Special Conference Issue

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Judith Winston, President
Eckart Håkansson, President-elect
Timothy S. Wood, Secretary
Abigail Smith, Treasurer
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Comments regarding this Bulletin should be addressed to the IBA Secretary:
tim.wood@wright.edu
Final Conference Information
Priska Schäfer, Conference Host

The 15th IBA conference is rapidly approaching! I want to give some final instructions how to get to Kiel and also to provide you with the conference and workshop program. In addition, city and campus map are included in this circular.

Travel to Kiel
Most of you may arrive by airplane in Hamburg (Fuhlsbüttel) on Friday, July 30, Saturday, July 31, or Sunday, August 1. If you intend to fly in to Frankfurt, you have to change airplanes and continue to Hamburg. You could also use the train from Frankfurt to Kiel, however the train would take 6-7 hours in contrast to 50 minutes for the flight. Public transfer from Hamburg Airport to Kiel (ZOB-Central Bus Terminal/Central Train Station) is by bus “KIELIUS”. At Hamburg Airport, the Bus „KIELIUS Hamburg – Neumünster – Kiel“ departs in front of the Arrival Hall. Please stay there and wait for the next bus to come every hour. The bus carries its name and destination (Kiel) on the upper front. The bus has at least one stopover (Neumünster city) however, you will just stay until the final destination, Kiel – ZOB / Central Train Station. The bus-ride Hamburg – Kiel takes 90 minutes. Taxies will be waiting at the bus terminal and in front of the train station to bring you to your hotel. The tickets are purchased in the bus. It is cheaper to by a return ticket or a combi-ticket (in the latter is the taxi included). KIELIUS is by far the most comfortable way to get from Hamburg Airport to Kiel (http://www.autokraft.de/docs/4550_beide_NEU_1.pdf).

<table>
<thead>
<tr>
<th>Departure</th>
<th>Arrival</th>
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<tbody>
<tr>
<td>Hamburg - Airport</td>
<td>Kiel – ZOB / Central Train Station</td>
</tr>
<tr>
<td>Weekdays</td>
<td>5 minutes past every full hour (8:05 …………. 0:05)</td>
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<tr>
<td>Saturday</td>
<td>5 minutes past every full hour (8:05 …………. 0:05)</td>
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<tr>
<td>Sunday</td>
<td>5 minutes past every full hour (8:05 …………. 0:05)</td>
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</table>

<table>
<thead>
<tr>
<th>Departure</th>
<th>Arrival</th>
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</thead>
<tbody>
<tr>
<td>Kiel – ZOB / Central Train Station</td>
<td>Hamburg Airport</td>
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<tr>
<td>Weekdays</td>
<td>20 minutes past every full hour (5:20 …………. 18:20)</td>
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<td>40 minutes past every full hour (19:40 …………. 21:40)</td>
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<tr>
<td>Saturday</td>
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<td>40 minutes past every full hour (19:40 …………. 21:40)</td>
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<tr>
<td>Sunday</td>
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</tr>
<tr>
<td></td>
<td>40 minutes past every full hour (19:40 …………. 21:40)</td>
</tr>
</tbody>
</table>

Those of you participating in the pre-conference field trip to Denmark/Scania guided by Eckart Håkansson fly in to Copenhagen on Sunday 25 in the morning. Meeting site will be the Geological Museum in the late afternoon. The excursion will end in Kiel on Saturday evening July 31.
Those of you participating in the post-conference field trip to West Germany / Netherlands will keep in mind that your port of departure after conference and post-conference field trip will be Frankfurt. In case you want to extend your stay in Frankfurt, contact the hotel in Frankfurt.

**Villa Diana**  
Westendstr. 83  
D-60325 Frankfurt/Main  
Tel. 0049-69-9074420  
info@villadianafrankfurt.de

**Workshops**
Three workshops will be held on Saturday, August 1

"**Bryozoa on the web**" organized by Scott Lidgard and colleagues  
"**Bryozoan geochemistry and carbonates: proxies for palaeoclimate and environment**" organized by Abigail Smith and Marcus Key  
"**Trepostomata**" organized by Andrej Ernst and Caroline Buttler

The workshop I “Bryozoa on the web” will start on Sunday morning, August 1 at 9:00 and will continue in the afternoon. The workshop is located on the university campus, EDV/PC Lab (campus map, no. 5). The two other workshops will be on Sunday afternoon from 14:00 to 17:00 and will take place in the Institute of Geosciences (campus map, no. 4 and 6).

To reach the university campus on Sunday morning, please ask at the desk of your hotel. Public city busses (61/62 and 81) run on weekdays, however, they do not run on Sundays. Therefore, it might be wise to join with colleagues in your hotel and share a taxi. On the campus, the main destinations (Audimax - lecture sessions; EDV/PC Lab - workshop I; Institute of Geosciences - workshops II, III, Ice breaker) will be indicated by signboards. Please, do not forget to take your city and campus maps with you! In case you need any special help, please do not hesitate to contact us.

**Icebreaker Party**
The Icebreaker will be on Sunday evening, August 1, from 17:00 to 20:00 in the foyer of the Geological Museum (Institute of Geosciences) or on the lawn in front of the institute depending on the actual weather (campus map, no. 4). An official reception including exhibits, wine and music will take place on Monday evening, August 2 in the Zoological Museum of Christian-Albrechts-University.

**Lecture sessions**
The lectures will be held from Monday to Friday, August 2 – 6, in the Audimax (Central Lecture Hall on University Campus; see no. 1, campus map). Lectures start at 9:00 every morning except of Monday, when the registration desk will be open as early as 8:00. This gives time to continue registration, hand in presentations (important especially for those who
have their presentation already Monday morning!), set up your posters and submit your manuscripts.

Keep in mind that we have a tight lecture program; therefore, with respect to your colleagues, please stay within the 20 min. time frame (including talk and discussion) unless otherwise indicated in the program. The lecture hall provided with a beamer for power point; a digital version (PC-version) of your talk on a stick is mostly appreciated. For those of you who may work at home with a MAC, however, we shall keep a MAC laptop as reserve.

Poster session
A special poster session will be held on Tuesday. However all posters can be visited during the entire conference. To guarantee as much attention as possible, a guided tour through the poster session is planned. A little prize for the best poster (science and layout) will be provided.

Posters should be in DIN A0 format, that is 841mm width and 1189 mm height. Materials to stick the posters will be awarded.

Manuscripts
Manuscripts must be submitted at the beginning of the conference and will be distributed among the reviewers. On the IBA conference web page you find the instructions of the publisher (Springer) and also a template, which can be used to prepare your manuscripts. Please note that Springer will typeset everything so that even the most basic of formatting is sufficient, ie:

A word file with:
- Abstract
- Indications, where which figures go
- Figures either embedded in the file or in a separate folder.

There will be no charge for colour images or high resolution photographs.

Touristic Program
For Wednesday, August 3 an afternoon-evening tour is planned to visit the Hanseatic city of Lübeck, where guided tours are offered but some of you may also stroll around in a medieval ambience by yourself. Special highlights are a visit of the marzipan factory “Niederegger” with café and store, and the “Marienkirche”. Another option is to go on a little scenic boat tour. Opportunity for a joined evening dinner is in the traditional restaurant “Schiffergesellschaft”.

A touristic program is also organized for spouses such as a one-day tour on Tuesday to visit the Viking settlement and museum Haithabu and the old residential city of Schleswig with castle, gothic cathedral and the old fishing village of the Holm. A boat trip on the Kieler Förde (Kiel fjord) with sightseeing is planned for Thursday, August 5.

Weather Forecast
After a very cold and long winter with lots of snow and ice along the coasts we are optimistic to have a nice summer with temperatures between 20° and 30°C at noon. Despite it being
August, bring along a raincoat and a warm sweater, but also some light clothing for warm or even hot days (http://www.weatheronline.co.uk/Germany.htm).

On behalf of my colleagues in Kiel and all those who help planning and organizing the conference,

I want to welcome you in Kiel,

Sincerely yours,
Priska Schäfer
## Overview of Workshops

**Sunday, August 1, 2010**

<table>
<thead>
<tr>
<th>Time</th>
<th>BRYOZOA ON THE WEB</th>
<th>Time</th>
<th>BRYOZOAN GEOCHEMISTRY</th>
<th>Time</th>
<th>TREPOSTOMATA</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Introduction</td>
<td>9:20</td>
<td>Resources on the Web I</td>
<td></td>
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<tr>
<td>9:40</td>
<td>Resources on the Web II</td>
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<tr>
<td>10:30</td>
<td><strong>Coffee Break</strong></td>
<td>10:50</td>
<td>Introduction to Scatchpad</td>
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</tr>
<tr>
<td>11:50</td>
<td>Discussion</td>
<td>12:10</td>
<td>Lunch</td>
<td>12:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:30</td>
<td><strong>Lunch</strong></td>
<td>13:30</td>
<td>ScratchPad training</td>
<td>14:00</td>
<td>1. Introduction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14:15</td>
<td>Mineralogy (Abigail Smith)</td>
<td>14:00</td>
<td>2. Morphologic characters</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1. Basic carbonate geochemistry</td>
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<td>3. Taxonomy, problems, approach for cladistics and phylogeny</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2. Trends in Invertebrate mineralogy</td>
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<td>4. Practical examination</td>
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<td></td>
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<td></td>
<td>3. Bryozoan mineralogy</td>
<td>15:30</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>5. Question time</td>
<td></td>
<td>6. Evolution at phylum and genus level</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Coffee Break</strong></td>
<td>15:30</td>
<td>Isotopes (Marcus Key)</td>
<td>15:15</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1. Range of stable/unstable isotopes</td>
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<td></td>
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<td>2. Analytical techniques</td>
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<td>3. Theory/application of oxygen isotopes</td>
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<td>4. Theory/application of carbon isotopes</td>
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<td></td>
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<td>5. Question time</td>
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<tr>
<td>16:30</td>
<td>End</td>
<td>16:30</td>
<td>End</td>
<td>17:00</td>
<td>Finish up</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Group discussion</td>
<td>17:00</td>
<td>End</td>
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</table>

### ICE BREAKER PARTY and REGISTRATION

17:00 – 20:00

IBA Conference Program, Workshops, Saturday, August 1, 2010 (University Campus)

- Workshop I „Bryozoa on the Web“: EDV/PC Lab, Otto-Hahn-Platz 1, little foot bridge across Olshausenstraße [5]
- Workshop II „Bryozoan Geochemistry“: Lecture Hall 7, Institute of Geosciences, Ludewig-Meyn-Str. 10 [6]
- Workshop III „Trepostomata“: Lecture Hall 22, Institute of Geosciences, Ludewig-Meyn-Str. 10 [6]
## Overview of Presentations

IBA Conference Program, Monday through Friday, August 2 – 6, 2010. All lectures and the poster session in the Audimax [1]

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday, August 2</th>
<th>Time</th>
<th>Tuesday, August 3</th>
<th>Time</th>
<th>Wednesday, August 4</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Business Desk</td>
<td>9:00</td>
<td>Smith &amp; Garden</td>
<td>9:00</td>
<td>Ramalho</td>
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<tr>
<td>9:00</td>
<td>Welcome</td>
<td>9:00</td>
<td>Loxton et al.</td>
<td>9:20</td>
<td>Spencer Jones</td>
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<tr>
<td>9:15</td>
<td>Waeschenbach et al.</td>
<td>9:30</td>
<td></td>
<td>9:50</td>
<td>Denisenko</td>
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<tr>
<td>9:45</td>
<td>Dick et al.</td>
<td>9:50</td>
<td>Kuklinski et al.</td>
<td>9:50</td>
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</tr>
<tr>
<td>10:05</td>
<td>Fuchs &amp; Heijnol</td>
<td>10:10</td>
<td>Bitschofsky</td>
<td>10:10</td>
<td>Rouse et al.</td>
</tr>
<tr>
<td>10:25</td>
<td>Fehlauer-Ale et al.</td>
<td>10:30</td>
<td>Coffee Break</td>
<td>10:30</td>
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<tr>
<td>10:45</td>
<td>Coffee Break</td>
<td>10:50</td>
<td>Jackson</td>
<td>10:50</td>
<td>Hirose et al.</td>
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<tr>
<td>11:10</td>
<td>Heindl et al.</td>
<td>11:30</td>
<td>Thomsen et al.</td>
<td>11:40</td>
<td>Bock &amp; Tilbrook</td>
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<tr>
<td>11:40</td>
<td>Winson et al.</td>
<td>11:50</td>
<td>Lombardi et al.</td>
<td>12:00</td>
<td>Obst et al.</td>
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<tr>
<td>12:00</td>
<td>Porter et al.</td>
<td>12:20</td>
<td>Hara et al.</td>
<td>12:20</td>
<td>Winston &amp; Hayward</td>
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<tr>
<td>12:20</td>
<td>Nesnidal et al.</td>
<td>12:40</td>
<td>Lunch</td>
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<tr>
<td>12:40</td>
<td>Lunch</td>
<td>14:00</td>
<td>Group Photograph</td>
<td>12:45</td>
<td>Lunch</td>
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<tr>
<td>14:00</td>
<td>Fuchs et al.</td>
<td>14:10</td>
<td>Viskova &amp; Koromyslova</td>
<td>14:00</td>
<td>Excursion to Lübeck</td>
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<tr>
<td>14:30</td>
<td>Gruhl</td>
<td>14:40</td>
<td>Sears &amp; Woollacott</td>
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<td>14:50</td>
<td>Okamura</td>
<td>15:00</td>
<td>d’Hondt</td>
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<tr>
<td>15:10</td>
<td>Schwaha et al.</td>
<td>15:20</td>
<td>Scholz et al.</td>
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<td>Coffee Break</td>
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<td>Coffee Break</td>
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<tr>
<td>16:00</td>
<td>Ostrovsky</td>
<td>16:00</td>
<td>Poster Session</td>
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<td>16:30</td>
<td>Davis</td>
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<td>16:50</td>
<td>Sendino &amp; Taylor</td>
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<tr>
<td>17:10</td>
<td>Schmidt</td>
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<td>17:30</td>
<td>IBA Council</td>
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<tr>
<td>19:00</td>
<td>Reception</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Thursday, August 5</th>
<th>Time</th>
<th>Friday, August 6</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Herrera et al.</td>
<td>9:00</td>
<td>El Safori</td>
</tr>
<tr>
<td>9:20</td>
<td>O’Dea et al.</td>
<td>9:20</td>
<td>Ernst</td>
</tr>
<tr>
<td>9:50</td>
<td>Lidgard &amp; Spencer Jones</td>
<td>9:50</td>
<td>Bigey</td>
</tr>
<tr>
<td>10:20</td>
<td><strong>Coffee Break</strong></td>
<td>10:10</td>
<td>Tolokonnikova</td>
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<tr>
<td>10:50</td>
<td>Vávra</td>
<td>10:30</td>
<td>Wyse Jackson et al.</td>
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<tr>
<td>11:20</td>
<td>Zágoršek</td>
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<td><strong>Coffee Break</strong></td>
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<tr>
<td>11:40</td>
<td>Cáceres Chamizo et al.</td>
<td>11:10</td>
<td>Rosso &amp; Braga</td>
</tr>
<tr>
<td>12:00</td>
<td>Berning et al.</td>
<td>11:30</td>
<td>Ryland &amp; Porter</td>
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<tr>
<td>12:20</td>
<td>Schäfer et al.</td>
<td>11:50</td>
<td>Moissette</td>
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<tr>
<td>12:40</td>
<td><strong>Lunch</strong></td>
<td>12:10</td>
<td>Wilson et al.</td>
</tr>
<tr>
<td>14:00</td>
<td>Key et al.</td>
<td>12:30</td>
<td>Hartikainen &amp; Okamura</td>
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<tr>
<td>14:20</td>
<td>Gordon</td>
<td>12:50</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>14:40</td>
<td>Wöss &amp; Novosel</td>
<td>14:20</td>
<td>Reid</td>
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<tr>
<td>15:00</td>
<td><strong>Announcements</strong></td>
<td>14:40</td>
<td>Bone &amp; Noel</td>
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<tr>
<td>15:05</td>
<td><strong>Coffee Break</strong></td>
<td>15:00</td>
<td>Hageman et al.</td>
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<tr>
<td>15:45</td>
<td>Aquarium Tour</td>
<td>15:20</td>
<td>Rosso et al.</td>
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<tr>
<td>16:00</td>
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<td>15:40</td>
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<td><strong>Coffee Break</strong></td>
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<tr>
<td>16:20</td>
<td>IBA Business</td>
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<td>17:00</td>
<td>IBA Council</td>
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<tr>
<td>19:00</td>
<td>Conference Dinner</td>
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<td>23:00</td>
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Detailed Conference Program

July 25 - 31  PRE-CONFERENCE FIELD EXCURSION

Organized by Eckart Håkansson
Start in Copenhagen (July 25, Late Afternoon)

Geologisk Museum  Danhostel Copenhagen Amager
Øster Voldgade 5  Vejlands Alle 200
1350 København K  2300 København S
End in Kiel (July 31, Evening)

Maastrichtian and Danian of Sjælland (Stevns Klint – Højerup & Rødvig, Fakse Quarry and Museum); Silurian in Scania (Bjärsjölagåd); Maastrichtian in Scania (Ivö and Ignaberga), Kristineberg Marine Biological Station; Lower Maastrichtian in Jylland (Rørdal Quarry), Lower Danium (Bulbjerg), Thisted Dome – Maastrichtian/Palaeogene Boundary (Nye Kløv, Kjølby Gård), Kælingedal, Miocene in Jylland (Gram Quarry & Museum).

Sunday, August 1  WORKSHOPS

9:00-12:00 Workshop I „Bryozoa on the Web“

EDV/PC Lab, Otto-Hahn-Platz 1, little footbridge across Olshausenstraße [5]
Organized by Scott Lidgard and colleagues

9:00 – 9:20 Bryozoans on the Web – Perspective, Historical Notes, and present State
Scott Lidgard, Philip Bock, Judy E. Winston
9:20 – 9:40 Resources on the Web Part I – Research Tools and Large-Scale Biodiversity Initiatives
Dennis P. Gordon, Joanne S. Porter
9:40 – 10:30 Resources on the Web Part II – Institutional and Individual Bryozoan Sites
Mary Spencer Jones, Adrew N. Ostrovsky, Piotr Kuklinski. Aaron O’Dea, Paul D. Taylor
10:30 – 10:50 Coffee and Tea
10:50 – 11:50 Introduction to ScratchPads and Looking Ahead
Vincent Smith, Edward Baker
11:50 – 12:10 Discussion – What Would You Like to See in a Shared Bryozoan Website?
Moderators: Scott Lidgard, Mary Spencer Jones, Vincent Smith, Edward Baker
12:10 – 13:30 Lunch at University Campus Suite, Westring [7]
13:30 – 16:30 ScratchPads Training and Bryozoans on ScratchPads – Demonstrations in small groups
Vincent Smith, Edward Baker, Scott Lidgard, Mary Spencer Jones

14:00 – 17:00 Workshop II "Bryozoan Geochemistry and Carbonates: Proxies for Palaeoclimate and Environment“

Lecture Hall 7, Institute of Geosciences, Ludewig-Meyn-Str. 10 (opposite of the museum) [4]
Organized by Abigail M. Smith and Marcus M. Key, Jr.

14:00 – 14:15 Introductions and Marcus reviews the range of geochemical techniques
14:15 – 15:15 Abby on Mineralogy
   1. Basic carbonate geochemistry
   2. Trends in invertebrate mineralogy
   3. Bryozoan mineralogy
   4. Consequences/usefulness (Ocean Acidification implications here)
   5. Question time

15:15 – 15:30 Coffee and Tea

15:30 – 16:30 Marcus on Isotopes
   1. Range of isotopes (stable and unstable) commonly used
   2. Analytical techniques and standards of stable isotopes
   3. Theory and application of carbon isotopes
   4. Theory and application of oxygen isotopes
   5. Question time

16:30 – 17:00 Group discussion (successes and disasters)
17:00 – 17:10 Finish up

14:00 – 17:00 Workshop III "Trepostomata: morphology, taxonomy, phylogeny and evolution"

Room 22, Institute of Geosciences, Ludewig-Meyn-Str. 10 (behind Lecture Hall 7) [6]
Organized by Andrej Ernst and Caroline Buttler

14:00 – 15:30
   1. Introduction – What are trepostomat es? Definition of the order, relations to other orders
   2. Morphologic characters used in trepostomate bryozoans
   3. Trepostomate taxonomy, problems and approach for cladistics and phylogeny

15:30 – 15:45 Coffee and Tea

15:45 – 17:00
   4. Practical – examination of specimens
   5. Diversity – radiations and extinctions
   6. Evolution at phylum and genus level
   7. Palaeoecology

17:00 – 20:00 ICE BREAKER and REGISTRATION

Institute of Geosciences, Ludewig-Meyn-Str. 10, in front of the museum and/or outside the institute on the lawn (depending on the actual weather) [4]

Monday, August 2
Morning

8:00 – 9:00 IBA
   Business Desk (settle accounts) – Audimax, Lobby [1]
   Poster Set Up
   Submission of Manuscripts – Andrej Ernst & Joachim Scholz

Welcome and Introduction – Audimax, Lecture Hall G [1]

9:00
   Priska Schäfer, 15th IBA Conference Host
   Thomsa Bosch, Vice president of Christian-Albrechts-University
   Judy E. Winston, President of the IBA

All lecture sessions from Monday to Friday in the Audimax, University campus

Molecular Genetics and Phylogeny
9:15 Andrea Waeschenbach, Paul D. Taylor, Joanne S. Porter, D.T.J. Littlewood
A date-calibrated phylogeny of Bryozoa

9:45 Matthew H. Dick, Masato Hirose, Shunsuke F. Mawatari
Molecular phylogeny of the calloporid bryozoan genus Cauloramphus

10:05 Judith Fuchs and Andreas Hejnol
Gene expression patterns in Bryozoa: common bilaterian body plan formation
genomes in larval Bugula neritina

10:25 Karin Hoch Fehlauer-Ale and Alvaro Esteves Migotto
Alien species Bugula neritina (Cheilostomata: Bugulidae) from South Atlantic
Brazilian waters: first evidence, new genetic markers

10:45 Coffee and Tea
Submission of Manuscripts – Andrej Ernst and Joachim Scholz

11:10 Herwig Heindl, Jutta Wiese, Johannes F. Imhoff
Marine bryozoan-associated microorganisms: antibiotic properties and
phylogenetic classification

11:40 Michael K. Winson, Heather P. Moore, Joanne S. Porter
Association of Bacteria with larvae of marine Bryozoa

12:00 Joanne S. Porter, S. Cocito, Chiara Lombardi, Maja Novosel, Mary Spencer
Jones, Andrea Waeschenbach
A phylogeographic study of the genus Pentapora (Bryozoa: Cheilostomata) in
North West Europe and the Mediterranean

12:20 Maximilian P. Nesnidal, Martin Helmkampf, Iris Buchhaus, Bernhard
Hausdorf
Phylogenetic relationships of the lophophorate lineages, Ectoprocta,
Brachiopoda and Phoronida, based on genomic data

12:40 Lunch – Mensa am Westring, University Campus [2]

Monday, August 2
Afternoon

14:00 Judith Fuchs, Tohru Iseto, Mamiko Hirose, Per Sundberg, Matthias Obst
The enigmatic Entoprocta (Kamptozoa) – The first internal molecular
phylogeny of the phylum and discussion of their position within
Lophotrochozoa

Life History / Reproduction Biology / Anatomy

14:30 Alexander Gruhl
Occurrence and identity of “white spots” in Phylactolaemata

14:50 Beth Okamura
The demography of Cristatella mucedo

15:10 Thomas Schwaha and Andreas Wanninger
Ectoproct muscle system and their significance for phylogenetic
considerations

15:30 Coffee and Tea
16:00 Andrew N. Ostrovsky
Extraembryonic nutrition and placental analogues in cheilostome Bryozoa

16:30 Christine Davis
Some aspects on the life history of a marine fouling bryozoan, Bugula flabellata (Thompson in Gray, 1848) in the New Zealand environment

16:50 Consuelo Sendino, Paul D. Taylor
Symbiosis between conulariids and a bryozoan in the Silurian of Indiana

17:10 Rolf Schmidt
High resolution non-destructive imaging techniques for internal fine structure of bryozoans

Announcements – Priska Schäfer

19:00 - 21:30 Reception – Zoological Museum, Hedewischstr. 3 (see city map)
Wolfgang Dreyer, Head of the Zoological Museum
Thomas Bosch, Vice President and Director of Zoology Department (Evolutionary Biology)
Visit of exhibits, wine and music

Tuesday, August 3
Morning

Climate Response

9:00 Abigail M. Smith and Christopher J. Garden
Being a bimineral bryozoan in an acidifying ocean

9:30 Jennifer Loxton, Piotr Kuklinski, J. Mair, Joanne S. Porter, Mary Spencer Jones
Comparison of polar bryozoan skeletal mineralogy as an indicator of climate change impact

9:50 Piotr Kuklinski, A. Sokolowski, M. Ziolkowska, P. Balazy, Maja Novosel, David K. A. Barnes
Growth ratio of selected sheet-like bryozoan colonies along a latitudinal transect

10.10 Franziska Bitschofsky
Bryozoans as indicators for oceanographic and climatic change in the North Sea

10:30 Coffee and Tea

Key Note Lecture

10:50 Jeremy B. C. Jackson
The Future of the Oceans Past

Climate Response
Natural p\textsubscript{CO}_2 variability in the Western Baltic Sea and its impact on marine invertebrates

Growth and morphology of the Mediterranean bryozoan Calpensia nobilis (Esper, 1796) transplanted into an area of natural volcanic CO\textsubscript{2} vents

Geochemistry and mineralogy of bryozoan skeletons from the Admiralty Bay (South Shetland Islands), Antarctica: a preliminary account

Lunch – Mensa am Westring, University Campus [2]
9:50  Nina V. Denisenko  
History of research and current state of bryozoan diversity in the East Siberian Sea

Faunistic Studies

10:10  Sally Rouse, Joanne S. Porter, Mary E. Spencer Jones  
Bryozoan biodiversity in Scotland

10:30  Coffee and Tea

10:50  Masato Hirose, Joachim Scholz, Shunsuke F. Mawatari, Matthew H. Dick  
Cheilostome Bryozoa from Sagami Bay: diversity and faunal changes over the past 130 years

11:20  Paul D. Taylor, Matthew H. Dick, Di Clements, Shunsuke F. Mawatari  
A diverse bryozoan fauna from Pleistocene marine gravels at Kuromatsunai, Hokkaido, Japan

11:40  Philip E. Bock, Kevin J. Tilbrook  
Bryozoan diversity of coral reefs in Australia sampled by CReefs – preliminary results

12:00  Matthias Obst, Judith Fuchs, Per Sundberg  
An inventory of marine bryozoans in Sweden – Results from the Pandalina expedition

12:20  Judith E. Winston, P. J. Hayward  
Bryozoans of the Northeast coast of the United States: Maine to Virginia

Announcements – Priska Schäfer

12:45  Lunch, Mensa am Westring, University campus [2]

14:00 – 23:00  Bus Excursion to the Hanseatic city of Lübeck including guided tour, visit of historic places and evening dinner at Restaurant “Schiffergesellschaft”

The busses are leaving in front of the blue university building off Audimax

Thursday, August 5  
Morning

Evolutionary Patterns

9:00  Amalia Herrera-Cubilla, Felix Rodriguez, Aaron O’Dea, Jeremy B. C. Jackson  
Phylogeny of the Genus Cupuladria (Bryozoa: Cheilostomata) in the Neogene of tropical America

9:20  Aaron O’Dea, Walton A. Green, Jeremy B. C. Jackson  
Niche breadth in Caribbean cupuladriid bryozoans through the Neogene

9:50  Scott Lidgard, Mary E. Spencer Jones  
Darwin on bryozoan polymorphism

10:20  Coffee and Tea
Faunistic Studies and Zoogeography

10:50 Norbert Vávra
Response of Early Miocene bryozoans to seaway connections and climatic changes: some possible generalizations

11:20 Kamil Zágoršek
Development of Miocene bryozoans in a North-South transect through the Paratethys

11:40 Julia P. Cáceres Chamizo, Andrew N. Ostrovsky, Norbert Vávra
Preliminary comparison of bryozoan collections from the Northern Indian Ocean and the Red Sea

12:00 Björn Berning, Jean-George Harmelin, Beate Bader
A preliminary assessment of the biodiversity, biogeography and evolution of cheilostome Bryozoa on NE Atlantic seamounts

12:20 Priska Schäfer, Amalia Herrera-Cubilla, Beate Bader
Distribution and zoogeography of cheilostomate Bryozoa along the Pacific coast of Panama: Gulf of Panama vs. Gulf of Chiriqui

12:40 Lunch, Mensa am Westring, University campus [2]

Thursday, August 5
Afternoon

Bryozoan Ecology

14:00 Marcus M. Key, Jr., Joel B. Knauff, David K. A. Barnes
If you can’t beat them, join them: epizoic bryozoans on predatory pycnogonids from the South Orkney Islands, Antarctica

14:20 Dennis P. Gordon
Life on the edge – Parachnoidea (Ctenostomata) and Barentsia (Kamptozoa) on giant vent mussels from an active submarine volcano, Kermadec volcanic arc

14:40 Emmy Wöss, Maja Novosel
Krka River (Croatia): Case study of bryozoan settlement from source to estuary

Announcements - Priska Schäfer

15:05 Coffee and Tea

15:45 Guided tour through the Aquarium and associated facilities at the Institut für Meereskunde-Geomar (Leibniz Institute of Marine Sciences), entrance from Hindenburgufer (water front) (see city map)

19:00 – 23:00 Conference Dinner
HOTEL MARITIM BELLEVUE Kiel, Bismarckallee 2 (Düsternbrook) (see city map)
Faunas and Evolutionary Patterns

9:00    Yasser A. El Safori  
First record of Jurassic Bryozoa from Egypt, Gebel Maghara area, North Sinai

9:20    Andrej Ernst  
Palaeobiogeography, diversity dynamics and evolution of Devonian Bryozoa

9:50    Françoise P. Bigey  
Givetian Bryozoa: an overview

10:10   Zoya A. Tolokonnikova  
Early Carboniferous bryozoans from Southern Trans-Ural (Russia)

10:30   Patrick Wyse Jackson, Andrej Ernst and Frank K. McKinney  
Cyclozooecia in fenestrate bryozoans: a taxonomic conundrum

10:50   Coffee and Tea

Faunas and Taxonomic Revisions

11:10   Antonietta Rosso, Giampietro Braga  
The genus *Sparisiporina* d’Orbigny, 1852 (Bryozoa) in the Cenozoic of Europe with description of a new species

11:30   John S. Ryland, Joanne S. Porter  
Species of *Alcyonidium* (Ctenostomatida) from the Pacific Coast of North America, with clarification of *A. parasiticum* (Fleming)

Bryozoan ecology and Sediment Interactions

11:50   Pierre Moissette  
Seagrass-associated bryozoan communities from the Late Pliocene of the Island of Rhodes (Greece)

12:10   Mark A. Wilson, Paul D. Taylor, John Sime  
Paleoecology, preservation and taxonomy of encrusting ctenostome bryozoans inhabiting ammonite body chambers in the Late Cretaceous Pierre Shale of Wyoming and South Dakota, USA

12:30   Hanna Hartikainen, Beth Okamura  
Effects of turbidity on survival and growth of the phylactolaemate *Fredericella sultana*

12:50   Lunch, Mensa am Westring, University campus

Bryozoan Taphonomy

14:20   Catherine Reid  
Large sediment encrusting trepostome bryozoans from glaciomarine Permian rocks of Tasmania, Australia

14:40   Yvonne Bone, Noel James
Cenozoic bryozoan classification tables for sedimentologists and taxonomists

15:00

**Steven J. Hageman, Frank K. McKinney, Andrej Jaklin**
Testing microhabitat complexity as a control over bryozoan colonial growth form and species distributions: A case study from the modern, eastern Adriatic Sea

15:20

**Antonietta Rosso, Emanuela Di Martino, Michele Vagliasindi**
Bryozoan communities and thanatocoenoses from submarine caves in the Plemmirio Marine Protected Area (SE Sicily)

15:40

**Announcements – Priska Schäfer**
One-day and post-conference field excursions

16:00

**Coffee and Tea**

16:20

**IBA Business Meeting** – Audimax, Lecture Hall G [1]

17:00

**IBA Council Meeting** – Audimax, Lecture Hall G [1]

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**Saturday, August 7**

**ONE-DAY EXCURSIONS**

8:00 – 12:00

**Dredge-Tour I with RV “Littorina”**
Organized by **Elena Nikulina**
Start from the peer of “Institut für Meereskunde” opposite the aquarium; Sorting of dredged material in the lab of the Institute of Geosciences, University campus [6].

12:00 – 16:00

**Dredge-Tour II with RV “Littorina”**
Organized by **Elena Nikulina**
Start from the peer of “Institut für Meereskunde” opposite the aquarium; Sorting of dredged material in the lab of the Institute of Geosciences, University campus [6].

8:00 – 17:00

**Field Excursion to Lägerdorf / Kronsmoor (Itzehoe)**
Organized by **Sven Nielsen and Björn Berning**
Start in front of blue University building opposite Audimax
Visit to Upper Campanian to Lower Maastrichtian Chalk facies Northwest of Hamburg

8:00 – 21:00

**Field Excursion to the North Sea Tidal-Flat Ecosystem**
Organized by **Priska Schäfer**
Start in front of blue University building opposite Audimax
Bus ride from Kiel to Stapelholm, overview of the Schleswig-Holstein landscape formed during the Late Quaternary; visit to the Multimar Watt Forum in Tönning, visit to the old fishing town including lunch, drive to Westerhever, walk across the salt marsh and tidal flat and study of this unique ecosystem.
August 8 -14  POST CONFERENCE FIELD EXCURSION

Organized by Andrej Ernst and Priska Schäfer; invited guides John Jagt, Jan Bohatý and Kirsten Grimm

Departure on Sunday, August 8 at 7:45 from Kiel train station; travel by train from Kiel to Köln (Cologne).

Visit to Cologne Cathedral; bus ride from Cologne to Maastricht (Netherlands); visit to Natural History Museum in Maastricht, bryozoan collections; quarries around Maastricht with Maastrichtian tuff chalk (E.N.C.I.) and K/Pg boundary sections (Geulhemmerberg). Busride from Maastricht to Blankenheim; visit to various mid-Devonian outcrops in the Eifel synclinorium (Middle Devonian) containing a rich bryozoan fauna. Ship tour on the river Rhine from Boppard to Bacharach; fossil-rich Tertiary outcrops in the Mainz Tertiary basin. Visit to Natural History Museum in Mainz; visit to Messel quarry (UNESCO World Heritage natural site). Visit to the Senckenberg Museum, Frankfurt.

End of the trip on Saturday, August 14, in Frankfurt/Main.

POSTER PRESENTATIONS


Franziska Bitschofsky, Joachim Scholz, Stefan Forster: The epizoobiontic bryozoan community of Flustra foliacea in the Southern and Northern North Sea Basin; Keystone species.

Heidi Blaschek, Priska Schäfer, Helena Fortunato: Impact of ocean acidification on the bryozoan Flustra foliacea (L.) – a geochemical approach.

Mônica Botter-Carvalho, Lais V. Ramalho: Some bryozoans from Fernando de Noronha, Brazil.

Andrej Ernst, Caroline Buttler: Lower Devonian (Emsian) cystoporat bryozoan fauna from Northwestern Spain.

Roger J. Cuffey, Zhu Zongde, Nils Spjeldnaes (late), Hu Zhao-Xun (late): The oldest-known bryozoan reefs (Yichang, central China; Late Tremadocian, mid-early Ordovician), and comparison with the next-oldest (Garden Island, New York/Vermont; basal Chazyan, early middle Ordovician).

Andrej Ernst, Hans Arne Nakrem: Stenolaemate bryozoans from the Mjøla Formation (Late Ordovician, Katian) of Helgøya (Bergevika), southern Norway.

Karin Hoch Fehlauer-Ale, Leandro M. Vieira, Judith E. Winston: Molecular and morphological characterization of species of Amathia Lamouroux, 1812 (Ctenostomata: Vesiculariidae) from Brazilian coast.

Blanca Figuerola, Manuel Ballesteros, Conxita Ávila: Description of a new species of Reteporella from the Weddell Sea (Antarctica).

Helena Fortunato, Priska Schäfer: Growth and calcification levels of Flustra foliacea (L.) (Bryozoa) under changing ocean pH.

Andrei V. Grischenko, Daniela Henkel, Anton Kearsly, Joachim Scholz, Mary E. Spencer Jones: Celleporina porosissima (Harmer): The surface of a bryozoan comes to life.

Alexander Gruhl, Beth Okamura: Muscular architecture of Buddenbrockia plumatellae and its significance for the phylogenetic position of Myxozoa.


Karin Hoch Fehlauer-Ale, Leandro M. Vieira, Judith E. Winston: Molecular and morphological characterization of species of Amathia Lamouroux, 1812 (Ctenostomata: Vesiculariidae) from Brazilian coast.

Helen L. Jenkins, Roger N. Hughes, Beth Okamura, John D.D. Bishop: Polyembryony, brood chamber development and sperm utilization in cyclostome bryozoans.
Anton Kearsly, Andrei V. Grischenko, Mary E. Spencer Jones, Joachim Scholz: *Celleporina irregularum* (Okada): Encounter in the third dimension.

M. Kobetić, Maja Novosel: Fauna associated with the giant colonies of the bryozoan *Pentapora fascialis* in the Adriatic Sea.

Anna V. Koromyslova: The paleogeography of the oldest bryozoans.

Grace Lim-Fong, Amanda Santoni: Co-existence of two *Bugula neritina* haplotypes along the Eastern mid-Atlantic coast.

Carlos M. López-Fé: Distribution of cheilostome Bryozoa around Livingston Island (South Shetland Islands, Antarctica).

Elena Nikulina and Hans de Blauwe: Genetic study conforms the species status of *Electra verticillata* Ellis and Solander, 1768.

Elena Nikulina, Priska Schäfer: Testing the basal position of the recent electrids in the phylogenetic tree of cheilostome bryozoans.

Elena Nikulina, Andrew N. Ostrowsky, Micel Claereboudt: New species of the genus *Electra* (Bryozoa: Cheilostomata) from the Southern Oman.

Aaron O’Dea, Felix Rodriguez, Brigida de Gracia, Yadixa del Valle, Jeremy B.C. Jackson: Sex in the Caribbean: environmental change drove evolution in cupuladrid bryozoans.

Joanne S. Porter, Abigail M. Smith, Hamish Spencer: Phylogeography of the freshwater ctenostome bryozoan *Paludicella articulata*; New Zealand endemic or invader?

Lais V. Ramalho, Flávia T. Santana: Bryozoans from Abrolhos Archipelago, Bahia, Brazil.

Priska Schäfer, Joachim Scholz: Erhard Voigt’s (1959) Revision of the Maastrichtian bryozoan fauna originally described by F. V. Hagenow 1839 – 1850.


Consuelo Sendino, Paul D. Taylor: Charls Lyell’s collections of fossil bryozoans from Gran Canaria.

Abigail M. Smith, Paul D. Taylor, Rory Milne: *Hornera striata* Milne Edwards, 1838, a British Pliocene cyclostome falsely recorded in New Zealand, with a preliminary revision of *Hornera* from the Coralline Crag.


Facelúcia B.B. Souza, Leandro M. Vieira: The first record of the family Hiantoporidae Gregory, 1893 (Bryozoa) in Atlantic waters.

Michael S. Toma, Ernest H. Gilmour: A new Kungurian dyscritellid from the Kaibab Limestone of southern Nevada, U.S.A.

Leandro M. Vieira, Alvaro E. Migotto, Judith E. Winston: The genus *Scrupocellaria* van Beneden (Bryozoa) from Brazil: an evaluation of morphological characters and taxonomic implications.

Emmy R. Wöss, Kamil Zágoršek: First Plumatellid bryozoans from the island of Borneo (Kalimantan, Indonesia).

Thamasak Yeemin, Wanlaya Klinthong, Chaipichit Saenghaisuk, Sittiporn Pengsakun, Kanwara Saengmanee, Watcharachai Donsomjit, Makamas Sutthacheep: Recruitment of bryozoans on artificial substrates in a coral reef of Koh Phi Phi, the Andaman Sea.
University campus map

1) Audimax: lecture hall
2) Mensa / Cash point
3) Geosciences department
4) Ice breaker: Museum
5) Workshop 1
6) Workshops 2 & 3
7) Campus Suite (cafeteria)

Closest restaurants:
- ObiMow
- Frizz

Bus Stops
News from the Membership

Giampietro Braga. There is in print a paper of "The updating Bibliography on Living and Fossil Bryozoa". I will bring copies to the Kiel Conference for the attending members. Best wishes.

Andrew Ostrovsky. After three months of the intense teaching in Russia, I will return to the University of Vienna since I managed to obtain a 3-years grant of the Austrian Science Foundation. The title of the project is "Evolution of matrotrophy and placental analogues in Bryozoa", and it will start from the 1st of July, 2010. What is the most important that this grant includes the PhD-studentship for Thomas Schwaha, who is well-known to the IBA-ers - participants of the last two Larwood meetings.

We made three application attempts, and I had already begun to think about another application, but, luckily, the third try was successful. Clearly, it would not have been possible without a little help from our friends, and we are deeply thankful to all who supported us in this way, checked and commented on various versions of the proposal, sent letters of cooperation, discussed current situation, etc, etc, etc.

The previous project, headed by Norbert Vavra and dealing with recent and fossil cheilostome taxonomy of the Indian Ocean and Parathetis correspondingly, was extended for one more year, helping us to support Julia Caceres. Julia has spent a lot of time identifying recent cheilostomes, and will present the results in Kiel.

One more thing is that my Russian monograph, *Evolution of the sexual reproduction in the bryozoan order Cheilostomata*, has been recently published in 300 copies by the Publishing House of the St Petersburg State University. It has 403 pages and includes 105 line drawings and photoplates (also with the sections of the different ovicell types). I will present this book during the conference. Next step is to translate it and publish in English. However, if someone wants to have the Russian copy, please contact me and I will try to take some copies to Kiel.

Dra. Laís V. Ramalho wishes to inform members of the IBA that her email address will be only *laiscanabarro@yahoo.com.br*. The other email (*laiscs@uol.com.br*) will be canceled in August.
New Members

Anna Koromyslova.
I work for the Borissiak Paleontological Institute of the Russian Academy of Science, Moscow. Since 2002 I have studied bryozoans from the Ordovician of the Leningrad Region, and I published four articles and abstracts on this theme. My work was led by R. V. Gorjunova and A. S. Alekseev (full professor of Moscow State Univ.). Now I am preparing to publish the monograph, “The bryozoans from the Latorp and Volkov regional stages (Lower – Middle Ordovician) of the St-Petersburg Region.” Also, I am studying the bryozoans from the Miocene of the Taman peninsula at present under the guidance of Lena Viskova. Below is the list of my publications:


Dr Karin Hoch Fehlauer-Ale (CEBIMar-USP; Brazil)
I am working on two parallel bryozoan projects, which preliminary results shall be presented in Kiel. The first is related to the identification of species of Amathia occurring in Brazilian waters (A. brasilensis, A. convoluta, A. distans and A. vidovici), accessed by means of molecular and morphological data. Judy Winston and Leandro Vieira are cooperating with me, in what concerns the morphological descriptions and achievement of specimens in Brazilian and North American seas. The other project aims the investigation of the invasion patterns of one lineage of Bugula neritina, previously detected by other colleagues around the world. For this, I am looking for distinct molecular markers, rather than the popular 600 bp fragment of the mitochondrial gene cox1, that might provide me with additional information. I already have sequence data for 1388 bp of cox1, as well as 500bp of the mitochondrial gene 16S. Once again, Judy and Leandro kindly collected material from USA and Brazil for this work. Besides, in a couple of weeks I will visit Andrea Waeschenbach at the NHM of London, where we will try to obtain nuclear sequence data for B. neritina. I would appreciate very much if other colleagues could cooperate with this project, by sending to me tissues of A. convoluta, A. distans, A. vidovici and/or B. neritina from different localities. My email address is: fehlauer.ale@gmail.com. Best wishes!
Noga Sokolover.
I am a PhD student in the Zoology department at Tel-Aviv university, Israel under the supervision of Prof. Micha Ilan (sponge guy). My study focuses on the bryozoan biodiversity along the Israeli coast of the Mediterranean as the last works on Bryozoa in Israel dates back to the 70’s of the last century. Since there is no Bryozoa expert in Israel, Dr. Paul Taylor was gracious enough to invite and host me at the NHM-London. During the two weeks visit I was lucky not only to learn about the taxonomy of these beautiful and diverse organisms but also to meet other bryozoologists mainly Andrea Waeschenbach, Chiara Lombardi and Mary Spencer Jones who showed me different aspects of Bryozoa research.

Annals of Bryozology 3: Call for Papers

Patrick Wyse Jackson <wysjcknp@tcd.ie> and Mary Spencer Jones <m.spencer-jones@nhm.ac.uk> are planning to publish the next Annals of Bryozology volume by Christmas 2010. This will be distributed to all delegates that attended the Kiel meeting, and will also be available for purchase by other non-attending members.

We would be delighted to receive offers of papers on any aspect of the history of bryozoology such as biographical studies, oceanographic voyages, history of collections, studies in geographical regions, or histories of studies in particular countries. Please contact Patrick and Mary if you want to discuss the scope of any potential paper. There is no restriction on length or numbers of images.

Manuscripts should be submitted electronically by 1 October (Text in MSWord (.doc not .docx)); photographs and half-tones in TIFF format at 300 dpi; black and white diagrams as BITMAPS at 300 dpi). Layout will be as in previous Annals volumes.

Annals of Bryozology 1 and Annals of Bryozology 2

Copies of both of these volumes are still available. Please contact Patrick Wyse Jackson <wysjcknp@tcd.ie> if you are interested in obtaining copies.

This guide identifies, classifies, and describes more than 450 species of marine animals inhabiting the Chilean Fjord Region. The chapter on bryozoans was written by Hugo Moyano G. Introductory chapters include geography, oceanography, and ecology of the region as well as protocols for collecting and preserving marine animals. This is followed by chapters on major phyla: spongias, cnidarians, polyclads, nemerteans, sipunculids, echiurans, molluscs, polychaetes, arthropods, bryozoans, echinoderms, and chordates.

Here is additional information from a promotional leaflet:

**A work that sets standards:**
- Based on material sampled during 10 years including 9 expeditions
- More than 450 selected species from 13 phyla and 29 classes
- 49 newly discovered species
- 1000 pages with more than 2000 images and illustrations (excellent underwater photos, aquaria photos, microscope images, detail and schematic drawings)
- Summarizing the available literature including primary literature of difficult access
- Elaborated by 49 taxonomic specialists of international reputation from 26 institutions in 14 countries

**The taxonomic section contains:**
- Introduction to each taxonomic group with explanation of the relevant characteristics
- Detailed instructions for collection, preservation and examination of specimens
- State of the knowledge about each taxon for Chile including a complete species list
- Identification keys for 14 taxa
- Detailed but concise descriptions of the species; combining traditional characteristics for identification in the laboratory and additional characteristics to facilitate identification in the field
- Glossaries for each chapter
- Each chapter with bibliography of relevant literature

**Background information:**
- Introductory chapters on geography, geology, oceanography, and fjord ecology

For price and order information please visit http://www.patagoniamarina.info
Further questions about the book? Contact us at PatagoniaMarina@yahoo.com
Upcoming Meetings and Conferences

**Bryozoa**

International Bryozoology Association  
2-6 August 2010, Kiel, Germany  
[www.ifg.uni-kiel.de/iba2010/](http://www.ifg.uni-kiel.de/iba2010/)

**Paleontology**

American Geophysical Union  
2010 Fall Meeting  
([http://www.agu.org/meetings/fm10/](http://www.agu.org/meetings/fm10/))

American Geophysical Union  
2010 Meetings of the America  
8-13 August, 2010, Iguassu Falls, Brazil  
[http://www.agu.org/meetings/ia10/](http://www.agu.org/meetings/ia10/)

The Palaeontological Association  
54th Annual Meeting 2010, Ghent  
17-20 December 2010, Ghent  

Tenth North American Paleontological Convention  
Summer, 2013, (Venue not yet announced)

Geological Society of America Annual Meeting  
31 October – 3 November 2010, Denver, Colorado USA  

**Biology**

Aquatic Invasive Species, 17th International Conference,  
29 August – 2 September 2010, San Diego, CA USA  
[http://www.icais.org/pdf/1st_annce_17th.pdf](http://www.icais.org/pdf/1st_annce_17th.pdf)

12th International Coral Reef Symposium  
June or July, 2012, Australia.  

Ecological Society of America  
1-6 August 2010, Pittsburgh, Pennsylvania
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.


