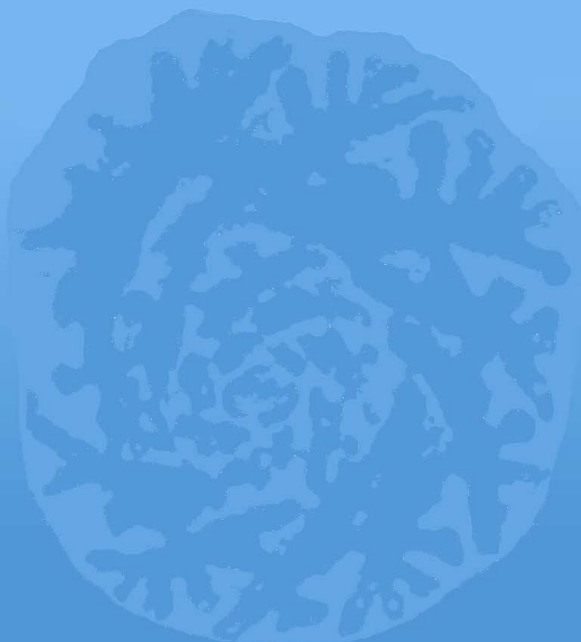


# **Newsletter of Micropalaeontology**

Number 89  
January 2014

Edited by Claudia Ceteau



# ***Contributions from***

The Micropalaeontological Society



The Grzybowski Foundation



The International Nannoplankton Association



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Correspondence

Please send items of news, comments, letters or articles for publication such as conference reports or meeting announcements to the editor. These should be supplied as plain text files or as Word documents. Photographs or illustrations to accompany articles are also welcome. Please send photos as high resolution JPEG images. Please send all correspondence to the editor: Claudia Cetean, Robertson Ltd. (UK), Tyn y Coed, Llandudno, North Wales LL30 1SA, UK, or by email to newsletter@tmsoc.org.

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# Conference and Course Announcements

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## **TMS Forum - Nannofossil Spring meeting 25 - 28 June 2014 Texel, the Netherlands**



**Theme:**  
**Foraminifera and nannofossils  
through time;  
qualification and quantification**



### **Organizing committee:**

Prof. Dr. G.-J.A. Brummer, Dr. C. Cleroux, Dr. L. de Nooijer, Dr. G.-J. Reichart,  
Dr. G.M. Ganssen, Dr. F.J.C. Peeters, Dr. E. Ulfkes





The Micropalaeontological Society  
Foraminifera and Nannofossil Groups  
Spring Meeting 2014

22<sup>nd</sup> - 25<sup>th</sup> of June, 2014  
Texel, the Netherlands



The Micropalaeontological Society is pleased to announce that the 2014 spring meeting of its Foraminifera and Nannofossil Groups will be hosted by the VU University of Amsterdam and the Royal Netherlands Institute for Sea Research at Texel, the Netherlands.

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### Scientific Programme

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The meeting will consist of two days of oral presentations and poster sessions. The theme of the meeting is:

#### Foraminifera and Nannofossils through time: qualification and quantification.

The meeting is open to all foraminiferal and nannofossil researchers and students to present their results on any aspect of ecology, morphometrics, evolution, genetics- and morphology- based taxonomy, biomineralization, carbonate geochemistry, biostratigraphy and paleoclimatological applications of carbonate microfossils.

Following the tradition established at earlier meetings, the priority will be to facilitate the presentation of results by students and junior researchers. The technical sessions will be followed by a one-day field trip to the UNESCO world heritage site the 'Wadden Sea', a large backbarrier system encompassing an intertidal zone forming a unique and highly diverse ecosystem.

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### Social events

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Sunday 22 <sup>nd</sup> of June, 17.00 - 20.00:	Icebreaker Party at the beach
Monday 23 <sup>rd</sup> of June:	Conference Dinner
Wednesday 25 <sup>th</sup> of June:	Field trip UNESCO world heritage site the 'Wadden Sea'

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### Registration and conference fees

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Meeting fees (includes abstract volume, lunch, coffee and tea for both conference days) are:

Student (BSc, MSc, PhD), TMS member:	€ 30.00	Registration, payment and abstract submission should be done before the 1st of April, 2014. Please provide your full name, affiliation and abstract in an email to: <a href="mailto:tms2014texel@gmail.com">tms2014texel@gmail.com</a> .
Student, non-TMS member:	€ 40.00	
Regular, TMS member:	€ 55.00	
Regular, non-TMS member:	€ 65.00	
Conference dinner:	€ 30.00	
Field trip:	€ 30.00	

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### Transport and accommodation

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The island of Texel is located in the northwest of The Netherlands. It can be reached by ferry from the town of Den Helder. Trains from Amsterdam Airport to Den Helder run regularly and take approximately 1.5 hours. The ferry ride is 30 minutes after which the NIOZ can be reached by foot within 5 minutes. The island has numerous accommodation possibilities, of which several are listed on the meeting's website.

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### Important dates

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February 2014:	Second circular
1 <sup>st</sup> of April 2014:	Deadline for registration, payment and abstract submission
May 2014:	Third circular with definitive meeting programme
22 <sup>nd</sup> -25 <sup>th</sup> of June 2014:	TMS Forum-Nanno spring meeting

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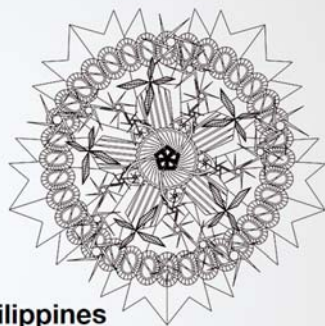
### Organising committee


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Dr Els Ufkes, VU University of Amsterdam  
Dr Frank Peeters, VU University of Amsterdam  
Dr Gert-Jan Reichart, Royal NIOZ / Utrecht University  
Dr Lennart de Nooljer, Royal NIOZ  
Prof. Dr Geert-Jan Brummer, Royal NIOZ / VU Univ Amsterdam  
TMS Foraminifera- and Nannofossil Groups

Website: [www.tmsoc.org/foram-nanno2014](http://www.tmsoc.org/foram-nanno2014)  
Email: [tms2014texel@gmail.com](mailto:tms2014texel@gmail.com)

# 15<sup>th</sup> INTERNATIONAL NANNOPLANKTON ASSOCIATION MEETING



March 7-16, 2015  Bohol Island, Philippines

Pre-Conference Fieldtrip March 7-8, 2015 · Bohol Island  
Post-Conference Fieldtrip March 14-16 2015 · Palawan Island

For inquiries, please contact the organizers at [ina15philippines@gmail.com](mailto:ina15philippines@gmail.com)

## Meeting of Asian Ostracodologists Seoul 23-27 June 2014

We would like to invite you to the first Meeting of Asian Ostracodologists. It will be held at Hanyang University, Seoul Campus, from 23-27 June 2014.

Our plan is to have a two-day workshop (23 & 24) and three days for talks and poster session.

This is a wonderful opportunity for all who work on the Asian ostracod fauna, living or fossil, to meet this summer in Seoul, exchange ideas, start new collaborations, and have a nice time.

The workshop will mostly be organized for new researchers who would like to learn basics of ostracodology, but we also think that this is an ideal time to exchange material and help each other with difficult ostracods.

More details will be announced towards the end of February, but we would like to encourage you to send us an e-mail, expressing your interest in the workshop and/or meeting. We are open to suggestions and would appreciate if you circulate this info.

Prof. Ivana Karanovic (Hanyang University) Prof. Cheon Young Chang (Daegu University)

E-mail: [ivana.karanovic@utas.edu.au](mailto:ivana.karanovic@utas.edu.au)



# ***Nanno News - updates from the TMS Nannofossil Group and the INA***

**Matt Hampton, Simon Cole, Jeremy Young**

## **INA14, RESTON, VIRGINIA**

Since the last newsletter the nannoplankton community has held its 14<sup>th</sup> bi-annual conference (INA14) in Reston, Virginia, hosted by Jean Self-Trail of the USGS. The meeting was held in a conference hotel near the main USGS base with workshops in the USGS. Reston is just outside Washington DC so we were able to go downtown to admire the White House and visit the amazing set of Smithsonian Museums. Reston is also located close to some beautiful and historic parts of the USA, which we got to explore a bit. We had a one day pre-conference field trip to the Culpeper Basin visiting Devonian sediments in Civil War battlefields with a bit of wine tasting thrown in. Halfway through the conference we were taken out into the country for the conference dinner which was held on a vineyard with views of the Blue Ridge Mountains. Finally the post-conference field trip was a two day excursion to Chesapeake Bay lead by David Powars, a splendidly knowledgeable and talkative field geologist from the USGS, who showed some us fabulous Paleocene-Eocene successions along the beautiful if slightly inaccessible banks of the Potomac River and Chesapeake Bay. These have yielded wonderful faunas of molluscs, fish, nannofossils (see Jean's

paper in the JNR - online from INA website) - and *shark's teeth* which really did excite the fossil collecting instincts of the participants.

In between the sightseeing and fieldwork we had a hugely successful scientific conference as illustrated by the stats below:

1. 135 attendees from 28 different countries.
2. 40 students - half of whom received student aid in one form or another.
3. Approximately 35% of attendees were either from oil companies or consulting companies; 4% were government representatives; the rest were from academia.
4. There were 117 presentations; 65% were oral presentations and 35% were poster presentations.
5. The program included 4 full days of talks and posters, 2 field trips, one day of workshops and the conference dinner in a nearby vineyard!
6. Four enthusiastic proposals were presented for hosting the next INA conference - resulting in an Olympic style set of presentations and votes before we agreed we really had to go to the Philippines.
7. We also elected one new president (Jeremy Young).

Jean led a fine team and they were both extremely hospitable hosts and excellent organisers. Lots of good science was presented - including some challenging

new looks at nannofossil taxonomy. Equally importantly there was a really good atmosphere throughout with old hands cheerily meeting up again and a vibrant crop of students enthusiastically

sharing experiences and plotting new collaborations. If you want to see more there are plenty of photographs on our new Facebook page (see below).



*A posse of nanno workers in front of a barn in Virginia - before having an excellent dinner inside*



*Sociable paddling in Chesapeake Bay during the post-conference fieldtrip*



## FACEBOOK PAGE

Jarrett Cruz of Florida State University has taken on the role of INA Social Media Officer and has set up a Facebook page for the INA with a lot of images from the conference up there already ([www.facebook.com/INA.education](http://www.facebook.com/INA.education)) and links to new articles, pictures of interesting nannos etc.. Please take a look at the page and add any comments and contributions.

## JOURNAL OF NANNOPLANKTON RESEARCH ONLINE

We are in the process of putting PDF copies of *JNR* articles online on the INA website (<http://ina.tmsoc.org/JNR/JNRcontents.htm>). Most articles from the past 10 years are now online, including the Special Issue *Guide to Extant Coccolithophore Taxonomy*. Articles more than two years old are freely available, articles published in the last two years are password protected - and only available to INA members.

An important point for authors is that we will place your work online as soon as it has been refereed, accepted and typeset – no waiting for the printed version.

The journal editor (Liam Gallagher) is keen to receive submissions in order to complete the current issue.

## NANNOTAX3 - ONLINE NANNOFOSSIL TAXONOMY

As announced at the INA conference and recent TMS AGM/Conference - a new version of the Nannotax website is now available online. This was


































































developed by Jeremy Young, Jackie Lees and Paul Bown with NERC funding and is a direct successor to the previous version, which was developed within the European Distributed Institute of Taxonomy (EDIT) scratchpad system. The new version has a completely new software base and is hosted within the INA website (<http://ina.tmsoc.org/Nannotax3>). This is still a work in progress, but it has greatly expanded content, including coverage of about 2,500 taxa, illustrated by well over 10,000 images. This includes the vast majority of living and fossil species. All higher taxa (genera and above) are summarised by illustrated tables of daughter taxa. Users can set a geological age range of interest (e.g. Aptian to Cenomanian) and results will then be colour-coded and sorted to indicate if they fall in that time period. In addition the site contains a complete copy of the Farinacci catalog providing access to the original descriptions and holotype images. The Farinacci catalog can be browsed separately or individual pages can be accessed via links from the main catalog.

The site is already being extensively used by nannofossil workers and it also should form a useful reference source for any micropalaeontologists needing information on nannofossil taxonomy. The coding for the site was developed by Jeremy and he is open to enquiries about applying it to other microfossil groups.

[intro](#)
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**Mesozoic**

Ancestry: Mesozoic  
 Sister taxa: Coccolithophores Farinacci JR271-sampling methods Mesozoic: unsorted  
 Diagnosis: Mesozoic microfossils - Cenozoic and extant taxa are in a separate module

Daughter taxa (green => in age window 0-300Ma)										Granddaughter taxa
					<i>Arkhangelskiales</i> Tiered placoliths with 3-5 closely appressed shields.					<i>Arkhangelskiales</i> <i>Arkhangelskiales</i> <i>Kamptneriaceae</i>
										
					<i>Effellithales</i> Muralith coccoliths with a distal/outer cycle of clockwise imbricating elements					<i>Chiaszoyaceae</i> <i>Effellithaceae</i> <i>Rhagadisaceae</i>
										
					<i>Stephanolithales</i> Muraliths with a distal/outer-cycle of non-imbricating elements, i.e. in side view, the sutures are vertical or near vertical.					<i>Paraholothaceae</i> <i>Stephanolithaceae</i>
										
					<i>Podorhabdiales</i> Placolith (or modified placolith) coccoliths; shield elements display little or no imbrication; typically V-units form distal shield, R units form proximal shield					<i>Axopodorhabdaceae</i> <i>Biscutaceae</i> <i>Calyculaceae</i> <i>Cretarhabdaceae</i> <i>Mazaganellaceae</i> <i>Predicospiraceae</i> <i>Tubodiscaceae</i>
										
					<i>Watznaueriales</i>					

*Nannotax - screen shot from the website*

## RETICULOFENESTRID WORKSHOP - BIRMINGHAM 27TH JANUARY 2014

*Reticulofenestra* is the single most abundant and widespread genus of coccoliths in the Cenozoic and both tantalisingly variable and notoriously hard to use - not least because >100 species have been described. So the news that Eric de Kaenel had undertaken a wide-ranging review of the genus was very welcome and his workshop on reticulofenestrid taxonomy at INA14 was very well attended. However, there was plainly much more to discuss so Matt Hampton and Simon Cole organised a follow-up workshop in Birmingham, hosted by Tom Dunkley-Jones - with financial support from

TMS, INA, Network Stratigraphic and PetroStrat. This was again well-attended; Eric came over specially for the workshop and a large contingent of UK-based academic and industrial micropalaeontologists were joined by several colleagues from Europe; in total about 30 of us were there. We spent a full day going through reticulofenestrid taxonomy with some lively debates. Perhaps needless to say we didn't solve all the problems or work out an agreed taxonomy. We did, however, all learn a lot more about the state of knowledge of the group and went away with a lot of ideas about how we could go further with it. There was general agreement about some general points. (1) The group can be divided into several lineages/species groups - distinguished by features such as

shape and central area structure. (2) There is a lack of consensus about how many groups can be distinguished and how they can be grouped - and in consequence there is limited agreement over use of generic names such as *Dictyococcites*, *Cribozentrum* and *Cyclicargolithus*. (3) Within these groups, species distinction is essentially arbitrary and predominantly based on size - and there is too little consistency in the divisions used by different workers or in the names applied

to them. (4) Eric's synthesis is an invaluable contribution both to lineage identification and to cataloguing the available names and whilst workers may choose to adopt different parts of it, we wanted to see it published. (5) It is very useful to have this sort of gathering - especially given the large number of nannofossil specialists now working in the biostratigraphic consultancy scene.



*Nanno workers and an Irish Elk in the Sedgwick Museum, Birmingham - still cheerful after spending several hours discussing reticulofenestrid taxonomy*

## FUTURE MEETINGS / ISLAND HOPPING

*TMS Foram/Nanno Group Meeting - 25-28 June 2014, Texel, The Netherlands*  
Texel is the first of the Frisian Islands off the NW Coast of The Netherlands, and home to the national ocean research centre, NIOZ. The next TMS Foram/Nanno group meeting will be located there in June hosted by El Ufkes and

colleagues. The meeting will be focussed on the theme of Foraminifera and Nannofossils through time: qualification and quantification, and will be preceded by a one day workshop on Morphometrics in Micropalaeontology. These meetings are a very good opportunity for European nannoplankton workers to meet up and more are always welcome. Full details are on the TMS website (and there is a

link form the INA website).

### *INA 15 - Bohol, The Philippines*

There were four candidate bids to host the next INA conference - Birmingham, UK (Tom Dunkley Jones); Bohol, The Philippines (Alyssa Peleo-Alampay); Kiel, Germany (Sebastian Meier) and; Uppsala, Sweden (Jorijntje Henderiks). They gave four very tempting presentations and we would have been very happy to have the next conference at any of the proposed venues but, after two rounds of voting, the clear choice was for the Philippines. It will be organised by Alyssa Peleo-Alampay and her enthusiastic colleagues and students from the University of the Philippines, and held on the beautiful island of Bohol - famous for its beaches, coral reefs, and karst topography. Despite an earthquake and typhoon Haiyan preparations for the conference are progressing well - and it has been scheduled for March to make sure that it is not affected by typhoons. Links to the Conference website will be

put on the INA and TMS websites as soon as it is online.

### *INA Extant Coccolithophores Workshop - October 2014, Crete*

Following discussions among the specialists on extant coccolithophores, we thought it would be very worthwhile to reprise the successful workshop we held in 2003. With minimal persuasion, Maria Triantaphyllou (U. Athens) agreed to host this again, in Crete. Again, we are at an early stage of planning but will keep you informed. Send an email to Maria ([mtriant@geol.uoa.gr](mailto:mtriant@geol.uoa.gr)) if you want to express your interest in this.

### *TMS Nanno Group Field Trip*

We weren't able to arrange the Gault Clay field trip for this past autumn (as discussed previously), as potential dates coincided with two blocks of audits and staff holidays at the Munday's Hill quarry. We will re-schedule for late Spring/Summer 2014 (hopefully when the clay has dried out a bit).

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## ***Ostracod Group Report***

Ilaria Mazzini, Vincent Perrier

### **ISO 17<sup>th</sup> report.**

The International Symposium on Ostracoda (ISO) takes place every four years in a different location. The 17<sup>th</sup> Symposium (22<sup>nd</sup>-26<sup>th</sup> July, 2013) was hosted by the University of Roma Tre (Italy) and was the opportunity to celebrate the 50 years of the first ISO meeting, which took place at the

Zoological Station in Naples (Italy) in 1963. For this reason, the motto of ISO17th was "Back to the future" further developed in "Evolution of concepts and methods in ostracodology during the last 50 years".

The conference started with a short welcome of the Head of the Department of Sciences, the Head of the Faculty of Mathematics, Physics and Natural

