

#### Inside.....

President's Report	_1
Treasurer's Report	6
Journal of Crustacean Biology	
Progress Report	9
TCS Early Career award	_10
<b>Opportunities &amp; Announceme</b>	nts
	_10
Obituary	_12
Upcoming meetings	_13
Hot off the press & Online	
resources	_15
TCS Join/Renew form	_21

## Message from the President...

#### Dear TCS-colleagues,

The year 2021 is coming to an end, and I sincerely hope that you and your loved ones are healthy. As expected, COVID-19 is still strongly influencing our lives, and while in some countries the authorities are lifting restrictions and are trying to prepare for a new version of "life-as-usual", in other regions, however, they are struggling with new infec-



tion waves. The pandemic did not come with a manual, so everybody is trying to find the most adequate way to deal with the situation, and the situation is complicated.

What is new about TCS? One important news is that the TCS Executive Board decided to seek a person to help us handle the social media aspects of the society and its *Journal of Crustacean Biology*. We recognize the necessity to improve the digital presence of TCS, starting with a recently updated and re-designed webpage (http://www.thecrustaceansociety.org/), and now we are looking for a person to coordinate the field of social media. Our idea is to work, for example, with an advanced graduate student or early-career professional with interest and experience in science communication and social media. We can offer a modest and more symbolic honorarium of US\$ 1,000 per year, a free membership to TCS, and we will include the name of the selected person for the position (Social Media Coordinator) in JCB, Ecdysiast, and the TCS website. The deadline is 15 December 2021, so there is still time to talk to potential candidates and to submit their application. Additional information on the responsibilities of the Social Media Coordinator can be found on page 10 under the heading "Opportunities & Announcements".

Since January 2021, our *Journal of Crustacean Biology* is online only. It has been a relatively smooth transition and it is great to see that there is a constant and increasing flow of manuscripts submitted to the journal. As mentioned by Pedro Castro in his progress report as editor-in-chief (see page 9), 2021 appears to become a record year in terms of the number of articles published, which is excellent news. I would like to take the opportunity to highlight the excellent work of Pedro, who is doing a superb job as Editor, as always supported by his international team of Associate Editors. TCS can be happy to have such a dedicated editor for JCB, and I am sure that the high standards as well as the enormous efforts of Pedro and his team can be credited for the high international reputation of the journal and the constant increase of the impact factor (up to 1.43 for 2020) we have seen during the last years. Great job!

Soon you will receive the invitation to participate in the election of new TCS officers. The open positions are President Elect, Latin America Governor, Asia Governor, and Program Officer. Your participation in this process is of utmost importance, and I am cordially inviting you to use your right to vote. Just take a few minutes and fill



out the form for the election of the candidates for the different positions. Each vote is important.

Finally, I am delighted to inform you that Martin Thiel from the Universidad Católica del Norte, Chile, has agreed to accept The Crustacean Society Excellence Research Award (TCSERA). The purpose of the Award is to honor a researcher for his/her significant contributions to crustacean biology. We received a strong nomination, which was sent to the TCSERA Awards Committee. Evaluation criteria for the award include, but are not restricted to productivity, quality, creativity, generation of concepts, and overall influence on a field of study. All members of the committee agreed that Martin more than fulfilled the criteria, and I, knowing Martin for many years, have no doubt at all that he is a well-deserved winner of this award. Congratulations, Martin! I would like to remind you to renew your TCS membership for 2022. We need your support and collaboration as a TCS member, and if you have any questions, please do not hesitate to contact our Business Office (Email: tcs@burkinc.com).

Next year, our dear friend and colleague Benny Chan will assume the TCS-presidency, so this is my last message as President. I appreciate the support I received during these two years as President, and my special thanks goes to all of the members of the TCS Executive Board, to Pedro Castro as Editor-in-Chief, the regional governors, Jill and Brett from Burk & Associates, as well as Kelly Merrin and Kareen Schnabel as editors of our newsletter *Ecdysiast*. It has been an honor and privilege to serve TCS as President.

I wish you all the very best for the coming year 2022, especially good health. With appreciation,

Ingo Wehrtmann. President, The Crustacean Society





## Thank you to our benefactors

Consider becoming a TCS Patron Member where you support the membership of at least one other member/student. Thank you!

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Crustacean Society Patron	W Q
Members	M L
	14
Shane Ahyong	NI Las
Raymond Bauer	1₩ 
David K. Camp	14 
M Peter Castro	`₩ 
Neil Cumberlidge	11
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Sarah Gerken	W
Alejandro Maeda-Martinez	W
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Gary Poore	1
D. Christopher Rogers	M
Bernard Sainte-Marie	1
Carrie Schweitzer	Ŵ
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Roger Thoma	Ĩ
Brian Tsukimura	° M
Christopher Tudge	N M
Jose Luis Villalobos Hiriart	 ₩
Les Watling	os W
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## The Crustacean Society Board Members, 2021

President Ingo Wehrtmann Universidad de Costa Rica, Costa Rica email: <u>ingo.wehrtmann@ucr.ac.cr</u>

#### **President-elect**

Benny Chan Academia Sinica, Taiwan email: <u>chankk@gate.sinica.edu.tw</u>

#### **Past-President**

Shirley Lim Nanyang Technical University, Singapore email: <u>shirley.lim@nie.edu.sg</u>

#### Treasurer

Jason Williams Hofstra University, New York, USA email: jason.d.williams@hofstra.edu

#### Secretary

Sarah Gerken University of Alaska, Anchorage, USA email: <u>gerken.uaa@gmail.com</u>

#### **Program Officer**

D. Christopher Rogers University of Kansas, Kansas, USA email: <u>branchiopod@gmail.com</u>

#### **Executive SICB Liaison Officer** John Zardus The Citadel, South Carolina, USA email: john.zardus@citadel.edu

Africa Governor Savel Daniels Stellenbosch University, South Africa email: <u>srd@sun.ac.za</u>

#### Asia Governor

Darren Yeo National University of Singapore, Singapore email: <u>darrenyeo@nus.edu.sg</u>

Europe Governor Carola Becker Humboldt-Universität zu Berlin, Germany email: <u>carolabecker.germany@gmail.com</u>

Indo-Pacific Governor Rachael Peart NIWA, New Zealand email: Rachael.Peart@niwa.co.nz

Latin America Governor Laura López-Greco Universidad de Buenos Aires, Argentina email: Laura\_lopez\_greco@hotmail.com

#### North America Governor Heather Bracken-Grissom Florida International University

email: heather.bracken@gmail.com

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, <u>kareen.schnabel@niwa.co.nz</u>



## The Crustacean Society Liaison Officers, 2021

The Chinese Crustacean Society Liaison Officer: Jianhai Xiang CAS Institute of Oceanology, China email: <u>jhxiang@qdio.ac.cn</u>

International Association of Astacology Liaison Officer: Tadashi Kawai Wakkanai Fisheries Research Institute, Hokkaido, Japan email: <u>tadashikawai8@gmail.com</u>

> The Brazilian Crustacean Society Liaison Officer: Fernando Mantelatto University of São Paulo, Brazil email: <u>flmantel@usp.br</u>

The Carcinological Society of Japan Liaison Officer: Akira Asakura Seto Marine Biological Laboratory, Kyoto University, Japan email: <u>asakura.akira.6w@kyoto-u.ac.jp</u>

The World Association of Copepodologists Liaison Officer: Rony J. Huys Natural History Museum, London, UK email: <u>r.huys@nhm.ac.uk</u>

International Research Group on Ostracoda Liaison Officer: Renate Matzke-Karasz University Munich, Germany email: <u>r.matzke@lrz.uni-muenchen.de</u> Latin American Carcinologist Association Liaison Officer: Michel Hendrickx Unidad Academica Mazatlan, Mazatlan, Mexico email: <u>michel@ola.icmyl.unam.mx</u>

Colloquium Crustacea Decapoda Mediterranea Group

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

> 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: <u>branchiopod@gmail.com</u>

Amphipod Group Liaison Officer: Wim Vader Tromsø Museum, Norway

email: wim.vader@uit.no

German Carcinologist Group Liaison Officer: Sebastian Klaus Goethe Universität, Frankfurt am Main, Germany email: <u>klaus@bio.uni-frankfurt.de</u>

## Follow The Crustacean Society on social media



@TheCrustaceanSociety



@CrustaceanSoci2



## **Treasurer's Report for November 2021**

As of October 2021, TCS had 278 renewed members for 2021 (212 regular members, 19 patron members, and 47 student members). President Ingo Wehrtmann, TCS Regional Governors and TCS Officers personally contacted members with reminders to renew but total membership is still lower than prior years (down by approximately 70 members from this time in 2020). Please do your part and encourage your colleagues and especially students to join!

The Executive Committee of TCS (President Ingo Wehrtmann, President-Elect Benny Chan, Treasurer Jason Williams, Secretary Sarah Gerken, and Program Officer Christopher Rogers) and BAI recently reviewed the actuals up until September 2021 and the proposed budget for 2022 (see attached). The Executive Committee approved the funding of a Social Media Coordinator for TCS through a \$1000/year honorarium that will start in 2022. Due to the fact that the proposed budget is based on conservative estimates of membership and includes some new charges (e.g., Social Media Coordinator honorarium), we are presently projecting a budget that will have the society essentially break even in 2022.

For 2021, BAI is covering expenses for three types of insurance for TCS (General Liability Insurance; Director and Officer Insurance; Error and omission) that is in place for other societies, including TCS sister society (Society of Integrative and Comparative Biology). Moving forward, these expenses will be paid by TCS so the Executive Committee will need to decide if we want to keep all or some of them by August 2022. The Executive Committee will be assessing our needs in consultation with BAI, insurance agents, and Oxford University Press. In brief, the insurance coverage is important for both personal physical injury at our meetings and for liability insurance (for our officers, volunteers, and employees) against alleged harassment, mismanagement and other issues. Thankfully, TCS investments continue to do well, with our Schwab accounts totaling approximately US\$757K and our MainStreet Bank checking account at US\$30K.

Respectfully submitted, Jason Williams



## The Crustacean Society - Proposed Budget

Year January 1, 2022 through December 31, 2023

L				Proposed Budget	
					Proposed budget based on
REVENUE				2022	Membership numbers as of
	Membership	Dues (4090)			9/20/21
		Member Online		21,200	212
		Patron Online ( dize at least one	Online Journal and subsi- e (student) member)	3,705	19
		Student Online	Member	1,645	47
	Total Membe	ership Dues		\$26,550	278
	JCB				
		OUP Profit Shar	ing	33,651	_
		Page Charges			
		Color Plates			
		Single Issue Sale	es		
	Total JCB			\$33,651	
	Contributions	s:			
		General		4,500	
		Restricted			
			Denton Belk Memorial Fund		
			StudentScholarship		
		Total Postrictod	contributions	0	
	Total contribu	utions	contributions	\$4,500	
	Mooting Boy			\$4,500	
	weeting Keve	Pogistration M	lombor		
		Registration N	on Mombor		
		Registration St	tudent		
		Registration St	tudent Kudent Non Mombor		
		Registration - Si			
		Banquet			
		Sponsorship	tration Chancership		
			stration - sponsorship		
		Exhibitors	Field Trip/Tours		
		Special Events -			
		Registration Car	icellation ree		
	Total Monting	niterest		ć0	
		g Revenue		>∪ ¢c4 701	
	UE			<b>304,701</b>	
EXDENSES					
Mootings:					
weetings.	Summer Mee	ting Support			
	Summer Mee	ting Support			
	Summer wee	Abstract & Prog	rame		
		Exhibits/Poster	s/Signs		
		Exhibits/10sters	5/ 516115		
		Meeting Manag	rement		
		Other Meeting	Evnenses	1	
		Supplies	Lypenses		
		Travel - Other o	fficers including SICB Li	+	
		naver- Other O	The should be the	0	
		ason		_	
		ason Travel - Preside	nt	0	



CHANGE IN I	NET ASSETS		\$346.14	
TOTAL EXPE	NSE		\$64,354.86	
	Total Administrative		\$37,004.86	
		Insurance		1) Director and Officer Insurance; 2) Error and omission insurance: 3)
		Miscellaneous/ TCSERA Award Plaque	150	
		Other Officer Travel	0	
		Social Media Coordinator	1,000	
		Website	1,000	estimated yearly expenses (hosting
		Telephone	0	
		Tax Prenaration	0	
		Survey Monkey	U	
		Donce Supplies (0550)	0	1
		Office Supplies (6550)	0	
		Iviempersnip	0.00	
		Ivianagement Fee - BAI	33,000	
		Legal Fees (6280)	0	
		Intuit fees	0	
		Dues to Other Organization	125	
		Cash Transfer to PayPal Fee	0	
		Credit card charges	0	
		Bank Service Charges/Investment Fee (6210)	1,729.86	
	Administrative	· · · · · · · · · · · · · · · · · · ·		, , ,
Awards & Scholarships			15,400	\$5000 Stitler Registration (10*500); \$4000 for early career travel fund (2*2000); \$400 Best Oral and Poster Presentation Awards (2*100 for SICB and 2*100 for mid-year meetings)
			,50,50U	\$6000 Scholarships (6*1000).
		Total ICB Printing & Distribution	5,950 \$6 950	
		Member Subscriptions	6 950	
		Color Plate Charges		
		JCB Printing & Distribution:		
		Total Editor's Office	\$2,800	l
		Travel	0.	
		Support to JCB Editors Member- ship	1,800	to pay for TCS memberships of 18 JCB Associate Editors
		Support to JCB Editors Meeting	1,000	for meal during summer or winter meeting for JCB editors
		Phone/Internet		
		Office Supplies		
		Postage		
		Editor's Office		
	-	Editor's Stipend		
	JCB:		+_,	
Total Meetin	g Expense		\$2.200	1
	Total SICB Expenses	Sieb Symposium	\$2 200	
	SICB General Expenses		1,600	1
			1 600	
	SICB			
			1	





## JOURNAL OF CRUSTACEN BIOLOGY - PROGRESS REPORT

*Journal of Crustacean Biology* is moving ahead to what appears to be a record year in terms of the number of articles published. The subjects of articles so far (1 January 2021 to 29 October 2021) included in Vol. 41, plus submissions accepted for publication but still at a proof stage:

Phylogeny and taxonomy – 19 Ecology – 17 Research notes – 11 Reproductive biology – 7 Functional morphology – 6 Genetics and genomics – 5 Behavior – 4 Physiology – 4 Aquaculture – 3 Review articles – 2 Paleobiology – 1 Historical memorial – 1 **TOTAL – 80** 

There are in addition 21 submissions approved for revision but still awaiting authors' revised manuscripts, and 18 submissions still under peer-review.

Peter (Pedro) Castro Editor-in-Chief

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

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# Crustacean Biology





OXFORD

The latest issue of the year 2021 will be published as Volume 41, Issue 4 in December 2021 (<u>https://</u> <u>academic.oup.com/jcb/issue/41/4</u>). Take a look at the interesting range of carcinological research on display.



## **TCS Early Career award for summer 2021**

This year we had the lowest number of applications for the early career award; only one. I am pleased to say that one is a particularly good applicant! TCS is very pleased to award the Early Career Travel award to *Dr. Pedro Peres*. This award is a \$1500 travel grant, and it will allow Dr, Peres to attend the January 2022 SICB meeting in Phoenix, AZ.

Dr. Peres earned his PhD under Fernando Mantelatto in Brasil, and is now working on a postdoctoral project with Heather Bracken-Grissom in the US. He will be presenting the results of one of his dissertation chapters at SICB, entitled: "Genomics analyses suggest incipient speciation in a widespread Tropical Atlantic swimming crab". We are very pleased that Dr. Peres will be representing TCS at this meeting.

I really want to emphasise to our membership that the various TCS awards and grants are for your students: we want to support the great research coming from our membership. Please encourage your students and post docs to apply.



- TCS Program Officer, D. Christopher Rogers

## **Opportunities & Announcements**

## The Crustacean Society (TCS) Seeks Social Media Coordinator

TCS seeks a social media coordinator to promote the society and the Journal of Crustacean Biology (JCB). The coordinator would be responsible for maintaining the Facebook and Twitter accounts (and other social media platforms as needed). The position could be filled by an advanced graduate student or early career professional with interests in science communication and social media. The social media coordinator would work with and answer to the TCS Executive Board, the JCB Editor, and the Ecdysiast Editor, to promote crustacean research and educational endeavors of the society and its members.

Roles/Responsibilities (~1 hour/week)

• Create social media posts for TCS Twitter and Facebook pages (as well as other platforms, including Crust-I, the crustacean listserv) for news items provided by the TCS Executive Board, and the editors of JCB and the Ecdysiast

- Engage (like, retweet and respond) with TCS memberships on social platforms
- Work with the TCS Executive Board to release society news (e.g., TCS meetings, membership drives, TCS elections) as needed
- Work with the editor of the JCB to promote the journal; such as creating tweets with links to interesting new articles in JCB

Work with the Ecdysiast Editor to include relevant content through the TCS society newsletter **Compensation** US \$1,000/year honorarium

- Membership to TCS
- Name and position (Social Media Coordinator) in JCB, Ecdysiast, and the TCS website

# Interested TCS members, please submit a brief cover letter that explains your interest in the position, a CV, and links to relevant social media accounts to TCS President Ingo Wehrtmann (<u>ingo.wehrtmann@ucr.ac.cr</u>) by the 15<sup>th</sup> of December, 2021.

Although the TCS Social Media Coordinator may be asked to join TCS Board and Membership Meetings on occasion, the position is not an Executive Board membership position and does not include any voting rights beyond those of a regular TCS member.



## 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 <u>here</u>.

## 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 <u>here</u>.

## TCS Student Travel Awards

TCS awards a maximum of five (5) US\$500 awards 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 <u>here</u>

For additional information contact the TCS Program Officer: Dr. D. Christopher Roger <u>branchiopod@gmail.com</u>, +1 (785) 864–1714

## Ontogenia de Crustáceos

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 seven days. The researchers that 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 March 2 to 8 2022. For more information contact <u>taluppi@mdp.edu.ar</u> or visit the following web site https://sites.google.com/view/ontogeniadecrustaceos



## Obituary

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

#### Jim Lowry In Memoriam

2 October 1942 – 4 November 2021

Our friend and colleague Jim Lowry passed away in Lecce, Italy on November 4<sup>th</sup>. He was born James Kenneth Lowry in Virginia, USA on October 2<sup>nd</sup> 1942. As a postgraduate, he initially studied English, but later switched to Biology, a switch that all amphipodologists will be grateful for. After qualifying at University in Virginia, he spent several years at Palmer Station in Antarctica, where, in addition to his biological studies, he had the distinction of having a mountain named after him – the 1,020 metres high Mt. Lowry in the Patuxent Range. He then worked for a while in New Zealand, before taking up his post at the Australian Museum in Sydney, where he was a senior research scientist for more than 40 years. He was one of the most successful research scientists at the Australian Museum in obtaining funding for his research. A series of young scientists were trained by him and have gone on to careers in carcinology in various parts of the world from England to New Zealand, as well of course as in Australia. Jim always had time to help young amphipodologists and pass on his knowledge.

He spent almost all his working life on the study of amphipods, publishing his first paper (on *Micropro-topus*) in 1970. During his career he published more than 150 papers on amphipods, especially on the Lysianassidira and more recently the Talitroidea. His most recent contributions are still in press and further papers will appear posthumously in the coming years as a result of continuing research in which he was involved with his colleagues. He did much more to describe the amphipod fauna of Australia than anyone had before him, including the instigation of, and obtaining funding for, a major study of the Amphipoda of the Great Barrier Reef that resulted in a 930 page monograph published by Zootaxa.

He will be missed by his many colleagues, all of whom have benefitted from his advice and friendship and by his loving wife Lucia (pictured below), son Rafael and adult son Ken.





— Alan Myers, November 10, 2021



## **Upcoming meetings**



SICB 2022 (3–7 January 2022): annual meeting, Phoenix, AZ, USA

This year SICB has introduced SICB+, a virtual option alongside the in-person meeting.



#### CONGRESSO BRASILEIRO SOBRE CRUSTÁCEOS (CBC) THE CRUSTACEAN SOCIETY (TCS) - SUMMER MEETING

Theme: Tradition and innovation: Integrative approaches to crustacean studies

For further information, visit the website <u>https://cbc-tcs.com/</u>. This will be a 100% online event.



Meeting Date: Sunday, June 19, 2022 to Friday, June 24, 2022, Location: Zaragoza, Spain

Organisers: Samuel Zamora, Fernando A. Ferratges, Álvaro García-Penás

#### Follow these links for contact **Email** and **Website**.

The meeting will cover all aspects of fossil decapod crustaceans including information from modern representatives. We would like to attract researchers from all over the world interested in fossil decapods and related forms. We are planning to organize the field excursion in the Pyrenees and Iberian Cordillera, expending one day in the lower Eocene of Huesca, one day in Lower Cretaceous around Teruel and a third day visiting the famous locality of Koskobilo quarry (Navarra). We are looking forward to seeing you in Zaragoza!

Articles resulting from the meeting will be published in JCB.



## 23<sup>rd</sup>Symposium of the International Association of Astacology



## June 20 - 26, 2022

Early registration Regular registration Late registration till March 31, 2022 till April 30, 2022 till May 31, 2022

Abstract of submission

till April 15, 2022

Hluboká nad Vltavou Czech Republic

For further information, visit the event website https://iaa23.com/cs/.



3–7 January 2023: SICB annual meeting, Austin, TX, USA



In May 2023 the ICC10, the <u>10th International Crustacean Congress</u>, will bring together carcinologists at the <u>National Museum of New Zealand Te Papa Tongarewa</u> in Wellington. The hosts invite you to New Zealand in this <u>video</u>. <u>Express your interest now</u>.



Register now at www.icc10.org

Absolutely Positively Wellington WellingtonNZ.com





## Hot off the press & Online resources

## Crabs — a Global Natural History

by Peter Davie (with the help of the wonderful pictures of many colleagues). It is currently available to purchase from a variety of online retailers at a very reasonable price.

"This lavishly illustrated hard-cover book offers a remarkable look at the world's crabs. More than 7,000 crab species, in 100 different families, are known today. Their unique physiology and complex behaviors have made them one of the most diverse and adaptable of all animal groups. They can thrive in the darkness of abyssal seas, on the edges of scalding hot volcanic hydrothermal vents, on sunlit coral reefs, on wave-washed rocky shores, and in tropical rain forests at the tops of mountains. They even persist in some of the harshest desert conditions. Playing a vital role in marine and coastal ecology, crabs have been identified as keystone species in habitats such as coral reefs and coastal tropical swamps.

*Crabs* comprises five chapters: evolutionary pathways; anatomy and physiology; ecology; reproduction, cognition, and behavior; and exploitation and conservation. Individual chapters include a variety of subtopics, each illustrated by exceptional images, and followed by numerous double full-page species' profiles. Each profile has been chosen to emphasize remarkable and intriguing aspects of the life of these fascinating creatures. Some species may be familiar, but many are beyond anything you have probably seen before and will stretch your understanding of what a crab is."

Written by a world authority, *Crabs* offers an accessible overview of these fascinating crustaceans.

- More than 190 spectacular color photographs
- Full profiles on 42 iconic species from across the world

ISBN: 9780691201719 Number Of Pages: 224 Publisher: Princeton University Press



#### Advances in Crustacean Research 22



Recent Advances in Freshwater Crustacean Biodiversity and Conservation

Tadashi Kawai D. Christopher Rogers CRC Press

## Recent Advances in Freshwater Crustacean Biodiversity and Conservation

Edited By Tadashi Kawai & D. Christopher Rogers

focuses on minor crustacean groups and regionally endemic groups, all from freshwaters. Chapters in this book cover crustaceans such as Maxillopods, Mysids, Cumaceans, Isopods, Amphipods, Branchiopods, Copepods, and Decapods. Each looks at global or regional fauna and discusses conservation issues for that group. The majority of the chapters are based on papers presented at symposia organized by the editors at two international scientific meetings held in Barcelona and Washington DC. The contributors are worldrenowned experts on their groups, as well as on freshwater crustacean conservation and biodiversity at global levels.

https://www.routledge.com/Recent-Advances-in-Freshwater-Crustacean-Biodiversity-and-Conservation/Kawai-Rogers/p/book/9780367443504

ISBN: 9780367443504 Number Of Pages: 518 Publisher: CRC Press



#### Lophogastrida and Mysida of western Mexico Michel E. Hendrickx and José Carlos Hernández-Payán

Since 2008 an intensive study of western Mexico Lophogastrida and Mysida was undertaken, mostly based on offshore, deep-water sampling during the TALUD (= slope) project aboard the R/V "El Puma" of the Universidad Nacional Autónoma de México". As a result, eight contributions were published so far and additional material is currently revised and/or included in new manuscripts. In addition to reviewing material collected during the 1982-85 CORTES cruises in the Gulf of California and still available, additional sampling is being planed in shallow water ecosystems along Mexico west coast. This new project will keep on focusing on western Mexico fauna and include collaboration with local colleagues.

This project, however, is aimed at extending to other areas in the eastern Pacific, particularly south of Mexico. In this context, collaboration with colleagues from the Pacific coast of Central and South America is desired and most welcome.



Also, donation of specimens, particularly from the west coast of the USA and Canada, is also most welcome. PDFs of the contributions cited below are available upon request. If of interest please contact me at: <u>michel@ola.icmyl.unam.mx</u> Thank you. Muchas gracias.



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

CRUST-L@VIMS.EDU is the email listserver 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.

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#### Portal for Pacific biodiversity

A resource designed to provide anyone in the Pacific – or anywhere in the world - access to Pacific biodiversity data, will was launched in October 2021.

The Global Biodiversity Information Facility (GBIF) hosts the Pacific Biodiversity Information Facility (PBIF).

PBIF offers advanced data search, browse, map visualisation and an image gallery. Search results are scoped to include a relevant defined subset data mobilised by a thematic network, or published by organisations within a country.

PBIF is available in ten Pacific languages and will present all of the biodiversity data available from the following Pacific island countries and territories: American Samoa, Cook Islands, East Timor, Federated States of Micronesia, Fiji, French Polynesia, Guam, Hawaii, Kiribati, Marshall Islands, Nauru, New Caledonia, Niue, Northern Marianas, Palau, Papua New Guinea, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, and Wallis & Futuna.

#### What is PBIF?

The Pacific Biodiversity Information Facility presents all of the biodiversity data currently available on the Global Biodiversity Information Facility (GBIF) from Pacific Island Countries and territories.

#### Visit: <u>https://pbif.sprep.org/</u>

#### What is GBIF?

GBIF—the Global Biodiversity Information Facility—is an international network and data infrastructure funded by the world's governments and aimed at providing anyone, anywhere, open access to data about all types of life on Earth. Visit: https://www.gbif.org/what-is-gbif



#### BETA LAUNCH OF FATHOMNET Global database for underwater image training data

Explore the beta release of FathomNet, an open, expertly curated underwater image training set that will allow us to better understand the ocean and its inhabitants. Funded by the National Science Foundation, NOAA, National Geographic, MBARI and the Packard Foundation, FathomNet is seeded with images from MBARI, National Geographic Society and NO-AA Ocean Exploration (you can also contribute your own data), and contains annotation and localisation data that can be used to train machine learning algorithms to automatically detect and classify underwater objects. Congratulations to the founders Kakani Katija (MBARI), Katy Croff Bell (Ocean Discovery League) and Ben Woodward (CVision AI).

Check it out >> http://fathomnet.org/



### www.DEEPOCEANEDUCATION.org **NAUTILUS LIVE** OCEAN EXPLORATION TRUST SCHMIDT OCEAN INSTITUTE 0 CEAN | @ DHUTALOUT | @ 200 The DEEP OCEAN **EDUCATION PROJECT** website - launched in 2021 -Start Ye is a one-stop shop for ocean exploration resources, combining materials from NOAA Ocean **Exploration, Ocean Exploration Trust** and Schmidt Ocean Institute. The Deep Ocean Education Project is created in cooperation with the National Marine Sanctuary Foundation under federal award NA190AR0110405. **KEY WEBSITE FEATURES** -**Student Activities Build and Save Your Collection Ocean Exploration Themes** Standards-aligned science activities Save and sort content by customizing easily shareable resource collections. Student activities, multimedia that support three-dimensional teaching and learning approaches. galleries and background information on ocean-related phenomena. 0 Multimedia Ship Tracker **Events and Opportunities** Lists of upcoming events and opportunities, from live interactions with Find where we are currently exploring and heading next... see who is live-streaming from the deep! Access stunning deep-sea images and videos from expeditions. current expeditions to conferences. www.DEEPOCEANEDUCATION.org



## **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

- Chak, S.T.C.; Harris, S.E.; Hultgren, K.M.; Jeffery, N.W.; Rubenstein, D.R. (2021). Eusociality in snapping shrimps is associated with larger genomes and an accumulation of transposable elements. *Proceedings of the National Academy of Sciences* 118(24): e2025051118. DOI: 10.1073/pnas.2025051118. Read <u>here</u>.
- Chan, B.K.K.; Wong, Y.H.; Robinson, N.J.; Lin, J.-C.; Yu, S.-P.; Dreyer, N.; Cheng, I.-J.; Høeg, J.T. & Zardus, J.D. (2021). 500 million years to mobility: Directed locomotion and its ecological function in a turtle barnacle. *Proceedings of the Royal Society of* London Series B 288: 20211620, DOI: 10.1098/rspb.2021.1620, Read paper here and the second series between the second sec

London Series B 288: 20211620. DOI: 10.1098/rspb.2021.1620. Read paper here and follow these links for some interesting media coverage:

https://www.science.org/content/article/it-moves-supposedly-immobile-barnacles-can-surf-across-turtle-shells https://www.the-scientist.com/news-opinion/some-barnacles-can-move-around-to-improve-feeding-position-69285 https://www.sciencenews.org/article/barnacles-sea-turtle-shell-movement-cement

- Cruz, R.; Torres, M.T.; Santana, J.V.M. & Cintra, I.H.A. (2021) Lobster Distribution and Biodiversity on the Continental Shelf of Brazil: A Review. *Diversity* 13, 507. DOI: 10.3390/d13110507. Read <u>here</u>.
- García-Vázquez, L.; Pedraza-Lara, C.; Rodríguez-Almaraz, G. (2021). Six new epigean species of *Caecidotea* (Isopoda: Asellidae) distributed along the Trans-Mexican Volcanic Belt in Central Mexico. *Zootaxa* 4965(1): 45–77. DOI: 10.11646/zootaxa.4965.1.2.
- Jażdżewska, A.M.; Brandt, A.; Martínez Arbizu, P.; Vink, A. (2021). Exploring the diversity of the deep sea—four new species of the amphipod genus Oedicerina described using morphological and molecular methods. Zoological Journal of the Linnean Society. <a href="http://dx.doi.org/10.1093/zoolinnean/zlab032">http://dx.doi.org/10.1093/zoolinnean/zlab032</a>. Read <a href="http://dx.doi.org/10.1093/zoolinnean/zlab032">http://dx.doi.org/10.1093/zoolinnean/zlab032</a>. Read
- Luque, J.; Xing, L.; Briggs, D. E. G.; Clark, E. G.; Duque, A., Hui, J.; et al. (2021) Crab in amber reveals an early colonization of nonmarine environments during the Cretaceous. *Science Advances, 7*, eabj5689. DOI: 10.1126/sciadv.abj5689. Read <u>here</u>.

This has also generated some interest in the media: https://edition.cnn.com/2021/10/20/asia/amber-crab-fossil-scn/ index.html https://gizmodo.com/tiny-crab-trapped-in-amber-is-a-100-million -year-old-st-1847900826

- Satterthwaite, E.V.; Bax, N.J.; Miloslavich, P.; Ratnarajah, L.; Canonico, G.; Dunn, D.; et al. (2021). Establishing the Foundation for the Global Observing System for Marine Life. *Frontiers in Marine Science* 8(1508). DOI: 10.3389/ fmars.2021.737416. Read <u>here</u>.
- Schnabel, K.E.; Kou, Q.; Xu, P. (2021). Integrative Taxonomy of New Zealand Stenopodidea (Crustacea: Decapoda) with New Species and Records for the Region. *Diversity* 13(8): 343. DOI: 10.3390/d13080343. Read <u>here</u>.
- Schnabel, K.E.; Kou, Q.; Xu, P. (2021). Validation of Three Species of Spongicolid Shrimp of New Zealand: *Spongicolides clarki* Schnabel, Kou & Xu, *S. sonne* Schnabel, Kou & Xu and *Spongiocaris antipodes* Schnabel, Kou & Xu (Crustacea: Decapoda: Stenopodidea). *Taxonomy* 1(3): 266-269. DOI: 10.3390/taxonomy1030020. Read <u>here</u>.

A reminder to all colleagues to ensure that taxonomic descriptions in electronic-only journals are always accompanied with a <u>ZooBank</u> registration in order to fulfil the requirements of the Code of Zoological No-menclature!







Image: The amber fossil containing the well-preserved Cretaceous crab. Image: Xiao Jia (Longyin Amber Museum)



- Sigvardt, Z. M. S.; Olesen, J.; Rogers, D. C.; Timms, B.; Mlambo, M.; Rabet, N. & Palero, F. (2021). Multilocus phylogenetics of smooth clam shrimps (Branchiopoda, Laevicaudata). *Zoologica Scripta* 50, 795–811. DOI: 10.1111/zsc.12505. Read <u>here</u>.
- Varela, C. & Bracken-Grissom, H. (2021) A Mysterious World Revealed: Larval-Adult Matching of Deep-Sea Shrimps from the Gulf of Mexico. *Diversity* 13, 457. DOI: 10.3390/d13100457. Read here.

And enjoy some more images in the media: <u>These Tiny 'Monsters' of The Deep Sea Are Not</u> <u>What Scientists First Thought</u> (Science Alert) <u>Mysterious Tiny Deep Sea Creatures from the</u> <u>Deepest Parts of the Sea</u> (Nature World News)

Image: Examples of crab developmental stages collected in the study. (Danté Fenolio/ DEEPEND/RESTORE)



 Vereshchaka, A.; Kulagin, D.; Lunina, A. (2021). A New Shrimp Genus (Crustacea: Decapoda) from the Deep Atlantic and an Unusual Cleaning Mechanism of Pelagic Decapods. Diversity 13(11): 536. <a href="http://dx.doi.org/https://doi.org/10.3390/d13110536">http://dx.doi.org/https://doi.org/10.3390/d13110536</a>>. Read <a href="http://https://dvicesty13(11)">http://dvicesty13(11)</a>: 536. <a href="http://dvicesty13(11)">http://dvicesty13(11)</a>: 536. </a>

On a different note...

Moving conferences online: lessons learned from an international virtual meeting. Stefanoudis et al. (2021) describe their experience of organising a medium-sized (<400 participants) international meeting held online in August 2020, and outline the logistics involved in administering such an event. In addition, they present the participants' perspective, drawn from a post-meeting questionnaire and finally, compare demographic data from this meeting with past, in-person meetings of similar-themed symposia. Read (c) here.

Stefanoudis, P.V.; Biancani, L.M.; Cambronero-Solano, S.; Clark, M.R.; Copley, J.T.; Easton, E. et al. (2021). Moving conferences online: lessons learned from an international virtual meeting. *Proceedings of the Royal Society B: Biological Sciences 288(1961)*: 20211769. DOI: 10.1098/ rspb.2021.1769.





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