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Copies of the Bulletin are archived at the Natural History Museum London.

Further information at <http://www.bryozoa.net/iba/index.html>



## NEW MEMBERS

**Sofía Ruiz de Velasco** - I am currently a PhD student at the University of Seville (Spain), who is very lucky to be exploring the diversity and ecology of non-indigenous bryozoans in marinas of the Mediterranean and adjacent areas with the help of the bryozoan taxonomist Dr. Carlos María López-Fe de la Cuadra. I also count with the help of my supervisors, Dr. José Manuel Guerra García and Dr. Macarena Ros, who showed me the amazing world of marine invertebrate taxonomy and marine bioinvasions. Bryozoans are fascinating creatures, they amaze me everyday! Considering that I am taking my first steps in the bryo-world (I have only finished my first year of my PhD), I am very excited about all the things that I have yet to learn about them. Being part of the IBA, along with such wonderful people, is an honour!



**Zhi-Liang Zhang**, a professor working at the Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Nanjing, China, and a Visiting Professor at the School of Natural Sciences, Macquarie University, Australia. He is dedicated to promoting understanding of the origin and evolution of lophotrochozoan animals (including bryozoans, brachiopods and hyoliths etc.) from the significant geological times (Cambrian Explosion and Great Ordovician Biodiversification Event) using advanced geological and biological techniques. He undertakes his PhD in Paleontology and Stratigraphy at Northwest University and Uppsala University from 2015-2018 under the supervision of Profs. Zhifei Zhang and Lars Holmer. Subsequently, he was awarded the Macquarie University Research Fellowship (MQRF) to pursue his independent research, commenced in 2019 at Macquarie University under the sponsor of Prof. Glenn Brock. After he finished his postdoctoral research, he obtained a permanent position at Chinese Academy of Sciences since 2022. He is currently a Voting Member of the International Subcommission on Cambrian Stratigraphy (ISCS).



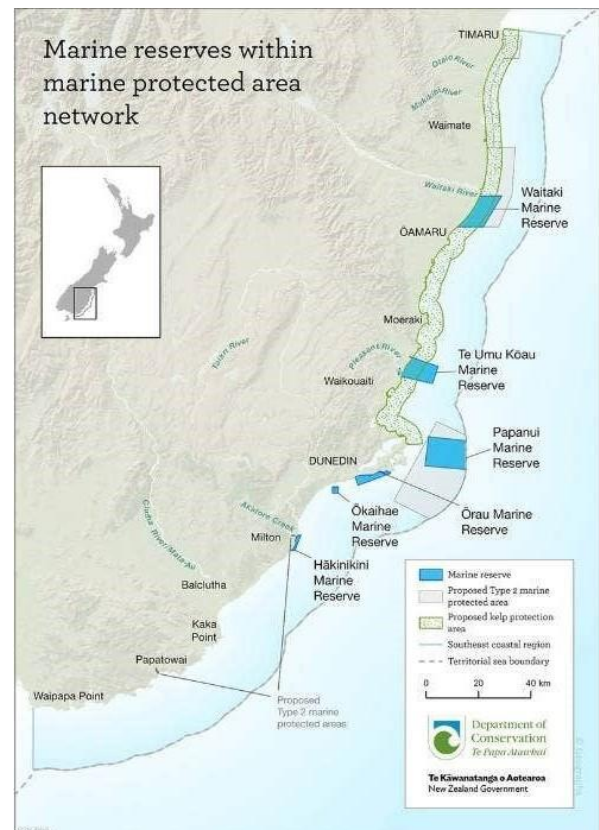
His work has made some contributions to uncovering biomineralized architecture composition, establishing developmental patterns, deciphering the early evolution and diversification of dominant invertebrates (e.g. brachiopods, bryozoans, hyoliths, trilobites and enigmatic shelly fossils) and resolving global stratigraphic correlation during the Cambrian evolutionary radiation. To date, he has published more than 30 scientific papers, including a leading author paper in *Nature* on the early evolution of the Bryozoa. He also endeavors to attract competitive research funding from high profile international programs, and has leveraged this funding to foster strong and effective collaborations with global researchers from Australia, Sweden, China, UK, US, Canada, Italy, Estonia, Japan and Iran. He is keen to cooperate with anyone who is interested in the biomineralization, ontogeny and early evolution of lophotrochozoan animals.

[http://english.nigpas.cas.cn/People/fy/rp/index\\_21031.html?json=http://sourcedb.nigpas.cas.cn/cn/pep/yjy/202209/t20220909\\_6511122.json](http://english.nigpas.cas.cn/People/fy/rp/index_21031.html?json=http://sourcedb.nigpas.cas.cn/cn/pep/yjy/202209/t20220909_6511122.json)

[https://www.researchgate.net/profile/Zhiliang\\_Zhang5](https://www.researchgate.net/profile/Zhiliang_Zhang5)

## NEWS FROM THE MEMBERSHIP

**Abby Smith** – EPIC NEWS announced in October of the six new Marine Reserves that we FINALLY have in Otago waters. Some of us have been fighting for this for literally decades, and it is wonderful to see them finally arrive. We didn't always get everything we wanted, but some protection is always better than no protection. Just look at that 168 km<sup>2</sup> reserve out on the Otago shelf -- now the bryozoans can really thrive!



**Paul Taylor** finally received his Ellis Medal after being abroad for several months during the summer.



Leandro Vieira, who was visiting the NHM during September, presented it. (sent in by Mary Spencer Jones)

**Tatiana Mikhaevitch** - With the aim of scientific divulgation, since 2009 I write on my website [www.plumatella.it](http://www.plumatella.it) in Italian and Russian, on topics of ecology in general, glacier ecology, ecology of the mind, biology, environmental protection, pollution from PFAS/pesticides/hydrocarbons/radionuclides, nuclear deposits, polluted sites to be reclaimed, Chernobyl, Seveso, Parks, Reserves, Ramsar Wetlands, invasive species, biodiversity etc.

These are just some articles published recently, in Italian and Russian:

<https://www.plumatella.it/wp/2023/11/07/il-parco-regionale-del-delta-del-fiume-po/>

<https://www.plumatella.it/wp/2023/06/16/160-anni-dalla-nascita-dellaccademico-vernadsky-fondatore-della-teoria-di-biosfera-e-di-noosfera/>

(160 years since the birth of Academician VERNADSKY, founder of the BIOSPHERE and NOOSPHERE Theory)

<https://www.plumatella.it/wp/2023/05/10/s-i-n-polo-petrochimico-di-priolo-parti-1-8/>

(S.I.N., Site of National Interest, The Petrochemical Complex Priolo, Italy.)

<https://www.plumatella.it/wp/2022/04/16/s-i-r-sito-di-interesse-regionale-di-venezia-porto-marghera/>

(S.I.R., Site of Regional Interest, of Venice – Porto Marghera, Italy)

<https://www.plumatella.it/wp/2021/12/21/affare-petrolio-punta-delliceberg-basilicata-parte-1-5/>

(“Deal” of the OIL. Tip of the iceberg. Basilicata, Italy. PARTS 1-5)

Recently, at the end of June 2023, I published the book "Diary of an Ecologist" in Italian (the Russian version was published in 2018): <https://www.plumatella.it/wp/2023/08/11/libro-diario-di-una-ecologa/>

The book is a summary of some articles published on the website [www.plumatella.it](http://www.plumatella.it)

This essay summarizes a period of more than 80 years. In Belarus, in Minsk, between the Seventies and Nineties I worked as a junior scientific researcher in the Ecology Laboratory alongside illustrious environmentalists with whom I participated in numerous expeditions, from the Far North to Antarctica, and maintained relationships with accredited scientists of all the world. In 1990 I obtained a Ph.D. in Hydrobiology at the Institute of Zoology of the National Academy of Sciences of the Republic of Belarus. After the Chernobyl catastrophe, catapulted to Italy, I thought a lot about two systems, socialism and capitalism. The book “Diary of an Ecologist” is a difficult route that I had to make to tell about my wonderful colleagues in ecology and Ecology.



Tatiana Mikhaevitch  
**Diario di una ecologa**

**Casa editrice:** AltroMondo Editore  
**Collana:** Mondo di fuori  
**Genere:** saggio, autobiografia  
**Formato:** Brossura 14,8 x 21 cm  
**N° pagine:** 416  
**Prezzo:** 24€  
**ISBN:** 978-88-3330-421-2  
**1° Edizione:** giugno 2023

*Diario di una Ecologa* riassume un periodo di più di 80 anni. In Belarus, a Minsk, tra gli anni Settanta e Novanta la giovane autrice lavora come ricercatrice nel Laboratorio di Ecologia a fianco di illustri ambientalisti con i quali partecipa a numerose spedizioni, dal Nord Estremo fino all' Antartide. Dopo la catastrofe di Chernobyl, catapultata in Italia, riflette molto su due sistemi, socialismo e capitalismo, scoprendo anche il destino del padre. Riesce a continuare a essere una Ecologa, creando e aggiornando il suo sito web. Il saggio è un riassunto di alcuni articoli pubblicati sul sito [www.plumatella.it](http://www.plumatella.it).

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ALTROMONDO  
editore

For those interested, it is possible to order the book on amazon, altromondoeditore, la Feltrinelli or heopli

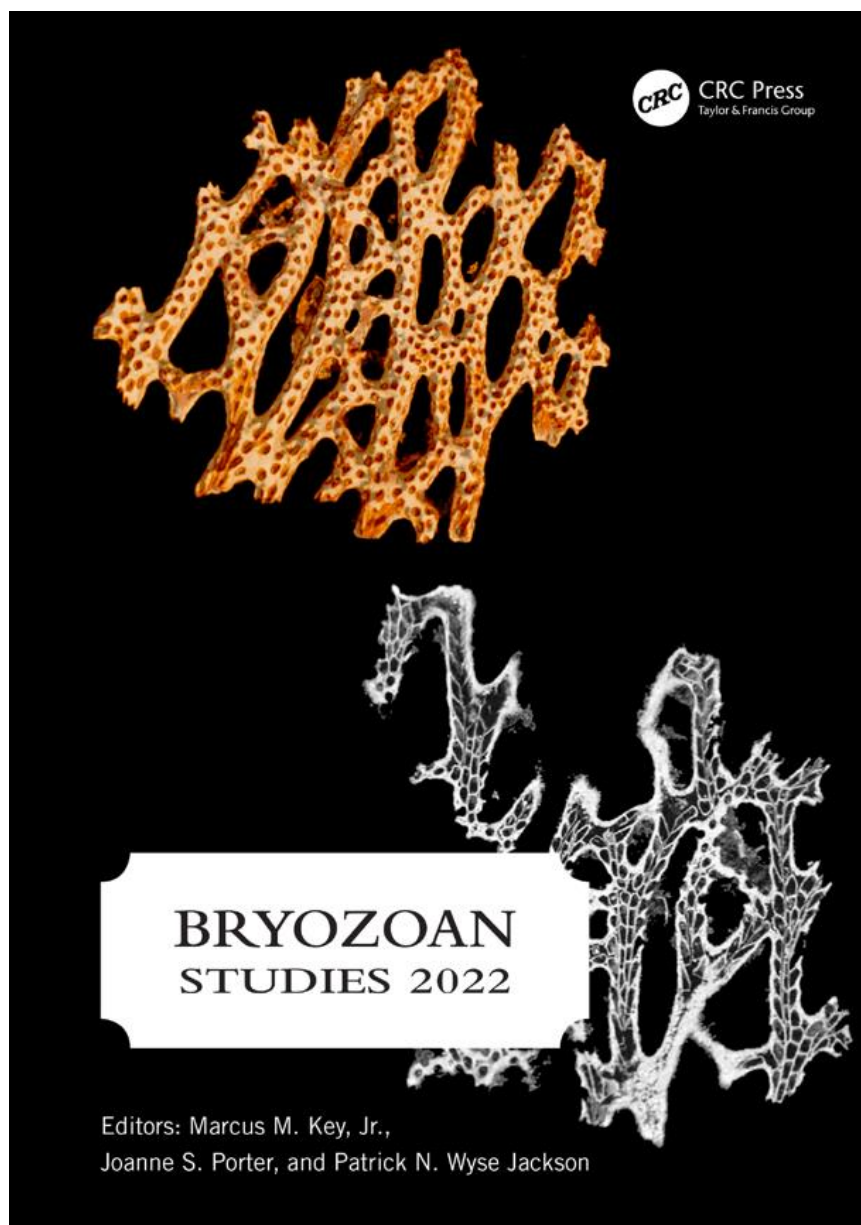


### LARWOOD MEETING 2023, VIENNA, AUSTRIA

*Thomas Schwaha*



This year our small, European-based Larwood meeting took place again in Vienna. Contrary to previous meetings the timing was set in December, which also led to the term 'WinterLarwood' for this year's symposium. Twenty-five participants came to Vienna to meet, drink, and discuss bryozoans. After a first evening meeting, we had 14 presentations on bryozoology on the Campus of the previous grounds of the general hospital, which nowadays houses several institutions of the University of Vienna. The contributions of the participants ranged from Ordovician bryozoans, phylogenetic studies on gymnolaemates, growth rates and vectors of marine bryozoans, Arctic diversity and long-term studies, Mediterranean population genetics and mineralogy of cheilostomes. After a short glimpse on freshwater bryozoans and an Lars Silén type material, Hans Arne Nakrem closed the day with a nice presentation on his work in Svalbard on bryozoans and other animals. On the last day we visited the 'Lunatic tower' on the Campus grounds, which nowadays is a pathological museum, and the 'Josephinum', a former Medical Academy, now an impressive museum of Medical History. I'm really grateful to everyone for coming to Vienna, contributing to this great meeting and look forward to next year's meeting in Italy.



*Bryozoan Studies 2022* has just been published by CRC Press (Taylor & Francis Group).

The volume contains nineteen papers presented at the 19<sup>th</sup> IBA conference held in Dublin.

Copies will be mailed to the delegates who attended the Dublin meeting as part of their registration fee.

**IBA publication offer:** The IBA has approximately an additional 40 copies which it can make available to members at the same price as for the delegates: €70 including post and packaging [This is a significant saving on the publisher's price which is £115; €132]. Please consider purchasing either a copy for your personal use, or persuade your institution library to buy a copy, or if you were a delegate, perhaps you require additional copies.

Contact Patrick Wyse Jackson ([wysjcknp@tcd.ie](mailto:wysjcknp@tcd.ie)) if you would like to reserve a copy while IBA stocks last. He will then provide an invoice and details of how payment can be made.

All proceeds from the sale of these additional copies will be put towards the IBA studentship fund so your support is most welcome. Also Patrick would prefer not to have unsold copies sitting in his office!

## Contents

- Dedication to Roger Cuffey
- Foreword
- List of participants
- Applications for X-ray Tomography/Microscopy of Palaeozoic palaeostome bryozoans – Caroline J. Buttler, Ria L. Mitchell, Mark A. Wilson & Richard E. Johnston
- Species richness and diversity patterns of bryozoans of the Arctic region: Spatial variation of bryozoan diversity – Nina V. Denisenko
- Food for thought: investigating the impacts of feeding regime on the growth and survival of a locally invasive cheilostome bryozoan, *Watersipora subatra* – Tyler M. Feary & Abigail M. Smith
- Pennsylvanian bryozoans from the Ixtaltepec Formation, Oaxaca, Mexico – Sergio González Mora, Patrick N. Wyse Jackson, Sara A. Quiroz Barroso & Francisco Sour Tovar
- Bryozoan dispersal using pumice rafting generated by the submarine eruption in the Ogasawara, Japan – Masato Hirose & Sota Kaneko
- Fouling of the slipper lobster, *Scyllarides latus*, by cyclostome and ctenostome bryozoans in the Mediterranean Sea off Malta – Marcus M. Key, Jr. & Sebastian H. Decker
- Three-dimensional imaging of fossil cheilostome bryozoans in Eocene chert by Synchrotron Radiation Micro-Computed Tomography – Marcus M. Key, Jr., Jeremy Shaw & Ingrid Ward
- Revision of Japanese *Watersipora* based on microscopic morphology and molecular data – Chihiro Kubo & Masato Hirose
- A genome-skimmed phylogeny of California cheilostome bryozoans – Hannah E. Lee, Russell J.S. Orr, Linda D. McCann & Sean F. Craig
- Early proliferation of avicularia in the Cretaceous cheilostome bryozoan *Wilbertopora*: a diversification event guided by ecological exploration – Sarah Leventhal, Kayli Stowe & Carl Simpson
- A review of the species belonging in *Stenopora* Lonsdale, 1844 – Catherine M. Reid
- Colony repair strategies in large trepostome bryozoans from the Upper Ordovician (Katian) of the Cincinnati region, USA – Kate M. Runciman, Mark A. Wilson, Caroline J. Buttler & Shelley A. Judge
- Distribution patterns of shelf bryozoans around southern Aotearoa New Zealand – Abigail M. Smith, Katerina Achilleos & Dennis P. Gordon
- A review of contact dependent interactions among bryozoans – Sheena E. Stephens-Norton & Sean F. Craig
- Enigmatic structures in palaeozoic fenestrate bryozoans: the case of *Fenestella sculptilis* – Juan Luis Suárez Andrés, Patrick N. Wyse Jackson & Consuelo Sendino
- Bryozoans from the Turonian Carlile Shale of the Western Interior Seaway in Kansas, USA – Paul D. Taylor & Roger J. Cuffey
- Shallow coral reef bryozoans of Caracol Bay, Haiti – Judith E. Winston & Jeremy B.C. Jackson
- Skeletonisation in the stenolaemate bryozoan orders Cryptostomata (Suborder Rhabdomesina) and Trepostomata: the role of the Bryozoan Skeletal Index (BSI) as a taxonomic character – Patrick N. Wyse Jackson, Marcus M. Key, Jr. & Catherine M. Reid
- *Volgia* (Bryozoa, Cystoporata): a rare occurrence from the Mississippian of Ireland – Patrick N. Wyse Jackson, Andrej Ernst, Malgorzata Shaikh-Horajska & John Murray

## ON THREE LETTERS FROM ELIZA JELLY TO LOUIS CALVET

*Jean-Loup d'Hondt*

In 1984, I visited in a Pyrenean small and picturesque village, Rodome, the two daughters of the famous French bryozoologist Louis Calvet (1868-1930), Miss Marthe Calvet and Mrs. Lydie Rouvet, both subsequently deceased, in their familial residence. At this occasion, they offered to me some of the remaining books from the library of their father. One of these books contained between the pages three letters of his colleague, the British female bryozoologist, Eliza Catherine Jelly (1829-1914). Only one is dated (1890), the postal stamp of another-- by chance preserved - is 1908. I am ignorant of the answers of Calvet, but it is sure that he has never studied this undetermined material she purposed. In addition, at the beginning of the 20<sup>th</sup> century (year unknown), Miss Jelly offered an important collection (but determined) of Bryozoa from New-Zealand and Australia to another French zoologist, a rich malacologist amateur living with his financial revenues, and working in the National Museum of Natural History of Paris, Adrien Dollfus (1858-1921). In 1969, one year after the creation of the Bryozoa Service in the Museum, his grandson, the parasitologist Robert-Philippe Dollfus (1887-1976), confides this material, previously private, to Jean-Loup d'Hondt to be integrated in the French national collection.

The substance of these three letters follows:

- 1) The 2 June 1890: Eliza Jelly indicates (in English) to Calvet that she will promptly (*sic*) send to him, for his personal collection, a lot of non-identified recent Bryozoa from New Zealand, the presence of new species in this material being not to be excluded, in prevision of future exchanges (that she hope), and integrating in this other sending fossil specimens collected on some shells. She finishes with the hope that Calvet would accept also to identify some Bryozoa dredged in Australia, and that would be followed by a study in collaboration of other Australian material. N. B. At this date, Calvet had not again published any paper on the Bryozoa ; why his future bryozoological project was yet known in Great-Britain by Jelly ? ..... A letter sent to: Hatchlands, Red Hill, Surrey.
- 2) As the previous letter, the second, without date and is redacted in English, commences by "Dear Sir" and indicates again the envoie of the material, hoping it will found a good place in the collection of Calvet. The material concerns essentially recent Bryozoa, Jelly hoping that Calvet would accept also the fossil specimens. She hopes that the Australian material would in sufficient good state to be studied.
- 3) The last letter, in (a quasi-perfect) French, also without date, is intitled "Cher Monsieur". Jelly hopes the reception of the samples by Calvet and asks a document confirming it good arrival. She purpose also to him an another envoie. She accepts willingly the exchanges with Mediterranean Bryozoa and shells purposed by Calvet in a previous letter, indicate that she " travaille (!) seulement avec l'aide d'une lampe à alcool pour les assécher". She terminates her letter with the "expression de ma parfaite considération". And, with a typical British humour, she concludes in her considerations on the problems for cleaning her specimens: "Les anglais nécessite (*sic*) aussi un lavage"

In final, Calvet has never published any papers on the Bryozoa arising from Australia and from New Zealand. Jelly died in 1914; and at the beginning of the first World War, Calvet becomes appointed as professor of zoology at the university of Clermont-Ferrand, in the center of France, and obliged to develop new activities in this historical context. After the end of the war and to his tragic death, he had many health problems, and perhaps we can also explain why the Oceanian material of Jelly was not studied. Now, we can consider as definitively lost or destructed the specimen sent by Jelly to Calvet.



## IN MEMORIAM

### VENERA GILMOUR

Venera Gilmour passed away at home in Cheney on October 30, 2023. Below are some photo memories sent in by Hans Arne Nakrem.



At the Chile IBA conference in 2004



At the Larwood conference in Vienna, 2017

## RECENT PUBLICATIONS

The following list includes bryozoan related works either published since the previous issue of the *IBA Bulletin* as sent in to the editor. As always, members are encouraged to support future compilations by continuing to send complete citations to the IBA secretary at any time. Accuracy of your citation is assured if sent in bibliographic format, if re-drafting is required by the editor accuracy is not guaranteed! Reprints will be gratefully received by the IBA archivist, Mary Spencer Jones.

Denisenko N.V. 2023. Correction of the homonymy of the bryozoan genus *Cinclidia* Denisenko, 2018 (Gymnolaemata: Cheilostomatida: Cribrilinidae). *Zootaxa* 5336(1):148-148 DOI:10.11646/zootaxa.5336.1.9

Denisenko N.V. 2023. Species richness and diversity patterns of bryozoans of the Arctic region: Spatial variation of bryozoan diversity. In: Key M. M., Porter J. S., Wyse Jackson P. N. (Eds). *Bryozoan Studies 2022. PROCEEDINGS OF THE NINETEENTH INTERNATIONAL BRYOZOOLOGY ASSOCIATION CONFERENCE (DUBLIN, IRELAND, 22-26 AUGUST 2022)*. Taylor & Francis Group, CRC Press, p. 11-19 DOI: 10.1201/9781003454915-2

D'Hondt, J-L. Dictionnaire des néonto-bryozoologues français des origines à nos jours (Dictionary of the French neonto-bryozoologists from the origins up to now). *Bulletin de la Société Linnéenne de Lyon*, 2023, 92 (9-10) : 281-295.

Ernst, A. & Tolokonnikova, Z. (2023): Unusual cystoporate? bryozoan from the Upper Ordovician of Siljan District, Dalarna, central Sweden. – *GFF*, 144(3–4): 210–219

Hayward, B. W, T F. Stolberger, N Collins, A G. Beu and W Blom 2023. A diverse Late Pliocene fossil fauna and its paleoenvironment at Māngere, Auckland, New Zealand. *NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS*. <https://doi.org/10.1080/00288306.2023.2243234>

Leventhal, S., Jamison-Todd, S. & Simpson, C. Aggregate Trait Evolvability and Macroevolution in Two Sister Species of the Bryozoan *Stylopoma*. *Evol Biol* (2022). <https://doi.org/10.1007/s11692-022-09588-8>

Rust, S. 2023 A Late Cretaceous shell fragment with Early Miocene Bryozoa from the Waititi Formation, Hokianga, reveals a complex history and paleoecology. *Geocene - Auckland Geoclub magazine* number 34, p 21-23

