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Eckart Håkansson, President

Timothy S. Wood, Secretary

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Comments regarding this Bulletin should be addressed to the IBA Secretary:

tim.wood@wright.edu

Further information at www.bryozoa.net/iba

News from the Membership

Judith Fuchs. I'm currently not doing research, but involved in the development of an EU-infrastructure project: European Marine Biological Resource Center. However, with John Bishop and his group just around the corner at the MBA, bryozoans & entoprocts are not very far...

Hans Arne Nakrem. It might not be that interesting, but perhaps to a few...
I have scanned and made a PDF of ("hard to get"):

Morozova, I.P. 2001. Mshanki otryada Fenestellida (morfologiya, sistema, filogeniya, istoricheskoe razvitie) [Bryozoans of the order Fenestellida (morphology, system, historical development)]. Trudy Paleontologicheskogo Instituta Rossijskoi Akademii Nauk 277: 176 pp.

and put it on my page:

<http://folk.uio.no/hanakrem/bryozoans.htm>

both the original in Russian, and a partly translated version (thanks to Ernie Gilmour). Both are scanned to PDF and I have performed an OCR to make them searchable.

Perhaps it would be useful if other IBA people made any translated (Russian) papers available? Perhaps someone could collect such files and make a translated library? I can do that since I have rather good computer / server knowledge. During my PhD study I was able to have other Russian papers (in part) translated, mainly papers dealing with Permian bryozoans, and especially those with an Arctic connection. I am sure Ernie Gilmour has very good translations of Permian stuff.

Abby Smith. Despite becoming Head of Department on 1 Feb, and thinking I would never get to do research again, I have in fact received some funding to look at the quantification of surface area in marine bryozoans, with specific reference to the effect of surface area on dissolution rates. So I should be having some fun after all!

Anna Taylor, Di Clements and Paul Taylor, assisted by **Matt Dick,** have begun populating a new taxonomic Scratchpad (<http://pleistocenekokemushi.myspecies.info/>) that aims to describe and illustrate the prolific bryozoan fauna from the Pleistocene of Kuromatsunai in Japan ('Kokemushi Paradise'). Almost 200 SEM images of the bryozoan species present at this exceptional locality have been uploaded onto the website to date. We welcome comments about identifications, many of which are provisional.

Laboratório de Sistemática e Evolução de Bryozoa- Karin Fehlauer-Ale, Leandro Vieira, Alvaro Migotto, Bruno Aguiar and Karine Nascimento. We are very happy for the wonderful, productive and unforgettable time spent together with **Judith Winston** (October-December) and **Andrea Waeschenbach** (October) at CEBIMar-USP, São Sebastião. We had the opportunity not only of collaborating in fieldwork, laboratory and paper writing, but also to spend quality time enjoying the good things about Brazil. Specific news from our members are as follows:

Judith Winston: On October 4, I joined the bryozoan team at CEBIMar for a two and a half month stay. Since then I've been working on various projects with Leandro, Alvaro, Karin, Karine and Bruno, and Andrea, mostly on ctenostomes, *Bugula*, and sand fauna. Took part in the Marine Meiofauna workshop here in October, showing some skeptical biologists that encrusting bryozoans really can live interstitially. We've also had two great field trips, one to Ilha Grande – diving beautiful, water cold – and one to Maceió with Leandro to see a more tropical part of Brazil – warm water and sunshine. We stayed with Leandro's parents there and collected samples for DNA work. I also gave a talk on the “Importance of Taxonomy for Biodiversity Studies” at the Federal University of Alagoas. Then it was back to São Paulo for Leandro's dissertation defense. Now he's Dr. Vieira. Parabéns—Team Bryozoa!

Andrea Waeschenbach: I was delighted to take a break from sequencing tapeworms to spend a month at CEBIMar-USP with Karin Fehlauer-Ale (who was awarded a grant from FAPESP for my visit) and Leandro Vieira, to write a manuscript on ‘The molecular phylogeny of Vesiculariidae’. In addition to the abovementioned, this project is in collaboration with **Javier Souto-Derungs, Oscar Reverter-Gil** and Karine Nascimento. A key finding of this article is the non-monophyly of the genera *Bowerbankia* and *Amathia*, where *Amathia* and *Zoobotryon* nest within a paraphyletic *Bowerbankia*. My thanks go to the wonderful hosts Karin, Leandro and Alvaro Migotto, and to fellow visitor Judith Winston for making this a hugely enjoyable as well as productive month.

Leandro M. Vieira: It's official! I did my defense December 3 to get the PhD in Zoology in Universidade de São Paulo. The title of my thesis is “*Revisão taxonômica do gênero Scrupocellaria van Beneden (Bryozoa, Candidae)*” [Taxonomic revision of the genus *Scrupocellaria* van Beneden (Bryozoa, Candidae)]. The thesis comprises four chapters, with the first chapter recently published (*Zootaxa*, 3563: 26–42. <http://mapress.com/zootaxa/2012/f/z03563p042f.pdf>). The other chapters comprise (a) the redescription of *Scrupocellaria jolloisii* and the resurrection of an old genus for this species and morphologically related species; (b) the redescription of 6 species of *Scrupocellaria* and description of 18 new species; and (c) the first phylogenetic hypothesis for *Scrupocellaria* species using morphological characters. In the last couple months I have dedicated to work on some projects with Andrea, Karin and Judy, whose results should be submitted in the next six months. I look forward to work on some projects and submit as soon as possible my Postdoc proposal, which will include a phylogeny of *Scrupocellaria* and related genera.

Karin Nascimento: Another year ending and I get the feeling of mission accomplished! 2012 afforded me new opportunities of partnerships and works, and with dedication and a very good orientation from Karin Fehlauer-Ale, I finally have the chance to develop my own master project with bryozoans! In this last trimester I had the pleasure of knowing and working on an article with Andrea Waeschenbach, and also to know Judith Winston (it was a honor to show her how we perform DNA extractions in our laboratory!). I am very happy because, although I will still start my graduate studies on 2013, I already have received several colonies of *Zoobotryon verticillatum*. I thank very much the collaboration of the bryozoologists and everyone who has been engaged in collecting and sending samples to me. I believe that 2012 had been a period of fundamental learning for the future steps of my career, and wish that 2013 will be replete of positive results to all of us!

Karin Fehlauer-Ale: on the November 30th I finished my first post-doc, which was also my first project on bryozoans. I started it on October 2009 and am amazed of how time flies so fast! My post-doc resulted in two published, one recently submitted and some other manuscripts in preparation, specifically regarding bryozoans. During this period of time, I had the opportunity of knowing very competent researchers and also of making good colleagues and wonderful friends around the world. Definitely I will do my best to keep focusing my career on studying the bryozoans, not only because they are very interesting and render beautiful DNA extractions, but also because of the IBA community. I want to thank the IBA members who donated samples for my project, and wish to all of you a great 2013!



Bruno, Andrea, Alvaro, Judy, Karin, Karine and Leandro at CEBIMar-USP on 31/10/2012.

Javier Souto. I have started with my postdoc project at the University of Vienna on the bryozoan faunas from three Iberian seamounts (Fig. 1), and am happily working together with **Björn Berning** and **Andrew Ostrovsky** on these strange beasts. The start off party has been very successful, with everyone enjoying the Spanish food and wine (Fig. 2). A first screen of samples from Galicia Bank have yielded some 20 cheilostome species, but more about this at the IBA conference...!



Fig. 1: The three seamounts under scrutiny: Le Danois, Galicia and Gorringe Bank.

Fig. 2: The jamón ibérico was excellent!

Björn Berning . In order to prevent Javi from becoming short on samples to study, **Björn** went to southern France in mid-March to first meet up with **Michèle Bruni** from the Musée Océanographique de Monaco. Besides visiting the beautiful museum and aquarium, Björn has taken a lot of the NE Atlantic type material of Jullien and Calvet on loan for scanning (and would like to thank Michèle for all her help!). He then went on to visit **Jo Harmelin** at the Station Marine d'Endoume (Marseille) where he got tons of seamount samples from the Seamount 1 + 2 cruises during the 1980s and 90s, and enjoyed the hospitality of Jo and his wife Mireille. Björn also met up with **Helmut Zibrowius** there for the first time. Helmut has, for many decades, taken great pains to sample all sorts of substrates for bryozoans and other critters, and to prevent the “dead stuff” from being thrown over board on these and other cruises...

It has been a fantastic trip and the scientific results will hopefully be as good!

Fig. 3: Jo and Mireille Harmelin.

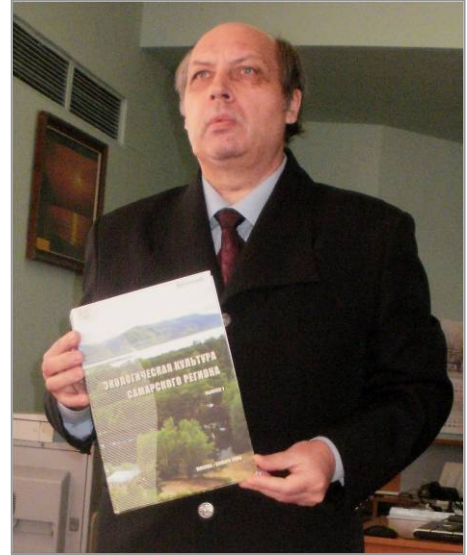
Fig. 4: Björn enjoying his lunch at the Marseille coast (note the wealth of bryozoans in the subsurface background!).



Blanca Figuerola describes her recent diving experiences at the Poor Knights Islands Marine Reserve off the east coast of the North Island of New Zealand in the February issue of *Fondària* (http://www.cibsub.com/rcs_gene/fondaria_84_gener_web.pdf).

Anatoly Vinogradov is a major author of a collective monograph investigating the complex relations between diverse aspects of ecology in the Samara Region of Russia. Supported by the Samara Branch of the Russian Ecological Academy, the work addresses ecological philosophy and culture, social ecology, nature preservation, problems of natural and cultural heritage preservation, urban and agricultural ecology, and ecological education. A formal presentation of this work was made March 15 at the Samara Regional University Science Library.

Dr. Anatoly V. Vinogradov



New Members

Melissa Kay Boonzaaier: Greetings all the way from South Africa! I am an aspiring marine biologist (and now, aspiring bryozoologist!) working as an assistant curator at the Iziko South African Museum (Cape Town, South Africa), and recently started with my PhD under the supervision of Dr Wayne K. Florence. My postgraduate career at the University of Stellenbosch started off with examining thermal tolerances of marine invasive species; I moved on to work on loggerhead sea turtles (*Caretta caretta*) nesting in KwaZulu-Natal (Masters) at the Nelson Mandela Metropolitan University, thereafter I did an internship working on spionid marine worms (polychaetes) found on abalone (*Haliotis midae*) along South Africa. During this time I also got involved in science communication and strongly believe that communicating science (or our research) to the general public should be emphasized. My PhD, which I started about 6 months ago, will investigate the taxonomy of South African Bryozoa especially with a sampling gap on our west coast. More so, with existing literature (that is quite sparse, scattered and/or outdated) and newly collected materials, we will examine the biogeographical and bathymetric distribution patterns of South African bryozoans. I will spend some time at Natural History Museum (NHM-UK) since many of the South African bryozoan specimens collected during earlier expeditions during the late 1800's and early 1900's are housed at NHM. I am very much new to the exciting world of bryozoans, and already I expect some interesting answers to very important questions arising from my research project. (*Editor's note: I inadvertently overlooked Melissa's paragraph when assembling the previous IBA Bulletin. Since that time Melissa has been granted one of the four IBA awards to attend the conference in Catania – see article elsewhere in this issue.*)



Lee Hsiang Liow. I am a researcher at the Centre for Evolutionary Synthesis, University of Oslo, Norway. My colleagues and I in Oslo are starting a project on competitive overgrowth (on mostly fossil bryozoa) in collaboration with Paul Taylor at the NHM. For our pilot project, we are using material from the Wanganui Basin, North Island, N.Z. I am a novice in bryozoan biology but I look forward to learning about these cool critters and knowing many of them by name. Incidentally, my Ph.D advisor was Scott Lidgard, who is the best thesis advisor anyone can have. The only small regret I have as his student is that he never pushed his favorite organisms on me: I ended up writing my thesis on crinoids and ostracodes.





International Bryozoology Association
Meeting - Catania, 10-16th June 2013



Dear friends,

Thank you all very much for deciding to attend the XVI IBA Conference in Catania next June. And, it is not too late to confirm your participation. About 80 people are expected to join the event and to present the results of their own research. Nearly 70 papers and 40 posters will be presented. A day will be devoted to seminars.

The Sicily field-trip will have 17 participants. Please see below for a preliminary program.

So far the Veneto field-trip has only 7 participants. Please, see below for a preliminary program.

Places for both the field-trips and especially the second one are still available. New registrations are thus most welcome. Do feel free to email me if you wish to attend, taking into account that the early bird registration fee will be applied.

I would like to remind you that only the papers submitted during the Conference will be considered for publishing on the Conference volume. As a consequence, I warmly invite you to bring with you the manuscripts and their digital versions (on a flash drive or hard disk) and to deliver them at the desk at the moment of your registration at the Conference.

Please be advised that in June the climate in Sicily is usually warm/hot with only occasional windy/rainy days. Light clothing and hats are thus recommended as well as an appropriate suntan cream. Please, be also informed that on the very last day we could have the opportunity to go bathing whilst visiting the outcrop. In so far as the excursion to the Etna Mountain is concerned, I would recommend you to bring with you either sneakers or trekking shoes as well as a windbreaker (temperature are quite low at 2500 m.a.s.l.!)

To conclude, I invite all of you to have a glance at the IBA Conference website where further information will be periodically available: www.iba2013.net

Etna is continuously erupting in this last months and ...possibly the volcano is preparing a special ejection of bryozoans



Sicily field-trip preliminary program

June 3rd 2013

Mount Etna

June 4th 2013

Ciclopi Islands Marine Protected Area; snorkelling and/or diving for marine bryozoans; examination of collected specimens; Pianometa Pleistocene bryozoan factory.

June 5th 2013

The Megara Pleistocene shelf palaeocommunities; Miocene reefs and shelf algal/bryozoan palaeocommunities; La Trota fish farm along the Anapo River for fresh water bryozoans.

June 6th 2013

The “Villa del Casale” (Roman aristocratic residence); the Realmonte salty mine in the evaporitic succession.

June 7th 2013

The Pietra of Salomone outcrop with Permian reefal palaeocommunities and the Museum of Palazzo Adriano; the Greek site of Selinunte.

June 8th 2013

Punic archaeological site of Motia and Museum of Marsala; Cefalù; Milazzo and its castle.

June 9th 2013

The Gelasian to Pleistocene deep-water faunas of Capo Milazzo and La montagna (Messina).

Conveners will lodge in Catania for the first two days and all around Sicily from the 5th to the 8th to be eventually back in Catania by the evening of the 9th.

Please be advised that, if you wish to reach the main craters during the excursion to the Etna Mountain (over 3300 m.a.s.l.), you will have to bring with you trekking shoes in order to walk safely as well as a windbreaker and a fleece jacket.



A view of the spectacular ash fall on the summit of Etna covered by snow (21.3.2013)

Veneto field-trip preliminary program

June 17th 2013

Transfer from Catania to Verona.

Historical Botanical Garden and University of Padova, including Galileo's original cathedra and the anatomical theatre.

June 18th 2013

Priabonian bryozoan rich fossiliferous outcrops in the Val di Lonte area, including Priabona; Museum of Priabona. Palladio's "Rotonda".

June 19th 2013

Tovel lake for fresh-water bryozoans; dinosaurs' tracks of the Lavini di Marco; Museum of Rovereto hosting a huge quantity of bryozoans, mostly from the Braga's Collection.

June 20th 2013

Eocene fossiliferous locality of Pesciara di Bolca; Palaeontological Museum of the University of Padova for outstanding fossils from Bolca.

June 21st 2013

Ca' Roman Naturalistic Oasis protecting a dune system and its fauna; partial visit of the lagoon (possibly with a small boat, compatibly with the number of participants); Chioggia Marine Laboratory to look at lagoon biota, including bryozoans.

June 22nd 2013

Venice

June 23rd 2013

Dolomite Mounts.

Conveners will lodge in Padova up to the 22nd as all the visited localities are relatively close to the city and in Verona on the 23rd in order for departing people to be closer to the airport.



One of the beautiful Palladio's villas, La Rotonda, near Vicenza.

Recipients of the 2013 IBA Awards

The IBA Awards Committee is pleased to announce the recipients of this year's IBA Awards competition. All the applications were excellent, the Committee sincerely regretted not being able to provide funding to all candidates. Here are profiles of the four award recipients. All will be participating in the Conference in Catânia.

Rakia Ayari has been studying bryozoans off the coast of Tunisia. This area is an intermediate zone between the western and eastern Mediterranean basins. It is especially interesting because the eastern basin is exposed to the introduction of non-indigenous species via the Suez Canal. Rakia has so far added 23 species to the known inventory, including 17 cheilostomes, 5 cyclostomes, and 1 ctenostome.



Melissa Boonzaaier is assembling the first inventory of deep-water bryozoans off the west coast of South Africa using new ship-based and existing un-curated museum collections. Most previous studies have focused on shallow water along the east and south coasts. Melissa's efforts also include correcting the many errors of synonymy and misidentification that have hampered studies in the past. Results could be used to help plan potential off-shore Marine Protected Areas.



Jennifer Loxton has been studying the bryozoan species, *Schizoporella japonica*, which was reported from UK waters for the first time in 2011. The invasive species displaces native bryozoans and has created a fouling nuisance in many areas. Jennifer has investigated the impact of seawater chemistry on the ecology, habitat preference and range of this bryozoan. Results show that *Schizoporella japonica* is able to adapt its bimineralic skeleton in response to changes in seawater. This may have a bearing on its success as an invader.



Malgorzata Nowak has been examining the taxonomy and ecology of bryozoans from King George Island in the Antarctic. The major aim is to obtain data on species diversity and mineral composition, but she also looks at biotic (eg. competitions) and abiotic factors (eg. substratum type, temperature, ice scouring, depth, sedimentation rate) factors. Results are contributing to the growing body of knowledge that helps document anthropogenic changes in the Antarctic.



In Memoriam: Dr. K.S. Rao

By Tim Wood

I was saddened to learn recently that IBA Member Professor Kotapalli Seta Rao died suddenly at his home in Hyderabad, India nearly a year ago, April 13, 2012. Rao had studied freshwater bryozoans in India, and he made significant contributions to freshwater ecology in Madhya Pradesh. Most recently he was retired from Vikram University, where he had spent most of his academic career.



For several years in the 1970's at the University of Colorado Rao was my shadow. He arrived there only two months after I had finished my graduate work. But whereas I had only just discovered bryozoans in graduate school, Rao arrived fully prepared, having already published several bryozoan papers in India, including a new species description. And he came specifically to work with my former PhD advisor, Dr. John Bushnell. Over the next few years my old lab, creaky chair, desk, and microscope became temporarily his. Rao and Bushnell published two pioneering papers on statoblast structure, and they speculated on the role of the statoblast suture in dormancy and germination.

Twenty years later at Vikram University Rao and I met for the first and only time. We not only shared our passion for bryozoans, but also enjoyed reminiscing over our remarkably similar graduate school experiences. Rao was gracious and self-effacing, and he clearly commanded great admiration and respect from his many graduate students and colleagues.

Later Rao became Head of the Zoology Department and was kept busy with administrative duties. He nevertheless remained active in research until retirement.

Here is my personal list of Rao's publications, although it is almost certainly incomplete:

- Rao, K.S. 1961. On a new species of the genus *Plumatella* Lamarck (Bryozoa: Ectoprocta) from Andaman Islands.
- Rao, K. S. 1975. The systematics and some aspects of the ecology of littoral bryozoa on the north-east coast of India. Ph.D. Thesis, Andhra University, Waltair.
- Rao, K. S. 1976. Studies on freshwater Bryozoa. IV. The Bryozoa of Rajasthan, India. *Rec. zool. Surv. India*, 69: 329-345.
- Rao, K.S. 1991. Freshwater Bryozoa. Pages 543-547 *in*: Animal Resources of India, Protozoa to Mammalia. Zoological Survey of India, Calcutta.
- Rao, K.S. 1992. Fresh-water Ecology (Bryozoa). Anmol Publications, New Delhi.
- Rao, K. S., and K. S. Kulshrestha. 1962. Studies on the freshwater Bryozoa. I. The Bryozoa of the Vindhyan region. *Madhya Bharati* 1962: 11-12.

- Rao, K. S., & N. Ghosh. 1962. On the extension of the geographical distribution of *Hislopia lacustris* Sub. Sp. *moniliformis*, Annandale (Ectoprocta: Gymnolaemata) along with a note on its morphological peculiarities. J. Univ. Saugor B 2 (1962): 47-49.
- Rao, K.S. 1973. Studies on freshwater Bryozoa. III. The Bryozoa of the Narmada River System. Pages 529-537 in: Larwood, G. (ed.) Living and fossil Bryozoa-recent advances in research. Academic Press, London(1973): 529-537.
- Rao, K.S., A.P. Diwan, & P. Shrivastava. 1978. Structure and environmental relations of sclerotized structures in fresh water Bryozoa. III. Observations on *Plumatella casmiana* (Ectoprocta: Phylactolaemata). Journal of Animal Morphology and Physiology 25: 8-15.
- Rao, K.S. & J.H. Bushnell. 1979. New structures in binding designs of freshwater Ectoprocta dormant bodies (statoblasts). Acta Zoologica (Stockholm) 60: 123-127.
- Rao, K. S., V. Agrawal, A.P. Diwan, A. P., & P. Shrivastava. 1985. Studies on freshwater bryozoa V. Observations on Central Indian materials. Bryozoa: Ordovician to Recent. Olsen & Olsen, Fredensborg, Denmark, 257-264.
- Rao, K.S., A.P. Diwan, P. Shrivastava, A. Swarup, & N.K. Dhakad. 1987. Studies on water quality monitoring with freshwater Ectoprocta as indicator organisms. Perspectives in Hydrobiology, Vikra, University, Section III(21): 99-117
- Bushnell, J.H., & K.S. Rao. 1974. Dormant or quiescent stages and structures among the Ectoprocta: physical and chemical factors affecting viability and germination of statoblasts. Transactions of the American Microscopical Society 93: 524-543.
- Shrivastava, Pradeep, and Kotapalli S. Rao. 1985. Ecology of *Plumatella emarginata* (Ectoprocta: Phylactolaemata) in the surface waters of Madhya Pradesh with a note on its occurrence in the protected waterworks of Bhopal (India). Environmental Pollution Series A, Ecological and Biological 39.2 (1985): 123-130.
- Chaubey, Usha & K.S. Rao. 1985. A report on the abnormalities in *Hislopia* (Ectoprocta: Gymnolaemata) material from Central India. Journal of Hydrobiology 1(2): 101-104.
- Agrawal, V & K.S. Rao. 1981. Studies on the body wall of some phylactolaematous Ectoprocta 1, *Plumatella casmiana* Oka. Bioresearch 5(1): 41-46.
- Agrawal, V. & K.S. Rao. On a report of the elemental composition of some Indian freshwater Ectoprocta. 6th IBA Conference (Program abstract).
- Shrivastava, P. & K.S. Rao. 1985. Ecology of *Plumatella emarginata* (Ectoprocta: Phylactolaemata) in the surface water of Madhya Pradesh with a note on its occurrence in the protected waterworks of Bhopal (India). Environmental Pollution (Series A) 39: 123-130.

ICZN Asks for Help

Editor's Note: In her role as an ICZN Commissioner, Judy Winston has forwarded the following letter for the Bulletin "with the idea that perhaps the IBA Council (or individual IBAers) might consider supporting the ICZN with a donation. Another 'tragedy of the commons' situation, something everyone uses but no one wants to pay for, and the original trust set up in the 1940s, is almost out of funds."

Dear Taxacomers,

Thank you to those of you who have provided support for the ICZN so far. The financial basis for running the ICZN is indeed in a very precipitous situation. We are working on making this a temporary situation, and to transition to a more sustainable funding model. However, we still need your help to get there.

Solid nomenclature provides a foundation for all taxonomic work and applications. The work of the ICZN provides an infrastructure for our science. In other disciplines infrastructural support is provided either by professional institutions, organisations or individual contributions (such as professional dues). Alternatives for funding the ICZN are being vigorously explored, and by the end of the year we expect to have moved to a more sustainable basis. Our shortfall for the year currently stands at £47,000. Without new funds to fill the gap, we will need to cease the work of the Secretariat by the end of June or July, or decrease output, with uncertain consequences for ICZN functioning, over a marginally longer period of time.

In the meantime, we could really use help from you in a number of different ways:

Direct contributions - consider this a professional contribution So far individuals are giving between £10-150 (US\$ 15 - 225) through PayPal on our website <http://iczn.org/> or with a form available here: <http://iczn.org/content/make-donation>

Advocate support from the professional institutions and organisations that represent you We have asked for, and received, institutional support from a number of natural history museums in the past, as these act not only as repositories for type specimens, but are also the focal points or representatives for taxonomists nationally. Past support from national level institutions has been £15,000 for major institutional subscribers (supporters) and £5000 for mid-level supporters, though other amounts have also been provided. Please contact the director of your representative museum and ask them to be an institutional supporter of the ICZN.

In addition, professional organisations have provided support, including £1300 from a marine research society, £1000 from a national entomological society, £500 from a malacological society, £800 from a publisher. If you can help us make links to additional professional societies that can provide assistance, this will be a very big help. Your advocacy in council meetings and on list servers can make the difference.

In each of these cases we are happy to send a letter of request as well, but it helps immensely to have local advocates for our request.

Ensure that your library subscribes to the Bulletin of Zoological Nomenclature. Every subscription helps with our expenses (<http://iczn.org/content/order-bulletin>). If you run an organisation that can only provide support by purchasing services such as a subscription, then this is the way to help the ICZN. The BZN is the technical organ that allows your Cases to be presented to the community and the Commission in the most strongly supported form, your input on Cases to be published, and the results disseminated - all in a publicly accessible, archived, permanent record.

Long term, bigger picture:

We will be working on new funding mechanisms and an endowment. Consider making legacy donations to the ICZN either directly now, or in your will.

Help us build high-quality nomenclatural content If you are an active zoological taxonomist, you will be able to provide high quality content for ZooBank. Something you can do for your own scientific legacy and to help the ICZN at the same time is to enter your nomenclatural work, and that of the major references in your field, in to ZooBank (<http://zoobank.org/>). This helps ZooBank content grow, and the relaunch provides a more user friendly interface and better underlying architecture.

Finally, the words and actions of support that have been given so far make a very big difference for us.

Thank you

Dr Ellinor Michel, Executive Secretary
International Commission on Zoological Nomenclature Natural History Museum,
London SW7 5BD
+44 (0)207-942-5653
iczn-em@nhm.ac.uk www.iczn.org

The Field Book Project

The [Field Book Project](#) is pleased to announce that detailed catalog records describing thousands of Smithsonian field books are now available online through the Smithsonian's Collection Search Center:

http://collections.si.edu/search/results.htm?q=unit_code%3AFBR&tag.cstype=all

The launch of these scientific records which document the collection of biological specimens represents the first time they have been publicly available. These records describe 6,679 field books comprising 542 collections housed at the Smithsonian Institution.

In addition to the detailed catalog records, researchers now have access to 927 authority files providing biographical and historical details for the persons, organizations, and expeditions involved in the creation of these field books. The database allows researchers to explore the relationships between expedition members, lifelong collaborators, and institutional affiliations. A subset of these records includes digital images of field books for viewing alongside the records.

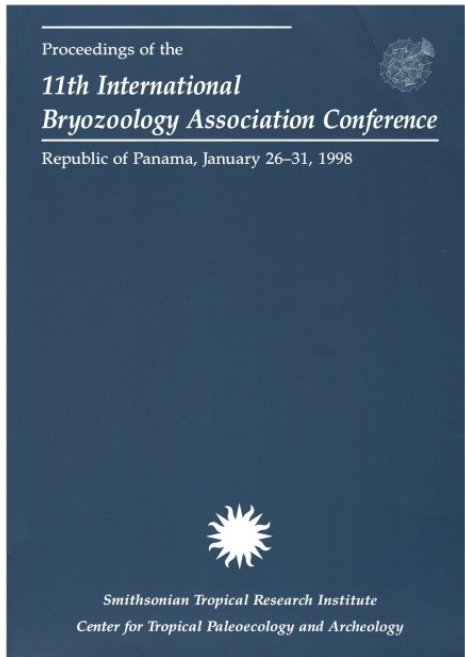
Field books provide rich data for researchers to understand how biodiversity has changed over time and space. They enhance information associated with specimens by providing details regarding dates, localities, and associated event data.

About the Field Book Project

The Field Book Project was initiated in 2010 by the [Department of Botany](#), National Museum of Natural History and the [Smithsonian Institution Archives](#) to create one online location for primary source field books related to scientific research. Starting at the Smithsonian, the Field Book Project is cataloging, conserving, and digitally imaging the materials to make them available to researchers. Future project goals include expanding the Registry to include field books records from other museums and research centers around the world, and developing features to facilitate interaction with other biodiversity collection resources.

The Field Book project is made possible by the Hidden Collections grant administered by the Council on Library and Information Resources (CLIR). The project received additional funds in 2011 from Save America's Treasures to support physical conservation of the field books and the Smithsonian Women's Committee to support conservation and digitization.

Bryozoan Bookstore



The Smithsonian Tropical Research Institute has forty copies of the 11th IBA Proceedings, available for FREE, including postage. Any IBA member who is interested should contact Amalia Herrera-Cubilla at herreraa@si.edu. Requests should be accompanied by your name, institutional affiliation, and mailing address.

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For the IBA Member Who Has Everything



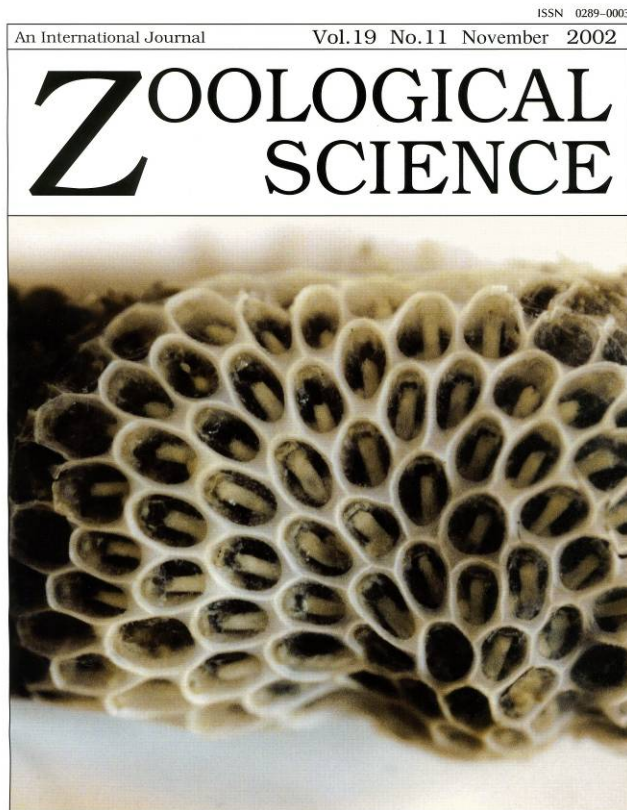
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Journal Cover

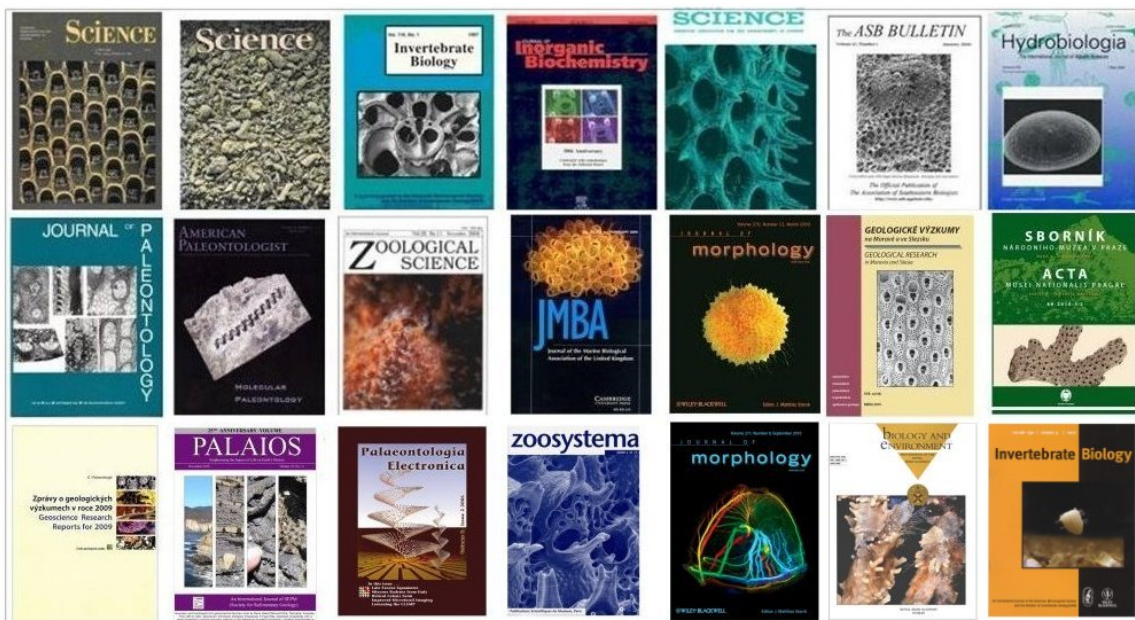


Grischenko, Andrei V., Paul D. Taylor, and Shunsuke F. Mawatari. 2002. A new cheilostome bryozoan with gigantic zooids from the North-West Pacific. *Zoological Science* 19: 1279-1289.

Gontarella gigantea gen. et sp.nov. is described from two stations, one in the Sea of Okhotsk and the second on the Pacific side of the Small Kuril Arc. This membraniporiform anascan cheilostome bryozoan has very large zooids, the largest known among extant sheet-like encrusting anascans. Comparative data on similar sheet-like cheilostomes gathered from the literature shows that the new species represents a conspicuous outlier in size, with the surface area of the zooids being approximately twice that of the next

largest species. Skeletal evidence, including the lack of ovicells, indicates that *G. gigantea* belongs within the malacostegan family Electridae. The gigantic ancestrula suggests that the species has a cyphonautes larva about 1 mm in maximum dimension.

Previous journal covers featuring bryozoans:



Meetings and Conferences

Bryozoology

16th IBA Conference
10-15 June, 2013, Catania, Italy
Host: Antonietta Rosso
<http://www.iba2013.net>

Paleontology

American Geophysical Union
2013 Meeting of the Americas
14-17 May 2013, Cancun, Mexico
<http://www.agu.org/meetings/>

The Palaeontological Association
57th Annual Meeting 2013
(Venue not yet announced)

Tenth North American Paleontological Convention
February 15-18, 2014. Gainesville, FL
<http://www.flmnh.ufl.edu/napc/>

Geological Society of America 125th Anniversary Meeting
27-30 October, Denver, Colorado
<http://www.geosociety.org/meetings/2013/>

Biology

Aquatic Biodiversity International Conference
8-11 October 2013, Sibiu, Romania
http://stiinte.ulbsibiu.ro/aquatic_biodiversity_conference/

Ecological Society of America
4-9 August 2013, Minneapolis, MN
<http://www.esa.org/minneapolis/>

Recent Publications

The following list includes works either published since the previous issue of the *IBA Bulletin* or else missed by previous issues, or sometimes repeated due to inattention by the Editor. As always, members are encouraged to support future compilations by continuing to send complete citations to the IBA secretary at any time. Reprints will be gratefully received by the IBA archivist, Mary Spencer Jones.

- Borszcz, T., Kuklinski, P. & Taylor, P.D. 2013. Patterns of magnesium content in Arctic bryozoan skeletons along a depth gradient. *Polar Biology* 36: 193-200.
- Chamizo, and JoAnn Sanner. 2012. *Scorpiodinipora costulata* (Canu & Bassler, 1929) (Bryozoa, Cheilostomata), a taxonomic and biogeographic dilemma: compl0065 of cryptic species or human-mediated cosmopolitan colonizer? *Zoosystema* 34(1): 123-138. DOI: <http://dx.doi.org/10.5252/z2012n1a5>
- Di Martino, E. & Taylor, P.D. 2013. First bryozoan fauna from a tropical Cretaceous carbonate: Simsima Formation, United Arab Emirates-Oman border region. *Cretaceous. Cretaceous Research* <http://dx.doi.org/10.1016/j.cretres.2013.02.004>
- Di Martino, E. & Taylor, P. D. 2012. Pyrisinellidae, a new family of anascan cheilostome bryozoans. *Zootaxa* 3534: 1-20.
- Di Martino, E. & Taylor, P. D. 2012. Systematics and life history of *Antonietella exigua*, a new genus and species of cribrimorph bryozoan from the Miocene of East Kalimantan (Indonesia). *Bollettino della Società Paleontologica Italiana* 51 (2): 99-108.
- Enke, S., Smith, A.M. 2012. Bryozoans generating sediments: how do they do it? *Geoscience Society of New Zealand conference, Hamilton, 2012. Poster (2012)*
- Ernst, Andrej. 2013. Diversity dynamics and evolutionary patterns of Devonian Bryozoa. *Palaeobio Palaeonev* 93: 45-63. DOI 10.1007/s12549-012-0086-4
- Harmelin, Jean-Georges, Leandro M. Vieira, Andrew N. Ostrovsky, Julia P. Cáceres, Lidgard, Scott, Michelle Carter, Matthew Dick, Dennis Gordon, and Andrew Ostrovsky. 2012. Division of labor and recurrent evolution of polymorphisms in a group of colonial animals. *Evol. Ecol.* 26: 233-257.
- Gontar, Protasov A.A., Silaeva A.A. 2012. Marginal groups of hydrobionts in the techno-ecosystems of thermal and nuclear power plants. *Kyiv, 2012, P. 249--261*[In Russian]
- Grischenko A.V. & Zvyagintsev A.Yu. 2012. On the state of inventory of the bryozoan fauna of Peter the Great Gulf of the Sea of Japan in light of detection of the cheilostome bryozoans *Callopora sarae* and *Microporella trigonellata*. *Russian Journal of Biological Invasions* 2: 42–54. (In Russian with English summary)
- Grischenko, A.V. & Foster, N.R. 2012. Intertidal Bryozoa of Dutch–Harbor, Unalaska, Aleutian Islands. *Bulletin of Perm University (Zoology)*, 3: 23–28. (In Russian with English summary).
- Grischenko, A.V. 2013. First record of a bathyal bryozoan fauna from the Sea of Japan. *Deep-Sea Research II*, 86–87: 172–180.
- Hageman, S.J., Smith, A.M., Key, M.M. Jr. Growth cycles in the temperate bryozoan *Melicerita chathamensis*, southern New Zealand: a new tool for paleoseasonality? *Geological Society of America Annual Conference, November*

- 2012, Charlotte North Carolina USA. Abstract published in: GSA Abstracts with Programs Vol. 44, No. 7 (2012).
- Moosbrugger, Martin, Thomas Schwaha, Manfred Walzl, Matthias Obst, and Andrew Ostrovsky. 2012. The placental analogue and the pattern of sexual reproduction in the cheilostome bryozoan *Bicellariella ciliate* (Gymnolaemata). *Frontiers in Zoology* 9: 29. <http://www.frontiersinzoology.com/content/9/1/29>.
- Novak, V., Santodomingo, N., Rösler, A., Di Martino, E., Braga, J.C., Taylor, P.D., Johnson, K.G. & Renema, W. 2013. Environmental reconstruction of a late Burdigalian (Miocene) patch reef in deltaic deposits (East Kalimantan, Indonesia). *Palaeogeography, Palaeoclimatology, Palaeoecology* 374: 110–122.
- Okamura, Beth, Karen Ayres, Jorge Slagado, Thomas Davidson, Rosalind Shaw, Thomas Stephens, Daniel Hoare, and Carl Sayer. 2013. Shallow lake sediments provide evidence for metapopulation dynamics: a pilot study. *Aquatic Ecology*. DOI 10.1007/s10452-013-9432-5.
- Ostrovsky, Andrew. N. 2013. From incipient to substantial: evolution of placentotrophy in a phylum of aquatic colonial invertebrates. *Evolution*. DOI: 10.1111/evo.12039
- Rossi, R.K., Key, M.M., Jr., Smith, A.M., Hageman, S.J., Patterson, W.P. Reconstructing annual seawater temperature cycles using stable isotope profiles in modern bryozoans from the Snares Platform, New Zealand. Geological Society of America Annual Conference, Geological Society of America Annual Conference, November 2012, Charlotte North Carolina USA. Abstract published in: GSA Abstracts with Programs Vol. 44, No. 7 (2012).
- Smith, A.M. Calcium Carbonate: why is it such a good biomineral? Southern contributions to a second decade of OA research, 6th New Zealand Ocean Acidification workshop, Dunedin, February 2013, talk (2013)
- Smith, A.M., Garden, C.J. 2012. A Giant Antacid? Carbonate Saturation in Interstitial Waters, Geoscience Society of New Zealand conference, Hamilton, 2012. Talk.
- Smith, A.M., Taylor, P.D. & Milne, R. 2012. *Hornera striata* (Milne Edwards, 1838), a British Pliocene cyclostome bryozoan incorrectly recorded from New Zealand, with notes on some non-fenestrate *Hornera* from the Coralline Crag. Pp. 339-365 in Ernst, A., Schäfer, P. & Scholz, J. (eds) *Bryozoan Studies 2010. Lecture Notes in Earth System Sciences* 143. Springer, Berlin.
- Taylor, P.D. 2012. A new bryozoan genus from the Jurassic of Switzerland, with a review of the cribrate colony-form in bryozoans. *Swiss Journal of Palaeontology* 131: 201-210.
- Taylor, P.D., Dick, M.H., Clements, D. & Mawatari, S.F. 2012. A diverse bryozoan fauna from Pleistocene marine gravels at Kuromatsunai, Hokkaido, Japan. Pp. 367-383 in Ernst, A., Schäfer, P. & Scholz, J. (eds) *Bryozoan Studies 2010. Lecture Notes in Earth System Sciences* 143. Springer, Berlin.
- Taylor, P.D. & Donovan, S.K. 2012. A bryozoan from the Upper Pliocene Hopegate Formation of north central Jamaica. *Caribbean Journal of Earth Science* 44: 5-8.
- Taylor, P.D., Wilson, M.A. & Bromley, R.G. 2013. *Finichnus*, a new name for the ichnogenus *Leptichnus* Taylor, Wilson and Bromley, 1999, preoccupied by *Leptichnus* Simroth, 1896 (Mollusca, Gastropoda). *Palaeontology* 56: 456.
- Taylor, P.D. & Calzada, S. 2013. A new early cheilostome bryozoan from the Aptian (Lower Cretaceous) of Valancia, Spain. *Batalleria* 18: 28-31.

- Wilson, M.A. & Taylor, P.D. 2012. Palaeoecology, preservation and taxonomy of encrusting ctenostome bryozoans inhabiting ammonite body chambers in the Late Cretaceous Pierre Shale of Wyoming and South Dakota, USA. Pp. 419-433 in Ernst, A., Schäfer, P. & Scholz, J. (eds) *Bryozoan Studies 2010*. Springer, Berlin.
- Zenetos A., Gofas S., Morri C., Rosso A., Violanti D., Garcia-Raso E., Cinar M.E., Almogi-Labin A., Ates S., Azzurro E., Ballesteros E., Bianchi C.N., Bilecenoglu M., Gambi M.C., Giangrande A., Gravili C., Hyams-Kaphzan O., Karachle V., Katsanevakis L., Lipej L., Mastrototaro F., Mineur F., Pancucci-Papadopoulou M.A., Ramos Esplá A., Salas C., San Martin G., Sfriso A., Streftaris M., Verlaque M., 2012. Alien species in the Mediterranean Sea by 2012. A contribution to the application of European Union's Marine Strategy Framework Directive (MSFD). Part 2. Trends in introduction and pathway. *Mediterranean Marine Science*, 13(2): 328-352.

