



The Ecdysiast

The Newsletter of The Crustacean Society

Message from the President...

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Dear TCS-colleagues,

Keep going with the promotion of TCS to potential members!

Members constitute the most essential component of academic societies. In TCS, we are proud to have international members hailing from over 20 countries. In order to retain our existing members and attract new ones, we must engage in activities to enhance the sense of belonging among our current members, encouraging them to continue their membership and stay active in the society, as well as to promoting TCS to academics or students who have the potential to become TCS members.

To realize these goals, we have initiated several campaigns for our members. These initiatives include the first-time production of Cest'larvae T-shirts and the TCS photographic competition. We received 39 entries from 17 members in the TCS Photographic Competition 2023. The announcement of the winners is at page 12 of the present Ecdysiast

volume. Additionally, we have established social media platforms, including TCS Facebook and Twitter, to keep our members informed about the latest updates within the society. The TCS homepage serves as a comprehensive resource, offering background information, the society's history, and detailed information about conferences, research grants, and the Research Excellence Award exclusively available to our members. These endeavors are intended to convey to our members that TCS has an active presence in their daily lives.

Several countries, such as China, Japan, and Brazil, have their own dedicated crustacean societies. The carcinologists within these societies represent potential members for TCS. I have actively promoted TCS and its member benefits to participants during the online TCS summer meeting in Brazil, in collaboration with the Brazilian Crustacean Society (Sociedade Brasileira de Carcinologia SBC) in 2021. SBC is a partner society of TCS. The collaboration in organizing online TCS summer meetings also aims to boost our membership numbers from the Latin American region.

On October 14 and 15, 2023, I had the honor of attending the 61st Annual Meeting of the Carcinological Society of Japan (CSJ). The number of members in CSJ is comparable to that of TCS. In addition to Japanese colleagues, there are participants from Italy, Israel and Hong Kong to this meeting. I delivered a talk titled "The Crustacean Society and its Possibility to Collaborate with the Carcinologists in Japan" with the goal of enhancing our Japanese membership (Fig. 1). My presentation included an overview of TCS's history, the grants available to members, and our latest developments. It's worth noting that Prof. Akira Asakura, the president of CSJ, had previously served as the president of TCS in 2010 and 2011. CSJ and TCS can be considered sister societies, as CSJ frequently supports and organizes symposia at TCS meetings. At the ICC10 in New Zealand this year, our Asia governor Tadashi Kawai organized the symposium "Frontiers in Crustacean Biology: An Asian Perspective" in collaboration with CSJ. Akira-san presented a talk in this symposium introducing the history of CSJ to the ICC10 participants.

To further enhance members' professional activities, future taxonomic or eco-physiological workshops for various crustacean groups may be organized by TCS and CSJ for both of their members. Looking ahead to the spring of 2025, TCS and CSJ are likely to co-organize a small regional meeting in Inha University, Incheon, Korea (led by Taewon Kim at Inha University, Korea, and Tadashi Kawai from Hokkaido Research Organization, Japan) with the goal of establishing stronger connections with carcinologists in Korea and recruiting new Korean members.

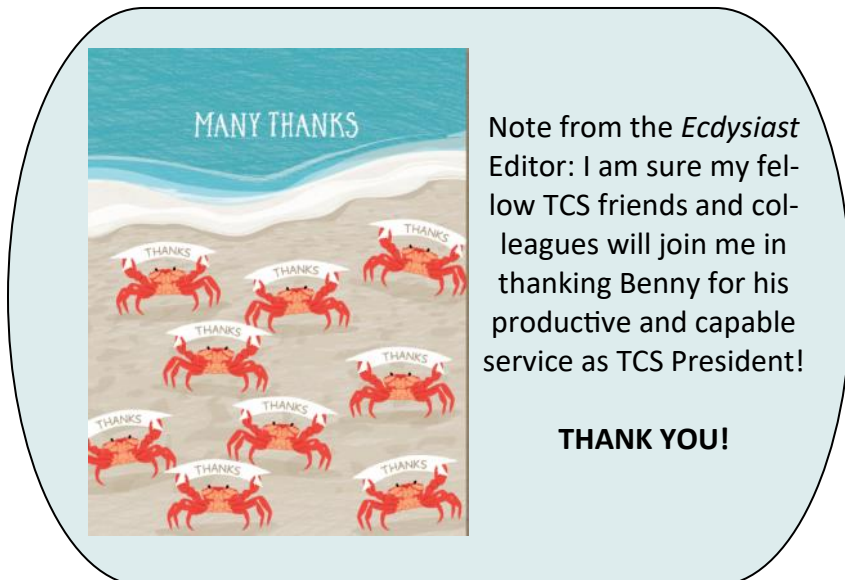


In 2024, our President-Elect, Amanda Windsor, will assume the role of TCS President. I extend my best wishes to her for a continue successful steering the development of our society.

Benny K.K. Chan — President, The Crustacean Society



Fig. 1. A. Introducing TCS at the 61st Annual Meeting of the Carcinological Society of Japan (CSJ) 14-15 Oct. 2023, with the goal of enhancing our Japanese membership. **B.** A nice poster for the CSJ annual meeting posted in the entrance of the lecture hall. **C.** There were many participants in this CSJ meeting and some of them came from as far as Italy, Israel and Hong Kong. **D.** Photo taken in the CSJ meeting with Prof. Akira Asakura (middle), the current president of CSJ and my collaborator Ling-Ming Tsang from the Chinese University of Hong Kong. (Photo credit (A-D): Akira Asakura)



Note from the *Ecdysiast* Editor: I am sure my fellow TCS friends and colleagues will join me in thanking Benny for his productive and capable service as TCS President!

THANK YOU!



Thank you to our benefactors

Consider becoming a TCS Patron Member where you support the membership of at least one other member/student. The numbers are still increasing, a **thank you** to you all!



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Members**

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 Louis Ambrosio
 Raymond Bauer
 David K. Camp
 Peter Castro
 Paul Clark
 Neil Cumberlidge
 Rodney Feldmann
 Michael Gable
 Jens Thorvald Høeg
 Vincent Chi Sing Lai
 Eric Lazo-Wasem
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 Amir Sagi
 Bernard Sainte-Marie
 Carrie Schweitzer
 Jeff Shields
 Roger Thoma
 Brian Tsukimura
 Christopher Tudge
 Jose Luis Villalobos Hiriart
 Les Watling
 Amanda Windsor





The Crustacean Society Board Members, 2021

President

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Academia Sinica, Taiwan
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US Food and Drug Administration, Maryland, USA
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Past-President

Ingo Wehrtmann
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email: ingo.wehrtmann@ucr.ac.cr

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The Ecdysiast is published twice yearly in May and November and it is available in electronic form at <http://www.thecrustaceansociety.org/ecdysiast>. All the past issues are also available from the same web site. Submissions for the May newsletter should be received by mid March, while those for the November newsletter should be received by mid September. All types of crustacean-related contributions are encouraged, including announcements of upcoming workshops and meetings, regional updates, meeting summaries (with photos!), new publications and any other crustacean news.

Send all material directly to the Editor:
Kareen Schnabel, kareen.schnabel@niwa.co.nz



The Crustacean Society Liaison Officers, 2021

The Chinese Crustacean Society

Liaison Officer: Jianhai Xiang
CAS Institute of Oceanology, China
email: jhxiang@qdio.ac.cn

International Association of Astacology

Liaison Officer: Kohei Murakami
Japan
email: fanmail@koheimurakami.com

The Brazilian Crustacean Society

Liaison Officer: Fernando Mantelatto
University of São Paulo, Brazil
email: flmantel@usp.br

The Carcinological Society of Japan

Liaison Officer: Akira Asakura
Seto Marine Biological Laboratory, Kyoto
University, Japan
email: asakura.akira.6w@kyoto-u.ac.jp

The World Association of Copepodologists

Liaison Officer: Rony J. Huys
Natural History Museum, London, UK
email: r.huys@nhm.ac.uk

International Research Group on Ostracoda

Liaison Officer: Renate Matzke-Karasz
University Munich, Germany
email: r.matzke@lrz.uni-muenchen.de

Latin American Carcinologist Association

Liaison Officer: Michel Hendrickx
Unidad Academica Mazatlan, Mazatlan, Mexico
email: michel@ola.icmyl.unam.mx

Colloquium Crustacea Decapoda Mediterranea Group

Liaison Officer: Enrique Macpherson
Centro de Estudios Avanzados de Blanes, Spain
email: macpherson@ceab.csic.es

Terrestrial Isopod Biologists Group

Liaison Officer: Jasna Strus
University of Ljubljana, Slovenia
email: jasna.strus@bf.uni-lj.si

Large Branchiopod Working Group

Liaison Officer: D. Christopher Rogers
University of Kansas, Kansas
email: branchiopod@gmail.com

Amphipod Group

Liaison Officer: Wim Vader
Tromsø Museum, Norway
email: wim.vader@uit.no

German Carcinologists

Group Liaison Officer: Sebastian Klaus
Goethe Universität, Frankfurt am Main, Germany
email: klaus@bio.uni-frankfurt.de

Follow The Crustacean Society on social media



@TheCrustaceanSociety



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Treasurer's Report for November 2023

As of October 2023, TCS had 332 renewed members for 2023 (215 regular members, 25 patron members, and 92 student members). This is nearly double the number of student members compared to this time in 2022! Please keep up the great work in promoting the society. With this in mind, TCS Scholarship and Grant Opportunities will be due in March 2024 (Fellowship in Graduate Studies due March 31, TCS Early-Career/Post-PhD Travel Awards due March 15 and TCS Student Travel Awards due March 15). Both the student and their faculty sponsor/mentor must be TCS members at the time of application. Reminder that if you join after Oct 1 your membership will be processed for the next year . . . so, no need to wait. Renew now!

The Executive Committee of TCS (President Benny Chan, President-Elect Amanda Windsor, Treasurer Jason Williams, Secretary Javier Luque, and Program Officer David Hudson) approved seed money (\$2500) for the TCS summer meeting in Taiwan. The Executive Committee also approved providing discounted rates (\$35) for new or renewing members in financial hardship. The TCS Regional Governors and Executive Committee will review these hardship requests upon submission.

The 2024 proposed budget can be viewed below. The budget is based on current membership numbers; based on these numbers and mostly conservative estimates of charges, we are presently projecting a small surplus (~\$5K). Our Schwab accounts total approximately \$700K and our MainStreet Bank account is at approximately \$8K.

Respectfully submitted,

Jason Williams



STATEMENT OF ACTIVITIES (Year January 1, 2024 through December 31, 2024)

			Proposed Budget 2024
REVENUE			US\$
Membership Dues (4090)			
Member Online			21,500
Patron Online (Online Journal and subsidize at least one (student) member)			4,875
Student Online Member			3,220
	Total Membership Dues		29,595
<hr/>			
JCB	OUP Profit Sharing		33,887
		Page Charges	
		Color Plates	
		Single Issue Sales	
		Total JCB	33,887
<hr/>			
Contributions:	Denton Belk Memorial Fund		15,000
	Student Scholarship Fund		15,000
		Total contributions	15,000
<hr/>			
Meeting Revenue:		Registration - Member	
		Registration - Non-Member	
		Registration - Student	
		Registration - Student Non-Member	
		Banquet	
		Sponsorship	
		Corporate Registration - Sponsorship	
		Exhibitors	
		Special Events - Field Trip/Tours	
		Merchandise Sales	
		Registration Cancellation Fee	
		Interest	
		Total Meeting Revenue	0
<hr/>			
TOTAL REVENUE			78,482
<hr/>			
EXPENSES			
Meetings:	Summer Meeting Expense (2024 summer meeting in Taiwan)		2,500
		Abstract & Programs	
		Exhibits/Posters/Signs	
		Food & Beverage	
		Insurance	
		Meeting Management	
		Other Meeting Expenses	
		Supplies	
		Travel - Other officers including SICB Liason	
		Travel - President	4,000
		Total Meeting Expense	6,500
<hr/>			
	SICB	SICB Booth and meeting sponsorship	1,050
		SICB General Expenses (including hosting social)	1,000
		SICB Symposium	
		Total SICB Expenses	2,050
<hr/>			
		Total Meeting Expenses	8,550
<hr/>			
JCB:	Editor's Stipend		
	Editor's Office	Postage	
		Office Supplies	
		Phone/Internet	
		Support to JCB Editors Meeting	
		Support to JCB Editors Membership	1,900
		Travel	
		Total Editor's Office	1,900





JCB: (cont'd)	JCB Printing & Distribu-	Color Plate Charges	
		Print issue/member charge	
		Member Subscriptions	8,300
		Total JCB Printing & Distribution	8,300
Awards & Scholarships		Total Awards & Scholarships	\$15,400
Administrative	Bank Service Charges/Investment Fee (6210)		1,730
	Credit card charges		
	Cash Transfer to PayPal Fee		
	Dues to Other Organization		125
	Intuit fees		
	Legal Fees (6280)		
	Management Fee - BAI		33,000
	Membership		
	Non-Profit Registration		
	Office Supplies (6550)		
	Postage		
	Survey Monkey		
	Tax Preparation		
	Telephone		
	Website		700
	Social Media Coordinator		1,000
	Other Officer Travel		
	Miscellaneous/ TCSERA Award Plaque		150
	Insurance		2,184
		Total Administrative	38,889
TOTAL EXPENSES			73,039
CHANGE IN NET ASSETS			5,443



The Crustacean Society

[About TCS](#) [Meetings](#) [Members](#) [Grants and Awards](#) [Publications](#) [Other Resources](#)





The Crustacean Society

Advancing the study of all aspects of crustacean biology

Become a member



Journal of Crustacean Biology

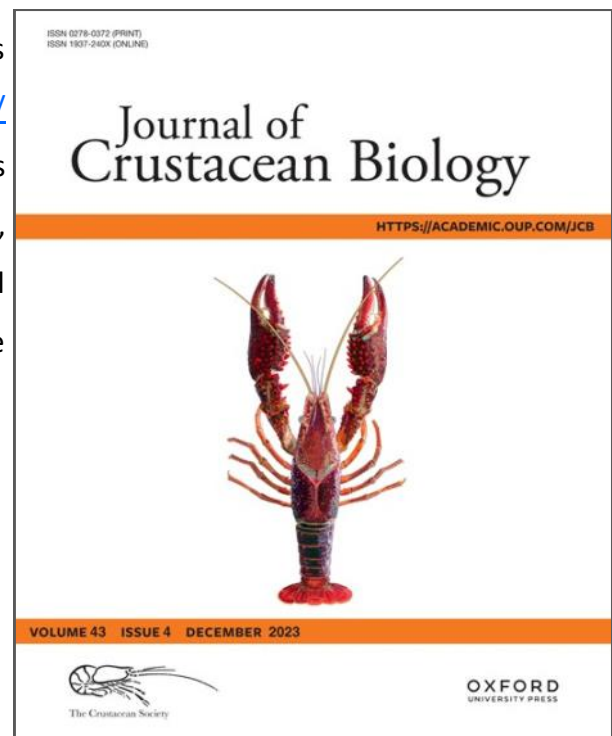
2023 INTERIM PROGRESS REPORT

Our journal is getting ready for a record year in terms of both the number of submissions and published articles. The number of submissions stands at 103 as of 3 November 2023, the number of published articles at 65. Sixteen additional articles have been accepted for publication but we are awaiting for authors to upload revised manuscript. A highlight is the publication of a considerable number of articles as a special section on freshwater crayfishes.

The last issue of the year 2023 will be published as Volume 42, Issue 4 in December 2023 (<https://academic.oup.com/jcb/issue/43/4>). The cover features a beautiful illustration of *Procambarus clarkii* (Girard, 1852) by T. Takenaka, drawing attention to the special section on freshwater crayfishes. Take a look at the interesting range of carcinological research on display.

Peter (Pedro) Castro
Editor-in-Chief, *Journal of Crustacean Biology*

Consider publishing in the JCB, remember that page charges (for the first 12 pages of the typeset article) are waived for TCS members.





The Social Media Corner

Dear Crustacean Society Members,

I am thrilled to share the latest updates with you regarding our thriving crustacean community on social media. Your support and engagement have been remarkable, and I am excited to give you a glimpse into our latest achievements:

 **Growth:**

Since our last newsletter, our social media family has expanded significantly. Our Facebook page now has an impressive 670 followers, while X (formerly known as Twitter) isn't far behind with 653 dedicated crustacean enthusiasts. On Instagram, we've cultivated a community of 475 followers. This means we've welcomed around 364 new members across all our social media channels!

 **Top-Performing Post:**

We're excited to share that one of our most impactful posts garnered over 4,027 impressions on X! This achievement was made possible through our collaboration with "Women in Crustacean Science," who organized their first women-only crustacean conference this year (see below, p19). This unique, participation-fee-free meeting attracted significant attention, with 109 people directly clicking on the link to learn more.

 **Your Crustacean Moments:**

You, as our members, are the heart of the Crustacean Society, and we want to celebrate your contributions. If you have captivating crustacean photos or fascinating events to share, please don't hesitate to pass them along. Our aim is to showcase crustacean biodiversity worldwide, and I'd be honored to feature your favorite crustacean pictures on our social media channels. Please send any inquiries to the thecrustaceansociety@gmail.com.

I am looking forward to keeping you up to date with the latest news from the world of crustacean science on our social media. Please do not forget to like, share, and follow us if you haven't already ([@TheCrustaceanSociety](#) on Facebook [@CrustaceanSoci](#) on Twitter [@thecrustaceansociety](#) on Instagram)

Warm Regards,

Karlotta Kürzel (TCS Social Media Coordinator)

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MEETINGS
Symposium of Women in Carcinology,
virtually from Brazil,
Oct 23rd - Oct 25th 2023

Abstract Submission: Until August 30th
For more information,
please check the description

TWEET

Please help us by sharing our social media content!



The Crustacean Society provides a wide range of grants and scholarships for students and postdoctoral researchers. The various options are presented below. Please make sure to apply before the deadlines. If you have any questions please contact the [TCS Program Officer](#).

TCS Fellowship in Graduate Studies

TCS annually awards up to six US\$1,000 Fellowships in Graduate Studies in any research concerned with the biology of crustaceans. The fellowship is to support the research objectives and career goals of the graduate student. This award requires a letter of support from their faculty sponsor/mentor. Both the student and their faculty sponsor/mentor must be a TCS member at the time of application. Further details and requirements are in the application and can be downloaded [here](#).

DEADLINE FOR APPLICATION: 31 March annually.

TCS Early-career, post-Ph.D. Travel Awards

TCS annually awards up to three (3) US\$1,500 travel awards for early-career researchers with a Ph.D. awarded within five years of the application deadline. Extension of up to eight years post- Ph.D. will be considered at the discretion of the Program Officer for applicants having taken a career break for family reasons. The grants shall cover travel to present, preferably in an oral session, results of their research in any field of study involving crustaceans at a TCS meeting (mid-year or SCIB meeting). Preference will be given to applications that will result in a manuscript suitable for publication in *Journal of Crustacean Biology*. Deadlines: 15 March and 15 September annually. The application can be downloaded [here](#).

DEADLINE FOR APPLICATION: 15 March and 15 September annually.

TCS Student Travel Awards

The TCS Student Travel Awards are granted twice a year to support student attendance at TCS meetings (TCS mid-year/ICC and SICB). Applicants must be enrolled in an undergraduate or graduate degree program, be the presenter of an oral or poster presentation at the TCS/ICC/SICB meeting they attend, and demonstrate financial need for TCS support of travel to the meeting. Both the student and their faculty sponsor/mentor must be a TCS member at the time of the application. The application can be downloaded [here](#).

THE NEXT DEADLINE FOR APPLICATION: end of January 2024.

—TCS Program Officer: Dr. David Hudson



Announcing the winners of the 2023 TCS Photographic Competition

Judge panel: Benny K.K. Chan, Anne Helene Tandberg, Lauren Ballou and Rachael Peart

Natural photographs of live crustaceans including aquarium shots:

First – Iain McGaw

Title: Purple shore crab *Hemigrapsus nudus*

Description: The purple shore crab *Hemigrapsus nudus* is a common inhabitant of the intertidal zone in coastal British Columbia. On cool humid days these little crabs emerge from under rocks during low tide to graze on algae and feed upon small invertebrates



Second - Tom Levy

Title: Spot Shrimp in Southeast Alaska

Description: The Northern spot shrimp, *Pandalus platyceros*, is the largest species in the family Pandalidae and the primary target species for shrimp fisheries in Southeast Alaska. While playing a key role in the Alaskan shellfish economic portfolio, declining catches in recent decades dictated strict management and even closures of previously productive districts within Southeast Alaska waters. Spot shrimp are hermaphrodites with a complex protandric life cycle that spans over seven years in the cold waters of Alaska. Upon hatching, planktonic larvae go through several larval stages before metamorphosis and then settle onto the benthos to begin their juvenile life stage. Juveniles spend the first two years of their life in shallow habitats before migrating to depths of more than 500 m. Then, all individuals first mature and reproduce as males before going through a transitional phase followed by maturation as females. During this process, ovotestes transform from sperm production to a true ovary that produces mature eggs. The high degree of sexual plasticity, highlighted by a unique slow transformation between male and female stages, makes spot shrimp an ideal model to explore controlling mechanisms behind sex differentiation in crustaceans. Moreover, studying its curious protandric life history can contribute to conservation efforts for sustaining wild populations to benefit both commercial and ecological aspects.



The photo was taken on a boat in Southeast Alaska in 2017. The shrimp sit on a plastic tote but the moisture reflecting the sky creates an optical illusion in which the shrimp are floating on the water. This Spot Shrimp study in Alaska was supported by the US-Israel Binational Science Foundation.



Third – Zack Graham

Title: The Upland Burrowing Crayfish, *Cambarus* aff. *dubius*

Description: Unlike most species of crayfish which inhabit permanent bodies of water, the Upland Burrowing Crayfish, *Cambarus* aff. *dubius* constructs semi-terrestrial burrows down to the water table. Burrowing crayfishes remain mysterious to biologists, as the majority of their life is spent within a burrow. Interestingly, many burrowing species are conspicuously colored, although the function of such colors are unknown. Ecologically, burrowing crayfishes nitrify soil and create habitat for dozens of animal species. Members of the *Cambarus dubius* species complex exhibit color polymorphism throughout their range. Genetic data suggests that this phenotype represents an undescribed species. This particular specimen was collected from southern West Virginia.



Honorable mention - Gregory C. Jensen

Title: juvenile Puget Sound King crab

Description: The common name “Puget Sound king crab” is a bit of a misnomer for *Echidnocerus cibarius* (formerly *Lopholithodes mandtii*), as this species is rarely encountered in Puget Sound and generally occurs in more coastal waters. This juvenile was one of those infrequent Puget Sound specimens, and shows the bright orange coloration typical of small individuals. As it matures the dorsal cones will become much less prominent and it will take on a brilliant color palette of scarlet, yellow, and purple. These slow-moving lithodids feed on a wide variety of invertebrates, including urchins, sea stars, bryozoans, barnacles, and even sea anemones. They can attain a carapace width of 308 mm (12.1 inches), making them one of the largest crabs on the west coast of North America.





Laboratory taken, specimen photographs:

First - Pedro Rendón-Barraza

Title: *Hyperia medusarum*, a jellyfish-associated hyperiid amphipod.

Description: Amphipods and gelatinous zooplankton (cnidarians, ctenophores, and tunicates) are often found associated in the wild but remain poorly understood, due in part to difficulties in the identification and collection of both symbionts. Nevertheless, it is known that the diversity of amphipods associated with these animals is quite diverse, varying greatly between environments and hosts.

This female *Hyperia medusarum* (Amphipoda: Hyperiididae) was collected on the oral arms of a Lion's mane jellyfish (*Cyanea capillata*) in the coastal city of Bergen, Norway, during summer of 2022. The relationship between these two species is one of the most well-studied amphipod jellyfish associations in the Arctic, Northern Atlantic and Northern Pacific. The exact nature of these associations is still debated and range between opportunism and parasitism. It has been proposed that almost all hyperiid amphipods are at some point of their life cycle found associating with gelatinous zooplankton.



Second - Valentin de Mazancourt

Title: Glow in the dark

Description: This shrimp of the species *Caridina multidentata* (Caridea: Atyidae) was placed in presence of calcein for 48h and is here seen under ultraviolet light. This shows the incorporation of calcein within the cuticle and was part of an experiment to study the persistence of calcified elements of the cuticle over several molt cycles. After another molt cycle without calcein in the water, some fluorescence was still visible, suggesting that minerals from the old cuticle can be recycled by the shrimp to form the new one.





Third - Alyssa Oppedisano

Title: *Creaserinus* aff. *fodiens* Craylings

Description: Pictured are three *Creaserinus* aff. *fodiens* craylings one day after hatching from artificial incubation. Before being placed into the artificial incubation tank, they were removed from the abdomen of their mother, which is why they are not attached to her abdomen. At about five to six millimeters long, the three crayfish are still holding onto the telson thread which is attached to the ruptured egg capsule. The eggs on a female crayfish stay on her abdomen by sticky mucus from the gonopores and then attach to the pleopods by a thread like structure. As the eggs are becoming firmly attached, the female is releasing the male's sperm from storage in her annulus ventralis to fertilize the eggs. From there, the mother will care for her eggs by protecting them from predators and cleaning bacteria or other harmful substances off them. In the case of the pictured craylings, the protection and cleaning of the eggs happened in an aerated tumbler that mimicked the behavior of an ovigerous crayfish inside of a burrow.



Honorable mention - Iain McGaw

Title: BC spot prawn

Description: The spot prawn *Pandalus platyceros* is a large commercially important prawn species on the west coast of Canada. They tend to live at depths >100m and are primarily harvested using traps. The prawns shown here were captured in Barkley Sound, British Columbia and were being transferred to the lab to be used in feeding studies.



CONGRATULATIONS TO ALL THE WINNERS!



Obituaries

We remember our colleagues who we lost recently with gratitude for their contributions to crustacean research and to our community.

Boris Sket (30 July 1936 – 7 May 2023)



Boris obtained his doctorate at the University of Ljubljana in 1961 and became a research assistant at the former Natural sciences faculty. In 1965, he became an invertebrate zoology professor at the Biotechnical faculty in Ljubljana and remained at this position until 2006. Between 1983 and 1985, Boris served as a Dean of the Biotechnical faculty, and later, between 1989 and 1991, as the 37th Rector of the University of Ljubljana. He was retired as a scientific councillor and still lecturing speleobiology to graduate and post-graduate students.

His research focused on the faunistics of troglobionts and biospeleology in general. He described over a hundred new species, some genera and a family of invertebrates, mostly crustaceans and leeches. A new biogeographic classification of Dinaric cave fauna. First ecological investigations of anchihaline fauna.

Boris joined the ranks of Ljubljana Cave Exploration Society (DZRJL) in 1950 and in 1964 he discovered Borisov rov [Boris Tunnel], an important part of Najdena jama cave. While the focus of his research was the cave fauna of the Dinaric karst, he also took part in cave explorations in other areas such as Ecuador, Galapagos islands, Colombia, Crete island, The Philippines, Florida, Bermudas, Kenya and China. Boris was the president of the Caving Association of Slovenia, the president of the International Society of Subterranean Biology. He also served in editorial boards of several scholarly journals and was a subject field editor of the 'megajournal' Zootaxa.

In 2011, Boris became a member of the Slovenian Academy of Sciences and Arts. Additionally, he was a foreign member of the Academy of Sciences and Arts of Bosnia and Herzegovina. Holder of some national awards and medals. Approximately 35 animal species are named sketi, and three genera.

Sket died on 7 May 2023, at the age of 86.

(adapted from [Wikipedia](#))

Joseph W. Goy (March 30, 1950 – June 14, 2023)

Joseph ("Joe") Goy was born in Linden, New Jersey. He was noted as the foremost authority on the Stenopodidea (the glass, boxer and coral shrimps). His love of animals in started early. As a boy, he was an avid naturalist, collecting and studying insects, spiders and, of course, crustaceans. He was eager to talk to anyone about these tiny arthropods. His first university degree was his B.A. from Keen University, New Jersey in August 1972. Eager to continue his interest, he studied decapod larval development at Old Dominion University, North Carolina in 1973–1976 and earned his MS. He coauthored numerous papers on decapod larval development. He later studied with Darryl Felder of the University of Southwest Louisiana (now the University of Louisiana at Lafayette). He had the opportunity to study the decapod fauna of the Florida Keys and later would incorporate some of this work into further publications. While at Lafa-





vette, he met Jo Boykin, his wife-to-be. He married “Mrs. Jo” in 1984, a happy marriage that lasted 39 years.

In 1985, he left Louisiana to study with me in the Department of Biology at Texas A&M University. He had applied to TAMU previously but declined the offer. He had to re-apply, this time without guarantee of financial support and under academic probation. I heartily endorsed him, confident that he would succeed. He soon had a straight-A grade point average (as I knew he would) and continued his studies on larvae on his own. He was a very capable and patient teaching assistant in Invertebrate Zoology. Joe and his fellow graduate student Guinn Fain Hubbard, both of them sizable individuals, were a great help with heavy equipment and intimidating “slackers” during field trips. I received a grant to investigate seasonal depth migration in the megalops shrimp *Penaopsis serrata*. Joe did the field work on the fishing boat “Success”. He became acquainted with fauna of the outer continental shelf and upper slope. He also gained a reputation as a good cook!

Joe continued his work on larvae in his dissertation (TAMU Biology 1990). A loyal “Aggie”, Joe was an avid fan of TAMU football, whether in person or on TV.

Joe joined the faculty of Harding University in Searcy, Arkansas in 1995. With “Mrs. Jo” in the office across the hall, he taught there until he retired in 2015. He was well-liked and respected by colleagues and students alike. Joe and Joe had one daughter, Sarah Sirsat, who later became a faculty member at the State University of New York at Potsdam. She and husband Tushar Sirsat had two children, Anjali and Ruvan, both of whom soon were drawn into the appreciation of natural history.

Living in Arkansas, far from the coast and major museums or specimen collections, Joe was somewhat isolated. The tranquil environment (without ceaseless proddings to get grant funding) gave him time for exacting work on the Stenopodidea. His detailed illustrations and careful descriptions provided unmatched information on these shrimps. He authored or co-authored 40 papers, in later years collaborating on phylogenetic work that included genetic analyses. He, Thomas Iliffe of Texas A&M University at Galveston, and I organized the Crustacean Society meeting in Galveston in 2008. Aside from many excellent presentations, this meeting was remembered for the catered dinner at Gaido’s Restaurant: dishes of shrimp prepared in a wide variety of styles, followed by huge slices of pecan pie.

Joe carried on correspondence with North American and other international colleagues and wrote about specimens from as far away as New Caledonia. He also helped underwater photographers identify their stenopodids. This allowed detailed descriptions of species in life, including photogenic new species (such as *Stenopus pyrsonotus* Goy and Devaney 1980, a large Hawaiian stenopodid). Joe was honored in the naming of five species and a new genus (*Jogoya* Anker, 2023).

At the time of his passing, Joe had started new studies on the deep-sea sponge-dwelling shrimps, Spongi-*colidae*. Remotely operated vehicles lately have obtained video footage of these shrimps in life, providing opportunities to determine the relationships between the shrimps and their sponge hosts. I hope that upcoming new investigators can continue studies of the behavior and commensal relationships of these photogenic shrimps.

— Mary Wicksten & Michel Hendrickx



Left: Mary K. Wicksten and Joseph Goy, The Crustacean Society Meeting, Galveston, Texas, USA, 2008 (Foto courtesy of Rafael Lemaitre).

Right: Muséum national d'Histoire naturelle, Paris, 1992. Back row: Ken-Ichi Hayashi, Alain Crosnier, Enrique Macpherson, Marcos Tavares and Joe Goy. Front: Masako Hayashi (wife of K.I. Hayashi), Dwi Listyo Rayahu and Tin-Yam Chan (Foto credit TY Chan)





Upcoming meetings



2–6 January 2024: SICB annual meeting, Seattle, WA, USA

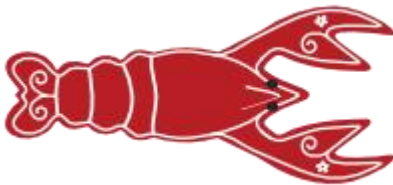
Conference information can be found [here](#).



27 May – 1 June 2024: TCS mid-year meeting

Academia Sinica, Taipei, Taiwan

Conference information can be found [here](#).



16-20 September 2024: IAA 2024: Symposium of the International

Association of Astacology

Hotel “Dubrovnik”, Zagreb, Croatia

Registration Ends: Thursday, August 1, 2024

Visit the [Meeting Website](#) for additional details.



January 2025: SICB annual meeting, TBA



Reminiscing of past meetings



Feedback from the 1st Symposium of Women in Carcinology

The I Symposium of Women in Carcinology, “Expanding connections through science”, occurred from 23 to 25 October of 2023, via online transmission from Brazil. The event was organized by the administrators of the project “Women in Crustacean Science” Dr. Isabela Moraes, Dr. Júlia Perroca, MSc. Amanda Horch and MSc. Milena Jaconis, along with the help of Dr. Tânia Marcia Costa, and supported by the Brazilian Society of Carcinology, the São Paulo State University - Institute of Biosciences of the Campus Litoral Paulista and Institute of Biosciences of the Campus Botucatu.

The project “Women in Crustacean Science” began in 2020 as an Instagram page (@womenincrustaceanscience), where posts were shared to tell the stories of women carcinologists who inspire us, both the ones that made history and the ones who are still making it. Little by little, many women became involved in the initiative, and we met carcinologists from many places in Brazil, most of which we didn’t have any previous contact with. We organized online meetings with women researchers from all over Brazil, from undergraduate students to professors, where they felt comfortable sharing and discussing their difficulties, lack of opportunities and harassment in the work environment. We discussed topics such as the lack of diversity in academia, with few women reaching principal investigator status, coordinating labs, leading projects and being awarded productivity fellowships. Furthermore, we also discussed the exclusion that researchers suffer when they have children. In 2021, by an invitation from Dr. Mariana Terossi, the page also became a research project to discuss gender equity in Brazilian and international carcinology.



Organizing committee—from left to right: Ms. Amanda Horch, Dr. Isabela Moraes, Dr. Julia Perroca, Prof. Dr. Tania Costa from the São Paulo State University, and Ms. Milena Jaconis.

The idea of the Symposium came about in early 2023, and the focus theme “Expanding connections through science” was defined from the main objective of the event: connecting women who work in any crustacean research topic, providing opportunities for new partnerships and strengthening already existing ones, with the ultimate goal of furthering the appreciation of science made by women and pursuing gender equity. Moreover, the event paid homage to all women carcinologists, who even in the face of many challenges, have had a central role in the progress of the field, being pioneers in many research areas and contributing to the knowledge of crustaceans in Brazil and internationally. The event was open to all people currently conducting research in Carcinology who were willing to broaden their minds.

To our surprise, the event grew to a larger and larger scale, not only within our country but also abroad, with researchers from other countries reaching out to manifest their wish to participate despite the language barriers. This made even more clear the need to give more visibility to the scientific work produced by women, both in Brazil and abroad. We had 463 sign-ups to the Symposium, 241 being from undergraduate students, 123 from graduate students and 91 from professional researchers. We received 106 scientific ab-



stracts of very high quality from all around the world to be presented in the event. Of these 106, one abstract each were from Finland, the Netherlands, Portugal, Pakistan, India, Malaysia, Australia, and Puerto Rico, three from the United States of America, two from Mexico, 12 from Argentina, and 81 from Brazil.

Besides the oral presentations of the submitted abstracts, the Symposium also had several featured talks: “Contributions from Women to Brazilian Carcinology” given by Dr. Paula Araújo, “Entrepreneurship in Research: Exploring Work Opportunities Beyond Academia” given by Dr. Tavani Rocha, “PMBA: Origin, Perspectives and Challenges for the Crustacean Fauna Affected by the Disaster of the Fundão Dam - Mariana/MG” given by Dr. Mariana Antunes, and “Diversity of Amphipoda in the Brazilian Oceanic Islands” given by Dr. Elkêrita Guedes. Two round tables also occurred during the event: “Connecting Generations” with the participation of Dr. Andrea Freire, Dr. Fosca Pedini, Dr. Laura López-Greco, Dr. Cristiana Serejo and Dr. Tânia Marcia Costa; and “Maternity and Science” with the participation of Dr. Katia Hiroki, Dr. Daniela Castiglioni, Dr. Andressa Cunha, and Dr. Mariana Terossi.

The organizing committee of the I Symposium of Women in Carcinology wishes to thank all the researchers who presented their work, as well as all those who were part of the scientific and evaluating committees.



The round table “Connecting Generations” was led by Prof. Dr. Tania Costa from the São Paulo State University; Prof. Dr. Laura López Greco from the Universidad de Buenos Aires, Argentina; Prof. Dr. Andrea Freire from the Federal University of Santa Catarina; Prof. Dr. Cristiana Serejo from the National Historical Museum (Brazil); and Prof. Dr. Fosca Pedini from the State University of Campinas.



Professor Dr. Paula Araujo from the Federal University of Rio Grande do Sul during her opening lecture on Women’s Contribution to Brazilian Carcinology.



Hot off the press & Announcements

Ontogeny of Crustaceans Postgraduate Course

1–8 March 2024



This year, the Postgraduate Course "Ontogeny of crustaceans" will be reissued. The course will take place entirely in the Laguna Mar Chiquita, the best-known site of Argentina from the carcinological point of view, and one of the best known in the world. Students and teachers will work in the field and in simple laboratory facilities, discuss theory, and also live together during eight days.

The researchers who organize the course are Dr. Claudia C. Bas and Dr. Tomás A. Luppi, Instituto de Investigaciones Marinas y Costeras (IIMyC), UNMdP-CONICET (Mar del Plata, Argentina).

The course will be taught from 1–8 March 2024. For more information contact taluppi@mdp.edu.ar or visit the following web site <https://sites.google.com/view/ontogeniadc crustaceos/home>

Confusing Crustaceans: Peracarid Systematics, Collection and Preservation

July 31, 2024 - August 14, 2024

The course is aimed at students, post-docs, or professionals who are interested in learning about identification, collection, evolution, preservation and data management for peracarid crustaceans. Peracarid diversity in tropical ecosystems is very high, second only to the Southern Ocean.

The students participating in this course will:

- **Learn to collect, identify, dissect and preserve peracarid crustaceans.**
- **Learn general biological and ecological characteristics across the Peracarida.**
- **Gain hands-on experience with collecting, identifying, preserving for morphology and biomolecules, identifying appropriate body parts for tissue sampling, and managing data from collection to specimen to sequence.**
- **Establish connections with other researchers working on peracarids.**

Application: Please e-mail your CV, 1 letter of recommendation and a 1–2 page statement explaining your background and reasons for taking the course, to bocasresearchstation@gmail.com before January 17th, 2024. To be considered for a need-based fellowship, applicants should send a description of their need, their efforts to obtain funding from other available sources, and a travel budget. For further information, please visit:

[Confusing Crustaceans: Peracarids](https://stiresearch.si.edu/taxonomy-training/course/confusing-crustaceans-peracarid-systematics-collection-and-preservation/) (<https://stiresearch.si.edu/taxonomy-training/course/confusing-crustaceans-peracarid-systematics-collection-and-preservation/>)



Jimmy Alcivar Arteaga Student Travel Award

for international students to attend the National Shellfisheries Association
116th Annual Meeting, Charlotte, North Carolina, USA
March 17-21, 2024

12 awards available. Covers NSA membership, Environmental Sustainability Rotary Action Group membership (ESRAG, www.esrag.org), airfare, shared hotel room, meals, poster printing, and airport-Charlotte-airport transportation costs.

Students interested in applying for a travel award must present a poster at the NSA meeting and send the following information as soon as possible to fucobi@gmail.com: abstract, curriculum vitae, and copy of the visa page in your passport (ready for submission to the NSA annual meeting, 250-words).

Students should not submit abstracts into the NSA portal until they are approved by the Scientific Committee of the FUCOBI Foundation. They will select awardees based on ratings of the quality of the research.



Facebook: <https://m.facebook.com/Fucobi/>

Twitter: @fucobi_unasalud

#OneHealth #Fucobi

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Website: www.fucobi.org

email: fucobi@gmail.com

For more information about the 116th Annual Meeting of the National Shellfisheries Association visit their website [here](#).

Reed North American Freshwater Copepod Research Fellowship

Fall 2023 application deadline extended to 7 January 2024

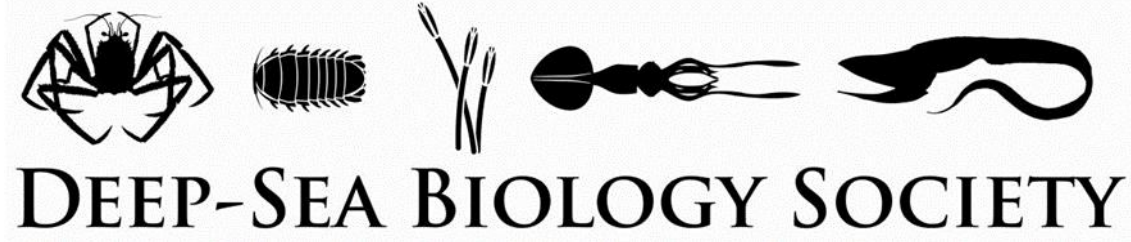
Information about the Edward B. and Phyllis E. Reed Research Fellowship can be found at: <https://fellowships.si.edu/Reed>. Please help spread the word to any colleagues you think may be interested in this opportunity.

This fellowship enables research on North American freshwater copepods. All copepod biologists actively engaged in research that includes North America freshwater copepods, whether it be collections-based (e.g., systematics, phylogeny, biogeography, comparative morphology, functional morphology, diversity), ecology, conservation or other areas are encouraged to apply.

Awardees are not required to be in residence in the Washington, D.C. area nor to spend a significant amount of time working in the Smithsonian NMNH Department of Invertebrate Zoology during the fellowship.

We are currently able to offer a one-time extended fellowship (up to one year). For more information, please contact [Karen Osborn](#), Curator of Crustacea, Smithsonian NMNH.

We especially encourage applicants proposing work on the newly digitally catalogued Frey North American Freshwater Plankton collection.



*Deep-Sea Biology Society Conference Support Awards and
Research Support Awards*

The Deep-Sea Biology Society supports its members through financial support and recognition for outstanding achievements. Awards refer to small grants that are given to support either research projects (Research Support Awards) or participation in conferences or other networking activities (Participation Support Awards). Prizes include special honours for outstanding publications or contributions to Deep Sea Biology, or outstanding conference contributions (best talk or poster).

Application for awards and prizes have different deadlines, though spontaneous applications at any time for urgent funds to support participation in deeps sea cruises are also welcome. Further questions about the DSBS awards can be sent to the [DSBS Awards Officer](#).

[Learn more and apply >>](#)



Join the Ocean Census Science Network:

Cruise and Workshop Opportunities

The recently launched [Ocean Census](#) - founded by The Nippon Foundation and implemented by Nekton - is aiming to accelerate the discovery of marine life. It is an open network of partners around the world uniting resources and expertise to discover and protect ocean life. You can learn more about the network [here](#) and can sign up with [this link](#).

Currently, the Ocean Census Network is **calling for expressions of interest** in joining a cruise and/or a deep-sea taxonomic workshop in February/March 2024. Please contact Verity Nye for further information, indicating your expertise, institution, and any scientific requests.

[Contact Verity Nye at Ocean Census >>](#)



Vacancy: Research Scientist/Biological Oceanographer, Zooplankton Ecologist

Deadline 15 December 2023

The Gulf of Maine Research Institute is seeking qualified candidates to establish a new research group that investigates climate-zooplankton-upper trophic interactions across spatial and temporal scales in the Gulf of Maine and adjacent Large Marine Ecosystems. The successful candidate will have experience with: (a) field-based experimental design and data collection, (b) in-lab analytical approaches, and (c) zooplankton modelling and forecasting to examine temporal and spatial variability in distribution, community structure, and ecology, with a focus on how these are affected by climate change, ecosystem conditions, and anthropogenic stressors. A strong quantitative background in, and technical knowledge of, zooplankton biology and ecology is preferred

The incumbent will work collaboratively with physical oceanographers, coastal ecologists, fisheries scientists, climate-ecosystem researchers, and socio-economic scientists to apply results to fisheries management, natural and social ecosystem assessments, and marine and coastal businesses throughout the regional Blue Economy.

Applications must be accompanied by a cover letter, CV or résumé, and list of three professional references with their contact information. Review of applications will begin immediately. The deadline for applications is December 15, 2023.

[Learn more and apply >>](#)



EV Nautilus Expedition Season: Ship-to-Shore Interactions

Until 19 December 2023

Bring the excitement of deep-sea exploration LIVE to your classroom, science center, museum, aquarium, or community event. Ship-to-shore interactions with *EV Nautilus* allow students to engage in a unique two-way, live dialogue with the educators, scientists, and engineers of the Corps of Exploration. Live interactions are available free to classroom and community events audiences. All live interactions are pre-scheduled to match teaching schedules.

[Learn more and request an interaction >>](#)



IPBES Fellowship Programme

Deadline 19 December 2023



IPBES is currently looking for fellows for the task force on scenarios and models, and fellows for the methodological assessment on monitoring biodiversity and nature's contributions to people ("monitoring assessment"). Please see the specific calls for nominations at the following links:

[Call for nominations fellows monitoring assessment](#)

[Call for nominations fellows task force on scenarios and models](#)

The IPBES fellowship programme provides an opportunity for outstanding early-career individuals from all backgrounds and disciplines working on biodiversity and ecosystem services to participate in IPBES assessments. The fellows gain first-hand experience in participating in major multidisciplinary scientific assessments while working with, and being mentored by, leading experts. The programme is an integral part of IPBES work on capacity-building, and aims at developing the capacities of fellows in undertaking assessments, thus creating a pool of experts suited for contributing to future assessments and promoting the work of IPBES in their home countries and institutions.

[Learn more and apply >>](#)



Call for Science Input: 2024 EV Nautilus Expeditions

Deadline 1 February 2024

In 2024, E/V Nautilus will conduct several telepresence-enabled, multidisciplinary expeditions to explore the deep sea throughout the Pacific. To support this, the team is inviting members of the ocean exploration, science and management community to submit priorities for seafloor mapping, remotely operated vehicle dives, physical sampling, and technology integrations. Please provide your input by 1 February 2024. Information received will be used to develop opportunities for collaboration and refine expedition plans, which will be discussed during community webinars preceding each expedition. Priorities submitted through this call may therefore be shared with NOAA Ocean Exploration for coordinated planning. Please help share this call for input with your networks to ensure broad representation.

[Submit priorities >>](#)



Delivering the science we need for the ocean we want
10 - 12 April

Over three days from the 10 - 12 April, the 2024 Ocean Decade Conference will create a new foundation to strengthen the sustainable management of the ocean and drive science-based innovation, from global to local, leaving no one behind.

[Learn more and register >>](#)

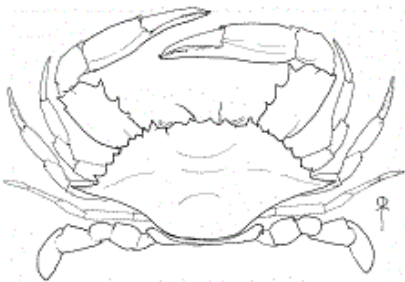


Two Conferences: Accelerating Ocean Science Solutions for Sustainable Development
22 - 25 April 2024

The 2nd UN Ocean Decade Regional Conference and the 11th WESTPAC International Marine Science Conference will take place in Bangkok, Thailand during April next year. The conferences share a theme of "Accelerating Ocean Science Solutions for Sustainable Development."

[Learn more and register >>](#)

CRUST-L@VIMS.EDU, the Discussion List for Crustacea



CRUST-L@VIMS.EDU is the email listserv for those interested in Crustacea. CRUST-L is an unmoderated open list, but you have to be a member to post messages to it. It has around 850 members! You can subscribe or unsubscribe to the list by following the links below. Use CRUST-L@VIMS.EDU to post messages to CRUST-L. The sympa software includes several features such as searchable archives, and a digest mode for intermittent mailings. If you have trouble with your subscription or settings, send a help request to jeff@vims.edu.

How to subscribe to list: <https://lists.vims.edu/wws/help/user#subscribe>

How to unsubscribe from list: <https://lists.vims.edu/wws/help/user#unsubscribe>



Research Papers

Please continue to share your recently published research papers (other than in JCB) that have relevance to crustacean research. If possible, include a link where the paper can be downloaded.

— Kareen Schnabel (Editor *The Ecdysiast*)

- Aneesh Kumar, K. V., Padate, V. P., Cubelio, S. S., & Saravanae, N. (2023). Population variation and sexual dimorphism in the deep-sea crab *Parilia alcocki* (Brachyura, Leucosiidae). *Marine Biology Research*, 1–15. <https://doi.org/10.1080/17451000.2023.2246473>
- Bos, R. P., Zhao, S., Sutton, T. T., & Frank, T. M. (2023). Microplastic ingestion by deep-pelagic crustaceans and fishes. *Limnology and Oceanography*, 68(7), 1595-1610. <https://doi.org/https://doi.org/10.1002/lno.12370>
- Chatterji, R.; Layne, J.E. (2023). Eye Movement Reflexes Indicate the Homing Direction in the Path-Integrating Fiddler Crab, *Uca pugilator*. *Journal of Marine Science and Engineering* 11(9): 1719. <http://dx.doi.org/10.3390/jmse11091719>
- Espinosa-Rodríguez, C. A., Jiménez-Santos, M. A., Martínez-Miranda, D. M., Piedra-Ibarra, E., Rivera-De la Parra, L., & Lugo-Vázquez, A. (2023). *Daphnia magna* (Crustacea: Anomopoda) in central Mexico wetlands: implications of escape from ecotoxicological laboratories. *Biological Invasions*. <https://doi.org/10.1007/s10530-023-03164-7>
- Fornshell, J. A. (2023). Research on sea spiders (Chelicerata; Pycnogonida) in the era of single-ship oceanographic voyages (1870-1915). *Arthropods*, 12(4), 260-275. [http://www.iaees.org/publications/journals/arthropods/articles/2023-12\(4\)/sea-spiders-in-era-of-single-ship-oceanographic-voyages.pdf](http://www.iaees.org/publications/journals/arthropods/articles/2023-12(4)/sea-spiders-in-era-of-single-ship-oceanographic-voyages.pdf)
- García-Vázquez, L., Alvarado-Ortega, J., & J. Vega, F. (2023). Pliocene freshwater isopods (Crustacea: Peracarida: Isopoda) from Jalisco, Mexico. *Boletín de la Sociedad Geológica Mexicana*, 75(1), A271122. <https://doi.org/10.18268/BSGM2023v75n1a271122>
- García-Vázquez, L., Campos, E., & Rodríguez-Almaráz, G. A. (2023). A new and rare epigeal asellid from western Mexico *Caecidotea contrerasbalderasi* sp. nov. (Isopoda: Asellidae) with a new suture pattern in pleopod IV for the Mexican epigeal species. *Nauplius*, 31, e2023012. <https://doi.org/10.1590/2358-2936e2023012>
- Gellert, M., Błażewicz, M., Mamos, T., & Bird, G. J. (2023). Diversity under a magnifier lens: the case of Typhlotanidae (Crustacea: Tanaidacea) in the N Atlantic. *Scientific Reports*, 13(1), 10905. <https://doi.org/10.1038/s41598-023-33616-y>
- Kitabatake, K., Izumi, K., Kondo, N. I., & Okoshi, K. (2023). Phylogeography and genetic diversity of the Japanese mud shrimp *Upogebia major* (Crustacea, Decapoda, Upogebiidae): Natural or anthropogenic dispersal? *Zookeys*, 1182, 259-287. <https://doi.org/10.3897/zookeys.1182.105030>
- McCarthy, A., Jeffs, A., Ogilvie, S., Taylor, D., Radford, J., & Tuck, I. (2023). The use of cameras on commercial deep-water trawls to investigate habitat associations and scampi trawl efficiency in New Zealand scampi *Metanephrops challengeri*. *Fisheries Science*, 89(6), 731-745. <https://doi.org/10.1007/s12562-023-01728-z>
- Methou, P., Nye, V., Copley, J. T., Watanabe, H. K., Nagai, Y., & Chen, C. (2023). Life-history traits of alvinocaridid shrimps inhabiting chemosynthetic ecosystems around Japan. *Marine Biology*, 170(6), 75. <http://dx.doi.org/10.1007/s00227-023-04221-4>
- Sarabeev, V., Balbuena, J. A., Jarosiewicz, A., Voronova, N., Sueiro, R. A., Leiro, J. M., & Ovcharenko, M. (2023). Disentangling the determinants of symbiotic species richness in native and invasive gammarids (Crustacea, Amphipoda) of the Baltic region. *International Journal for Parasitology*, 53(5), 305-316. <https://doi.org/https://doi.org/10.1016/j.ijpara.2023.02.006>
- Schädel, M., Nagler, C., & Hyžný, M. (2023). Fossil relatives of extant parasitic crustaceans from the Mesozoic of Europe. *Boletín de la Sociedad Geológica Mexicana*, 75(2), A220323 <https://doi.org/10.18268/BSGM2023v75n2a220323>
- Shih, H. T., Naruse, T., & Schubart, C. D. (2023). Molecular evidence and differences in gonopod morphology lead to the recognition of a new species of the freshwater crab genus *Candidiopotamon* Bott, 1967 (Crustacea, Brachyura, Potamidae) from eastern Taiwan. *Zookeys*, 1179, 169-196. <https://doi.org/10.3897/zookeys.1179.105030>



doi.org/10.3897/zookeys.1179.106718

Vigo, M., Navarro, J., Rotllant, G., Bahamon, N., Carretón, M., Quevedo, J., Rojas, A., & Company, J. B. (2023). Before–after control–impact (BACI) assessment of the effects of a deep-water no-take fishery reserve to recover Norway lobster (*Nephrops norvegicus*) overfished populations and coexisting megafauna. *ICES Journal of Marine Science*, 80(7), 2008-2023. <https://doi.org/10.1093/icesjms/fsad130>

Wittmann, K.J., 2023. Evidence and Modification of Non-Visual Eyestalk Organs in Trogllobiont Mysida and Stygiomysida (Crustacea). *Arthropoda*, 2023, 1 (4): 432-450 + suppl. <https://doi.org/10.3390/arthropoda1040019>

Wittmann, K. J. (2023). The genus *Parapseudomma* from the East Atlantic deep sea, with description of a new species (Mysida: Mysidae). *Nauplius*, 31. <https://doi.org/10.1590/2358-2936e2023013>

Zagami, G., Bonanzinga, V., and Pansera, M. 2023. Pseudodiaptomidae G.O. Sars., 1902. *ICES Identification Leaflets for Plankton*, No. 201. 19 pp. <https://doi.org/10.17895/ices.pub.23963307>

On a different note...

Bouchet, P., Decock, W., Lonneville, B., Vanhoorne, B., & Vandepitte, L. (2023). Marine biodiversity discovery: the metrics of new species descriptions [Original Research]. *Frontiers in Marine Science*, 10. <https://doi.org/10.3389/fmars.2023.929989>

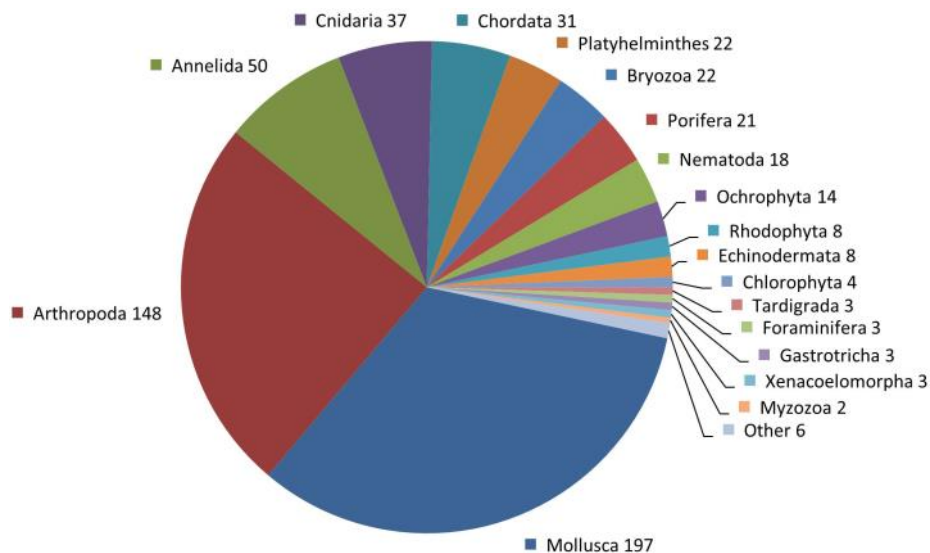


Figure 2: Number of species per phylum from among the 600 new species dataset. ‘Other’ contains single species for the following phyla: Nemertea, Phoronida, Entoprocta, Acanthocephala, Gnathostomulida, and Microsporidia

Löbl, I.; Klausnitzer, B.; Hartmann, M.; Krell, F.-T. (2023). The Silent Extinction of Species and Taxonomists—An Appeal to Science Policymakers and Legislators. *Diversity* 15(10): 1053. <https://dx.doi.org/10.3390/d15101053>



Join/Renew The Crustacean Society!

Membership ID # _____

Name (First, Last) _____

Affiliation _____

Mailing address for Society communications (Please condense to no more than 3 lines, 40 characters per line, maximum)

Phone: (include area code) _____ FAX: (include area code) _____

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Type of membership and annual dues for 2023

Membership year is January 1 – December 31

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Phone: 703-790-1745; Fax: 703-790-2672
TCS@burkinc.com

For questions regarding membership contact awride-graney@burkinc.com

Federal Tax ID: 52-1173036

Or register online at <http://thecrustaceansociety.org/>
[here.](#)