

PATRICK KOCIOLEK

***Statement of Interest / Love of Phycology**

I wanted to be a lichenologist. Or so I thought. In the summer of my junior year of undergraduate school I took both a Lichenology course and a Freshwater Algae course at the University of Michigan Biological Station. It was during that summer, when I was immersed in learning about algae and the myriad of forms found in freshwaters, and all that we know about them, and all that we don't, that I decided I would study algae, specifically diatoms, for the rest of my life. And since that time, I have been excited about studying them. Back in St. Mary's County, Maryland, after the UMBS class, to far-flung places around the world. I have been able to take that excitement about algae with me and encourage students and colleagues to join in the effort, whether that is in classrooms in San Francisco and Boulder, at Biological Field Stations (I was able to go back to teach Freshwater Phycology with Rex Lowe at UMBS for 15 years) or in labs and field stations where I have taught in Poland, China, India, Argentina and Indonesia. Students have taken me to questions bringing together phylogeny and ecology, phylogeny and biogeography, and even past, present and future applications of algae in space. Whether the questions have been ecology-focused, discovering and describing new taxa, understanding their systematics and evolution and their distributions over time and spaces, using a wide array of tools, I have enjoyed learning and sharing the world of Phycology-to peers through research, to students in many educational settings and to the general public through presentations and exhibitions.

***Top 5 Publications**

From the 450+ peer-reviewed papers and additional 20 books and monographs I have published, these 5 stand out for me:

*Wehr, J., Sheath, R. & Kociolek, J.P. [Eds]. 2015. *Freshwater Algae of North America*. 2nd Edition. Elsevier. 1050 p. ISBN 978-0-12-385876-4.

*Kociolek, J.P.; Blanco, S.; Coste, M.; Ector, L.; Liu, Y.; Karthick, B.; 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. (2024). DiatomBase. Accessed at <https://www.diatombase.org> on 2024-03-11. doi:10.14284/504. [In 2023 alone this work was accessed by over 50,000 UNIQUE visitors (IP addresses), who visited over 80,000 times, and downloaded over 660,000 pages of information]

* Kociolek, J.P. & Spaulding, S.A. 2000. Freshwater diatom biogeography. *Nova Hedwigia* 71: 223-241.

* Li, Y, Williams, D.M., Metzeltin, D. & Kociolek, J.P. 2010. *Tibetiella pulchra* gen. nov. et sp. nov., a new freshwater epilithic diatom from River Nujiang in Tibet, China. *Journal of Phycology* 46: 325-330. [Though not the first diatom I helped describe from China, it was one that helped Chinese scientists recognize the uniqueness of the flora of that country, and led to a mind-shift in the approach people have taken to looking at the algae of Asia].

*Stepanek, J. & Kociolek, J.P. 2019. Molecular phylogeny of the amphoroid diatom (Bacillariophyta) genera *Amphora* and *Halamphora* indicates complex patterns of morphological and ecological evolution. *Journal of Phycology* 55: 442-456. 10.1111/jpy.12836

Academic History

I. Academic Training

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)

II. Academic Positions and Experience

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.
1991, 2007, Senior Investigator, University of Michigan Biological Station
1989-2008, 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 (New Academy was built during my directorship; 10 years and \$500 million dollars raised to rebuild the museum)
1993-1997, Director of Research, California Academy of Sciences
1990-1992, Chairman, Department of Invertebrate Zoology and Geology, California Academy of Sciences

Faculty Appointments

2024, Ascripto Research, Division Ficologia, Universidad Nacional La Plata, Argentina
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

III. Academic Awards and Honorary Degrees

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

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 [Award for teaching and mentoring students]