



Bulletin

Volume 4, Number 3

October, 2008

(Use the "Bookmarks" feature to navigate around this document)

News from the Membership

Larwood 2009 Information

Specific Bryozoan/Brachiopod Association?

Bryozoa Collection of Gisela Illies

Truckloads of Bryozoans

A Friend Departed: Yousef Ahmed

Cover Feature: McKinney *et al.*, 2008

Bryozoan Bookstore

Annals of Bryozoology: Special offer & order form

Upcoming Meetings

Missing Persons

Recent Publications

Copyright © 2008 by the International Bryozoology Association.

Judith Winston, President

Eckart Håkansson, President-elect

Timothy S. Wood, Secretary

Abigail Smith, Treasurer

ISSN 1941-7918

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

tim.wood@wright.edu

Further information at www.nhm.ac.uk/hosted_sites/iba/

News from the Membership

Björn Berning was invited to the Azores to give a keynote lecture on Atlantic island and seamount bryozoans on the joint "2nd Atlantic Island Neogene International Conference" and the "5th Congress of the European Malacological Societies" in Ponta Delgada in the first week of September. The organiser Sérgio Ávila (University of the Azores) also established the informal but very active Marine Palaeobiogeography Working Group a couple of years ago, which aims at understanding biogeographic processes and the evolution of organisms around islands and seamounts in general, and in the Azores in particular. With the expectation of increasing the odds to be able to revisit these beautiful islands I cheerfully joined this group and will therefore be looking at fossil (Miocene to Pleistocene) and modern bryozoans from the Azores whenever time permits. A two-year settlement-panel project led by Max Wisshak (University of Erlangen), in which, ultimately, carbonate accretion and bioerosion rates will be quantified, provides another important source of information regarding bryozoan diversity in this remote region. As I can also see loads of samples from several seamounts sitting on my desk (now that's a couple of 's' here!), my main focus of research for the next years to come will certainly be on the eastern North Atlantic.

Marcus Key. I have relocated to England! I am running a study abroad program for science majors at my home institution, Dickinson College, at the University of East Anglia. For the next two year my address will be: School of Environmental Science, (Room: ENV 2.35), University of East Anglia, Norwich, Norfolk NR4 7TJ UK.

Laís Vieira Ramalho. In June, 2008 the Museu Nacional (Rio de Janeiro State) completed 190 years old and realized an event in which the laboratories of this institution show their jobs. There were exhibits of Botany, Anthropology, Geology and Zoology. Among the zoology exhibits there was one about Sponges and Bryozoans. Children, parents and teachers participated actively at our stand. They learned about different bryozoan species, that a lot of them said that had not known about or they didn't know about their existence. During these 3 days there was a lively exchange of information with children and all people involved. They were impressed with the existence of Bryozoans!

In other news about Brazilian bryozoans:

- I am co-supervisor of the MSc Luciana Muguet (here at Museu Nacional) "Taxonomy and Ecology of Bryozoan from Sepetiba Bay (Rio de Janeiro State) with emphasis in the detection of introduced species". She will identify and describe bryozoan species, will study the distribution of them at the Sepetiba Bay, and will analyze the occurrence of introduced species. Sepetiba Bay has two big harbors with activity from national and foreign ships.
- I received in this month (September) Biologist Flavia Santana from Universidade Federal de Sergipe. During whole September, Flavia studied the bryozoans collected at Sergipe State (northeast Brazil). This material was collected at the region with rocks underwater and also together with the sediments (sand and mud) at different depths. We made SEM of the some specimens and these results will be published as soon as possible. Flavia is starting the studies about bryozoans and she aspires to earn

her Masters of Science degree here at Museu Nacional in the next year with an inventory of bryozoans from Sergipe State.

Scott Tompsett – Aberystwyth University, Wales. Over the summer I have been fortunate enough to make two collecting trips in Europe. In July I visited Galicia, North West Spain, and during the second week of September Naples, Italy. During these visits I was able to collect a number of *Schizoporella* species for phylogenetic analysis, including *Schizoporella errata* from its Type locality. I have also collected *Schizoporella dunkeri* from a number of sites for a study on phylogeography.

These stays would not have been possible without the generous and kind support of a number of IBA members. For my stay in Santiago de Compostela I must thank Dr. Eugenio Fernández-Pulpeiro, Dr. Oscar Reverter-Gil and in particular Javier Souto-Derungs who organised collecting excursions both on the shore and by SCUBA diving in the Ria de Ferrol and Ria de Vigo.

For my trip to Italy I must thank Francesco Toscano for hosting Dr. Chiara Lombardi and myself in his own home, and especially for organising SCUBA diving with the Carabinieri diving corps. In addition I must thank Dr. Chiara Lombardi for organising our stay on Ischia island, where we made further SCUBA dives and where I was able to analyse the ‘catch’ at the Stazione Zoologica Anton Dorn (Laboratorio di ecologia del bentos).



Myself and Javier Souto-Derungs working on the shore in the Ria de Ferrol.



Francesco Toscano and Chiara Lombardi during an excursion in Naples – Vesuvius in the background.

IX Larwood Meeting 2009

Organized by

Natural History Museum, University of Oslo, Norway



International Bryozoology Association

**Thursday 21st – Saturday 23rd May 2009,
Oslo, Norway**

General information

The *IX Larwood Meeting* will take place on Friday 22nd May 2009 in the Natural History Museum, University of Oslo [inside the Botanical garden], starting at 9.00 a.m. You can reach Oslo by **plane** to Oslo Airport Gardermoen*, by **train** or by **car**.

Additionally, a one-day paleontological field trip is planned for Saturday May 23 and a boat based marine trip is planned for Thursday May 21.

* Another airport, Oslo Airport Torp, is further away from Oslo and requires a two hour bus journey to reach Oslo

Accommodation

A list of recommended hotels will be sent to participants later, but two possibilities are:

Thon Hotel Spectrum. Special prices for University of Oslo guests: NOK 745,- single room, NOK 990,- double room, incl. breakfast. Walking distance (15-20 minutes) from the museum. <http://www.thonhotels.no/spectrum> . Tel: +47 23 36 27 00

Haraldsheimen, Haraldsheimv. 4, 0587 Oslo. <http://eng.haraldsheim.no/> Tel: +47 2222 2965
This offers bed-and-breakfast accommodation, is popular amongst students and back-packers, with safe, clean and nice rooms. Walk to the museum: 40 minutes, but there is a tram (with multi travel card at about 25,- NOK per trip). Prices incl. breakfast and bed-linen:
In rooms with four beds (four people): NOK 285,- per person per night. They also have a few double rooms, with the same prices.

NB: This bed-and-breakfast hotel becomes fully booked very quickly for visits in Spring and Summer, and rooms MUST be reserved a.s.a.p. (they can be cancelled later of course).

Exchange rate September 2008: 1 EURO = 8 NOK (Norwegian kroner). 1 GBP = 10,50 NOK.

Abstracts

Abstracts must be submitted by 15th of April 2008. They should be not longer than one page and written using the following format:

Title: In capitals and bold. Font: Times New Roman. Size: 14 pt.

Authors and addresses: Font: Times New Roman. Size: 12 pt.

Text: Font: Times New Roman. Size: 12 pt. Spacing 1.5.

Posters

Vertical size: max. 100 cm; horizontal size: max. 70 cm.

Fee

Regular fee – 50 Euros, students – 25 Euros. To be paid at the conference.

One-day marine boat trip, Thursday 21 May

Possible marine biology, full day boat trip, inner/outer Oslo fiord, with marine biologist(s) from the University of Oslo. Marine lab / microscopes on land for our use.

One-day field-trip, Saturday 23 May

A visit to Silurian outcrops, mainly shallow marine carbonates, with possibilities to collect trepostome bryozoans.

City of Oslo excursion, Sunday 24 May

Information concerning possibilities to visit the most important tourist attractions in Oslo and its surroundings (Viking ship museum, "Fram", Kon-Tiki and more) will be provided to all registrants.

Registration by 15th December 2008 to

Hans Arne Nakrem, Natural History Museum, University of Oslo.

h.a.nakrem@nhm.uio.no Tel: +47 92463785 (mobile), office: +47 22851732.

More details will appear on this web page: <http://natmus.uio.no/larwood/>

Specific association between a bryozoan and brachiopod substratum?

Seabourne Rust

In fossil specimens collected from the Wanganui Basin (North Island, New Zealand) there are occasional examples of co-occurrence between a specific bryozoan and the host substratum it has encrusted, which may indicate a similar habitat preference shared by both of the organisms, or, perhaps a more involved mutual relationship between them. The small brachiopod, *Calloria (Waltonia) inconspicua* is found in several of the Pleistocene units (e. g. Lower Castlecliff Shellbed, Kupe Formation) at Castlecliff, near Wanganui. The exterior surfaces of its fossilized valves are often encrusted by the unilaminar cheilostome bryozoan *Crepidacantha crinispina*. Other bryozoans do occur - but infrequently.

I have noticed that this is also the case for numerous modern specimens, including collections made at Bream Tail, and Spirits Bay, Northland, New Zealand. In some of these samples the brachiopods were living when encrusted. Both brachial and pedicle valves of the brachiopod may be encrusted by *Crepidacantha*. In other cases, including fossil examples, the bryozoan colony has extended over the closed commissure, suggesting it grew after the brachiopod had deceased. Both *Crepidacantha crinispina* and *Calloria* sp. are found in intertidal to shallow-shelf rocky habitats around NZ, often washing ashore attached to algal holdfasts.

I thought IBA members might be interested, and wondered if there are other similar records of co-occurrence between fossil or modern bryozoans and brachiopod taxa? Please contact me at s.rust@auckland.ac.nz.

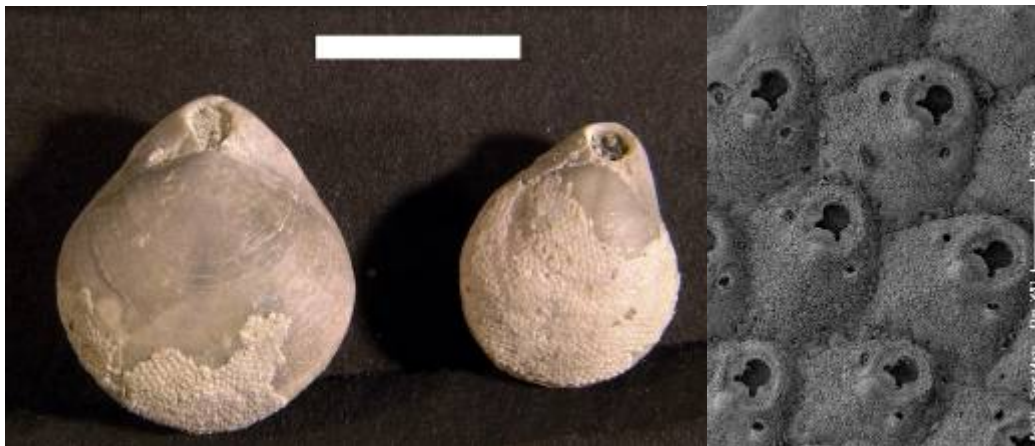


Fig. Left: Fossil *Crepidacantha*-encrusted *Calloria* from the Kupe Formation, scale bar = 10 mm. Right: *Crepidacantha crinispina*, Lower Kai Iwi Shellbed, scale bar = 0.2 mm. Specimens from Castlecliff, Wanganui (Castlecliffian Stage, Pleistocene).

Donation of the Bryozoa Collection of Gisela Illies to the Senckenberg Research Institute, Frankfurt am Main

Joachim Scholz

On August 21, 2008, a large part of the Bryozoan collection of Gisela Illies (Karlsruhe, Germany) arrived in Frankfurt, donated by her to join the Bryozoa collection in Senckenberg. The collection of recent and fossil Bryozoa is of considerable size, filling 34 large carton boxes that are waiting now to be unpacked.

Gisela Illies visited the IBA conferences in Swansea, Wales most recently in July and August 1992. Therefore, the younger IBA members will not know her personally. Between 1953 and 1991, she published 17 articles mainly on cyclostome species of the genus *Stomatopora* and some related taxa, and she became known for the thorough study of their budding and branching patterns. She also described the new genus *Stomatoporopsis* (ILLIES 1981), with the type species *Stomatoporopsis multigemmans*, (ILLIES 1974), and the



new species *Stomatopora bilix* (ILLIES 1971), *Stomatopora macroura* (ILLIES 1971), and *Stomatopora bifurca* (ILLIES 1971),

Moreover, she revised some taxa originally described e.g. by d'Orbigny, Lamouroux, and v. Hagenow. Her elaborate line drawings and descriptions will still be a source of inspiration for those taxonomist who are working on the respective groups.

Gisela Illies on August 21 in Karlsruhe, and a part of her collection (including specimens borrowed by her from the late Professor Voigt) about to move into their new housing in Frankfurt-Senckenberg.

Her only contribution dealing with cheilostome bryozoans was also her very first publication on bryozoans in 1953: a contribution to mathematical morphology and to the re-description of the pematoporinid species *Rhiniopora cacus* (BRYDONE 1913), published in Hamburg 1953, the hometown of Professor Voigt. He had been her bryozoology teacher, and most important collaborator in the nearly four decades of her research.

Finally, a message from Gisela Illies to the editors of bryozoan conference volumes: Although for health reasons Mrs. Illies cannot continue her research any more, she is still looking forward to reading newly published bryozoan literature, and she asked me if I could ask you, if any of the editors could kindly spare her one of the bryozoan conference volumes published in the years after 1995. In case you have one of those more recent conference volumes, please contact me and I will forward to her your message. Many thanks,

Truckloads of Bryozoans

Tim Wood and Michael Lore



This photo shows a *very small* portion of plumatellid bryozoans recovered from the freshwater intake structure of a nuclear power generation plant in the USA. In September 2008 an extremely serious situation developed when the growth and accumulation of bryozoans threatened the emergency water cooling system.



Divers worked around the clock for 5 days to scrape bryozoans from the intake walls and floors. Everything was pumped into waiting tank trucks and....



... discharged into a nearby field to dry in the sun. (Engineers wanted them far from the lake, even though the lake already had *many* more tons of the same material).

This was the second time bryozoans had prompted emergency measures at this facility. In 2004, after a similar incident, we were called in to investigate. The essential problem arises

from a unique chemical and physical environment created by the power plant's heated discharge water. Cool water is drawn from a 935-hectare lake at the rate of 5,224 meters³ per minute. Passing through huge condensers, the water absorbs a massive amount of heat and returns to a different part of the lake. Even in winter with air temperatures hovering around -15° C, bryozoans flourish in the discharge area where the water temperature never falls below 22°. Elsewhere in the lake the bryozoan population overwinters as dormant statoblasts. With the approach of spring the statoblasts germinate in a progressive wave that circles back towards the cooling water intake. The dominant bryozoan appears to be a form of *Plumatella vaihiria*, which we have been unable to find anywhere else within a 300-kilometer radius.

By the end of the first season in 2005 we had sufficient information to recommend a number of remedial options, including treating the intake structure with chemicals already being used at the site to control bacterial films. With laboratory studies we had worked out the dilution factor and minimum exposure time. There would be a 3-week window of opportunity for treatment in the spring – after all sessile statoblasts had germinated and before any new ones could be formed.

Unfortunately, those recommendations were dismissed by company managers as too burdensome, and the 2004 incident was written off as a “once-in-a-lifetime event.” The years 2005, 2006, and 2007 passed without further incident, and plant engineers concluded that bryozoans were no longer a threat – until September 2008.

The good news is that the recent incident has provided new insight about bryozoans in the system. For the first time we had a glimpse of what was actually happening inside the cooling system. It may be possible to control the growth hydraulically by increasing water turbulence in key areas. Studies over the next year will focus on this and other ways to prevent a re-occurrence.



Handful of bryozoans picked up from the field where they were discharged. After a day in the sun, many zooids beneath the bleached top crust were still alive.



This is how a colony appears as it grows naturally in the lake. The most luxuriant growth occurs beneath rocks and in other protected areas.

You are not called when journey's done
Humbert Wolfe, (1885-1940): Journey's End

A friend departed: Yousef Ahmed

Joachim Scholz

YOUSEF AHMED was employed as a technician at the Marine Science Station Aqaba of the University of Jordan. Over the years he had acquired a considerable knowledge about the marine fauna occurring around the small stretch of Jordanian coastline. He knew where to find the most inconspicuous marine critters and reef dwellers off the station in Aqaba, and as a passionate diver, he also greatly enjoyed himself taking photographs of the diversity of marine animals, still considerable despite of some severe environmental disturbance that is affecting the region today. Among the various species, bryozoans became his ultimate favourites. When HEIKE LINK (meanwhile working at the Université du Québec à Rimouski, Canada), the polychaete researcher THOMAS WEHE (University of Heidelberg, Germany) and I met YOUSEF for the first time in Aqaba on March 22, 2007, he showed to us his considerable private library of macrophotographs of bryozoans, and he helped us a lot during our field research in Jordan.



Yousef working as a research diver in Aqaba, Jordan, on March 23, 2007.

Thanks to a grant of the German Academic Exchange Service DAAD, we were able to invite YOUSEF twice to the Senckenberg, Frankfurt, and to the University of Heidelberg, from July 15 to August 14, 2007, and from October 27 to December 3, 2007. Some details were published in the September 2007 issue of the IBA Bulletin 3(3), showing also a picture of YOUSEF together with GERO HILLMER.

As part of a multi-author team, we had started to work on a taxonomic atlas of the Aqaba bryozoans, and after receiving some training in bryozoology, YOUSEF was participating in the preparations, providing us SEM photographs, and preliminary identifications. We were thinking, this is just the beginning of a happy and fruitful long term collaboration. His pleasant personality immediately made him many friends in Frankfurt and elsewhere. He was working very hard, often staying seven days a week in the office. At the same time he also knew when to say let's-call-it-a-day, and we spent lots of time talking, not only about bryozoans. He was always a cheerful guy, but of course, like every human being, he had his trials and tribulations in life, and so we also talked about such. We did not know that all our plans were about to be felled in full flight, and, looking back, I have the feeling that we did not spend enough time with each other, although it seemed to be plentiful when he was still alive and visiting us and working hard in the office and still taking time for some strolls and talks.

Nearly all of you never met him since time was too swift. GERO HILLMER was already mentioned, another IBA friend visiting us was FRANCESCO TOSCANO from Italy, and the two fellows immediately came to terms with each other, as clearly to be seen in the photograph (fig. 2). YOUSEF was not only making friends with people and bryozoans, but also with some ichthyological parts of our staff. As a “leftover“ of a successful attempt to breed freshwater bryozoans for university classes*, made possible by statoblasts sent to us by EMMY WOESS from Vienna, we still keep paradise fish (*Macropodus opercularis*) in the office. (*We had learned that dissolved organic carbon leaking from a high population of freshwater fish is enough to nourish Phylactolaemata, at least for the short period of time students need to observe them). YOUSEF immediately fell in love with the paradise fish and soon he took over the job from us to feed them.



Yousef with Francesco Toscano in Frankfurt on November 11, 2007



Saying farewell to us in December 2007 at the end of his final stay in Germany.

On December 3, 2007, YOUSEF managed to take 5 well trained, highly motivated baby paradise fish back to his home in Aqaba. They all survived the trip in some bags of plastic, but before they started their epic voyage from the river Main towards the Red Sea, they had to bypass some strict security checks at the Frankfurt airport, and cross-eyed looks and experiments of airport guards, due to the freshly imposed safety regulations for hand luggage, and the maximum volume of 100 ml of fluid (including the fish). They are flourishing now in a large tank owned by YOUSEF’s family in Aqaba, and may well be the first specimens of their kind ever to have reached Jordan.

YOUSEF kept informing us about his bryozoan activities, and of course also about the progress the little fishes made on their way to become large (fig. 4), but rather suddenly, after June the correspondence came to an end. We did not have any premonitions, and we did not know that, starting about the middle of July, YOUSEF was a dying man. According to what friends later have told us, a harmless cold, or what was taken for such, turned into the most severe attack of pneumonia. The last three days of his life, he was not able to talk.

As something that now has become his legacy to the IBA community, he had brought us about 30 kilograms of carefully selected reef sediments of various Aqaba reef sites, all of it densely encrusted by bryozoans, and furthermore lots of samples already arranged in boxes, and, as mentioned already, several sets of SEM photographs. This will be the topic of another day, since this memorial tribute must not end with the austerity of science, because this cheerful guy would have preferred it another way, after the end of a day's labour.

When you see some paradise fish in a pet shop or in a public aquarium, or if you also breed them at home, please ask them to say hello to their good friend YOUSEF, and let us wish for him that the name of the respective species is now the place where YOUSEF is having another great time. He was only 42 years old when he died on August 6, 2008.

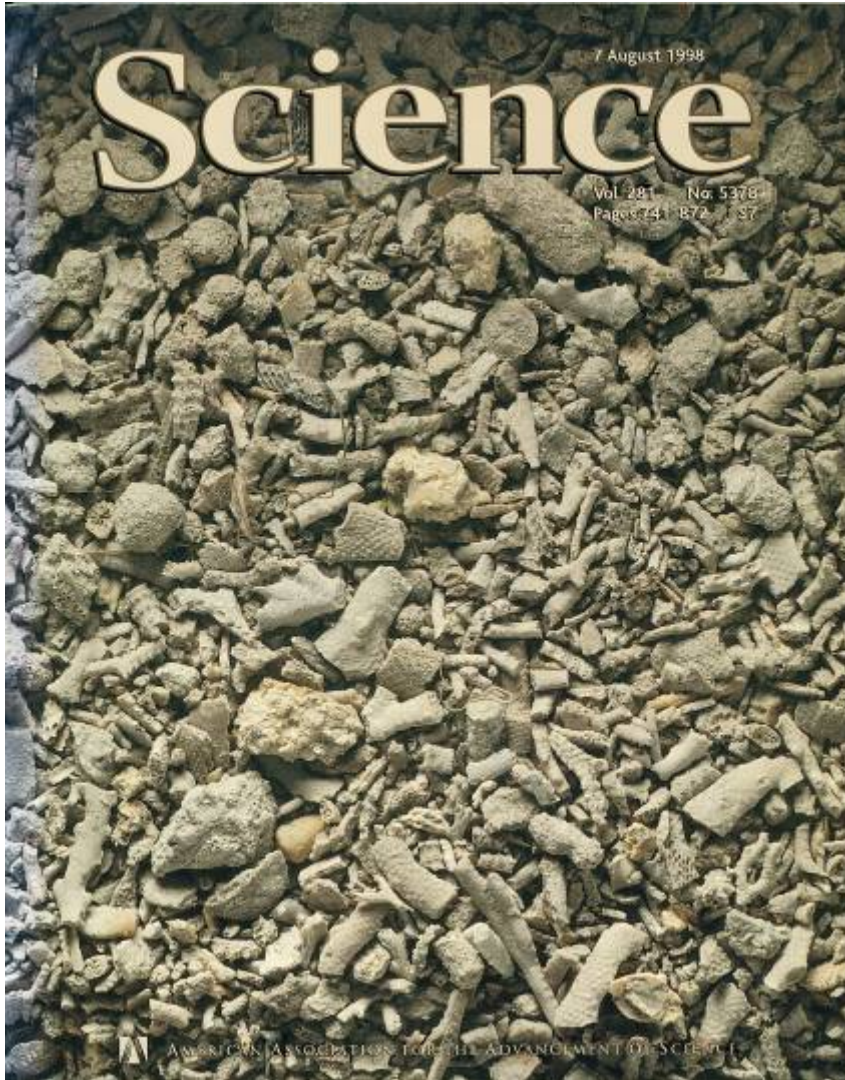


The Paradise fish from Frankfurt are flourishing now in Aqaba, Jordan. This photo was made and sent by Yousef on January 16, 2008.

Featured Cover

Editor's Note: This page continues a series highlighting covers of journals or magazines that feature bryozoans. Readers are encouraged to submit their own suggestions to me:

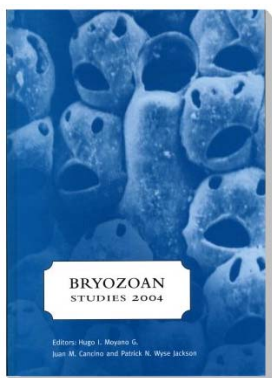
tim.wood@wright.edu. To be clear, we are looking for publications that are issued at timed intervals and contain multiple articles (in other words, no bryozoan-specific monographs).



COVER DESCRIPTION:
COVER Coarse residue from a Miocene limestone of New Zealand consists of skeletal fragments of cheilostomes and cyclostomes, two bryozoan groups that responded differently to the Cretaceous-Tertiary extinction. The diversity of both groups was reduced by the extinction, but while cheilostomes remained relatively more diverse, the cyclostomes became more abundant for several million years. [Photograph: H. Taylor]

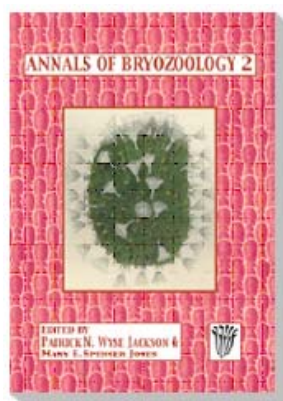
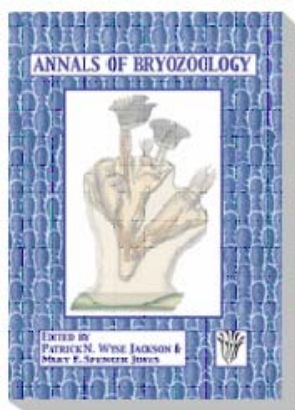
CORRESPONDING ARTICLE: Frank K. McKinney, Scott Lidgard, J. John Sepkoski, Jr., and Paul D. Taylor. 2008. Decoupled Temporal Patterns of Evolution and Ecology in Two Post-Paleozoic Clades. *Science* 7 August 1998: 807-809.

Bryozoan Bookstore



Bryozoan Studies 2004 – proceedings of the Chile meeting

Patrick Wyse Jackson has six copies available for €50 each. This is a **50% reduction** on the price from the publisher. Please e-mail Patrick (wysjcknp@tcd.ie) if you are interested in obtaining a copy.

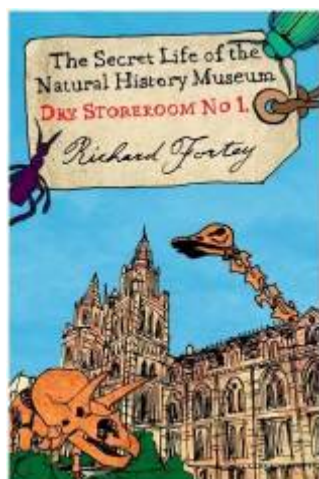


Annals of Bryozoology (2002)
£20/€25/\$25, post & packaging free

Annals of Bryozoology 2 (2008)
£25/€32/\$48, post & packaging free

Price if both purchased together
£35/€45/\$60

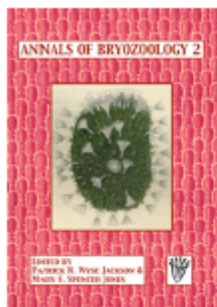
These two volumes published by the IBA contain a total of 39 papers (and over 800 pages) on various aspects of research on living and fossil bryozoans and make essential reading for bryozoologists. If you have not purchased your copy yet, or have not persuaded your institutional library to do so please contact Patrick Wyse Jackson by e-mail or return the order form that follows.



Dry Store Room No. 1: *The Secret Life of the Natural History Museum* (Paperback), by Richard Fortey.

Mary Spencer Jones reports that this book is now out in paperback and is reduced to £4-94 at the moment on Amazon UK. (but still \$18.15 in the U.S.) **ISBN-10:** 0007209894
ISBN-13: 978-0007209897

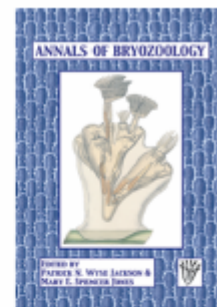
NEW FROM THE IBA



THIS VOLUME CONTAINS NINETEEN PAPERS RELATING TO THE HISTORY OF RESEARCH ON BRYOZOA. A NUMBER OF THESE PAPERS WERE PRESENTED AT MEETINGS OF THE INTERNATIONAL BRYOZOOLOGY ASSOCIATION IN CHILE (2004) AND THE USA (2007).

P.N. WYSE JACKSON & M.E. SPENCER JONES (EDS)
ANNALS OF BRYOZOOLOGY 2: ASPECTS OF THE HISTORY OF RESEARCH ON BRYOZOANS
 INTERNATIONAL BRYOZOOLOGY ASSOCIATION, 2008,
 VIII+442PP. ISBN 0-9543644-1-4.
 PRICE: £25/€32/\$48 INCLUDING POST & PACKAGING

ANNALS OF BRYOZOOLOGY 2: 19 PAPERS, 442 PAGES



THIS VOLUME CONTAINS TWENTY PAPERS WHICH WERE PRESENTED AT A JOINT MEETING OF THE SOCIETY FOR THE HISTORY OF NATURAL HISTORY AND THE INTERNATIONAL BRYOZOOLOGY ASSOCIATION IN DUBLIN IN JULY 2001.

P.N. WYSE JACKSON & M.E. SPENCER JONES (EDS)
ANNALS OF BRYOZOOLOGY: ASPECTS OF THE HISTORY OF RESEARCH ON BRYOZOANS
 INTERNATIONAL BRYOZOOLOGY ASSOCIATION 2002,
 VIII+381PP. ISBN 0-9543644-0-6.
 PRICE: £20/€25/\$25 INCLUDING POST & PACKAGING

- HISTORY OF THIN-SECTIONING OF PALEOZOIC BRYOZOA
- ANTARCTIC CYCLOSTOME BRYOZOANS: EARLY EXPEDITIONS
- BRYOZOAN DIVERSITY IN THE CHUKCHI SEA
- THE RUSSIAN SCHOOLS OF PALEOBRYOZOOLOGY
- RECENT BRYOZOA IN THE FRENCH NATIONAL COLLECTIONS
- FOSSIL BRYOZOA FROM SVALBARD (ARCTIC NORWAY)
- VASILY P. NEKHOROSHEV & ALEXANDRA I. NIKIFOROVA
- FERTILIZATION IN BRYOZOA
- SEXUAL REPRODUCTION IN GYMNOLAEMATE BRYOZOA
- THE PARENTAL CARE IN CHEILOSTOME BRYOZOANS
- THE HISTORY BEHIND ALCYONIUM GELATINOSUM
- TWO HUNDRED YEARS OF AUSTRALIAN BRYOZOOLOGY
- ALICE ROBERTSON: EDUCATOR AND MARINE ZOOLOGIST
- WOMEN IN THE I.B.A., 1965 TO 2001
- RESOLUTION OF TAXONOMIC ISSUES IN THE HORNERIIDAE
- BRYOZOAN EXCHANGE: BASSLER AND HASTINGS
- JOAN CROCKFORD-BEATTIE D.SC.
- A BOOK FROM THE COLLECTION OF JOHN ELLIS NOW IN THE USA
- WILLIAM LONSDALE & FIRST THIN-SECTION OF A FOSSIL BRYOZOAN

- GEORGE ROBERT VINE: STAYMAKER AND BRYOZOOLOGIST
- EARLY BRYOZOAN STUDIES IN THE NETHERLANDS
- THE INTERNATIONAL BRYOZOOLOGY ASSOCIATION 1965-1974
- THE CINCINNATI PALEOBRYOZOOLOGISTS
- THE FRENCH PRE-LAMARCKIAN BRYOZOOLOGISTS
- BRYOZOAN SPECIES DIVERSITY IN THE BERING SEA
- MICROPALAEONTOLOGY IN 19TH CENTURY VIENNA
- FRESHWATER BRYOZOOLOGY IN BELGIUM AND LUXEMBOURG
- HISTORY OF SOUTH-EASTERN PACIFIC BRYOZOANS
- COLONIAL BEHAVIOUR AND ZOOIDAL REACTIONS IN BRYOZOA
- INDIVIDUAL AUTOZOOIDAL BEHAVIOUR AND FEEDING MECHANISMS
- ALAN S. HOROWITZ (1930-1999)
- THE I.B.A. INTERNATIONAL CONFERENCES 1968-2001
- CANU AND BASSLER
- NORTH-EASTERN PACIFIC BRYOZOOLOGY
- W.D. LANG, ORTHOGENESIS AND CRIBRIMORPH BRYOZOANS
- ELIZA CATHERINE JELLY (1829-1914), FEMALE BRYOZOOLOGIST
- AUGUST EMANUEL REUSS - EARLY BRYOZOOLOGIST
- ERNST MARCUS (1893-1968) & EVELINE MARCUS (1901-1990)
- FROM RONDELET TO STOCKHOLM

ORDER FORM FOR ANNALS OF BRYOZOOLOGY & ANNALS OF BRYOZOOLOGY 2

SPECIAL OFFER: ORDER BOTH ANNALS VOLUMES BUNDLED TOGETHER AT A SPECIAL ONE-OFF PRICE OF £35/€45/\$60 INCLUDING POST & PACKAGING! [VOLUMES ALSO AVAILABLE SEPARATELY]

PERSONAL ORDERS:	COST
<input type="checkbox"/> PLEASE MAIL ME: ___ BUNDLED SET(S) OF BOTH 'ANNALS' VOLUMES (2002 & 2008) - (£35/€45/\$60)	_____
<input type="checkbox"/> PLEASE MAIL ME: ___ COPY/COPIES OF 'ANNALS OF BRYOZOOLOGY 2' (2008) - (£25/€32/\$48)	_____
<input type="checkbox"/> PLEASE MAIL ME: ___ COPY/COPIES OF 'ANNALS OF BRYOZOOLOGY 1' (2002) - (£20/€25/\$25)	_____
INSTITUTIONAL ORDERS:	
<input type="checkbox"/> PLEASE INVOICE ME FOR ___ BUNDLED SET(S) OF BOTH 'ANNALS' VOLUMES (2002 & 2008) - (£35/€45/\$60)	_____
<input type="checkbox"/> PLEASE INVOICE ME FOR ___ COPY/COPIES OF 'ANNALS OF BRYOZOOLOGY 2' (2008) - (£25/€32/\$48)	_____
<input type="checkbox"/> PLEASE INVOICE ME FOR ___ COPY/COPIES OF 'ANNALS OF BRYOZOOLOGY 1' (2002) - (£20/€25/\$25)	_____
	TOTAL: _____

NAME _____

ADDRESS _____

BANK DRAFTS (OR PERSONAL CHEQUES IN US DOLLARS, € EUROS OR £ STERLING) SHOULD BE MADE PAYABLE TO "INTERNATIONAL BRYOZOOLOGY ASSOCIATION". RETURN THIS FORM AND PAYMENT TO DR PATRICK WYSE JACKSON, DEPARTMENT OF GEOLOGY, TRINITY COLLEGE, DUBLIN 2, IRELAND. [ENQUIRIES: 353-1-8961477 (TEL); WYSJCKNP@TCD.IE]

Upcoming Meetings and Conferences

Bryozoa

IBA Larwood Meeting
21-23 May 2009, Oslo, Norway
Meeting details at : <http://natmus.uio.no/larwood/>

International Bryozoology Association
25-30 July 2010, Kiel, Germany
Contact Priska Schäfer, ps@gpi.uni-kiel.de

Paleontology

Fourth International Conference on the Geology of the Tethys,
17-24 November, 2008 Cairo, Egypt. Information: El-Sayed Abd El-Aziz Aly Youssef
elsayedyousef2005@yahoo.com , Geology Dept., Faculty of Science, Cairo University,
Giza, Egypt. Fax: 002 02 35728843, Phone: 002 02 35676887.

American Geophysical Union
15-19 December 2008, San Francisco, California
<http://www.agu.org/meetings/fm08/>

The Palaeontological Association 52nd annual meeting
18-21 December 2008, University of Glasgow
http://www.palass.org/modules.php?name=annual_meeting&page=1

North American Paleontological Convention
21-27 June, 2009 in Cincinnati, Ohio (USA)
<http://www.vertpaleo.org/news/permalinks/2008/04/15/9th-North-American-Paleontological-Convention-/>

5th International Symposium on Lithographic Limestone and Plattenkalk
17-22 August 2009, Naturhistorisches Museum Basel, Switzerland
http://www.geolsoc.ch/events/files/5th_ISLLP.pdf.

Geological Society of America Annual Meeting
18-21 October 2009, Portland, Oregon, USA
<http://www.geosociety.org/meetings/index.htm>

Biology

Workshop on Molecular Evolution
12-23 January 2009, Český Krumlov, Czech Republic
<http://workshop.molecularevolution.org/>

Society for Integrative & Comparative Biology
3-7 January 2009, Boston, Massachusetts USA
<http://www.sicb.org/meetings/2009/>

Ecological Society of America
2-7 August 2009, Albuquerque, New Mexico
<http://www.esa.org/albuquerque/>

International Association for Ecology
16-21 August 2009, Brisbane (Australia)
http://www.intecol.net/info-esk/X-INTECOL/10th_INTECOL_Congress-3.htm

International Society of Limnology
August, 2010, Capetown, South Africa
<http://www.limnology.org/news/circular2008.pdf>

Missing Persons

The IBA Secretary is trying to locate the following members whose last known email addresses are no longer functional. If you have any new information about these people please contact Tim Wood.

Yasser El Safori
Khalil El Hajjaji
Sandra Kittelmann
Xixing Liu

yasser@asunet.shams.edu.eg
elhajjaji_kh@menara.ma
sandra.kittelmann@staff.uni-marburg.de
xixingliu999@hotmail.com

Recent Publications

The following list includes works either published since the previous issue of the *IBA Bulletin* or else missed by previous issues. 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.

- Ayari, R., P. D. Taylor, et al. (2008). A new species of the cheilostome bryozoan *Trematooecia Osburn*, 1940 from the Mediterranean Sea. *Cahiers de la Biologie Marine* 49: 261-267.
- Berning, B., K. J. Tilbrook, et al. (2008). Revision of the north-eastern Atlantic and Mediterranean species of the genera *Herentia* and *Therenia* (Bryozoa: Cheilostomata). *Journal of Natural History* 42(21-22): 1509-1547.
- Boardman, R. S. (2008). Some early American history of the sectioning of Paleozoic Bryozoa: a personal view. *Annals of Bryozoology* 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 1-8.
- Campbell, E. M. and Y. Bone (2008). Antarctic cyclostome bryozoans as paleotemperature proxies: historical background to early collecting expeditions. *Annals of Bryozoology* 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 9-34.
- Denisenko, N. V. and P. Kiklinski (2008). Historical development of research and current state of bryozoan diversity in the Chukchi Sea. *Annals of Bryozoology* 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 35-50.
- Ernst, A. and M. Key (2007). Upper Ordovician Bryozoa from the Montagne de Noire, southern France. *Journal of Systematic Palaeontology* 5(4): 359-428.
- Ernst, A. and M. Carrera (2008). Cryptostomid bryozoans from the Sassito Formation, Upper Ordovician cool-water carbonates of the Argentinean Precordillera. *Palaeontology* 51(5): 1117-1127.
- Gilmour, E. H., A. Yarinpil, et al. (2008). The Russian Schools of Paleobryozoology. *Annals of Bryozoology* 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 51-58.
- Grabner, D. S. and M. El-Matbouli (2008). Transmission of *Tethracapsuloides bryosalmonae* (Myxozoa : Malacosporea) to *Fredericella sultana* (Bryozoa : Phylactolaemata) by various fish species. *Diseases of Aquatic Organisms* 79(2): 133-139.
- Gruhl, A. and T. Bartolomaeus (2008). Ganglion ultrastructure in phylactolaemate bryozoa: Evidence for a neuroepithelium. *Journal of Morphology* 269(5): 594-603.
- Gruhl, A. (2008). Muscular systems in gymnolaemate bryozoan larvae (Bryozoa: Gymnolaemata). *Zoomorphology* 127: 143-159.
- Haszprunar, G. and A. Wanninger (2008). On the fine structure of the creeping larva of *Loxosomella murmanica*: additional evidence for a clade of Kamptozoa (Entoprocta) and Mollusca. *Acta Zoologica (Copenhagen)* 89(2): 137-148.
- Heindl, H., J. Wiese, et al. (2008). *Tenacibaculum adriaticum* sp nov., from a bryozoan in the Adriatic Sea. *International Journal of Systematic and Evolutionary Microbiology* 58(Part 3): 542-547.

- Holcoá, K. and K. Zágoršek (2008). Bryozoa, foraminifera and calcareous nanoplankton as environmental proxies of the bryozoan event in the Middle Miocene of the Central Paratethys (Czech Republic). *Palaeogeography, Palaeoclimatology, Palaeoecology* 267(2008): 216-234.
- Hondt, J.-L. d' (2008). The historical collections of Recent Bryozoa in the French National Collections. *Annals of Bryozoology 2*. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 59-70.
- Hughes, R. N., A. Gomez, et al. (2008). Molecular phylogeny supports division of the "cosmopolitan" taxon *Celleporella* (Bryozoa; Cheilostomata) into four major clades. *Molecular Phylogenetics and Evolution* 46(1): 369-374.
- Jiménez-Sánchez, Andrea, Spjeldnaes, Nils, Villas, Enrique (2007). Ashgill bryozoans from the Iberian Chains (NE Spain) and their contribution to the Late Ordovician biodiversity peak in North Gondwana. *Ameghiniana* 44 (4), pp. 681-686.
- Kuklinski, P. and P. D. Taylor (2008). Arctic species of the cheilostome bryozoan *Microporella*, with a redescription of the type species. *Journal of Natural History* 42: 1893-1906.
- Lidgard, S. (2008). Predation on marine bryozoan colonies: taxa, traits and trophic groups. *Marine Ecology Progress Series* 359: 117-131.
- Lim-Fong, G. E., L. A. Regali, et al. (2008). Evolutionary relationships of *Candidatus endobugula* bacterial symbionts and their *Bugula* bryozoan hosts. *Applied and Environmental Microbiology* 74(11): 3605-3609.
- Liuzzi, M. G. and J. L. Gappa (2008). The distribution of colonies of the bryozoan *Antarctothoa bougainvillei* on the red alga *Hymenena laciniata*. *Hydrobiologia* 605: 65-73.
- Lombardi, C., S. Cocito, et al. (2008). Influence of seawater temperature on growth bands, mineralogy and carbonate production in a bioconstructional bryozoan. *Facies* 54(3): 333-342.
- Nakrem, H. A. (1998). Fossil Bryozoa from Svalbard (Arctic Norway): a research history. *Annals of Bryozoology 2*. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 71-87.
- Nekhorosheva, L. V. (2008). Vasily Petrovich Nekoroshev (1893-1977) and Alexandra Ivanova Nikiforova (1894-1939). *Annals of Bryozoology 2*. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 89-102
- Nikulina, E. A., R. Hanel, et al. (2007). Cryptic speciation and paraphyly in the cosmopolitan bryozoan *Electra pilosa* - Impact of the Tethys closing on species evolution. *Molecular Phylogenetics and Evolution* 45(3): 765-776.
- Nikulina, E. A. (2008). Taxonomy and ribosomal DNA-based phylogeny of the *Electra crustulenta* species group (Bryozoa: Cheilostomida) with a description of *Electra moskvikvendi* sp. nov. from the Western Baltic Sea. *Organism, Diversity, Evolution* 8: 215-219.
- O'Dea, A., J. B. C. Jackson, et al. (2008). Modes of reproduction in Recent and fossil cupuladriid bryozoans. *Palaeontology* 51: 847-864.
- Ostrovsky, A. N. (2008). External versus Internal and Self- versus Cross-Fertilization in Bryozoa: transformation of the view and evolutionary considerations. *Annals of Bryozoology 2*. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 103-115.
- Ostrovsky, A. N., N. Vávra, et al. (2008). Sexual reproduction in gymnolaemate Bryozoans: history and perspectives of the research. *Annals of Bryozoology 2*. P. Wyse Jackson and

- M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 117-210.
- Ostrovsky, A. N. (2008). The parental care in cheilostome bryozoans: a historical review. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 211-245.
- Porter, J., S., J. S. Ryland, et al. (2008). One name, two species: the history behind the Linnean Zoophyte, *Alcyonium gelatinosum*. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 247-270.
- Ross, J. R. O. and C. A. Ross (2008). Two hundred years of Australian bryozoology. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 269-304.
- Santagata, S. (2008). The morphology and evolutionary significance of the ciliary fields and musculature among marine bryozoan larvae. *Journal of Morphology* 269(3): 349-364.
- Sears, M. A. B. and R. M. Woollacott (2008). Alice Robertson: educator and marine zoologist. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 305-345.
- Smith, A. M. (2008). Women in the International Bryozoology Association, 1965 to 2001. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 348-358.
- Smith, A. M., P. D. Taylor, et al. (2008). Resolution of taxonomic issues in the Horneriidae (Bryozoa: Cyclostomata). Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones, International Bryozoology Association / Trinity College: 357-411.
- Spencer Jones, M. E., J. Sanner, et al. (2008). Bryozoan exchange: Bassler and Hastings. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 413-420.
- Taylor, P. D. (2008). Late Cretaceous cheilostome bryozoans from California and Baja California. *Journal of Paleontology* 82: 823-834.
- Tolokonnikova, Z. A. (2007). New bryozoans (Bryozoa) from the upper Devonian (Lower Famennian) of the Kuznetsk basin. *Paleontological Journal* 41(5): 537-541.
- Turner, S. and J. Beattie (2008). Joan Crockford-Beattie D.Sc. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 421-425.
- Wood, Timothy S. and Michael Lore (2008). A quiet menace. *Golf Course Management Magazine* 76(6): 90-94.
- Wyse Jackson, P. N. (2008). A book from the collection of John Ellis (c. 1710-1776), naturalist, now in the library of Isaac Norris held at Dickinson College, Pennsylvania, USA. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 427-434.
- Wyse Jackson, P. N. (2008). William Lonsdale and the first thin-section of a fossil bryozoan. Annals of Bryozoology 2. P. Wyse Jackson and M. E. Spencer Jones. Dublin, International Bryozoology Association / Trinity College: 435-442.