

PHYCOLOGICAL NEWSLETTER

MESSAGE FROM THE PRESIDENT

Dear PSA Members,

I am writing to you from a very soggy Britain but despite the weather, I am delighted to start in my role as the new PSA President. It hardly seems yesterday that I started as President-Elect but when I reflect on all the PSA activities, it has been a pretty full year. I also have to say a huge



thank you to **Patrick Martone** who has done an amazing job in his role as President, revitalizing the committees in a wonderful way and working with a small group of us on negotiating the new journal contract (still ongoing). All the work that Patrick has done makes my job as incoming President a lot easier - although I know I will be calling on him regularly over the next year. He will continue to play a major role in his role as **Past President**, continuing the strategic work that he has done for the Society.

2024 is looking like a productive and exciting year ahead for the Society, no doubt with some challenges and grit as well. But some grit is good and can make us stronger. I am also confident that the **Journal of Phycology** publishing agreement with Wiley, negotiations for which began early in 2023, will be finalized in the first quarter of this year. If that seems a long time to renew a contract, it is a reflection of radical changes in the scientific publishing world with the push towards open access, which I wrote in the [previous newsletter](#). I foresee things remaining rocky for some time to come in the world of publishing with the risk that the whole system is not equitable which has implications for the direction of science and inclusivity as a whole. Meanwhile, the **Journal of Phycology** is looking strong and I am hopeful that such long-standing reliable journals run by people that care about publishing good science and maintaining quality standards will weather the storm in this age of AI generated articles and fake on-line journals. Here, I have to thank **Kirsten Müller** and her team for all the work that has gone into the journal.

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I am excited that this year's annual **PSA meeting in Seattle** (29th July – 1st August 2024) will be joint with **ISOP**, and **ISEP**. **From Micro to Macro: Cultivating Resilience in Communities** is a great theme, especially in this time of planetary crisis and ever more dramatic weather events. Talking of the weather (yes, we Brits do have a preoccupation with the weather and no, it doesn't rain here all the time), I am also looking forward to returning to Seattle for the first time in many years. The last time I went there I had left Florida with icicles hanging from the fruits on the trees in the orange groves and a temperature of -6°C. When I arrived in Seattle, it was thick fog and positively balmy at 10°C.

Returning to the subject of inclusivity and all the excellent work that the **PSA IDEA committee** has been doing and **Robin Kodner's** leadership with the NSF funded EVOLVED project. I am hoping that as we continue to build Inclusion, Diversity, Equity and Access into everything we do in the Society, that we can develop a listening, sharing and understanding knowledge culture and develop common shared phycological goals to address the challenges we all face.

With the start of the new year, I want to document the changes to the **PSA Executive Committee** (EC). Once again, thank you to **Patrick Martone** for all his work as President in 2023. He will be continuing on the EC as the Past President. A big thank you also to **Deb Robertson** for her generous support as Past President in 2023. She will be standing in as Chair of the IDEA committee until a new Chair is in place. **Schonna Manning** has completed her role as **Program Director**. Schonna has done a brilliant job in this role and now becomes the **President-Elect**. Many thanks also to **Soren (Huber) Schipper**, the Student Rep, who has been a great champion for the students. Also Joining the EC is **Mark Cock** as the Overseas Vice-President, **Wade Huang** takes over from Schonna as the Program Director and **Gabriella Kuba** as the Student Rep.

Finally, as President, I'm here to serve the Society. If you have ideas for PSA, please contact me. I look forward to seeing lots of you in Seattle later this year.

Juliet Brodie
PSA President

MESSAGE FROM THE PAST PRESIDENT

Dear friends and colleagues,

One of the proudest achievements of my PSA Presidency was the revitalization of our PSA Standing Committees. Not only did I carefully examine the composition and functioning of all committees, but I established a new method for advertising open committee positions to our membership and soliciting volunteers before making my appointments. The process was hugely successful! Our committees now include a diverse mix of highly-motivated members from across the globe. I also convened a virtual “all-hands” committee meeting with ~50 participants and 12 breakout rooms, representing all of our PSA committees, to onboard new committee members, streamline communication, and prepare committees for a productive 2024. We are also developing a PSA Committee handbook to ensure stability and success in future years. It now gives me great pleasure to announce our 2024 PSA Standing Committees below!

Best Wishes,

Patrick T. Martone, PSA Past President

2024 PSA Standing Committees (* = Committee Chair)

Election Director

*Dale Casamatta, University of North Florida

IDEA committee

*Deb Robertson, Clark University

Madelina Marquez, University of North Carolina

Anna Valero, University of Waterloo, Canada

Anjali Krishna, University of Waterloo, Canada

Mickey Rogers, Pacific Northwest National Laboratory

Harshina Brijlall, University of Waterloo, Canada

Edilene Pestana, Universidade Federal de Bahia, Brazil

Membership Committee

*Karolina Fucikova, Assumption University

Mark Cock, Station Biologique de Roscoff, Sorbonne University, France

Edilene Pestana, Universidade Federal de Bahia, Brazil

Programming Committee

*Wade Huang, US Food and Drug Administration

Schonna Manning, Florida International University

Mark Cock, Station Biologique de Roscoff, Sorbonne University, France

Stacy Krueger-Hadfield, Virginia Institute of Marine Science

Karolina Fucikova, Assumption University

Julie Koester, Florida Fish and Wildlife Conservation Commission

Sabrina Heiser, University of Texas at Austin
Line LeGall, Museum National d'Histoire Naturelle, France
Jennifer Wolny, US Food and Drug Administration
Katherine Perri, Texas A&M
Kate Schoenrock-Rossiter, NUI Galway, Ireland
Anna Valero, University of Waterloo, Canada
Anjali Krishna, University of Waterloo, Canada
Gabrielle Kuba, University of Rhode Island

Communications Committee

*Stacy Krueger-Hadfield, Virginia Institute of Marine Science
Sarah Hamsher, Grand Valley State University
Taylor Virgin, University of Waterloo, Canada
Mickey Rogers, Pacific Northwest National Laboratory
Harshina Brijlall, University of Waterloo, Canada
Gabrielle Kuba, University of Rhode Island

Education Committee

*Kate Schoenrock-Rossiter, NUI Galway, Ireland
Brian Wysor, Roger Williams University
Karolina Fucikova, Assumption University
Wade Huang, US Food and Drug Administration
Alison Sherwood, University of Hawaii, Manoa
Margaret Cassidy, University of New Brunswick, Canada

Grants and Fellowships Committee

*Rachael Wade, California State University Humboldt
Schonna Manning, Florida International University
Monir Moniruzzaman, University of Miami
Dennis Hanisak, Florida Atlantic University
Katy Hind, University of New Brunswick, Canada
Sabrina Heiser, University of Texas at Austin
Holly Moeller, University of California Santa Barbara
Trevor Bringloe, Fisheries and Oceans Canada
Ligia Collado-Vides, Florida International University
Kyarii Ramarui, University of Maryland

Prescott Award Committee

*Maggie Johnson, King Abdullah University, Saudi Arabia
Craig Schneider, Trinity College
Jennifer Wolny, US Food and Drug Administration
Veronica Gibson, University of Hawaii, Manoa
Erick Lopes-Filho, Federal University of Rio de Janeiro, Brazil

Award of Excellence Committee

*Erica Young, University of Wisconsin-Milwaukee
Rick Zechman, California State University Humboldt
Paulette Peckol, Smith College
Kalina Manoylov, Georgia College and State University
Josef Elster, Institute of Botany, Czech Academy of Sciences

Patrick Martone, University of British Columbia, Canada
Gabrielle Kuba, University of Rhode Island

Tiffany Award Committee

*Katherine Perri, Texas A&M
Rick McCourt, Drexel University
Gemma Charlebois, MTE Consultants Inc.
Narongrit Muangmai, Kasetsart University, Thailand
Kate Schoenrock-Rossiter, NUI Galway, Ireland
Siobhan Schenk, University of British Columbia, Canada

Student Presentations Committee

*Matt Ashworth, University of Texas at Austin
Hilary McManus, Le Moyne College
Angie Korabik, UC Davis
Wade Huang, US Food and Drug Administration
Jing Hu, Zhejiang University, China

MESSAGE FROM PSA COMMUNICATIONS

Dear Phyco-philes,

Patrick Martone's hard work and revitalizing the PSA Committees is helping us get back on track after the strange times of COVID and helping us navigate a changing world in terms of communication, publishing, etc. alluded to in the letters from Juliet and Patrick above.

I wanted to start the tradition of a short report from the Communications Committee and introductions for new folks. Over the past year, we've been working with all the PSA Committees to help get the word out via email, Twitter/X, and Facebook about activities, opportunities, awards, and anything else phyco-logical! Be checking your email and making sure it's up to date to receive the latest news.

We are going to be launching a PSA Instagram account and need images and phyco-logical blurb.

We also want to highlight early career research on our social media as well as the 'Behind the Science' stories of papers published in the *Journal of Phycology*.

We are also investigating overhauling the PSA website. This will be a work in progress for much of 2024. If you have ideas send them to us: communications@psaalgae.org or sakh@vims.edu.

Stacy Krueger-Hadfield
PSA Communications Director



Dr. Sarah Hamsher is the co-editor of the PSA Newsletter and will continue helping manage the website.

Sarah is an assistant professor at Grand Valley State University in the Biology Department and the Annis Water Resources Institute. She studies the evolution and ecology of diatoms, a group of microscopic algae with silica cell walls. One of her current projects is a collaborative study of the evolution of the Rhopalodiales, a group of diatoms with cyanobacterial endosymbionts. She is also a member of the Editorial Board for JPhycol.

Gabrielle Kuba is pulling multiple duty on as the new PSA Student Member Representative for the next two years, as well as serving on the Award of Excellence Committee, Communications Committee, Executive Committee, and Program Committee!

Gabbie is a second year PhD student working with Dr. Chris Lane at the University of Rhode Island. Her research focuses on understanding the relationship between red algal host and parasite, specifically how the parasitic life cycle has evolved using genomic and transcriptomic approaches. She started working with algae her first semester of undergrad at Salve Regina University. Although this was an early introduction, she didn't anticipate working in this field after graduation. She then spent a summer working as an undergraduate researcher on nuisance Ulva blooms in Narragansett Bay, Rhode Island. Being able to take responsibility for a project that bridged being out in the intertidal and in the lab was an exciting experience- not to mention being able to work with local seaweed species! She then moved onto the College of Charleston for her MS in Marine Biology, studying the microbial communities of Hawaiian macroalgae with Drs. Heather Fullerton and Heather Spalding. This research, as well as the Marine Botany Field Course at Friday Harbor Laboratories, really solidified her love and fascination for algae. It has been a great phycology journey so far! She thinks her favorite part of studying phycology is getting to connect with so many people about seaweed, especially in her local community. Algae are something that serve and unite communities.



Dr. Mickey Rogers has served on PSA's inaugural Inclusivity, Diversity, Equity, Access (IDEA) committee since February 2023 and is the Social Media Liaison for PSA's IDEA Committee and the Society.

Mickey is a Linus Pauling Distinguished Postdoctoral Research Fellow at Pacific Northwest National Laboratory. Mickey is studying biological aerosol including how algae and their fragments can become airborne in our

atmosphere. Her work has awarded her many opportunities including receiving the Phycological Society of America's 2021 Bold Award, invitation to the Our Ocean Conference as 1 of 2 United States Youth Delegates, participation in Brookhaven National Laboratory's distinguished ACCESS program for emerging atmospheric scientists, and recognition by Chemical Abstracts Service, a division of the American Chemical Society, as a Future Leaders Top 100 in Chemistry. Mickey is also passionate about translating science into nontechnical language to engage with policymakers and promoting an inclusive environment for the next generation of researchers.

Harshina Brijlall is the Social Media Liaison for PSA's IDEA Committee and the Society!

Harshina is a PhD candidate in the Department of Biology, University of Waterloo, Canada. She uses whole genome sequencing to understand potential toxin-producing cyanobacteria (commonly known as blue-green algae) in oligotrophic lakes. She aims to identify toxin markers and refine sampling protocols to monitor and manage harmful algal blooms in forested watersheds and improve drinking water quality. Outside of research, Harshina is passionate about STEM education and science communication and excited to be part of PSA's communication team.



Taylor Virgin is the Social Media Liaison for the Journal of Phycology.

Taylor completed her Bachelor of Science in Biology at the University of Waterloo in 2022 and is currently a Master of Applied Science student in the Department of Civil and Environmental Engineering. Taylor's research uses metatranscriptomics to investigate the functions of a cyanobacterial bloom community in a drinking water reservoir.



INTERVIEW WITH 2023 NORMA J. LANG FELLOW ROKSANA MAJEWSKA



SAKH: Why do you think algae are cool?

RM: To me, it is both a tricky and a simple question. It is a tricky one because there are so very many life forms on this planet, and they are all "cool" in their own ways. And if everyone is cool, then maybe nobody is cool. But it is also a simple one. Trying to be as objective as possible, I would say that the coolest life forms would be those that are the most different from us. Thus, the most mysterious and least understood. And that must be microbes: fully functional single cells or groups of cells. But it could also be that the coolest organisms are those that provide the most essential services - like food, climate, and habitats - to humans and the entire biosphere. So, that is perhaps plants. And then we have algae, and, especially, microalgae that meet not one but both above-mentioned criteria for coolness. That is quite convincing, isn't it? No doubt, algae are special.

SAKH: What is your favorite alga? (and why?)

RM: Well, it will have to be a diatom. Choosing a single species may be impossible, but let me tell you about one very special genus: *Tursiocola*. *Tursiocola* is known to grow exclusively on the skin of cetaceans, manatees, and sea turtles. Interestingly, different *Tursiocola* species seem to specialise in very specific groups of marine animals (e.g., manatees or certain species of sea turtles). Several species

of *Tursiocola* are also apochlorotic - they do not possess chloroplasts. Why would any diatom choose such a peculiar lifestyle and tie its life and survival together with marine megafauna? Isn't that an evolutionary dead-end? As the core skin microbiome members, are those diatoms important to their hosts? What vital resources does the host provide to the diatom? Isn't all that fascinating?

SAKH: Do you have any advice on how to juggle your academic commitments (classes, research, teaching), your service commitments to the university and professional societies, and still have time (and energy!) to do effective scientific communication?

RM: I think my only advice would be don't be afraid to say "no". There is always a limit to how much you can juggle. If needed, slip a ball or two into a pocket, remove the fire batons from the show, throw the balls higher in the air to get more time, and take breaks. Nobody can ever have it all, so choose your priorities wisely and be reasonable. Because passion does not protect from burnout.

SAKH: It looks like you've had a recent string of big successes -- not only are you PSA's 7th Lang Fellow, but you've also landed a Marie Skłodowska-Curie research grant and a new

position. It's easy for young scientists to get discouraged when writing applications and looking for postdocs and faculty slots, since the success rate is very low. Can you estimate what percentage of your applications have been successful? What was your job search experience like? How many applications/interviews did it take before you got an offer? How did you keep yourself sane during the process?

RM: I don't think my overall success rate when writing project proposals or job applications is particularly high. It might be somewhere around 10-15% for project proposals and definitely less than that for job applications. However, it is an art that can be mastered. I guess I have heard that many times, but once I truly understood and believed it, it was a real game changer. Sometimes, you may get lucky, and for some unknown reason, your sloppy last-minute application may work. But - especially when it comes to the more competitive research programmes and positions - you'd better start early and make sure you have thought everything through well enough. The job search and selection process is always brutal and disheartening. You need to prepare yourself mentally for unavoidable failures. Many failures. Use them to get better. Learn from the feedback you get. Keep asking your seniors for advice. Not all of that advice will always be relevant and useful, but sometimes, a tiny tweak in your motivation letter can make a huge difference. That is what happened to me. I have been applying for almost a year with no success. After I changed a few lines in my motivation letter - such a banal thing(!), I started getting to the interview stage. It took me 12 interviews (I came second six times) to finally get a job.



SAKH: I think many PhD students feel like they are just adapting others' work/ideas. Can you pinpoint the first time when your research really started to depart from your advisors' work and became your own? How important do you think "novelty" is for a young scientist trying to make a name for themselves?

RM: There is something called the "advantage of disadvantage". I believe that, in a twisted way, it played a key role in both my career and entire life. As a student, I never had a good supervisor or mentor. It forced me to be more self-aware, resourceful, and creative. The various disadvantages also created opportunities that wouldn't otherwise exist. Left on my own, with no extra support, I was able to work on my own ideas already as a Master's student. I cannot comprehend how any research can lack novelty. We do research to answer questions that have not yet been answered. Isn't that novel enough? My impression is that, in many cases, and especially nowadays, scientists are encouraged to "play safe". While writing a project proposal, we are asked to describe what we are going to discover, when exactly, and how those discoveries are going to impact our career/society/environment/global economy/etc. That is not how science works. And, in fact, many of the most significant breakthroughs have been achieved by accident. I would advise any researcher to keep asking bold questions and be excited about their research. Anything less than that is not worth your time.



SAKH: Tell me a little about Dr. Majewska the scientist. What are the big questions that have motivated you as you've come up through the ranks, and which ones do you see yourself addressing in the coming years?

I believe that every scientist's mission is to attempt to uncover a piece of truth. It does not really matter which piece as, at the time of conducting our research, we are not and cannot be aware of the importance of this new information. Early on in my career, I started researching epizoic (i.e. animal-associated) diatoms. My various discoveries provided rather solid evidence that there are diatom species and even entire genera that live exclusively on the skin and carapace of marine megafauna. The intimate relationship between the epizoic diatoms and their animal hosts is so peculiar that it took me several years to convince my colleagues these observations were not the result of a sampling bias or another error in my research approach. There is an immense number of eco-physiological or evolutionary questions that can be asked about epizoic diatoms. The topic itself opens entirely new research avenues, and I do plan and hope to keep developing my studies on animal-associated algae for the rest of my career.

SAKH: Now tell me a little about Dr. Majewska the person. What do you enjoy doing in your off-time? As a successful early career scientist, what's your philosophy on balancing your professional responsibilities and your personal time?

RM: I usually say that I love physical activity and drawing. I used to be a member of several semi-professional sports teams and had the honour of exhibiting my drawings in art galleries. However, the truth is I do not have much time for either of these anymore. I am probably not particularly good at balancing my professional responsibilities and personal time, and what keeps me sane is the fact that - most of the time - I find unmatched joy and satisfaction in my job.

SAKH: Where do you see yourself as a scientist in 10 years? Will you still be attending PSA meetings?

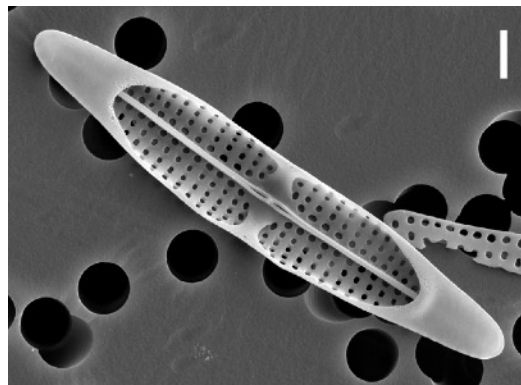
RM: In 10 years, I see myself running a lab researching epizoic and other biofilm-forming algae from biochemical and eco-evolutionary perspectives. I will mentor the weirdest and most enthusiastic phyco-lovers, and we will definitely keep attending PSA meetings.

SAKH: How has being a member of the PSA impacted your career?

RM: Being a member of PSA gave me lots of opportunities to interact and collaborate with some of the most inspiring phycologists of our time. I am very grateful for every brief discussion or message. I am certain that all that matters and will impact my career in many unexpected ways.

SAKH: Do you have any advice you'd like to give to young phycologists?

RM: Dear young phycologists, if you are truly interested in and excited by this topic and see yourself researching algae for the largest part of your life - don't worry! Stay focused and persevere if needed. Chances are that, at times, it is going to be (very) hard. But if you have the right motivation and insatiable curiosity, the satisfaction of discovery (big or small) and the joy of meeting and brainstorming with other phycologists will make up for all the hardship.



THE NORMA J. LANG EARLY CAREER FELLOWSHIP

Norma J. Lang Early Career Fellowship

In 2023, PSA will select its 7th Lang Fellow. Named in honor of the late Norma J. Lang, this fellowship will grant a one-time payment of \$10,000 USD to one early career researcher, who will be a Norma J. Lang Fellow for three years. Applications will be accepted from Postdoctoral Fellows, Pre-Tenure Faculty, and others (those not in traditional academic positions) who are members of the society and are within 10 years of completing their Ph.D. Applications from international members are welcome, but all application materials must be in English. Individuals must be employed by a university or other non-commercial entity and be doing research on algae. The purpose of this award is to provide "seed" money for projects, with the ultimate goal of increasing the likelihood of federal or other grant funding for the recipient. It is expected that the Fellow's home institution will cover any indirect costs as an institutional match.

For more information please go to <https://www.psaalgae.org/norma-j-lang-fellowships>

Deadline: April 15, 2024

The Lang Fellowship and PSA's many other student and postdoc awards are sustained by charitable contributions to the Phycological Society of America Endowment. Contributions can be made via Paypal:

<http://www.psaalgae.org/endowment-donations>

**2024 JOINT MEETING
AT THE UNIVERSITY OF WASHINGTON
JULY 29TH – AUGUST 1ST**



Greetings Phyco-fanatics,

What's better than algae lovers gathering at PSA 2024? Inviting more of our protist friends! It's official - the meeting in Seattle will be a joint meeting between PSA, ISOP, and ISEP! As in the past, this joint meeting will be an amazing opportunity to unite the scientific findings and brainstorm impactful research topics for our protist-inclusive societies.

The theme of PSA-ISOP-ISEP 2024 is "[From Micro to Macro: Cultivating Resilience in Communities](#)". The scientific meeting will be held in the Husky Union Building (HUB) on the University of Washington campus July 29th through August 1st, 2024, with pre- and post-meeting workshops and field trips.

The Call for Abstracts will open on February 12th and close May 3rd, 2024, at 11:59:59 PM EDT.

We look forward to presentations from Algal Ecology to Evolutionary Protistology. In the meantime, we will welcome several plenary speakers, including Drs. Michael Stekoll and Laura Eme. Dr. Stekoll is a renowned researcher on Macroalgal Agriculture and Ecology. Dr. Eme specializes in Evolutionary Protistology and is the recipient of the ISOP Hunter Prize. Various workshops and field trips will be held by experts and engage participants following the manner of inclusion, diversity, equity, and accessibility.

Situated in the Pacific Northwest on Puget Sound, Seattle is surrounded by mountains, forests, and water, replete with kelp forests and abundant biodiversity. It is also the home of Starbucks, Microsoft, Amazon, as well as the Space Needle, Seattle Aquarium, and the famous fish-tossing-fun of Pike's Market, among other attractions. The University of Washington campus is one of the oldest universities on the West Coast. Located in the city's University District, the main UW campus is replete with coffee shops, pubs, and restaurants with local and international fare.

Best wishes,

Wade Huang, Program Director

Hoshaw Awardees from PSA 2023 wrote some short snippets about their awards. We will be publishing them on the [PSA Website](#) and in forthcoming editions of the Newsletter so if you received a Hoshaw award it's not too late to send us how the Hoshaw Award advanced your career!



Siobhan Schenk: *Attending PSA allowed me to connect with and learn from many researchers that I would not have encountered otherwise. It was great to discuss my poster and talk presentation findings with fellow algal enthusiasts. This experience deepened my understanding of the algal field as a whole and I'm excited to go to PSA again next year if funding permits!*

Brinkley Thornton: *I was very fortunate to receive a Hoshaw travel award to attend the annual PSA meeting in Providence, Rhode Island this year! This award helped to cover the costs of lodging and travel so that I would have the exciting opportunity to present my talk, "Characterizing the reproductive system in two invasive *Avrainvillea* populations", during the Bold award session. Thanks to the Hoshaw travel award, I was able to gain invaluable experience in sharing my research, networking with my peers, learning more about the field of phycology, and professional development as a scientist.*



Hoshaw Travel Awards

The Hoshaw Travel Awards are to help students with their travel expenses to the annual PSA meeting. All other factors equivalent, students who will present their research at the meeting will be given priority, in the following order: Bold session speakers, oral presenters, and poster presenters. Success rates for the Hoshaw awards have fluctuated in recent years. Successful applicants will be notified prior to the meeting and the awards will be presented at the meeting. PSA meeting information including registration dates, venue, and local attractions can be found on this [webpage](#).

Eligibility: All students who wish to attend the PSA meeting are invited to apply using the following travel award application. The applicant must submit the completed application form and her/his current *curriculum vitae*. The *curriculum vitae* must include papers presented at meetings, publications, grants, and fellowships received. The student must request a short letter of recommendation from their major advisor.

Application Procedure: Check the PSA website for application details. If you have questions contact the chair Rachael Wade (rmw104@humboldt.edu).

2023 Undergraduate Poster Awardees Risa Ogushi and A.G. Camara

Risa: I am honoured to have received an undergraduate poster award, and I am thankful to everyone who has helped me along the way. For the past year, I have been a part of Dr. Patrick Martone's lab at the University of British Columbia working with coralline algae. Coralline algae species are often notoriously difficult to identify using morphology alone. For my undergraduate thesis, I worked on a project analyzing morphological characteristics of different species of the coralline algae, *Corallina*, in the northeast Pacific. At the meeting this year, I presented a poster on this project, and I am grateful to have been able to share my work. This year's PSA meeting was my first ever conference and I had an absolutely incredible time! As an undergraduate student, I felt welcomed and supported, and I really enjoyed connecting with many people. I also enjoyed learning about all the diverse phycological research that is happening. Before coming to PSA, I was considering the possibility of going to grad school, and having attended the conference, I now feel certain of pursuing a graduate degree, working with algae. Overall, I had a wonderful experience and I look forward to attending more PSA meetings in the future!



Matt Ashworth with Undergraduate poster awardees Risa and A.G.

Editor's Note: Risa's summary was not included in the Summer/Fall Newsletter.

UPCOMING AWARDS AT PSA-ISOP-ISEP 2024

Harold C. Bold Award

The Bold Award was established in 1973 to honor Harold C. Bold, former president of the Psychological Society and has been awarded at PSA annual meetings since 1974. The Award is given for the outstanding psychological paper presented by a graduate student at the Annual Meeting as determined by the Bold Award Committee. The original funding for this award came from the sale of Contributions in Psychology (1971), edited by Malcolm Brown and Bruce Parker. The winner will be awarded a certificate and monetary prize of \$1000.

Eligibility: Graduate students who are PSA members, regardless of nationality, are eligible to compete for the Bold Award, as well as former students within twelve months of completion of their degree. The work presented must be that of the student, must be presented orally by the student in English, and should be a complete or nearly complete project. Only one presentation may be made per year and students may enter no more than twice, and not in successive years. Previous Bold Award recipients and those who have failed to give a scheduled Bold Award paper without valid reason are ineligible.

Application: Students must notify the Award Committee chair (Dr. Matt Ashworth, address below) via e-mail by the close of registration for the annual PSA meeting. The email must include (1) a statement of interest, (2) a tentative title of their presentation, and (3) the name and contact information of the student's research director (mentor or major advisor) or department chair. The student must request that an original signed letter be sent by email to the Award Committee Chair directly from the student's research director (mentor or major advisor) or department chair, verifying that the candidate is a student and that the work to be presented represents the initiative, imagination, and labor of the student. This letter of support must also be received by the close of registration for the annual PSA meeting.

Ralph A. Lewin Poster Award

The Ralph A. Lewin Poster Award competition will be held at the annual PSA meeting. The Lewin Award was established in 2009 by colleagues of Ralph A. Lewin, former president of The Society and a distinguished teacher and researcher at The University of California at San Diego, Scripps Institution of Oceanography. The Lewin Award shall consist of a certificate and a monetary prize of \$500.

Eligibility: Graduate students who are PSA members, regardless of nationality, are eligible to compete for the Lewin Award, as well as former students within twelve months of completion of their degree. Posters with multiple authors are permitted, but the student competing for the award must be the first and presenting author. Only one poster per student per year may be entered in the competition. If meeting rules allow multiple posters to be contributed by the same presenting author, the student must designate which poster is to be considered for the award.

We will also have an undergraduate poster competition. We had so many amazing undergraduates presenting excellent science at PSA 2023 in Providence - we will have another undergraduate competition at PSA 2024 in Seattle. Encourage undergrads to attend the meeting! Stay tuned for information on the undergraduate poster category.

Contact **Matt Ashworth** with any questions. mashworth@utexas.edu

CONFERENCE CORNER



For 45 years, professionals and students who study algae (freshwater or marine), seagrasses, or other marine plants have gathered, from all over the southeastern United States (and beyond), to share their research activities and ideas, at the Southeastern Phycological Colloquy (SEPC). SEPC 2023 maintained that tradition, with ~40 participants, with diverse interests, from the following states: Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Louisiana, and Texas!

The kickoff for SEPC 2023 was an informal gathering on Friday, after most of the group had spent the day driving long distances. The venue for that festivity was a cidery, an historic, 117-year-old building. The weather was beautiful with the SEPC-ers enjoying a wide range of music by a duo of ukulelists and dinner in an outdoor setting as the sun went down and the stars came out. This was a great opportunity for old colleagues to catch up, but perhaps more importantly, it was a chance for students to meet others (their peers and the professors) before Saturday's technical sessions.

Saturday's diverse program consisted of 25 contributed presentations: 14 15-minute talks and 11 posters, with 16 of the presentations made by students, and a keynote address by Barry Rosen, World Class Scholar and Professor at Florida Gulf Coast University in Fort Myers, Florida. Barry has had a long and interesting career; his love for his work with algae was clear in his Special Lecture entitled: *Cyanobacterial Ecological Strategies and Impacts on Human Health*.

After the oral presentations and before the poster session, four senior phycologists (Dennis Hanisak, Chuck Amsler, Wilson Freshwater, and Suzanne Fredericq) each spoke in a closing presentation, *A Tribute to Max*. Max Hommersand was not only an extraordinary phycologist who touched the lives of so many other phycologists, but also was part of the triumvirate with Rick Searles and Joe Ramus who organized the first SEPC, at the Duke Marine Lab in 1979. Max attended many SEPCs and was a mentor to us all.

After the poster, the Colloquy (a word carefully selected by the founding triumvirate that means "conversation") continued over dinner. We had many great conversations over the two days of SEPC. Those conversations will continue this fall at SEPC 2024, which will be held at the Grice Marine Lab, with Heather Spalding the organizer. If interested in attending SEPC reach out to me.

M. Dennis Hanisak
FAU Harbor Branch

UPDATE FROM *JOURNAL OF PHYCOLOGY*

We have been quite busy in the *Journal of Phycology* Editorial Office, and thanks to all of you, we have seen a 25% increase in submissions over 2022. Last year, we published 104 papers (up from 63 in 2022). It appears that the COVID slump we (and many other journals experienced) may be behind us. Thanks to everyone who is submitting to the journal!

In my last update, I noted that we were starting a new paper type: Genome Resource. We are currently waiting for Wiley to include this in ScholarOne so authors can select this when submitting a manuscript. I hope this will be available soon, and once it is, the instructions to authors will be updated.

I have heard lots of concern about the quality of older papers in back issues of the journal. I am pleased to let everyone know that I have hired a co-op student here at the University of Waterloo to inspect every paper for quality (particularly the micrographs). Once we have identified those that are of poor quality, we will be working on getting new scans completed.

This year, our co-editor, Melinda Colman, has engaged with numerous authors to provide perspective pieces on “Algae in the Anthropocene.” Please check out the forthcoming February issue where these initial pieces will be published. Thank you so much, Melinda, for your hard work on this. Thanks also to co-editor Thomas Mock, who ran an excellent series of perspective pieces on “Algal model species for advancing Biological Sciences.”

I am also thrilled to let everyone know that Mike Guiry has provided an update to his highly cited 2012 paper “How many species of algae are there?” (Guiry, M. (2012). *Journal of Phycology*, 48, 1057–1063). The updated piece is entitled, “[How many species of algae are there? A reprise. Four kingdoms, 14 phyla, 63 classes and still growing.](#)” This paper, which I am sure will be highly anticipated, will be printed in the April issue.

Lastly, the editorial team encourages everyone to keep submitting to the journal. We look forward to seeing your papers!

Kirsten Müller
Managing Editor



PSA MEMBERSHIP

Happy New Year 2024 to everyone!

It is a pleasure to be starting my second year as PSA Membership Director. To better serve the changing needs of our membership, the Membership Committee was established in late 2023. The committee includes myself, Mark Cock (our new International Vice President), and Edilene Pestana, who is a student representative. I am very excited to work with both of them to address the concerns of our members and continue to serve our membership's needs.

As of December 1st, we have 585 active members – we are holding steady since 2021. We added a whopping 108 new members in 2023, including 24 new student members, and our members currently represent 43 countries around the world. We also received a record number of requests for gratis or discounted memberships in 2023. The Membership Committee reviews these requests carefully and will be rolling out a standardized application form in early 2024. We recognize that the membership fees can pose a significant barrier to some psychologists, especially those in developing countries, and we aim to do our best to ensure their inclusion in PSA.

Renewing your PSA membership:

If you just recently renewed, or you are a lifetime or editorial member, you are all set! Similarly, if you are a student with a 3-year membership that is not up for renewal, no action is needed. Not sure if you have an active membership? You can check by logging into Wild Apricot – we now have viewable and printable Membership Cards that show your membership information, including renewal date. Please note that it can take about a month for the Wild Apricot records to reflect the Wiley records – so very recent renewals may not yet be reflected.



**Psychological
Society of
America**

**Karolina
Fucikova**

Member Online

Member ID: **51617025**

Renewal date: **31 Dec 2023**

If you have not yet renewed your PSA membership for 2024, now is a great time to do so – Wiley will otherwise hold your print journal and deactivate your online access, but your access will of course resume once you renew.

An easy way to renew is to follow the link in your Wiley reminder. Alternatively, you can use the following link: <https://www.psaalgae.org/membership-info>. If you are not sure whether you already renewed, do not worry! The system will alert you if that is the case, just be sure to use your member reference number (I can send it to you if you cannot find it, or you can find it in Wild Apricot). Occasionally, glitches occur – please email me if that happens and I will work with the Wiley representative to solve any issues that arise. We have had some issues especially with processing international credit card payments; the Wiley team was notified and is working on resolving the problem.

Using Wild Apricot:

You may recall that we are now using Wild Apricot (<https://psoa.wildapricot.org/>) to manage our member database, run elections, and communicate with our membership. You can search for other members in the directory and contact them, vote in elections, or view and download your membership card. If you have lost your password you can reset it on the website, or let me know and I will send you a new one.

Changing your address:

If you have moved or changed institutions, you will want to change your address in the Wiley system and in Wild Apricot. Please email me those changes and I will coordinate with the rep to make sure your contact details are up to date in both systems. This is especially important if you receive the printed version of the journal.

Benefits of PSA membership:

- PSA members receive the Journal of Phycology six times a year, including electronically and on mobile devices.
- PSA members can search and obtain full-text electronic papers from all issues of the Journal of Phycology (back to Volume 1, 1965).
- Members receive a pdf copy of the Phycological Newsletter (also downloadable from <https://www.psaalgae.org/psa-newsletter>).
- Members receive regular communications about the Society's events and opportunities, awards, elections, and other phycological goings-on.
- Members usually pay lower registration fees at our annual meetings (though this year will be a little different, because we will meet with other societies).
- Student, postdoctoral, and early-career faculty members are eligible for a variety of grants – the full list can be found at <https://www.psaalgae.org/> under Awards and Grants.
- And, of course, the best part of your membership is being in great company of other algae enthusiasts!

Thank you for continuing to support our community and best wishes for 2024! As always, should you have any questions or concerns about your membership, please do not hesitate to contact me (membership@psaalgae.org or karolina.fucikova@gmail.com). Even if I am not able to help you directly, I will refer you to someone who can.

Karolina Fučíková
Membership Director

FROM THE BOARD OF TRUSTEES

Hello PSA members,

The BOT extends very sincere thanks and appreciation to Dr. Michelle Wood who completed her second, five-year term on the BOT at the end of 2023 (the Bylaws restrict lifetime BOT membership to a maximum of 10 years). Michelle is the person primarily responsible for formalizing the Legacy Fellows program (see below). This involved consulting with our legal advisors as well as researching how similar programs are set up in other societies.

The BOT also extends a warm welcome to Dr. Ligia Collado-Vides who the EC has appointed to a new five-year term on the BOT succeeding Dr. Wood. Also joining the BOT as *ex officio* members are VP-President Elect Schonna Manning and Overseas VP Mark Cock.

Chuck Amsler
Chair of the BOT

PSA LEGACY FELLOWS

In 2016 PSA inaugurated an informal Legacy program for members who have included the Society in their estate planning, and the Board of Trustees hosted a reception for such members at the annual meeting in Cleveland.

We are pleased to announce a formalized Legacy Fellowship program, which is described in more detail on the [PSA website](#). You are invited to visit the website to learn more about the fellowship program. Included there is a simple form which members can use to self-identify as Legacy Fellows. Legacy Fellows will receive lapel pins (shown above) and if they choose, certificates. Fellows will be encouraged to wear the pins at the annual meetings not only for recognition, but hopefully to make others aware of the Legacy Fellowship. The Board of Trustees plans to host events for Legacy Fellows periodically at future annual meetings.



FROM THE ENDOWMENT FUND

The Society holds two types of fiscal assets managed by the Endowment Fund Manager and the Board of Trustees: The *Endowment* and the *Treasury Reserve*. These assets are in addition to the Society's annual operational funds, which are managed by the Treasurer.

The *Endowment* market value was \$3,083,585 at the end of calendar year 2023. This compared with a market value of \$2,933,566 on December 31, 2022. The *Endowment* market value gained \$150,019 during 2023.

The investment profile for the *Endowment* is designed to maximize annual earnings in the form of dividends and interest. This is consistent with the PSA approved Investment Policy Statement on file with U.S. Trust, Bank of America Corporation - Philanthropic Solutions, and represents the most conservative in risk level of eight investment strategies described by the Bank.

Endowment income generated during a given year is distributed to cover the costs of *Endowment*-funded awards and programs the following year.

During 2022, annual *Endowment* expenditures totaled \$71,193, while 2021 income was \$59,453 resulting in an excess expenditure of \$11,739. This compares to positive year-over-year balances of \$14,156 in 2021 and \$60,754 in 2020, years impacted by COVID.

Endowment earned income during 2022 was \$93,641 at 3.32%, while 2023 award and program support expenditures were \$87,733 resulting in a positive 2023 balance of \$5,908 (Table 1).

Endowment earnings during 2023 were \$128,929 at 4.18%, while approved 2024 expenditures are projected at \$108,000 (Table 2). Given the growth in the net surplus in *Endowment* earnings, the Board of Trustees and the Executive Committee approved adding up to an additional \$20,000 to augment the original 2024 award and program distributions. This plan projects to still result in a net positive balance of \$20,929 (2023 earnings minus 2024 expenditures), which will be retained in the *Endowment*.

The market value of the *Treasury Reserve* was \$185,224 at the end of calendar year 2023. This compared with a market value of \$165,933 on December 31, 2022. The market value of the *Treasury Reserve* gained \$19,291 during 2023.

The *Treasury Reserve* is held largely as a safety net to offset unexpected costs, originally related to termination of the *Journal of Phycology*. The PSA approved Investment Policy Statement for the *Treasury Reserve* specifies a *Balanced* investment strategy; this strategy includes a mixture of investment assets and has a moderate risk level.

No expenditures were made from the *Treasury Reserve* during 2023 or during the past decade, although 31.8% of the *Reserve's* market value is assigned to future support of *AlgaeBase*. Given the established pro rata share of 31.8% of the *Treasury Reserve*, the line for *AlgaeBase* was \$58,901 at the end of 2023.

Income earned by the Treasury Reserve was \$4,854 during 2023; annual earnings for 2022 were \$4,434 compared to \$4,096 in 2021.

Steve Murray

Endowment Fund Manager

Table 1. 2022 Endowment Income and 2023 Endowment Expenditures

Accounts	Earned Income 2022	Expenditu res 2023	2022 Income Minus 2023
General Fund	\$13,198	\$13,324	-\$126
Reserve Fund (Life Tiffany Award	\$7,682	\$0	\$7,682
Bold Award	\$806	\$0	\$806
Lewin Award	\$1,519	\$1,000	\$519
Croasdale Fellowships	\$773	\$500	\$273
Commemorative Fund: Commemorative Fund: Lang Fellows	\$7,488	\$6,750	\$738
Hoshaw Travel Awards	\$18,238	\$17,500	\$738
Lecture/Symposia Fund	\$12,712	\$15,384	-\$2,672
Prescott Award	\$13,930	\$18,775	-\$4,845
Provasoli Award	\$11,007	\$11,500	-\$493
Non-Journal	\$1,041	\$0	\$1,041
Totals	\$3,873	\$3,000	\$873
	\$1,373	\$0	\$1,373
	\$93,641	\$87,733	\$5,908

Notes:

- The Endowment is managed as a single fund with award/program line principals kept by the Endowment Fund Manager. Excess earnings in a line are used to offset negative balances in other lines.
- A donation of \$1,500 to the Endowment was made to the Lecture/Symposium fund to cover the costs of an event at the 2023 annual meeting.
- Fiduciary fees for all Endowment lines are charged to the General Fund.

Table 2. 2023 Endowment Income and 2024 Approved Endowment Expenditures. Given 2023 earnings, an additional \$20,000 was approved for potential distribution to support Lectures/Symposia at the Annual Meeting and the Student Awards Program.

Accounts	Earned Income 2023	Approved Expenditures 2024	2023 Income Minus 2024
General Fund	\$18,431	\$15,000	\$3,431
Reserve Fund	\$10,768	\$0	\$10,768
Tiffany Award	\$1,130	\$0	\$1,130
Bold Award	\$2,086	\$1,000	\$1,086
Lewin Award	\$1,063	\$500	\$563
Croasdale Fellowships	\$10,205	\$9,000	\$1,205
Commemorative Fund:	\$25,566	\$17,500	\$8,066
Commemorative Fund:			
Lang Fellows	\$17,154	\$13,000	\$4,154
Hoshaw Travel Awards	\$18,715	\$18,000	\$715
Lecture/Symposia	\$14,998	\$25,000	(\$10,002)
Prescott Award	\$1,460	\$1,000	\$460
Provasoli Award	\$5,430	\$3,000	\$2,430
Non-Journal	\$1,926	\$0	\$1,926
Fund Manager	\$0	\$5,000	(\$5,000)
Totals	\$128,929	\$108,000	\$20,929

Notes:

- \$5,000 has received one-time approval for assignment to the student award programs at the Fund Manager's discretion.
- \$15,000 has received one-time approval for addition to the Lecture/Symposium fund for use at the 2023 Annual Meeting.

GRANTS-IN-AID OF RESEARCH AWARDS

Grants-in-Aid of Research awards are made by the Psychological Society of America in support of graduate and postdoctoral research in any area of psychology. Grants are intended to enable the awardee to accomplish work not otherwise possible.

In 1987, the Psychological Society of America (PSA) established the Grants-in-Aid of Research Program (GIAR). This program is designed to aid graduate students conducting research in psychology by making grants to defray research expenses. In 2016, support for postdoctoral researchers was added to the GIAR program. Funds to support these grants come from interest generated by the Education Fund of the PSA Endowment.

In 2023, we received 38 applications (35 from students and 3 from post-docs). The Grants and Fellowships Committee deliberated and awarded 10 student and 1 post-doc GIAR.

The GIAR student awardees are: Josephine Robertson (PhD student, University of Chicago), Miranda Roethler (PhD student, University of Washington), Yana Rizzieri (PhD student, Cornell University, Boyce Thompson Institute), Caleb Butler (PhD student, Penn State), Gabrielle Kuba (PhD student, University of Rhode Island), Seojeong Park (PhD student, University of British Columbia), Taylor Hughes (MS student, University of Washington), Maycol Ezequiel Madrid Concepcion (MS student, University of North Carolina Wilmington), Benjy Sedano-Herrera (MS student, University of Nevada Las Vegas), and Lydia Ruggles (MS student, University of South Florida). Sofia Sadogurska is the post-doc awardee and based at the M.G. Kholodny Institute of Botany of the National Academy of Science of Ukraine.

CROASDALE FELLOWSHIPS

The Hannah T. Croasdale Fellowships are designed to encourage graduate students to broaden their psychological training by defraying the costs of attending psychology courses at biological field stations. The purpose of the award is to broaden psychological training and not necessarily to further research goals. Proposals to study at field stations associated with universities other than the student's own are especially encouraged. Fellowship support to attend courses unaffiliated with an academic field station should be requested from the Grants-in-Aid of Research Program.

In 1987, the Psychological Society of America established the Hannah T. Croasdale Endowment Fund. Income generated by the fund's endowment supports the Croasdale Fellowship program to encourage graduate students to broaden their psychological training by defraying the costs of attending courses at biological field stations. The purpose of the award is to garner new psychological skillsets, not necessarily to further research goals. Proposals to study at field stations associated with universities other than those affiliated with the student's home institution are especially encouraged. Fellowship support to attend courses unaffiliated with an academic field station should be requested from the Grants-in-Aid of Research Program.

In 2023, we received and funded 4 applications. Three applicants will attend the Freshwater Algal Identification Workshop in May: Taylor Virgin (MS student, University of Waterloo), Timothy Shardlow (PhD student), and Krishna Anjali (PhD student, University of Waterloo). Emily Stanley (MS Student, Ball State University) will attend the Ecology and Systematics of Diatoms course.

Rachael Wade
Grants and Fellowships Committee

BOOK TITLES

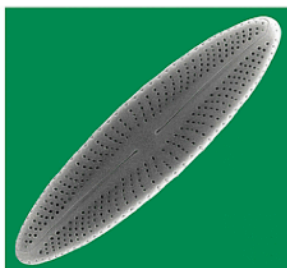
[A journey through diatom taxonomy: the enduring legacy of Luc Ector](#)



Zeitschrift für
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Volume 117/1-4
Special Issue

A journey through diatom taxonomy: the enduring legacy of Luc Ector



Edited by:
Carlos E. Wetzel,
Ingrid Jüttner,
Bart Van de Vijver

 **J. Cramer**
in Borntraeger Science Publishers · Stuttgart · 2023

This volume honors Luc Ector as a diatom scientist with 17 contributions, presenting new findings on one of Luc's favorite passions, diatom research. Luc was an inspiring mentor motivating many young (and not so young) colleagues worldwide. This is reflected in the subject of many contributions in this volume. A new genus, *Lucectorea* gen. nov. (Tudesque et al.), and numerous new species such as *Pinnularia ectorii* sp. nov. (Potapova et al.) and *Rimoneis ectorii* sp. nov. (Marquardt et al.), are named after him.

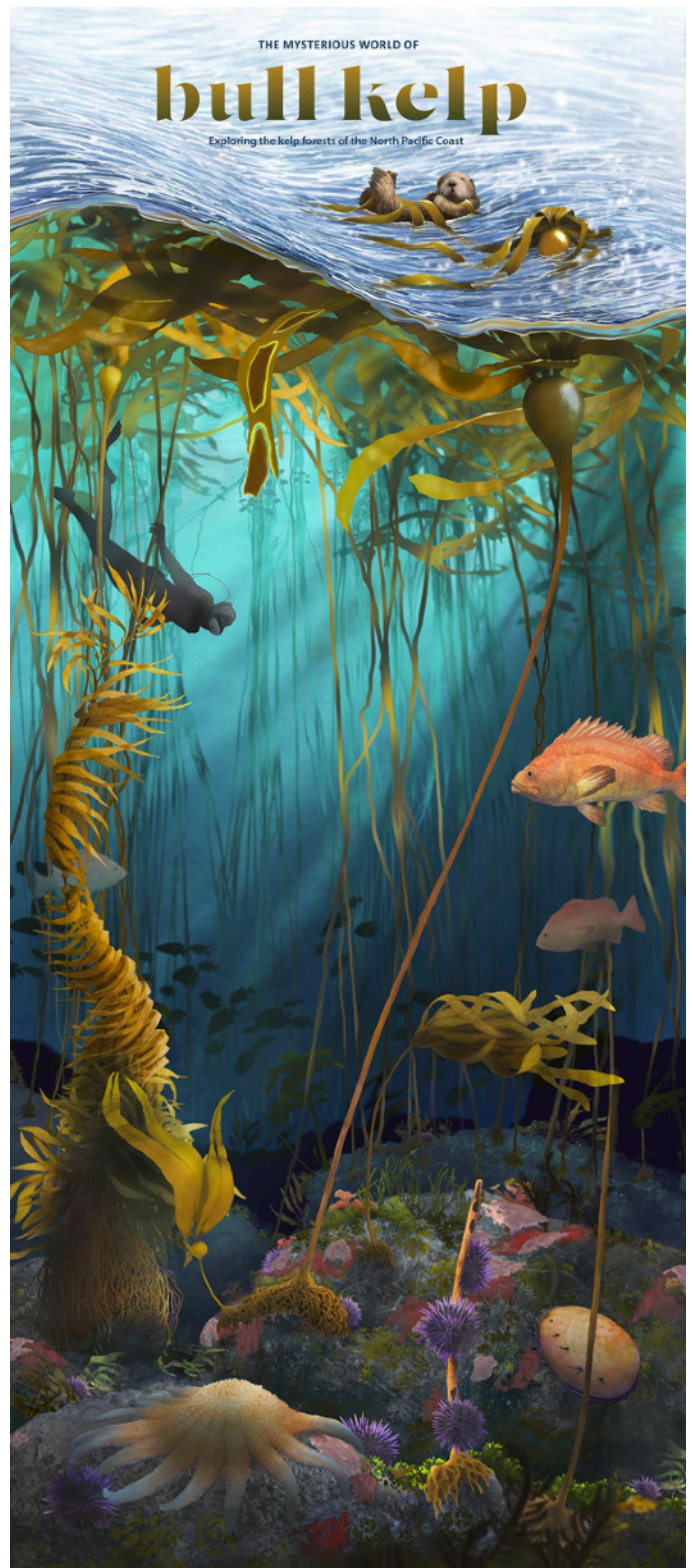
This Memorial volume includes important revisions and additions to our current knowledge of several freshwater diatom genera (e.g. Abarca et al.). Luc was a keen diatom taxonomist and ecologist who fully understood the value and importance of historic diatom material as a tool for our modern understanding of diatom species. Several contributions in this Memorial volume such as those on *Stauroneis acuta* (Wadmare et al.), *Brachysira vitrea* (Van de Vijver et al.), or *Frustulia saxonica* (Jüttner et al.), start with the analysis of historic type material to disentangle difficult and confusing relationships.

During a beer reception at one of the last French Diatomist Meetings, the editors jokingly conceived the plan to compile a Festschrift for Luc Ector's 65th birthday. They could never have imagined that only three years later they would have to invite his friends and colleagues to publish an article in this volume in his memory. The editors would like to thank all contributors and reviewers for their careful work in shaping this memorial volume.

Luc's enthusiasm, kindness and immense diatom knowledge will never be forgotten, and this Memorial volume will contribute to his legacy and as such will represent a valuable piece of work for future generations of diatomists.

The Mysterious World of Bull Kelp

Josie Iselin and Mariann Leuschel are thrilled to announce the publication last November, 2023, of the web-based book titled *The Mysterious World of Bull Kelp*. It can be found at bullkelp.info. As co-directors of *Above/Below* their mission is to build ocean literacy through kelp and seaweed storytelling. This intriguingly designed and in-depth approach to explaining the *Nereocystis* ecology throughout its range along the eastern edge of the North Pacific is meant as an aid to the science, research, restoration and education communities. The goal is to provide outreach material for the local communities along the bull kelp's range and to create a one-stop-shop for bull kelp where resources can be accessed and shared. We are soliciting for feedback. Please contact josieiselin@lovingblind.com if you would like a feedback survey form or go to the 'Contact Us' page on the website. Please join us in this truly collaborative effort that could not have been done without the PSA and kelp research communities! Thank you to all.

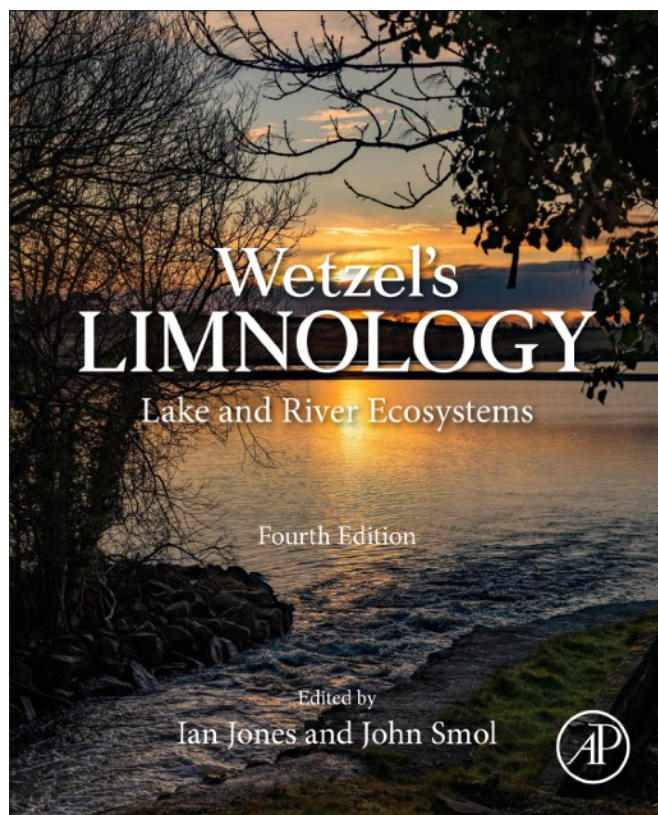


Wetzel's Limnology: Lake and River Ecosystems

With 59 co-authors, Ian Jones and John Smol have edited a very much revised version of Wetzel's 3rd edition limnology textbook, published over 20 years ago. Bob Wetzel died not long after publication of the 3rd edition.

Similar to the 3rd edition, the 2024 book is large – 31 chapters and over 1,000 large format pages. Color is used throughout. Below is the book's summary:

Wetzel's Limnology, 4th edition, presents a fully updated revision of the classic textbook Limnology: Lake and River Ecosystems—last published in 2001. The coverage has been thoroughly updated with recent research and theoretical developments. Each chapter of this edited volume has been written by an expert, or team of experts, providing a comprehensive and global perspective, with the editors working closely with the authors to maintain continuity within and between the chapters. This



is not only an essential textbook for undergraduate and graduate students in limnology but also a standard reference book for seasoned limnologists and other scientists.

Highlights of this new edition:

- Chapters from the third edition have been updated by an international team of experts, incorporating developments from the past two decades
- Several new chapters have been added, reflecting exciting developments in the field of limnology
- New color illustrations and images throughout
- Detailed summaries at the end of each chapter

Currently the book is selling on the Elsevier web page for about \$100 US dollars... with

bundles available for the e-version, etc.

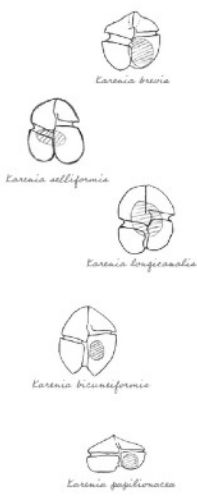
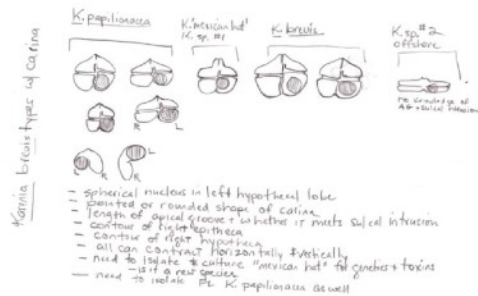
In addition, the International Limnology Society (SIL) has been developing short videos (~10 mins or so) of each chapter for teaching purposes. These are freely available [here](#).

IN MEMORIAM

Karen A. Steidinger (1938 - 2023)

(Adapted from the Memorial Program for services held on 9 September 2023 in St. Petersburg, FL)

Karen was a remarkable woman; a truly dedicated scientist; an inspirational teacher, mentor, and scholar; and in her rare, quiet moments, a thinker and a poet. Karen loved to share her knowledge, to ponder on the complex questions about the origins of the universe, and to express subtle words of wisdom with a glint in her eye and a smile on her face. Karen leaves behind a legacy that will continue to inspire and teach students the world over, as well as enduring memories in each and every one of us that loved her. Karen touched us in very different and diverse ways, but always with grace, and with few of us realizing how our lives would change for the better as a result of that interaction.



Julie Koester gave a talk about Karen at the PSA 2023 Providence meeting.

At left: Dinoflagellate drawings by Karen included in the Celebration of Life Service

Dr. Bernabé Santelices González (1945 - 2023)

Professor Emeritus
Pontificia Universidad Católica de Chile

We were sad to learn that Dr. Bernabé Santelices González passed away on 10th October 2023. He was regarded as one of the most influential phycologists in Latin America and the world and will be greatly missed by his Chilean colleagues, those in the Phycological Society of America who knew and worked with him, and the entirety of the global phycological community.

Bernabé earned his Ph.D. in 1975 from the University of Hawai'i under the mentorship of Dr. Maxwell S. Doty, where he also met and worked with Dr. Isabella A. Abbott. His dissertation focused on one of the most difficult phycological problems at the time – the taxonomy and systematics of the Gelidiales. After finishing his doctoral work, Bernabé returned to Chile where he accepted a position at Pontificia Universidad Católica de Chile (PUCCh) and quickly rose to the rank of Full Professor. During his career at PUCCh, Bernabé mentored and supervised 27 undergraduate dissertations, 20 postgraduate and 3 postdoctoral theses, instilling the values of independent and critical thinking in multiple generations. His forward-thinking research had profound impacts on pure and applied science, making major contributions to macroalgal systematics, marine ecology, conservation of coastal marine environments, and applied phycology, including aquaculture. During his signature career at PUCCh, he authored 168 scientific publications, 8 books on marine sciences, 4 books on applied science (R&D), 18 chapters in widely circulated books and 240 conference presentations, and is credited with 4 invention patents.

In addition to his systematic work on kelps and gelidioid algae, Bernabé made important contributions to algal taxonomy and biodiversity, community and production ecology, marine agronomy and cultivation, marine algal biogeography, and algal-herbivore interactions. His extensive taxonomic and biogeographic studies led to a new way of looking at the phytogeography of the temperate South American coast, emphasizing its geographic isolation. He and his colleagues determined that small geographic ranges of seaweeds are linked to high diversity areas and not only to polar-tropical diversity gradients. In addition, Bernabé performed the first comprehensive phytogeographic characterization of the temperate South American coast, reporting on the high degree of endemism, establishing multiple range extensions, and recording a 30 to 35% increase in the total number of species known from the region. Bernabé introduced the concept of "Life after death" (la vida después de la muerte), the phenomenon of seaweed spores surviving passage through the digestive tracts of invertebrates. He also reported on the roles of banks of microscopic macroalgal forms and their possible function as "seed banks". He was a pioneer in laboratory and field studies of the phenomenon of algal coalescence, and authored breakthrough publications on the effects of coalescence on survival, development, growth, stress tolerance, and competition. Bernabé's research on coalescence and its genetic implications led to a new paradigm – the recognition of different kinds of individuals in marine algae, a finding with wide ecological and evolutionary implications (e.g., Santelices, B. 1999. How many kinds of individuals are there? *Trends in Ecology and Evolution* 14, 152-155). His research set the stage for many in the phycological community to consider more fully the roles being played by early developmental stages in macroalgal ecology.

Besides his prolific research program, Bernabé was an active contributor to the phycological community through his editorial work and participation on international societal governing boards. For example, he provided dedicated and excellent service to the *Journal of Phycology* throughout his career as a frequent peer reviewer, Editorial Board member (2012-2014, 2015-2017, 2018-2020), and Associate Editor (1997-1999). Editor Susan Brawley appointed Bernabé as an Associate Editor in 1997 to strengthen the *Journal's* leadership and publication of research papers in ecology and population biology. His excellent research in other areas (e.g., macroalgal systematics, applied phycology) meant that he also handled some of the papers in these areas of phycology for the *Journal*. Bernabé kept review times short for the papers he handled, and he provided his own keen insights to authors as he made decisions, which were always fair. Just as he was a scholar's scholar, Bernabé was also an Editor's dream.

During his career, Bernabé was often recognized for his outstanding scientific achievements. He was awarded the Manuel Noriega Morales Prize from the InterAmerican Committee for Education, Science, and Culture of the Organization for American States in 1984, the Sven Brohult Prize from the International Foundation for Science in Sweden in 1987, a Diploma from the Botanical Society of Chile in 1996, the Luigi Provasoli Award from the Phycological Society of America in 2000, and the Alfredo Llana Award from the Chilean Phycological Society in 2014. In addition, Bernabé and his collaborators twice won the highly competitive First Prize by MARINALG for presentations at the International Seaweed Symposia in Vancouver, British Columbia (1989) and Valdivia, Chile (1995). Finally, in 2012 Bernabé received the rare honor of being given the National Award for Natural Sciences presented by the Republic of Chile.

Bernabé was highly regarded by phycologists throughout the world. The global phycological community, including the Phycological Society of America, the Society of Biology of Chile, the Chilean Phycology Society, and the Chilean Academy of Sciences have lost one of their foremost members. He will be greatly missed.

Dr. Alejandro H. Buschmann
Full Professor, Universidad de Los Lagos, Chile

Dr. Julio A. Vásquez
Full Professor, Universidad Católica del Norte, Chile

Dr. Alejandra González V.
Associate Professor, Universidad de Chile

Dr. Susan Brawley
Professor, University of Maine

Dr. Steven N. Murray
Professor Emeritus, California State University Fullerton

UPCOMING MEETINGS

Save the Date!

2024 Northeast Algal Symposium

April 5-7, 2024

Wyndham Newport Hotel

Middletown, RI

Theme: Deep Sea Phycology

Registration, abstract, and student award deadline: March 6, 2024

Registration information available at www.northeastalgae.org after Feb. 2, 2024

Co-conveners: Lindsay Green-Gavrielidis, Brian Wysor, and Craig Schneider

By Giorgio Galeotti - Own work, CC BY 4.0, <https://commons.wikimedia.org/w/index.php?curid=50956938>

NWASS

After several years of dormancy, a group is exploring getting the NWASS (Northwest Algal and Seagrass Symposium, sometimes just NWAS) meetings active again. This symposium has historically included Pacific NW marine and/or freshwater botanists and are low-cost to maximize student participation. Field trips are an integral part of the experience.

If you are interested in participating in future meetings, please let us know. If you have suggestions on meeting formats, workshops, field trips, location, and timing, we would love to hear about that, too. And if you're willing to help organize, let's talk!

Rachael Wade, rmw104@humboldt.edu

Tom Mumford, tommumford44@gmail.com

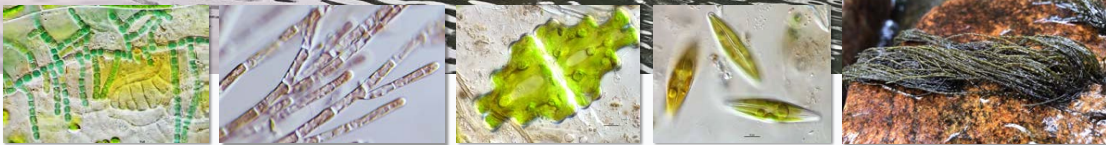
PHYCOLOGY COURSES

Freshwater Algae Identification Workshop 2024!
A Field Course at Fordham University: May 20 - 31, 2024



At the Louis Calder Center – Biological Field Station
Fordham University, Armonk, New York

A field course on the shore of Calder Lake, studying algae from diverse freshwater habitats



- Gain proficiency with algal identification using modern taxonomic keys.
- Create a high-resolution images of algal specimens and voucher specimens.
- See some of our past collections: <https://www.fwa-biodiversity.org/algae-of-calder-lake>

Costs and Registration

- **Registration is now open:** : **Deadline: April 1, 2024.**

<https://www.fordham.edu/about/campuses/the-louis-calder-center/graduate-education/freshwater-algae-identification-intensive-summer-workshop/>

- Registration Fee: \$2,000. Cost includes on-site housing (limited number). Meals not provided.
- Interested or questions? Please contact John Wehr for course info (wehr@fordham.edu) or Alissa Perrone for logistics and housing (aperrone@fordham.edu).



ECOLOGY AND SYSTEMATICS OF DIATOMS

19 May – 14 June 2022

Instructors: Victoria Chraïbi, David Burge

This course, now in its 61st year, will introduce students to field and laboratory study of freshwater diatoms. We will visit diverse aquatic habitats of the Upper Midwest to make live and fossil collections of most freshwater diatom genera. Students will learn techniques in collection, preparation, and identification of diatoms. Lectures will cover diatom taxonomy, systematics, stream, lake, and wetland ecology, research applications, and biogeography. Students will assemble individual voucher collections as a means for practicing diatom research and species verification. As a final project, students will complete a taxonomic treatment of a species that will be ready to submit for peer-review to the Diatoms of the North America (diatoms.org). This is an intensive, field- and lab-oriented class appropriate for advanced undergraduate students, graduate students, and post-graduate workers in geology, ecology and diatom taxonomy. Students are encouraged to bring individual research materials, and there will be opportunities to discuss research approaches and practical problems of using diatoms in ecological and paleoecological applications. Two scholarships are available specific to the diatom course; the CW Reimer Scholarship and the EF Stoermer Scholarship, as well a general scholarship is available for room and board. The JC Kingston Fellowship supports a teaching assistant for the class. (see <https://iowalakesidelab.org/student-resources> for scholarship info). Class size is limited to 10.

More Information/Registration: <https://iowalakesidelab.org/courses>

Contacts:

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David Burge
Science Museum of Minnesota
St. Croix Watershed Res. Stn.
dburge@smm.org

Tuition

- Undergraduate per credit tuition: \$377.00
- Graduate per credit tuition: \$626.00

Range of room/board costs per week at Lakeside:

- Cabin, room w/o bathroom, meals included: \$250 per week
- Room with bathroom, double occupancy, meals included: ~\$300 per week
- Single room with bathroom, meals included, \$450 per week



The Phycological Society of America has instituted a Legacy Society to help individuals make a lasting impact on the Society by including it in their estate planning. If you are interested in arranging a bequest to the PSA Legacy Society, please contact our treasurer, Julie Koester.



**Submit your contributions to the next
Phycological Newsletter by August 15, 2024**

We also welcome your announcements regarding field courses, workshops, meetings, job opportunities, graduate student positions and other algal information throughout the year to add to the PSA webpage:

Please forward this information to