



NEWSLETTER OF THE AMERICAN MALACOLOGICAL SOCIETY

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NEXT MEETING



**AMS 2021 VIRTUAL MEETING
87TH ANNUAL MEETING
JUNE 14-18 2021**

Submitted by Tim Rawlings, AMS President

Greetings, AMS members. As of writing this, we are just over one month away from AMS 2021. The virtual meeting will take place from June 14th – 18th, with symposia presentations/contributed sessions scheduled from Tuesday, June 15th – Thursday, June 17th. We will be using *Whova* as our conference platform, and the majority of events will be scheduled from 11am – 4:30pm (EST) to accommodate attendees spanning different time zones.

A draft agenda is listed on the conference webpage: (https://whova.com/web/amoam_202106).

Dr. Roxanne Beinart (U. Rhode Island; <https://www.beinartlab.com/chemosynthetic-symbioses>) is our plenary speaker for the conference and will give her presentation at 4:30pm EST on Monday, June 14th, shortly after the official opening of AMS 2021.

Four symposia are scheduled for the conference: (https://whova.com/web/amoam_202106/Logistics)

- 1) President's Symposium: Freshwater Mussels of the North Atlantic Drainage (Organizers: Dr. André Martel, Ms. Kellie White, Dr. David Zanatta)
- 2) Modern Advances in Mollusc Behaviour (Orgs: Dr. Jeff Clements; Dr. Russell Wyeth)
- 3) Mollusc-Microbe Interactions (Org: Dr. Suzanne Dufour)
- 4) Showcasing Molluscan Research at the Undergraduate Level (Orgs: Dr. Jeff Clements; Dr. Tim Rawlings; Dr. Russell Wyeth) (**Open call to join**)

The fourth symposium is a celebration of molluscan research that is being undertaken at the undergraduate level, and we would love students/supervisors to consider contributing to this. Presentations can include current or recent projects undertaken by undergraduate students. Please contact me (timothy_rawlings@cbru.ca) if you are interested in participating, and also pass this information along to friends/colleagues working with undergraduate students.

The majority of oral presentations will be live, but we are also allowing submission of pre-recorded presentations in cases where live talks are not possible/convenient. Poster presentations will comprise an abstract, poster pdf, and associated 3-minute pre-recorded video, all of which will be uploaded to the conference website prior to the start of the meeting. Designated times will be provided during the conference for poster presenters to engage with conference attendees in question-and-answer sessions. Likewise, there will be times at the end of morning and afternoon oral sessions for presenters to address any additional questions about their research.

We will also be holding the first ever virtual AMS Auction, with auctioneer célèbre, Paul Callomon, as well as other social events to encourage interaction among conference participants. For the auction, we

need photo submissions of items that you would be willing to donate to the cause – these can span the gamut from the sublime to the ridiculous. Please see the associated article below providing instructions on how you can contribute to the auction.

Registration and abstract submission for AMS 2021 are linked, so if you are presenting an oral or poster presentation, the best time to register is when you have your abstract ready to go. The format for abstract submission is provided on the website. There will be a small registration fee to cover the costs of our virtual conference platform, technical support, and student awards (US\$30 – AMS members; US\$40 – non-members), however, registration will be free for all undergraduate and graduate students. If your AMS membership has lapsed and you would like to renew, please visit the AMS website (<https://ams.wildapricot.org/>) prior to registering for the meeting.

Finally, one of the benefits of a virtual conference is that attendance is no longer limited by travel constraints and costs, so please reach out to colleagues near and far who work on molluscs and let them know of this event. We already have a few registrants from outside North America, and it would be great to see even more.

If you have any questions about the conference, or suggestions, or you would like to host an activity during the conference (social event, discussion group, etc.), please contact me (timothy_rawlings@cbu.ca). Please check Facebook and Twitter for other announcements and updates.

I look forward to seeing you all at the conference.
Cheers,

Tim Rawlings
President of AMS



AMS 2021 AUCTION (VIRTUAL EDITION) A REQUEST FOR DONATIONS

Submitted by Tim Rawlings, AMS President

The AMS Auction has long been a celebrated component of the annual AMS Conference. Not only has it provided a perfect venue to marvel at the oratorical skills and sharp wit of auctioneers célèbre, such as Hank Cheney, Dick Petit, and Paul Callomon, but it has also provided an opportunity to showcase the generosity of spirit within the malacological community, from those willing to donate prized keepsakes for auction to those willing

to spend hard-earned dollars on garish snail-themed salt and pepper shakers! The beneficiaries of such generosity, of course, have been and will continue to be our students; funds from this auction are critical in supporting student travel and research in the field of malacology.

In-person conference or not, the show must go on. Hence, the AMS auction (virtual edition) has been added to the agenda for AMS 2021. For the auction to proceed, we are fortunate that the renown auctioneer Paul Callomon has generously agreed to participate once again this year! No doubt he is already sharpening his wit in anticipation.

The format of the auction will be similar to previous years, except that it will be done over Zoom; hence virtual hands will replace paddles, and a photograph will be used to showcase the item up for bid rather than the actual item. Successful bidders will pay for their item following the auction on the AMS website. And, following the conference, the purchased item will be forwarded to the bidder by the donor of that item.

So, please consider donating to our first ever virtual AMS auction! As in previous years, items submitted for auction can be anything from the sublime to the ridiculous (e.g., books, trinkets, and other mollusc-related things), but cannot include shells. Items for auction could also include services. Feel free to be creative here! You could donate an hour of your time for a tutorial/training session about your particular skill (e.g., “photography of micromolluscs”) or a digital-friendly gift such as a manuscript review, an invite to a Zoom cocktail party, or a cameo on a famous Tik Tok influencer’s channel. For services or non-tangible items, please submit a description so that this can be added to the auction. If you are willing to submit an item, we will need two things from you: 1) a photograph or description of the item, so that we can post this on the AMS webpage, and 2) a commitment to forward the item to the successful bidder once the conference has ended. This procedure is obviously different from previous years and so, before you decide to submit a photo of your item for auction, please think carefully about your willingness to package up and ship your item to the purchaser.

Please send a photo or description of any item(s) for donation to Tim Rawlings (timothy_rawlings@cbu.ca) with the email header “AMS Auction.” If you have a minimum price that you would like bidding to start at, please list this in the email. If you are concerned about the cost of

shipping heavy items or the likely high price of shipping items overseas, you may add restrictions such as ‘domestic bidders only’ or ‘non-domestic bidder must pay cost of shipping’. Please note any restrictions at the time you submit the photo or description of your item. Likewise, if there is anything particularly noteworthy about the donated item, please include that information in the email too, and it will be forwarded to the auctioneer.

Despite the subtle change in procedures, a virtual auction has the potential to be a lot of fun and to raise much needed funds for our student researchers. So, dig out your kitsch, dig out your beauties, think about skillsets that you might have to offer, and consider submitting these for auction!



OTHER UPCOMING MEETINGS



MEETING OF GENERATIONS: AMS-WCM 2022 MUNICH, GERMANY

Submitted by Kenneth A. Hayes, AMS President-Elect

The Unitas Malacologia (UM) will be hosting the World Congress of Malacology (WCM) in Munich Germany August 1-6, 2022. UM president Professor Gerhard Haszprunar on behalf of the Unitas council and organizing committee has graciously invited the American Malacological Society to join them in a joint meeting themed as a “Meeting of Generations” – emphasizing the need to grow and expand the reach and relevance of our scientific societies across generations. The venue in Munich, the capital of Bavaria, Germany, will be hosted by the Staatliche Naturwissenschaftliche Sammlungen Bayerns (State Natural Science Collection of Bavaria) and the

Biological and Medical Faculty of the Ludwig-Maximilians-Universität (LMU) München.

Continuing in the great tradition of previous meetings, the scientific focus of the WCM 2022 will center around all aspects of diversity, function, ecology, evolution, and conservation of Mollusca. Several special topics, special sessions, and workshops already proposed will include evolution and development, taxonomy, phylogenetics, paleontology, genomics, and functional morphology.

Ken Hayes, AMS president elect, will present a proposal at this year’s AMS business meeting asking for support to join other malacological societies in Munich next summer. Hayes has proposed a symposium to be sponsored by AMS, focused on molluscan conservation. Additionally, he has proposed that the AMS Systematics Committee develop a taxonomically focused workshop that will join with an already planned workshop “Nomenclature: Rules and Type Species in Molecular Times” to be held August 6. The ever-popular AMS auction aimed at raising funds to support the next generation of malacologists is tentatively scheduled for the second night of the conference, August 2.

Consistent with the theme of welcoming and facilitating a new generation of malacologists, the UM is making economical accommodations available to maximize attendance by students, postdocs, and researchers from around the globe.

While there is still some uncertainty regarding whether the conference will be virtual or in-person, the organizing committee is being optimistic and planning for an in-person conference in one of Europe’s most beautiful cities that will surely feature many opportunities to enjoy the city and surrounding natural attractions during the congress. Some of the field trips already planned for the middle-day of the conference include half-day trips to The Botanical Garden Munich-Nymphenburg, The Paleontological Museum Munich, the Bavarian State Collection of Zoology, and a full-day trip to Neuschwanstein Castle.

Contingency plans will be made if we are forced to continue with our new normal of virtual engagements.

More information on the upcoming WCM can be found on the conference website <https://www.wcm2022.bio.lmu.de/wcmslider3/index.html>



AMS 2023
TUSCALOOSA, ALABAMA

Submitted by Kevin Kocot, AMS Vice-President

The 89th American Malacological Society meeting is tentatively planned for late summer 2023 in Tuscaloosa, Alabama at The University of Alabama and the Alabama Museum of Natural History. The four-day meeting will be held at the Bryant Conference Center and will begin with a welcome reception at the Alabama Museum of Natural History. Day 2 will begin with an AMS-wide keynote talk and two non-concurrent AMS-wide keynote symposia (TBD; proposals welcome) followed by a poster session. Days 3-4 will consist of two concurrent sessions of contributed talks and/or additional symposia with the AMS Auction on the evening of day 2 and a society-wide banquet on the evening of day 3. All talks will be streamed live to the web and remote participants will have the opportunity to submit questions to speakers during the Q&A. Only in-person oral presentations will be possible, but poster presenters will have the opportunity to present in-person and online or online only.

Tuscaloosa is located just one hour from Shuttlesworth International Airport in Birmingham, AL and is easily and affordably accessible by commuter shuttle. Alabama boasts a diverse malacofauna and, if there is interest, we will organize at least one field trip to see some of the 204 freshwater snails and 180 freshwater mussels native to the state.



EUROMAL 2020, NOW 2021, CONVENTION

Modified and reprinted from Tentacle No. 29: 50, 2021

The 9th European Congress of Malacological Societies (EUROMAL 2@2@) will now take place during 5-9 September 2021 in Prague, Czech Republic, hosted by the Czech University of Life Sciences. Details on thematic sessions, symposia and registration are available on the conference website (<https://www.euromal.cz/>) or via e-mail: info@euromal.cz.



**XXVII BRASILIAN MALACOLOGICAL MEETING -
XXVII EBRAM**

Modified and reprinted from Tentacle No. 29: 50, 2021

The Brazilian Society of Malacology (SBMa – Sociedade Brasileira de Malacologia) will hold its XXVII Brazilian Malacological Meeting (XXVII EBRAM), in the city of Porto Alegre, state of Rio Grande do Sul, southern Brazil, during 6-8 October 2021. The congress will be hosted by the Federal University of Health Sciences of Porto Alegre (UFCSPA). Due to the current health situation and the uncertainty generated by COVID-19, the organizing committee decided to make this meeting an online meeting.

The theme of the event is inspired by the huge, challenging, and urgent United Nations initiative entitled “Decade of Ocean Science for Sustainable Development.” The meeting will encourage presentations that are concerned with: (i) One Planet, One Ocean and (ii) our conduct as citizens, considering the impacts of civic engagement on societies. The Fifth Symposium of Young Latin-American Taxonomists is being planned. It will be a great opportunity for all young researchers to discuss and exchange their results. In addition, special sessions of contributed papers, oral presentations, and poster sessions will be open to all aspects of malacology including taxonomy, ecology, biology, evolution, distribution and conservation of terrestrial, marine and freshwater molluscs, fisheries, and other topics. There will also be roundtable discussions on gender, racial, and ethnic equity in science (especially in malacology).

Students can apply for the “Prof. Maury Pinto de Oliveira Award to Incentivise Malacological Studies” (for work in general malacology) and the “Dr. Wladimir Lobato Paraense Award” (for work in medical malacology). More information is available at www.sbmamalacologia.com.br.



NEWS AND ANNOUNCEMENTS

NEW CONTINUOUS PUBLISHING WORKFLOW MODEL FOR THE AMERICAN MALACOLOGICAL BULLETIN (AMB)

Submitted by Wallace "Marty" Meyer, editor of the American Malacological Bulletin

The *American Malacological Bulletin* (AMB) is now publishing papers using a continuous workflow model.

What is continuous publishing workflow?

Continuous publishing workflow means that manuscripts will be published online following an author's acceptance of the proofs and payment of their page charges. Instead of fixed publishing dates associated with the printing date of the volume or issue, the printing date will be the day the paper is published online.

What are the benefits to a continuous workflow?

In the past we published AMB volumes/issues on a bi-annual schedule. As such, there could be up to a six-month lag from the time a manuscript is accepted to when it is published. We see two main benefits to authors by adopting this approach:

1. No time lag in publishing. Accepted manuscripts will be available on-line as soon as they are completed.
2. Manuscripts intermittently being made available on-line will enhance our ability to highlight and promote each research product, likely increasing manuscript views and interaction.

Will AMB hardcopies still be sent to society members? Yes. Adopting a continuous workflow does not mean that AMB will be online only. Hard copies will be sent to all current AMS members. During years with lower numbers of accepted manuscripts, we may opt to print only one issue for a volume. At minimum, one volume will be published per year.

How does adopting a continuous workflow impact taxonomic acts? Moving AMB to a continuous workflow will not impact manuscripts with taxonomic acts. Publication dates for all manuscripts with taxonomic acts will be the date the manuscript is published online. This publication date will appear in the printed version of the manuscript. All taxonomic decisions will be registered with ZooBank. To assist the Editor-in-Chief and the Managing Editor, we have created a new Systematics

Editor position. The Systematics Editor is responsible for ensuring that all taxonomic acts published in AMB meet the requirements of the ICZN code once those manuscripts have been reviewed and accepted for publication. Specifically, the Systematics Editor will ensure that all species names in accepted manuscripts are properly registered with ZooBank and that all necessary registration statements are included in both the online and print versions of the publication. We are grateful that Ken Hayes has volunteered to be our first Systematics Editor.

If you have any questions regarding manuscript submission, please do not hesitate to contact me.



REPORT ON THE 14TH ANNUAL MEETING OF THE OHIO VALLEY UNIFIED MALACOLOGISTS

Submitted by Warren Pryor, Meeting Host

The Division of Science of the University of Saint Francis in Fort Wayne, Indiana, hosted a combined in-person and virtual meeting of professionals, students, and amateurs on 17 October 2020 from 8:00 AM to 1:30 PM.

Thirty-two people participated in this successful hybrid meeting, of whom thirty were in the United States and two in Europe (France and the United Kingdom).

Following are the presentations, listed in the order of their occurrence. The names of presenters are underlined. The entire meeting was recorded. An edited version (minus the presentation by Borrero at the author's request) can be viewed by following this link:

<https://www.youtube.com/watch?v=D8qG17YliTM>

or by scanning this QR code:



Times that follow the titles (below) mark the beginning of each presentation in the YouTube video.

Special thanks to Dr. Michael Bechill who facilitated the virtual meeting and edited the video.

Tim Pearce (Carnegie Museum of Natural History, Pittsburgh, Pennsylvania = CMNH). **A Tale of Two Land Snails: a: *Anguispira* & Acid Rain, b: *Micrarionta*: 1 Species or 2.** (0:11:44).

Yurena Yanes (University of Cincinnati = UC), Jason Rech (Miami University, Oxford, Ohio = MU), Jeffrey Pigati (US Geological Survey, Denver = USGS), Kathleen Springer (USGS), Stephanie Bosch (MU) & Jeffrey Nekola (Masaryk University, Brno, Czech Republic). **Late Glacial Climate in the American Southwest as Inferred from Land Snails.** (1:01:03).

Adelyn Gerber (University of Saint Francis, Fort Wayne, Indiana). **Home Range Size and Movements of the Crooked Lake Population of *Lampsilis siliquoidea* (Mollusca: Bivalvia: Unionidae).** (1:44:57).

Francisco Borrero (Malacology Lab, USDA APHIS & The Academy of Natural Sciences, Philadelphia, Pennsylvania). ***Bulimulus* Land Snails as Species of Concern in Native and Introduced Ranges – An Issue for the Southern USA.** (n.a.)

Aydin Örstan (CMNH) & Panayotis Ovalis (Athens, Greece). **Land Snails of the Island of Bozcaada, Turkey.** (2:00:06)

Ezekiel King Phillips (UC) & Yurena Yanes (UC). **Divided and Conquered: Exploring Niche Partitioning Among Land Snails in an Ohio Woodland.** (2:15:28)

William (Reed) Sanchez (UC), Yurena Yanes (University of Cincinnati), Jörg Linstädter (Deutsches Archäologisches Institut, Kommission für Archäologie Außereuropäischer Kulturen, Bonn, Germany) & Rainer Hutterer (Zoologisches Forschungsmuseum Alexander Koenig, Adenauerallee, Bonn, Germany). **Quantifying the Scale of Age Mixing in Harvested Mollusk Concentrations, Ifri Oudadane NE Morocco.** (2:31:17)

Jacklyn Manker (Wright State University, Dayton = WSU) & Rebecca Teed (WSU). **North American Freshwater Snails as Paleocologic Proxies in Crystal Lake, Ohio.** (2:47:20)

Jeremy Tiemann (Illinois Natural History Survey = INHS), Amanda E. Haponski (University of

Michigan Museum of Zoology, Ann Arbor = UMMZ), Amanda N. Curtis (University of Illinois, Urbana = UI), Sarah A. Douglass (UMMZ), Taehwan Lee (UMMZ), Kevin S. Cummings (INHS), Mark A. Davis (INHS), Diarmaid Ó Foighil (UMMZ) & Eric R. Larson (UI). **Revisiting a Forgotten Invader: Discovery of a Third *Corbicula* in Illinois.** (3:03:39)

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AMS STUDENT AWARDS UPDATES

Submitted by Tom Duda, Past AMS President

During the upcoming 87th Annual (and virtual) Meeting of AMS, student presenters can compete for the *Constance Boone Award for Best Student Presentation* and *Charlie Sturm Award for Best Student Presentation on Bivalves*. The latter award is a special award this year that honors Charlie's contributions to the study of bivalves and to AMS. If you are eligible to compete for one or both awards, please be sure to indicate this when you submit your presentation title and abstract. More information about these awards and their eligibility requirements can be found at the AMS presentation awards website:

<https://ams.wildapricot.org/Presentation-Award>

The Student Awards and Education Committee recently received 15 applications for research awards and just completed the difficult task of making award decisions given that there were so many strong and exciting research proposals. The very first *Richard E. Petit Student Research Award for Revisionary Taxonomy and Systematics of Mollusks* is being awarded to Meghan K. Yap-Chiongco of the University of Alabama ("Taxonomic revision of the genus *Wirenia* (Mollusca, Aplacophora): Integrating modern and classical taxonomic techniques"). The following students are each being awarded a *Melbourne R. Carriker Student Research Award in Malacology*: Melissa J. Betters of Temple University ("Assessing informative traits: Identification of shell and radula variation in deep-sea *Provanna* snails"), Emily Kunselman of Scripps Institution of Oceanography ("Thermal limits and bacterial associations of the ostreid herpesvirus in economically and ecologically important Pacific oyster in San Diego Bay, CA"), and Ruiqi Li of the University of Colorado Boulder ("Investigating photosymbiotic bivalve shell evolution via micro CT scans of museum specimens"). The committee offers many congratulations to the award recipients and

especially encourages those who were not awarded funds or who didn't apply this year to consider submitting applications in future years (see <https://ams.wildapricot.org/Student-Research-Awards> for information on how to apply).

Finally, thanks to the wonderful work of Paula Mikkelsen in gathering information on past award winners and to Chris Hobbs' web skills, the AMS website currently lists many of the past student research and presentation award winners from 1983 to 2020! Visit <https://ams.wildapricot.org/Previous-Award-Winners> to see the updated list. It is not yet complete and so if you are aware of additional information that could make it more complete, please send those data to Tom Duda (tfduda@umich.edu).



RESEARCH NOTES

ASSESSING ANTARCTIC APLACOPHORANS

Submitted by Kevin Kocot, AMS Vice-President

The cold waters surrounding the southern-most continent of Antarctica host a diverse malacofauna including a diverse fauna of the molluscan class Solenogastres (=Neomeniomorpha). Solenogastres along with caudofoveates make up Aplacophora, a clade of unusual worm-like molluscs (see photo). Many species are ecologically important members of deep-sea and polar communities, but there are only a handful of researchers worldwide who study them. Despite a history of excellent work on the group, many questions remain about even basic aspects of their biology, and virtually every time an expert samples in a new area, species unknown to science are discovered.

In fall 2020, a team of researchers co-led by Dr. Kevin Kocot in the Department of Biological Sciences at The University of Alabama traveled to Antarctica to sample aplacophorans from this region in order to improve understanding of the biodiversity and evolutionary history of this fascinating but poorly known group. Dr. Kocot's team (see photo) sampled animals using trawls and corers and spent most of their time in the lab sorting and imaging specimens under the microscope and preserving specimens for both morphological and genetic studies.

Conducting field work in remote places like Antarctica always presents challenges, but the COVID-19 pandemic made this field work especially complex. The team left home on September 20th and quarantined in a hotel in San Francisco. After a negative COVID test, they boarded the RVIB Nathaniel B. Palmer, for a two-week quarantine onboard the ship. After the two weeks had passed and everyone tested negative for COVID-19, the ship steamed south. Transit from California to Punta Arenas, Chile took 25 days. At that time supplies were loaded onto the ship and the team continued to Antarctica. Thanks to support from the US Antarctic Program, the ship's crew, and the National Science Foundation, the expedition was a success and the Kocot lab will be working on the samples they collected until their next expedition to the Eastern Antarctic, which is scheduled for March 2022.

To learn more about the project, visit its website at www.icyinverts.com.



Photo 1: Solenogastres along with caudofoveates make up Aplacophora, a clade of unusual worm-like molluscs



Photo 2: Dr. Kocot's team in Antarctica



MEET A MALACOLOGIST

REBECCA J. RUNDELL

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Photo: Dr. Rebecca Rundell



Photo: Palau from a plane.

What do you do (related to mollusks)?

- I am a professor and do research on the evolution, biogeography, and conservation of Pacific island land snails, especially those from Micronesia and the Republic of Palau. I am also the new Editor-in-Chief of *Malacologia*, the International Journal of Malacology.

How did you come to be doing that (who or what influenced you)?

- Rob Cowie took me in the field with him to the Big Island of Hawaii, and American Samoa, during my Master's degree with him at the Bishop Museum. I was fully intending to go on to study marine invertebrates, but after spending that time amongst the tree ferns in the rain and mud with Rob, I knew I was going to dedicate my life to Pacific island land snails.

What is (are) your main project(s)?

- I work on the molecular phylogenetics, geographic distribution, shell morphology, and conservation of endemic land snails of Palau and Micronesia, alongside my graduate students who are also mainly focused in this area. I am collaborating with Carl Christensen (Bishop Museum) on a Hawaiian land snail project. I also lead a large collaborative project on the conservation of New York State's Chittenango ovate amber snail.

How would you explain to an educated layperson the importance of your project?

- Land snails give us important insights on how life on Earth has evolved and why we have so many species. Tropical land snails in particular are important to study because there are so many species still unknown, yet they are rapidly going extinct.

What accomplishment(s) make you feel particularly proud?

- Establishing a field program in the Republic of Palau with the help and inspiration of local people and organizations. After 20 years of working in Palau, I am starting to feel like I can be useful.

What are the biggest challenges you face in achieving your goals (mollusk-related or otherwise)?

- There are more funds available to work on certain questions or model systems in the U.S. than there is for biodiversity exploration and conservation in remote tropical forests. As a wealthy country I think we have a responsibility to invest in science that is interesting and important, whether or not it builds status, creates revenue, or yields immediate medical or technological benefit.

Describe an exciting experience in the field.

- I almost stepped on a sea snake in the leaf litter. Together, we immediately ran and slithered to the ocean for safety.

What have you done for AMS and what has AMS done for you?

- I am so grateful to the many AMS malacologists who encouraged and inspired me along my path and created a welcoming environment for students. One of them (Rüdiger Bieler) even became my Ph.D. adviser. Now that I have a job in molluscs, I hope to draw my own snailly students into AMS.

What is your favorite mollusk or group of mollusks and why?

- Extinct Hawaiian *Carelia*. Pacific paradise is a carpet of large leaf litter-dwelling land snails.

If you could chat with any malacologist, past, present, or future, who would it be and why?

- I would like to have a snail morphology dinner with Steve Gould. When he was alive I think we took him for granted, maybe because he was viewed as a "public scientist." I encourage new malacology students to read his books and papers and remember that he was one of us.

What advice do you have for young people entering the field of Malacology?

- Persist in the field. There are many more biologists studying animals like birds, mammals, herps, and even arthropods, despite the fact that there are so many species of molluscs. We need students to turn their passion for molluscs into scientific careers that push the frontier of research on these animals. Otherwise, we are going to have a skewed and inaccurate view of life on Earth.

What energizes you to study mollusks?

- Being in the rainforest with Palauan community members and watching someone light up the first time they see a species they had not noticed before.

If you could reincarnate as any mollusk, what would it be and why?

- I admire the lifestyle of infaunal bivalves, but realistically I will always be a carrier shell. Probably most of us who are drawn to collections-based research can relate!

What's the best piece of advice anyone ever gave you?

- When someone gives you edits on something you've written, use that opportunity to improve your writing. Anyone at any career stage should seek to improve their writing. From a practical perspective, reading and writing also improve your public speaking.

What literature or other media have you consumed lately?

- *The Outlaw Ocean* by Ian Urbina. Many of us were drawn to molluscs in part because we were attracted to the ocean as a source of inspiration, adventure, and calm. Urbina's book brings attention to what humans are *really* doing on, around, and under the ocean. It should make us act together as citizens to bring attention to these issues and seek to change national and international policy and enforcement.

Tell us something that recently made you smile.

- Seeing the incremental successes of my graduate students. And snail jokes by Tim Pearce.

THREE SELECTED READINGS:

Rundell, R.J. 2008. Cryptic diversity, molecular phylogeny and biogeography of the rock- and leaf litter-dwelling land snails of Belau (Republic of Palau, Oceania). *Philosophical Transactions of the Royal Society B Biological Sciences* 363(1508): 3401-3412.

Rundell, R.J. 2011. Snails on an evolutionary tree: Gulick, speciation, and isolation. *American Malacological Bulletin* 29(1/2): 145-157.

Czekanski-Moir, J.E. and R.J. Rundell. 2020. Endless forms most stupid, icky, and small: The preponderance of noncharismatic invertebrates as integral to a biologically sound view of life. *Ecology and Evolution* 10: 12638-12649. <https://onlinelibrary.wiley.com/doi/pdf/10.1002/ec3.6892>



FUNDING OPPORTUNITIES

THE J FRANCES ALLEN INSTITUTE OF MALACOLOGY STUDENT RESEARCH AWARD

Submitted by Ellen Strong, Past AMS President

The Board of Directors of the Institute of Malacology, publisher of the academic journal *Malacologia*, is pleased to announce the J. Frances Allen Student Research Award. The purpose of these awards is to support undergraduate (bachelor's) and graduate (Master's, Ph.D.) research on mollusks conducted by a student enrolled in a degree-granting program. Recipients should plan on

submitting the results of their research to a peer-reviewed journal and are encouraged to consider *Malacologia* as a possible outlet, although this is not a requirement of receiving the award. One or more awards up to \$5,000 will be awarded each year, subject to the availability of funds, in support of field or laboratory research on Recent or fossil mollusks, or on mollusk-related projects. Needs for equipment in excess of \$1,500 must be fully described and clearly justified. Proposals seeking amounts less than the maximum are encouraged; partial funding may be granted at the discretion of the award committee. Both US and non-US citizens are eligible to apply.

To apply:

1. Applicants should submit a three-page summary of the proposed research including title, introduction, objectives, materials and methods, timetable, itemized budget and budget justification, references, and any figures. A complete application package should also include a one-page CV. All applications must be presented in 12-point font, single-spaced throughout, with margins no less than 2.5 cm.
2. The complete application package should not exceed four pages in length. The file name of the document should be the applicant's last name [underscore] IMstudentaward (e.g., Smith_IMstudentaward.pdf).
3. Students should arrange for a brief letter of recommendation (no more than one page) to be submitted separately. The file name of the letter should be the applicant's last name (e.g., Smith.pdf).
4. All application materials should be sent electronically in pdf format to Dr. Ellen Strong, President, Board of Directors, Institute of Malacology at StrongE@si.edu.

Applications that do not conform to the guidelines or that are submitted after the deadline will not be considered. Proposals will be evaluated by a committee of the IM Board based on quality, significance, and feasibility of the proposed research.

Application deadline: May 30, 2021.

Award announcements: June 15, 2021.

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THE J FRANCES ALLEN INSTITUTE OF MALACOLOGY OUTSTANDING PUBLICATION AWARD

Submitted by Ellen Strong, Past AMS President

The Board of Directors of the Institute of Malacology, publisher of the academic journal *Malacologia*, is pleased to offer the J Frances Allen Institute of Malacology Outstanding Publication Award. A cash award of \$1,000 will be presented for an outstanding paper published in *Malacologia* by a student. There is no formal application or deadline. A student submitting a manuscript must be sole or senior author of the paper, and should indicate that the paper being submitted stems from their Master's or Ph.D. research to confirm their eligibility for the award. Eligible entries will be evaluated by a committee of the IM Board; selection criteria include originality, study design, methods, quality of prose and figures, and potential impact of the publication. This award was established in 2011 to honor J Frances "Jady" Allen, who provided indispensable help and guidance in establishing the journal *Malacologia*, first published in 1962. Please see our website (<https://instituteofmalacology.org/>) for author instructions and how to submit your manuscript.



JOB OPPORTUNITIES

POSTDOCTORAL FELLOWSHIP

Submitted by Ken Hayes, AMS President-Elect

The Bernice Pauahi Bishop Museum, the premier museum of Natural History and Culture of the Pacific, in collaboration with the Hawaii Department of Land and Natural Resources' Snail Extinction Prevention Program, is seeking highly qualified applicants for a Postdoctoral Fellowship. The successful applicant will join a team of passionate conservationists, taxonomists, and biodiversity researchers in Honolulu, Hawaii and help lead the development of genomic tools as part of the captive rearing program for Hawaiian land snails. The postdoc will primarily work in the Pacific Center for Molecular Biodiversity at the Bishop Museum where they will lead the development of genomic tools for parasite and pathogen detection in endangered and captive-reared land snails in Hawaii.

For details and to submit application materials visit <https://www.bishopmuseum.org/careers/>
 Informal inquiries can be emailed to Dr. Kenneth A. Hayes (kenneth.hayes@bishopmuseum.org)



IN MEMORIAM

CLEMENT LEE COUNTS III (1946-2020)

Submitted by Robert S. Prezant, Provost, Southern Connecticut State University, Previous AMS President and AMB Founding Editor-in-Chief

Clement (Clem) Lee Counts III, most recently a faculty member at Salisbury University in Maryland, passed away on December 24, 2020. Clem will be remembered by many as a very real Renaissance man with interests and knowledge that ranged far beyond molluscs. In fact, his earliest, of over 40, peer reviewed publications focused on toxic effects from innocuous snakes (West Virginia Medical Journal, 1975), tracking toads with cobalt-60 (Science Biology Journal, 1975), distribution of coyotes (Proceedings of the West Virginia Academy of Science, 1976), and pseudoscorpions from West Virginia (Entomological News, 1977). But his zoological love was within the Mollusca.

Clem was born in Huntington, West Virginia, briefly dabbled with fine arts at Ohio University but later graduated from Marshall University with a BA in zoology. Once hooked on the sciences, Clem went on to get his MS degree in biological sciences from Marshall University under the supervision of Dr. Ralph W. Taylor (MS Thesis: “Land snails of the family Polygyridae from West Virginia”). His lifelong mentor was also his doctoral advisor, Dr. Melbourne R. Carriker. Clem received his PhD under Mel’s tutelage at the University of Delaware College of Marine Studies and his dissertation committee, in addition to Mel, read like a who’s who of malacology at the time (including R. Tucker Abbott, Arthur H. Clarke, and Joseph Rosewater). Clem was a rarity for Mel’s students, choosing to work on a freshwater mollusc, the nonindigenous invasive bivalve *Corbicula fluminea*. His work on *C. fluminea* led to his being awarded the College’s Academic Council Award for Best Marine Biology – Biochemistry Dissertation in 1983. That research went on to

become a “go to” work on the distribution and zoogeography of *C. fluminea* at that time (Counts, 1986). This particular work brought him to museum collections worldwide, including Museo Civico di Storia Naturale in Genoa, Muséum National d’Histoire Naturelle in Paris, Naturhistorisk Riksmuseet in Stockholm, and the Zoological Institute at the Academy of Sciences of the USSR in Leningrad.

With doctorate in hand, Clem went on to teach at the University of Maryland Eastern Shore (UMES) and later Salisbury University with short summer courses at Rutgers University and Indiana University of Pennsylvania field stations. Clem not only taught and produced a wide range of scholarship, but he blended his science and art insights when he designed a marine science laboratory for UMES on the Maryland coast. He directed that laboratory and later also headed a grant funded biodiversity lab at Wallops Island, Virginia. His creativity led to a patent on “maintenance-free enhancement of aquatic biological filters using amphipods.” Clem studied and wrote on “midget league football” injuries, curriculum, HBCUs (Historically Black Colleges and Universities), recreational boating, ethics, and environmental quality. His work was supported by grants from the NSF, NIH, Verizon Foundation, US EPA, and DOI among others.

With early recognition that populations of *Corbicula fluminea* could be an entrainment threat to power plants, Clem did a review for the US Nuclear regulatory Commission on the distribution of this bivalve near nuclear facilities. I was lucky enough to join him on a grant award from the National Park Service in a three-year study of the shallow water coastal benthos of Assateague National Seashore. From this emerged not just publications in peer reviewed literature, but a spin-off project that allowed him to produce a popular pamphlet, that he wrote and illustrated, on “Seashells of Assateague Island National Seashore.”

Once Clem began working on molluscs, his publications moved from works dominated by land snails to unionids to *Corbicula*. Clem contributed the chapter on Monoplacophora for the AMS “The Mollusks: A Guide to Their Study, Collection, and Preservation.” As fate would have it, one of his last malacology associated publications was an In Memoriam of his (and my) mentor, Mel Carriker.

Clem was a consummate teacher and storyteller, both in and out of the classroom. In the classroom, Clem taught courses that included Malacology, Marine

Zoology, Zoogeography, Environmental Science, Invertebrate Zoology, Ecology of Invasions, Human Anatomy and Physiology, and Ethics in Medicine and Scientific Research. He mentored graduate students and undergraduates alike on topics ranging from the dispersal of red fox at Assateague Island National Seashore to the evaluation of commercial aquaculture production to the impact of humans on mole crabs. He was also an essential voice on many other graduate student committees. He was at home in front of a classroom of students while his natural ease in presenting made him a willing and enthusiastic speaker at professional conferences and at informal popular talks alike.

A born-editor, Clem was co-editor of Perspectives in Malacology (AMB Special Edition 1) and was the managing editor for a series on endangered whales. Clem was a member of the Board of Reviewers for the *American Malacological Bulletin* and a member of the AMU Publications Committee, Chair of the Student Paper Prize Committee, and served as AMU Secretary-Treasurer.

Clem Counts had remarkable depth of knowledge on molluscs, the American Civil War, historic naval ships, National Parks, music (he was also a musician), and coffee. In his final years he dealt with a protracted and debilitating illness with an amazing level of courage and consistent good humor, always ready to talk molluscs, politics, best restaurants, or travel.

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Image: Clement L. Counts and Melbourne R. Carrier circa 2005, Newark, Delaware.



PROFESSOR BRIAN MORTON

Submitted to Mollusca-L by Professor Alice Wong, Acting Dean of Science, University of Hong Kong

It is with deep sadness that we mourn for the passing away of Emeritus Professor Brian Morton on March 28, 2021 in his sleep, at the age of 78. We honour the memory of Professor Morton in many aspects, be it his relentless commitment in founding the Swire Laboratory (later renamed as Swire Institute of Marine Science) 3 decades ago, or his significant

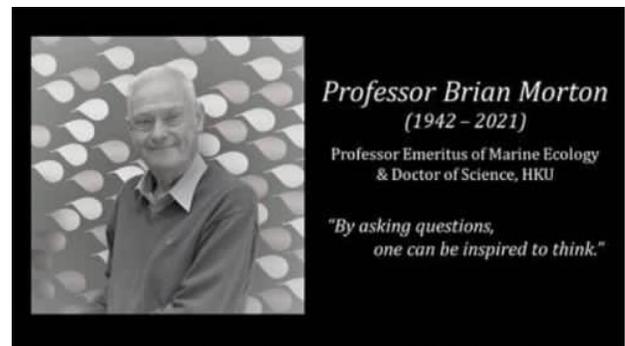
contributions in teaching and research in marine biology as well as in pioneering the marine environmental conservation in Hong Kong.

Professor Morton obtained his degrees from King's College, the University of London, and almost immediately joined the University of Hong Kong as an Assistant lecturer. He remained in Hong Kong for almost 34 years and, on retirement, was appointed Professor Emeritus of Marine Ecology.

He published extensively on the marine biology and ecology of Hong Kong, China, the Azores, and the Gulf of Mexico. On retirement in 2003, he returned to his childhood home on the south coast of England and wrote his book (2008) entitled "The historical ecology of the River Arun and its beaches at Littlehampton, West Sussex: 1,000 years of change," and later in 2018 he published another book "The Story of a Mute Swan on the River Arun at Littlehampton in West Sussex, England."

For his many achievements, he was made a Life Fellow of the Pacific Science Association (1993) and elected to the Global 500 by UNEP in recognition of his contributions to Pacific marine science and conservation, respectively. In 1997, he was invested as Knight (Ridder) in the Order of the Golden Ark, The Netherlands and in 1999 was invested to OBE, the UK, for contributions to conservation and marine science, respectively, and was the recipient of the Duke of Edinburgh Conservation Gold Medal in 2004 and Doctor of Science of The University of Hong Kong in 2014.

We honour the memory of Professor Morton for his lifetime dedication to the research in local marine fauna and flora. He will be dearly missed by all whose lives he touched, and we offer our deepest condolences to his family.



AMS WORD SEARCH

Submitted by Tim Pearce, newsletter co-editor

Locate the given words in the grid, running in one of eight directions: horizontal, vertical, or diagonal. Unused letters contain a secret message.

Words are mostly from July 2020 issue of American Malacological Bulletin, vol. 38(1). See the bulletin if words intrigue you – member access through [AMS website](#).

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NEWSLETTER EDITORS

Contributions to the biannual AMS newsletter are always welcomed. Send articles, short notes, or news items to either **Christine Parent** or **Timothy Pearce**, the newsletter co-editors. Items can be sent to the following addresses:

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