociolek, J.P. 2012. Diatoms of the Southern California

Bight. http://dbmuseblade.colorado.edu/DiatomTwo/dscb_site/index.php.

Over 120 taxon pages have been published (with peer review) for the Freshwater Diatom Flora of the United States (<https://westerndiatoms.colorado.edu/>).

"Catalogue of Diatom Names, California Academy of Sciences, On-line Version." Compiled by Elisabeth Fourtanier & J. Patrick Kociolek. September 2007. (Updated December 2007; July 2009; January 2010; September 2011). Available online at <http://www.calacademy.org/research/diatoms/names/index.asp>

"The Diatom Collection of the California Academy of Sciences"

<http://www.calacademy.org/research/diatoms> March 1996 (updated 2006).

"Algal Taxonomic Hierarchies and the Diatoms of the United States" (<http://www.itis.gov>)

BOOK REVIEWS

Kociolek, J.P. and Theriot, E.C. 1986. Review of: D.M. Williams, 1985, "Morphology, Taxonomy and Inter-relationships of the Ribbed Araphid Diatoms from the genera *Diatoma* and *Meridion* (Diatomaceae, Bacillariophyta)." *Phycologia* 25: 585-586.

Kociolek, J.P. 1991. Review of: F.E. Round, R.M. Crawford and D.G. Mann, 1990, *The Diatoms*. Cambridge University Press, London. 747p. *J. Paleolimnology* 5: 189-194.

Kociolek, J.P. 1995. Review of: E. Reichardt, 1995, *Iconographia Diatomologica*, Volume 1, Die Diatomeen (Bacillariophyceae) in Ehrenbergs Material von Cayenne, Guyana Gallica (1843). Koeltz Scientific Books, USA. 53 p. *Diatom Research* 10: 361-362.

- Kociolek, J.P. 1997. Review of: H. Lange-Bertalot & D. Metzeltin, 1996, *Iconographia Diatomologica* Volume 2, Ecology-Diversity-Taxonomy. Indicators of Oligotrophy. Koeltz Scientific Books, Koenigstein. 390 p. *Phycologia* 36: 255-256.
- Kociolek, J.P. 1997. Review of: E.J. Cox, 1996, Identification of Freshwater Diatoms from Live Material. Chapman & Hall, 158 p. *Diatom Research* 12: 369-370.
- Kociolek, J.P. 2000. Review of: E. Reichardt, 1999, *Iconographia Diatomologica* volume 8, Zur Revision der Gattung *Gomphonema*. Koeltz Scientific Books, Koenigstein. 203 p. *Diatom Research* 15: 420-422.
- Kociolek, J.P. 2002. Review of: K. Krammer, 2000, Diatoms of Europe, volume 1, The Genus *Pinnularia*. A.R.G. Gantner Verlag K.G., Ruggell. *Diatom Research* 17: 467-470.
- Kociolek, J.P. 2012. Review of: J.P. Smol & E.F. Stoermer [Eds], 2010. The Diatoms: Applications for the environment and earth sciences. *Paleontologica Electronica.org*, Volume 15, Number 2, May-August, 2012. PE Review Number 15.1.2R.

PRESENTATIONS

Invited Papers and Seminars

Scientific Research

- “One Step Forward, Two Steps...” presented at Taxonomy and Systematics Session at the 8th European Phycological Congress, Brest, France, 21 August, 2023
- “Grades and Clades: Important Insights and Crucial Gaps in our Understanding of Diatom Phylogeny and Classification” presented at the Diatom Web Academy, 13 April 2021 [presented virtually]
- “Algae are Good” presented at the Hydrologic Science Symposium 2021 at the University of Colorado, Boulder, CO. 9 April, 2021 [presented virtually]
- “Freshwater Diatom Biogeography: A Phylogenetic Perspective” Keynote address at the European Diatom Meeting held on-line, 3 March, 2021 [presented virtually]
- “Freshwater diatom biodiversity discovery and description in China” presented at the School of Life Sciences, Shanghai Normal University, 25 June, 2020.
- “Rampant homoplasy in raphid diatom evolution: Impacts on classification” presented at the School of Life Sciences, Xiamen University, China, 28 November, 2019
- “Morphological diversity of the diatom genus *Gomphonema* C.G.Ehrenberg (Bacillariophyta): Recognition at the level of genus and the importance of Asia” keynote address presented at the Chinese Society of Oceanology and Limnology, Qingdao, China, 24 November, 2019.
- “Diversity and Biogeography of Morphological groups in the diatom genus *Gomphonema*” presented at the School of Life Science, Shanxi University, 18 November, 2019.
- “Freshwater Microbial Biogeography: Examples from the Diatoms” presented at the Center for Limnology, Universidad Nacional La Plata, Argentina, 13 May, 2019
- “Freshwater Diatom Biogeography and the Importance of Asia in the Evolution of Diatom Genera” presented at the School of Life Science, Shanxi University, 2 January, 2019
- “Freshwater Diatom Biogeography and the Importance of Asia in the Evolution of Diatom Genera” presented at the Sino-American Algal Biodiversity Workshop at the College of Life Sciences and the Environment, Shanghai Normal University, 29 December, 2018.
- “A Phylogenetic Perspective of the Biogeography of Freshwater Diatom Genera and the Importance of Asia to Diatom Evolution” presented at the College of Sciences, Harbin Normal University, 27 December, 2018.
- “Diatom-Human Interactions” presented at the Department of Biological Sciences and Center for Advanced Science and Technology of the Fehni River Valley, Taiyuan Normal University, Taiyuan, China, 31 May, 2018.
- “Diatom-Human Interactions” Commemorative Address celebrating the 60th Anniversary of the Founding of University, Jinzhong University, Jinzhong, China, 29 May, 2018.
- “Freshwater Diatom Biogeography” presented at the School of Life Science, Shanxi University, 22 May, 2018.

- “Freshwater Diatom Taxonomy” presented at the national key project of biodiversity investigation and assessment--plankton & periphytic algae in Poyang Lake Training Course, offered at Shanghai Normal University, 8 January, 2018.
- “Rampant Homoplasy in Raphid Diatoms” at the 2nd Sino-American Workshop on Freshwater Diatom Taxonomy and Ecology, convened at Shanghai Normal University, 7 January, 2018.
- “Diatom-Human Interactions” invited speaker at School of Life Sciences, Shanxi University, Taiyuan, China, 5 January, 2018.
- “Freshwater Diatom Biogeography: From ‘Everything is Everywhere’ to Endemism and Beyond” invited speaker in special session at the 11th International Phycological Congress, Szczecin, Poland, 15 August, 2017.
- “Beyond Names: Developing a names database and other applications for Diatoms” invited speaker at special session at the 11th International Phycological Congress, Szczecin, Poland, 17 August, 2017.
- “Freshwater Diatom biogeography: From ‘Everything is Everywhere’ to Phylogeography” plenary speaker, Phycological Society of America annual meeting, Cleveland, OH, 27 July 2016.
- “Freshwater Diatom biogeography: Beyond Endemism” presented at Institute of Botany, Polish Academy of Sciences and Jagiellonian University, Krakow, Poland, 19 May, 2016
- “Freshwater Diatom biogeography: Beyond Endemism” presented at Charles University, Prague, Czech Republic, 26 April, 2016
- “The Diatoms and their applications” presented at the Department of Environmental Engineering, University of Warmia and Mazury, Olsztyn, Poland, 10 March, 2016
- “The Diatoms: Introduction and notes on the biogeography of freshwater forms” presented at the College of Sciences, Harbin Normal University, 26 September, 2015
- “Freshwater Diatom biogeography 2.0” plenary address, 23rd North American Diatom Symposium, Central Michigan University Biological Station, Beaver Island, Michigan, 10 September, 2015
- “Freshwater gomphonemoid diatom systematics and biogeography” presented at Shanghai Normal University, September 13, 2014
- “Freshwater gomphonemoid diatom systematics and biogeography: connections between Asia and North America.” Special Session Eugene F. Stoermer Tribute. North American Diatom Symposium August 15, 2013
- “New insights into Diatom Biology and Phylogeny” presented at the Bicentennial Celebration for the Academy of Natural Sciences of Drexel University, “Biodiversity: From Evolutionary Origins to Ecosystem Function” October 12, 2012
- “New insights into the systematics of raphid diatoms based on molecular and morphological data” Special Symposium, “Avanços na taxonomia e biogeografia de diatomáceas: perspectivas para o Brasil”, XIV Congresso Brasileiro de Ficologia, João Pessoa, Brasil, 18 July, 2012
- “Informatics and websites related to freshwater diatom taxonomy” XIV Congresso Brasileiro de Ficologia, João Pessoa, Brasil, 20 July, 2012
- “The diatom genus *Nitzschia* in US freshwaters”, College of Life Sciences, Shanghai Normal University, Shanghai, China, June 2012.
- “New insights into our understanding of the diatoms” Xiamen University, Xiamen, China, June, 2012
- “Promise and challenges of using diatoms to evaluate environmental change” NEON, Inc, Boulder, CO, 24 October, 2011.
- “New approaches to diatom taxonomy, systematics and biogeography” Sino-American Workshop on diatom taxonomy and ecology, Shanghai Normal University, Shanghai, China, June, 2011
- “Diatom systematics and biogeography: Prospects for the future” Harbin Normal University, Harbin, China, June 2011.
- “The Ecology and Natural History of Freshwater Algae” Colorado Reservoir and Lakes Management Association, Colorado Department of Wildlife, Denver, CO, August, 2010
- “Diatoms: Eukaryotic Extremophiles Responsible for Planetary Impacts” Departments of Geography and Oceanology, October 6, 2009, University of Szczecin, Poland
- “Freshwater gomphonemoid and cymbelloid diatom phylogeny: Systematics and biogeography” XIth International Scientific Conference of Diatomologists from Countries of the Former Soviet Union, Minsk, October 2009

- “The triple helix of genetics, development and environment on variation of diatom valves”, XIth International Scientific Conference of Diatomologists from Countries of the Former Soviet Union, Minsk, October 2009
- “Phylogenetic relationships of freshwater cymbelloid and gomphonemoid diatoms: An update” North American Diatom Symposium, Iowa Lakeside Lab, September 2009
- “Diatoms: Miraculous Microbes” presented at St. Mary’s College of Maryland, St. Mary’s City, MD, 25 March, 2009.
- “Diatoms: Unique eukaryotic extremophiles providing insights in planetary change” presented at the SPIE Optics and Photonics Meeting, San Diego, CA, 29 August, 2007.
- “Taxonomy, Systematics and Biogeography of Freshwater Diatoms” presented at the University of Colorado, Boulder, CO, July, 2007.
- “Biogeography of Freshwater Diatoms” presented at St. Petersburg State University, Russia, 29 October, 2002.
- “Taxonomy and ecology: a marriage of necessity. In Introduction” presented at Ecology and Taxonomy of Diatoms: a Marriage of Necessity. A workshop. University of Szczecin, Poland, 23-27 October, 2002.
- “Taxonomy and ecology of freshwater diatoms: missed opportunities and a look to the future” presented at Ecology and Taxonomy of Diatoms: a Marriage of Necessity. A workshop. University of Szczecin, Poland, 23-27 October, 2002.
- “Biogeography, phylogenetic relationships and species concepts in freshwater diatoms” presented at the University of Nebraska State Museum, Lincoln, December 2001
- “Species Concepts in Diatoms: Historical Overview and Current Concepts”, Special Symposium, 5th International Chrysophyte Symposium, Southern Illinois University, 31 July, 1999.
- “Phylogeny and Biogeography of Freshwater Diatoms: A Cladistic Perspective”, plenary address, 17th Symposium of the Algological Section of the Polish Botanical Association, Lukecin, Poland, 9 May, 1998.
- “Evolutionary History of Freshwater Diatom Lineages” presented at the workshop on Diatom Evolution, Alfred Wegner Institute, Bremerhaven, Germany, June 2, 1997.
- “Consistent Versus Correct Taxonomy: Implications for Large Monitoring Programs” presented at the National Water Quality Lab, United States Geological Survey, Arvada, CO, May, 1996
- “Diatom Systematics and Biogeography” presented at the California Academy of Sciences, San Francisco, July, 1995
- “Systematics and Biogeography of Diatoms” presented at the University of Nebraska State Museum, Lincoln, 18 May, 1995
- “Electronic approaches to diatom identification” presented at the 4th Arctic and Antarctic Diatom Symposium, Ottawa, Canada, 20 September, 1993.
- “Diatom Phylogeny and Biogeography” presented at Iowa Lakeside Laboratory, 20 June, 1993.
- “Microbial Diversity” presented at the Fourth Annual Natural Diversity Forum, California Senate Committee on Natural Resources and Wildlife, 17 November, 1992.
- “New Perspectives on Diatom Phylogeny” presented at the Biology Colloquium, Sonoma State University, 19 February, 1991.
- “Diversity and Phylogenetic Relationships of Freshwater Gomphonemoid Diatoms” presented at The Academy of Natural Sciences of Philadelphia, 5 February, 1991.
- “A Consideration of Time, Space, Size, and Environment in the Evolution of the Diatom Genus *Gomphoneis*” presented at the Botany Department, The Natural History Museum, London, 4 April, 1990.
- “Towards an Understanding of Diatom Interrelationships” presented at the 8th Willi Hennig Society Meeting, 1989, Special Symposium, Phylogeny of Algae and Diatoms, Cornell University, Ithaca, October 2, 1989.
- “Towards an Understanding of Diatom Phylogeny” presented at the Department of Biology, John Carroll University, February 20, 1989.
- “A Cladistic Approach to Understanding Diatom Phylogeny” presented at the Department of Biological Sciences, Central Michigan University, December 8, 1988.
- “Cladistic Methodology: An Introduction” presented at the Phycological Society of America, 1988 Annual Meeting, Special Symposium, Cladistics in Studies of Algal Evolution, Asilomar, California, July 26, 1988.

- "Reconstructing Diatom Phylogeny: A Cladistic Perspective" presented at the Academy of Natural Sciences of Philadelphia, April 4, 1988.
- "Cladistic Methodology and Phylogenetic Relationships of the Apical Pore Field-Bearing Cymbelloid and Gomphonemoid Diatoms" presented at the Phycological Society of America, 1986 Annual Meeting, Special Symposium, Diatom Phylogeny and the Species Concept in Diatoms, University of Rhode Island, June 23, 1986.

Museums

- "Mission 66 Architecture and the Future of Mesa Verde National Parks' Far View Visitor Center" presented at 2019 Meeting of the Colorado Preservation, Inc.'s Saving Places Conference, Denver, CO, 5 February, 2019
- "Natural Processes: Reinventing the California Academy of Sciences" University of Szczecin, Poland, 13 June, 2016.
- "A View on the Changing Nature of Natural History Museums", Michigan State University, April, 2014
- "Act like an Ecosystem: Sustainability and Museums" (session co-chair and presenter), American Association of Museums, Los Angeles, CA, May, 2010
- "The BioLounge" (session co-chair and presenter), Colorado-Wyoming Association of Museums, Laramie, WY, May 14, 2010
- "Training the Next Generation: The Museum and Field Studies Program at the University of Colorado, Boulder. Colorado-Wyoming Association of Museums, Estes Park, CO, 8 May, 2009.
- "Reinventing the Natural History Museum" presented at St. Mary's College of Maryland, St. Mary's City, MD, 24 March, 2009
- "So many shades of green: The new California Academy of Sciences" presented at the Western Museum Association, Oakland California, 12 October, 2007 (presenter and moderator)
- "If you build it will they come? A look at new museums in San Francisco and the new California Academy of Sciences" presented at the Western Museum Association, Oakland California, 10 October, 2007 (presenter and moderator)
- "Current and Future status of Natural History Museums" University of Colorado, Boulder, CO, July, 2007
- "Integrating Sustainability" presented at the Society for the Preservation of Natural History Collections, Plenary Address, St. Paul, Minnesota, 23 May, 2007
- "Sustainability at the new California Academy of Sciences" University of California San Diego, Earth Week Celebration, Invited Lecture, 15 April, 2007
- "The new Sustainable California Academy of Sciences" presented at the Mid-Atlantic Association of Museums, National Building Museum, Washington, DC, 22 February, 2007
- "Integrating Sustainability at the new California Academy of Sciences" presented at the Erb Institute for Sustainable Enterprise, University of Michigan, 24 January, 2007
- "The Natural History Museum in the 21st Century" presented at the National Zoo, March, 2005, Washington, DC
- "Being Green: The California Academy of Sciences in the 21st Century" presented at ECSITE annual meeting, November 2004, Barcelona, Spain
- "Green Buildings: The Ultimate Sustainable Exhibition" presented at ASTC annual meeting, September, 2004, San Jose, CA
- "Designing a Green Museum" presented at AAM annual meeting, May 2004, New Orleans, LA
- "Interpreting a Sustainable Museum" presented at Enviro8 Conference, April 2004, Minneapolis, MN
- "Designing a Natural History Museum for the 21st Century" presented at the University of Michigan Biological Station, 8 July, 2003.
- "Developing a New Museum from 150 Years of History: The New California Academy of Sciences" presented at Japanese Museum Association, Special Conference on Technology and Museums. February 2003.
- "Walking the Walk: Sustainable approaches to museum operations" presented at the annual meeting of AAM, April 2002, Dallas, TX
- "A vision for the university natural history museum" presented at the University of Nebraska State Museum, Lincoln, December 2001
- "Sacred Cows: Physical objects, programs and processes", American Association of Museums Annual Meeting, St. Louis, April, 2001

- “Integration of Pattern and Process in Museum and University Research Programs”, CAS-Stanford University Symposium, Stanford University, May 23, 1999.
- "The Future of Natural History Museums" presented at the California Academy of Sciences, San Francisco, July, 1995
- "Opportunities and Challenges for Natural History Museums" presented at the University of Nebraska State Museum, Lincoln, 19 May, 1995
- "Present and Future of Biosystematics and Natural History Museums" presented at Stanford University, 8 January, 1993."

Scientific Meetings (excludes all poster presentations)

- “Diversity of selected aerophilous diatoms from subtropical regions of Argentina” presented virtually at the 26th International Diatom Symposium, Kyoto, Japan, 25 August, 2021 [delivered virtually]
- “Beyond Names: Developing a Names Database and other Applications for Diatoms” presented at the 11th Central European Diatom Symposium, Prague, Czech Republic, 24 March, 2017
- “Catalogue of Diatom Names Resurrected: DiatomBase will be the new authority source for diatom names and more” presented at the International Diatom Symposium, Laval University, Quebec, Canada, 23 August, 2016
- “Bioprospecting for oil in Poland with diatoms”, Polish Phycological Society Meeting, Lodz, Poland, 3 June, 2016
- “New genera and species of freshwater diatoms reported from oligotrophic karst regions of Guizhou Province, China”, Polish Phycological Society Meeting, Lodz, Poland, 3 June, 2016
- “Towards a natural classification of the diatoms”, 10th Central European Diatom Meeting, Budapest, Hungary, 22 April, 2016.
- “Towards a natural classification of the diatoms” 23rd North American Diatom Symposium, Central Michigan University Biological Station, Beaver Island, Michigan, 10 September, 2015
- “Do species flocks exist in diatoms?” 23rd International Diatom Symposium, Nanjing, China, September 2014
- “Freshwater gomphonemoid diatom systematics and biogeography: connections between Asia and North America.” 23rd International Diatom Symposium, Nanjing, China, September 2014
- “Do species flocks exist in diatoms?” 8th Central Europe Diatom Meeting, Zagreb, Croatia, April, 2014
- “How to define a diatom genus” 8th Central Europe Diatom Meeting, Zagreb, Croatia, April, 2014
- “New Perspectives on Diatom Biodiversity in northern Michigan”, 3rd Winter Meeting of the University of Michigan Biological Station, Ann Arbor, MI February 2014
- “Taxonomic and data quality transparency of molecular studies in the digital age: A case study of the Bacillariales” 22nd North American Diatom Symposium, Bar Harbor, ME. August 2013.
- “Morphological data suggest the diatom genus *Denticula* is paraphyletic.” 22nd North American Diatom Symposium, Bar Harbor, ME. August 2013.
- “Origin and Historical Development of freshwater diatoms of the orders Aulacoseirales, Thalassiosirales, Stephanodiscales and Coscinodiscales from Asia and Western North America: Single or parallel events?” 22nd International Diatom Symposium, Ghent, Belgium, August 2012.
- “The diatom genus *Alveolophora* in North America” 22nd International Diatom Symposium, Ghent, Belgium, August 2012.
- “The diatom genera *Nitzschia* Hassall and *Hantzschia* Grunow from Xinjiang, China” 22nd International Diatom Symposium, Ghent, Belgium, August 2012.
- “Origin and elements of the freshwater diatom flora of the Hawaiian Islands.” North American Diatom Symposium, Flathead Lake, Montana. September 2011.
- “A Consideration of some *Gomphoneis* Cleve species: Changes in nomenclatural status, new species and thoughts on biogeography.” North American Diatom Symposium, Flathead Lake, Montana. September 2011.
- “Phylogenetic relationships of the Amphipleuraceae.” North American Diatom Symposium, Flathead Lake, Montana. September 2011.
- “Preliminary observations on some commonly reported freshwater *Nitzschia* Hassall species from rivers in the USA.” North American Diatom Symposium, Flathead Lake, Montana. September 2011.
- “Morphology of some fossil species of *Cyclotella* from the western U.S.A.” 21st International Diatom Symposium, St. Paul, MN, USA, September 2010

- “Diatom flora and comparisons from several lava tubes from the Big Island of Hawaii” 21st International Diatom Symposium, St. Paul, MN, USA, September 2010
- “Developing an on-line taxonomic guide to the freshwater diatoms of the United States: Scope, process and initial steps.” 21st International Diatom Symposium, St. Paul, MN, USA, September 2010
- “Preliminary observations on the diatom genera *Gomphonema* Ehrenberg and *Gomphoneis* Cleve from Lake Baikal, Siberia, Russia: Taxonomy, Systematics and Biogeography.” 21st International Diatom Symposium, St. Paul, MN, USA, September 2010
- “The current lack of Correspondence Between diatom Classification and Phylogeny: Is it Worse Than We Thought?” 21st International Diatom Symposium, St. Paul, MN, USA, September 2010
- “Fifty new species from lake sediments in western North America” North American Diatom Symposium, Iowa Lakeside Lab, September 2009
- “Valve Ultrastructure of Two Marine Diatoms, and a Proposal of Two New Genera and a New Family of Canal-Bearing Diatoms (Bacillariophyceae)” 19th North American Diatom Symposium, University of Michigan Biological Station, 12-16 September, 2007
- “The Diatom Flora of the Douglas Lake region” 19th North American Diatom Symposium, University of Michigan Biological Station, 12-16 September, 2007
- “Fossil Centric Diatoms from western North America”. 19th International Diatom Symposium, Irkutsk, Russia, September 2006.
- “Evolutionary Relationships, Species Concepts and Implications of Two Disparate Freshwater, Fossil Centric Diatoms (Bacillariophyta) from Western North America”. 15th German-Speaking Diatomists Meeting, Lucekin, Poland, March 2001
- “Preliminary observations on the diversity and biogeography of gomphonemoid diatoms from Lake Baikal, Siberia” 15th North American Diatom Symposium, Pingree Park, Colorado, September 1999.
- “New *Tertiarius* (Bacillariophyta: Stephanodisceaceae) species from western North America” 15th International Diatom Symposium, Perth, Australia, October 1998.
- “Apomixis or Autogamy in *Scoliopleura peisonis*?” 15th International Diatom Symposium, Perth Australia, October 1998.
- “Phylogenetic relationships of the Eunotiaceae with implications for the evolution of the raphe system” 14th North American Diatom Symposium, Pellston, MI, September 1997
- “A revision of the diatom genus *Actinella* in South America” 14th North American Diatom Symposium, Pellston, MI, September 1997
- “Raphe vestiges in *Asterionella*” species from Madagascar: Evidence for a polyphyletic origin of the araphid diatoms?” International Diatom Symposium, September, 1996, Tokyo, Japan.
- “Electronic databases of the Diatom Collection of the California Academy of Sciences” International Diatom Symposium, September, 1996, Tokyo, Japan.
- “Raphe vestiges in *Asterionella*” species from Madagascar: Evidence for a polyphyletic origin of the araphid diatoms?” 50th annual meeting of the Phycological Society of America, June, 1996, Santa Cruz, CA.
- “A database of verified diatom names.” 13th North American Diatom Symposium, September 1995, Iowa Lakeside Lab, Wahpeton, IA.
- “Taxonomy, ultrastructure and biogeography of the *Actinella punctata* species complex.” 13th North American Diatom Symposium, September 1995, Iowa Lakeside Lab, Wahpeton, IA.
- “Two New Freshwater Diatom Genera.” 12th North American Diatom Symposium, September 1993, University Field Station, Manitoba, Canada.
- “Valve morphologies of two new species of Aulacoseiraceae Moisseeva from non-marine, fossil deposits in western North America.” 12th North American Diatom Symposium, September 1993, University Field Station, Manitoba, Canada.”
- “Preliminary Investigation of the Phylogenetic Relationships of the Freshwater Gomphonemoid Diatoms” 12th International Diatom Symposium, September 1992, Renesse, The Netherlands.
- “Phylogeny of Freshwater Gomphonemoid Diatoms” 11th North American Diatom Symposium, October 1991, Clemson, SC.
- “The Diatom Collection of the California Academy of Sciences: A Status Report” 11th North American Diatom Symposium, October 1991, Clemson, SC.
- “Cytoplasmic fine structure of two *Encyonema* species” 11th International Diatom Symposium, August, 1990, San Francisco.

- "Initial observations on the ultrastructure of *Gomphocymbella* species with comments on the systematic position of the genus" 10th North American Diatom Symposium, 12 October, 1989.
- "Phylogenetic Relationships of the Apical Pore Field-Bearing Cymbelloid and Gomphonemoid Diatoms" 10th International Symposium on Fossil and Living Diatoms, August 1988, Joensuu, Finland.
- "*Cymbella diluviana* or *Navicula diluviana*? Ultrastructure and Systematic Position of an Enigmatic Diatom" Phycological Society of America Annual Meeting, July 1988, Asilomar, California.
- "The Araphid Diatoms: Monophyletic, Polyphyletic or Paraphyletic?" International Symposium, The Chromophyte Algae: Problems and Perspectives, Plymouth Polytechnic, England, April, 1988.
- "A Phylogenetic Perspective on the Diatom Genus *Gomphoneis*" Phycological Society of America, 1987 Annual Meeting, Columbus, Ohio.
- "Ontogenetic Transformations and Diatom Taxonomy" 9th International Symposium on Fossil and Living Diatoms, September 1986, Bristol, England.
- "Old Species, New Species and a Transfer from *Gomphonema*: Further Observations on the Diatom Genus *Gomphoneis*" 8th North American Diatom Symposium, October 1985, Murray, Kentucky.
- "Phylogenetic Relationships of Monoraphid Diatoms based on Phenetic and Cladistic Methodologies" 8th North American Diatom Symposium, October 1985, Murray, Kentucky.
- "Ultrastructure of *Gomphoneis mammilla* (Ehr.) Cleve" 7th North American Diatom Symposium, September 1983, Columbus, Ohio.
- "Frustule Morphology and Filamentous Habit of *Diatoma hiemale* var. *mesodon* (Ehr.) Grun." 6th North American Diatom Symposium, September 1981, St. James, Michigan.

Workshops Led and Organized

- "Freshwater Gomphonemoid Diatoms" offered at the International Diatom Symposium, Laval University, Quebec, Canada, 23 August, 2016.
- "Laboratory Processing and Enumeration of Diatom Samples for Water Quality Monitoring" offered at the State of California Water Boards Training Academy, 26 October, 2011. California State University, San Marcos.
- "Role and Maintenance of Non-living Algal Collections" presented at the 5th International Chrysophyte Symposium, July, 1999, Southern Illinois University.
- "Diatom Databases." Convened at the 11th International Diatom Symposium, August, 1990, San Francisco.
- "Species Concepts in Diatoms" presented at the 10th International Diatoms Symposium, September, 1988, Joensuu, Finland.