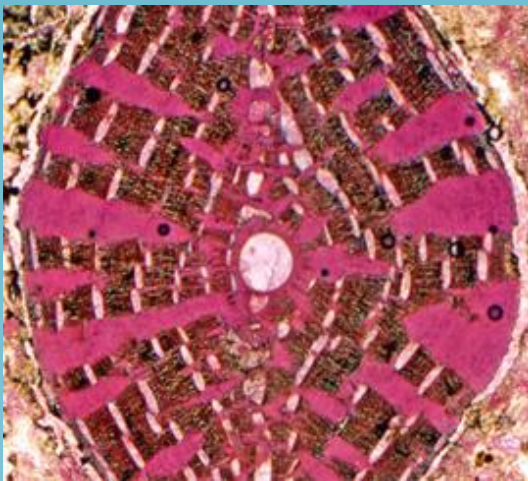


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- 3 Foraminifera.eu Database
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Tansinhokella sp.
colorized thin section
Letter Stage: Te4 (Chattian / Oligocene)
Prupuh Limestone, Java
image contributed by Peter Lunt

Thanks to your contributions and comments the Foraminifera.eu Project has seen further progress in 2015. Numbers have again increased from 2014 such as the number of integrated images from 9000 to 10500 and species from 2200 to 2900. We have a daily average of 230 visitors and downloads of 700 MB of data.

My scientific article describing our database concept was published in the open access journal *Palaeontologia Electronica*. As avocational scientist I prefer to do more enjoyable stuff with forams, but our scientific advisor Dr. Brian Ottway convinced me to describe and publish our concept. I want to thank him and the two reviewers for improving the text.

We are very grateful to the professional scientists and institutions who made substantial contributions of images and samples. The amount of illustrations from scientific publications has risen to 6.164 (=59%), including those of type specimens to 809 (=8%). It is planned to achieve a share of 70%.

The AG Mikropaläontologie im Naturwissenschaftlichen Verein Hamburg is most likely the only group of avocational micropaleontologists worldwide. Some of its members founded 2008 the foraminifera.eu project. We are happy that both groups are flourishing with more members, activities and working groups. We mutually organized

the well accepted second weekend workshop on micropaleontology and are planning the third for October 2016.

About 400 single samples were either sent in or collected by ourselves in 2015. ~80% are disintegrated, washed over 63µm sieves and inspected. They are used by the three Working Groups on Portuguese forams, forams of the Oligocene Kasseler Meeressande and forams of the Upper Cretaceous. Some were analysed and interpreted or forams identified according to the wishes of the sender. About 500 optical and SEM images were made from them.

It is planned to keep the balance between enlarging the database, working on single samples/profiles, doing fieldwork, organizing meetings and giving talks. With your help, support and samples we will further enlarge and improve the foraminifera.eu project.



Thank you all ! *Michael Hesse*

Contributions by professional scientists and institutions

Please consider your contribution. As non commercial organization we do neither pay nor charge.

Prof. Dr. Robert P. Speijer

Maastrichtian/Paleocene Foraminifera

Prof. Dr. Robert P. Speijer contributed images of 105 foraminifera of Maastrichtian to Paleocene age from sections in Tunisia and Egypt. The images to the left show a benthic key species for the Maastrichtian. More at www.foraminifera.eu/speijer.php

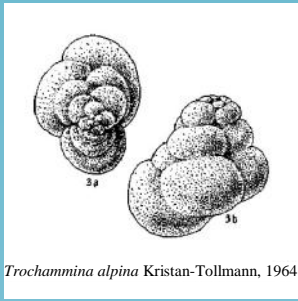


Bolvinooides draco draco (Marsson, 1878)

Geological Survey of Austria

Triassic Foraminifera

Thanks to Dr. Holger Gebhardt (GSA) we got the permission from the Geological Survey of Austria to use illustrations from all of their publications. In 2015 we added drawings of 312 Triassic specimens, published in:



Trochammina alpina Kristan-Tollmann, 1964

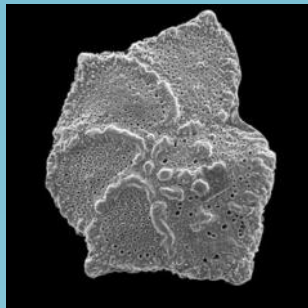
Kristan-Tollmann, E., 1964: Die Foraminiferen aus den rhätischen Zlambachmergeln der Fischerwiese bei Aussee im Salzkammergut. Jahrbuch der Geologischen Bundesanstalt Sonderband 10. More at:

www.foraminifera.eu/loc.php?locality=Fischerwiese

Dr. Christiane Schmidt

Pararotalia calcariformata McCulloch, 1977

Dr. Christiane Schmidt contributed 23 images of *Pararotalia calcariformata* - an invasive species in the Mediterranean. See more at:



[www.foraminifera.eu/collection.php?](http://www.foraminifera.eu/collection.php?collname=Christiane%20Schmidt&aktion=suche)

[collname=Christiane%20Schmidt&aktion=suche](http://www.foraminifera.eu/collection.php?collname=Christiane%20Schmidt&aktion=suche)

Proceedings of the International Workshops of Agglutinated Foraminifera (IWAF)

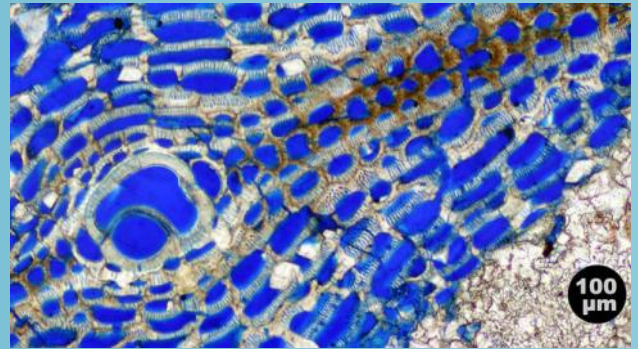
Thanks to the editor Prof. Dr. Michael A. Kaminski we are allowed to use the images published in the proceedings of the eight IWAFs. So far we have integrated more than 500 illustrations. My favorites are the drawings by Prof. Dr. Theodor Neagu. See more details on this *Gaudrynella elongatissima* at www.foraminifera.eu/singleca.php?no=1009993&aktion=suche



In April 2017 I will present the foraminifera.eu database at the 10th IWAF in Bratislava, Slovakia.

Dr. Peter Lunt

thin section images from Indonesia



Dr. Peter Lunt contributed colorized thin section images of foraminifera of the Letter Stages from Indonesia: www.foraminifera.eu/lunt.php

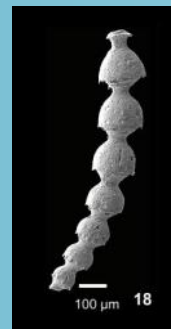
Dr. Simone B. Hicks Eocene Foraminifera from New Zealand

Dr. Simone B. Hicks contributed thirtythree excellent SEM images of Eocene foraminifera from New Zealand like the one of

Siphonodosaria basicarinata (Homibrook, 1961)

Find more at:

www.foraminifera.eu/loc.php?locality=Maheno

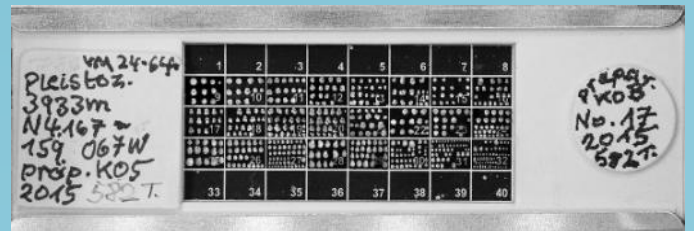


100 µm 18

Lamont Doherty Core Repository Palisades, New York

In October 2014 I visited the LDCR with my wife Susanne. The curator Nichole Anest showed us around and gave me 5 samples. Just one sample from the deep sea of the central northern Pacific is processed so far. The foraminifera.eu team members Karl-Otto Bock and Dieter Ketelsen produced a plummercell and photographed each field. The plummercell is online and clickable field by field at:

www.foraminifera.eu/vm2464.php



Scientific reports of the Ocean Drilling Programs DSDP, ODP and IODP

These scientific reports are - as pointed out by Prof. Mark Leckie to me - in public domain and we continuously add illustrations from them. So far 820 images of mainly planktonic forams are integrated and may be found at:

www.foraminifera.eu/iodp.php

contributions by professional scientists and institutions

Samples from Taiwan

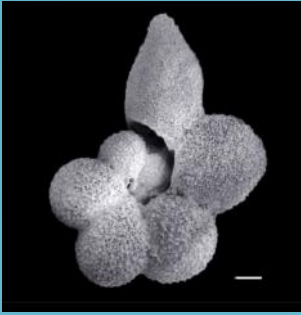


Image made by Dr. Georg Rosenfeldt, assisted by M. Hesemann

When John Taylor - our Scottish supporter and networker - offered to bring us some samples from his travel to Taiwan we asked the Taiwanese Geological Survey and Dr. Kuo-Yen Wei's laboratory at the National Taiwan University to provide some samples. We are very pleased and grateful, that both institutions handed valuable samples of recent and fossil material, including a geological map of Taiwan to John, who brought it all back to us. In 2015 we worked on a core sample from the South China Sea and shot with Dr. Georg Rosenfeldt 73 SEM images.

www.foraminifera.eu/collection.php?collname=Kuo-Yen+Wei&aktion=suche
The other samples were processed and we intend to shoot more images in 2016.

Foraminifera.eu Database

the basic idea of FEUDAT

A major outcome of the foraminifera.eu project is the foraminifera.eu database (FEUDAT) with its 10.500 data sets. It's intention is to improve the accessibility of foraminiferal data for novices to senior professionals. A database concept was developed and FEUDAT implemented. Userfriendly interfaces (shall) make the data freely accessible through the internet. Likewise producers of information (shall) find their data better recognised and accessible. Please take part in the ongoing development of FEUDAT by sending us your critical comment and suggestions.

Scientific article published on the foraminifera.eu database



At first sight FEUDAT may seem to be just another taxonomic database as the World Foraminifera Database, Encyclopedia of Life or the Ubio namebase.

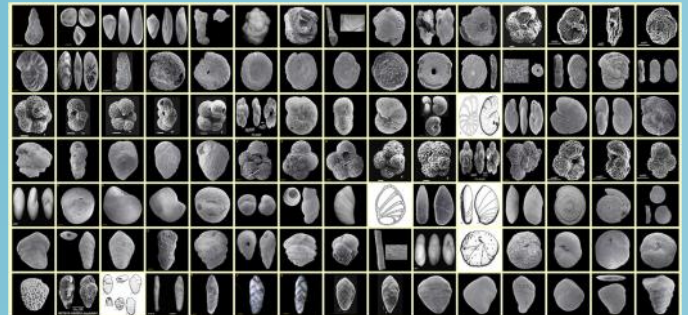
We though offer many more attributes to choose from than just the taxonomic ones. Our intention is to integrate all structurable data on foraminifera together with an illustration. Concept, status and perspectives of FEUDAT are described in the article, which is freely accessible at: <http://palaeo-electronica.org/content/2015/1333-the-foraminifera-eu-database>

loose connections with the WFD

Since the Forams2010 conference in Bonn I am in loose contact with Bruce Hayward, the main editor of the World Foraminifera Database (WFD). We consider the WFD as authoritative register of foraminiferal taxa. In 2015 we implemented new species pages, which link to the according entry in the WFD. We check our data on family, genus and species against the WFD entries. We frequently use the WFD and if we find errors we report them to Bruce.

Outlook for 2016

It is more fun to be creative and design a new database feature rather than entering thousands of data. Unfortunately a useful database needs data, in particular accurate date. We add at least 1.500 new data-sets per year. An ugly task is to apply new attributes and features backward to all of the old datasets. An example is the job to format all thumbnail images into 120x120px at 72 dpi. It will allow us to show many more images on the screen together. We view it as a major improvement for the user and worth the effort. It might look like:

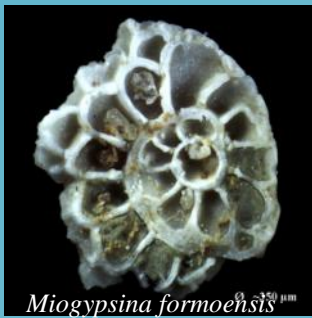


It is fun to design a new interface for first and last occurrence dates. A preliminary interface is online at www.foraminifera.eu/queryceno.php?fofill=000.00&orderby=foage+DESC&aktion=suche

It contains so far just 142 entries of Neogene planktonic species. I like the interface but it may be too difficult for novices and too superficial for professionals. We will do our best to enter more data and take into account your comments.

Working Groups

Kasseler Meeressande Oligocene, near Kassel, Germany



Contributor Dirk Gille sent us seven samples of a profile from a new outcrop of the Oligocene Kasseler Meeressande. Dieter Ketelsen, Karl-Otto Bock, Werner Baubkus and me formed the Working Group. I weighted, washed

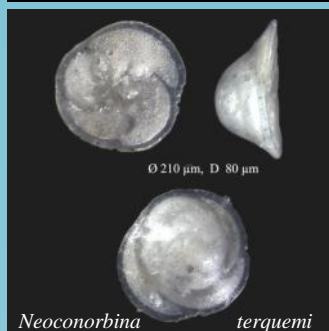
and distributed the samples amongst us. Dieter made about 300 optical images of the specimens, which were used to discuss their identification. From the relevant publications we primarily used was Batjes, 1958; Kiesel, 1962; Kümmerle, 1963; Großheide and Trunko, 1965 and Grimm and Uffenrode, 2010. Our conclusion is, that all samples belong into the Horizon 3 of Kümmerle, 1963 and Ritzkowski, 1967. In contrast to other outcrops the genus *Miogypsina* is present. So far it is not planned to count in detail and to publish our findings. Find more details and 112 specimens imaged at www.foraminifera.eu/loc.php?locality=Kassel%20G



Pararotalia canui



Favulina hexagona



Neoconorbina

terquemi



Cancris turgidus

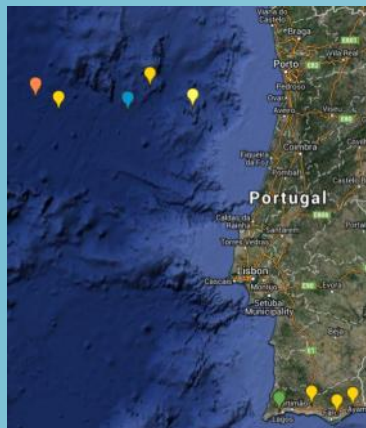
all optical images are made by Dieter Ketelsen

Foraminifera of the Upper Cretaceous

With strong support by Dr. Peter Frenzel the Working Group integrated in 2013/2014 763 images of 259 species of the Maastrichtian. In 2015 material from the Campanian of Höver was sampled and optical and SEM images were made. In 2016 we will discuss the identification and bring them online. Stefan Raveling sent Santonian material from a drill core from Northern Germany. The *Neoflabellina* from Höver is photographed by Werner Baubkus.



Portuguese Foraminifera



The idea for the Atlas of Portuguese Foraminifera arose in February 2014 in a meeting of Michael Hesemann, Brian Ottway - both foraminifera.eu project - with Paulo Legoinha from the Ciências da Terra Department, Universidade Nova de

Lisboa. Lucia de Abreu contributed SEM-images and Cidalina Lopes specimens from the Azores. In 2015 the atlas was enlarged and contains 458 images. It was presented at the IX Congresso Nacional de Geologia in Porto 2014 and the according article was published in 2015, see

www.researchgate.net/profile/Michael_Hesemann2



to the atlas: www.foraminifera.eu/apf.html

Helvetic nappes

Avocational paleontologist Dr. Thomas Güthner sent samples from a small profile near Siegsburg, foreland of the Alps north of Salzburg. He wants to know their stratigraphic positioning within the Helvetic Nappes. Due to the high percentage of clay and a P/B-ratio of >80%, absence of Cretaceous species, presence of Siphonodosarias we view it preliminary as being from the Upper Eocene Stockletten layer. In 2016 a working group will be built to further investigate the material. SEM-images for the planktonics will be made to confirm the preliminary identification of the Eocene species.

in the pipeline

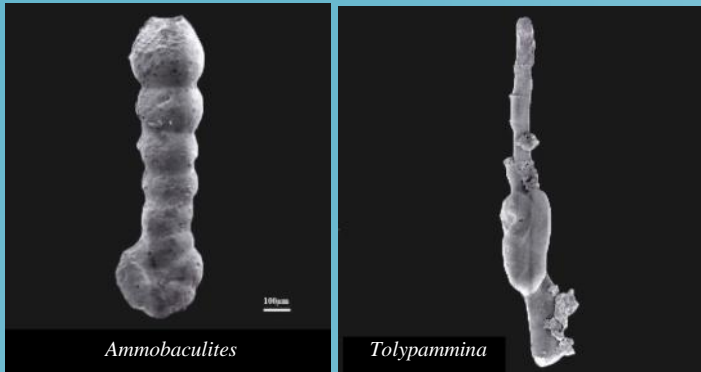
We still have capacities to build further working groups and will decide on the proposals already made.

Contributions by avocational scientists

John Maurice

Carboniferous foraminifera from Texas

John sent us raw material from Padre Island and from Carboniferous shales from the Lake Bridgeport area in Texas, USA. We processed the material and made SEM images. I will meet John in May in Texas and we want to do some field work together.



Images made by Dr. Georg Rosenfeldt, assisted by M. Hesemann

Friends of the German Sand Museum

Most impressive is the dedication of the Friends of the German Sandmuseum. They have ten thousands of sand samples in stock. I joint the club to support their outstanding effort. Two of them went to Northern Cyprus and collected sand from every single beach, and shared them with me. In 2016 I shall write an article on foraminifera for their sand collectors magazine in return.



Single tasks



Hauterivian

Vaginulina

Udo Frerichs, Arbeitskreis Paläontologie Hannover provided specimens from the closed Hauterivian clay pit of Engelbostel for imaging and identification. Dieter Ketelsen shot the images and we identified them together.

Avocational malacologist and contributor Paolo Petracci sent two samples of the Miocene/Pliocene from the Forli/Cesena province in Upper Italy with the question, which water depth the foraminifera would indicate. The samples were processed. Based on the species distribution and ratio of Planktonic/Benthic foraminifera the conclusion was sent to Paolo. No images are made so far.

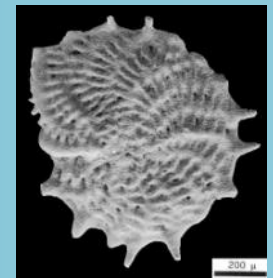
Horst Scharnhorst provided a collection of big foraminifera from the Campanian of Höver, which were imaged by Dieter Ketelsen. They will be used by the Working Group of the Upper Cretaceous

Malacologists

Since the beginning of the foraminifera.eu project we continuously receive raw-materials of a high quality from malacologists. They keep precise records of their field work with exact data on localities and strata. We are deeply grateful to Adrian Brokenshire (UK), Jan Steger (Austria), Helmut Krook (Germany) and Paolo Petracci (Italy). In 2015 Adrian sent us Eocene samples from Belgium and France and recent material from Mauritius.



Jan Steger sent material from the classic site in Vienna Nussdorf. We used it in our workshop.



Samples with no images made

Due to our limited capacities and the focus on the integration of images from scientific publications we did not shoot images of forams from several samples we received. In order to answer the questions, which came together with them we processed those samples and picked specimens. In some cases plummercells were filled with the specimens and samples used at our group meetings.



Mission

The Foraminifera.eu-Project wants to foster the interest in foraminifera. Avocational to professional scientists shall get a free platform where they find valuable information and may show off their results.

We build a free accessible webpage on foraminifera based on a well structured image-database and easy-to-use interfaces. In the background we are open for projects of any kind and beyond the mere web presentation. We build project-teams where avocational and professional scientists work together on well defined and scheduled projects.

The Foraminifera.eu-Project is non-commercial. We as staff and our contributors do not get a financial compensation as our work is based on naturalist enthusiasm. We will use donations of money or equipment only to cover costs.

Outreach and Services



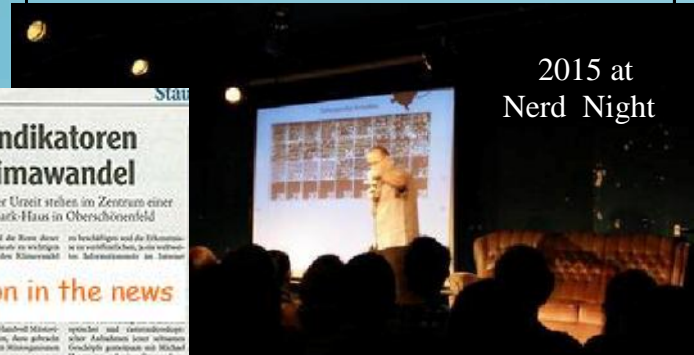
- Weekend Workshop 2015 -
2016 in planing

www.foraminifera.eu/workshop2016.html



Talks in German and English

www.foraminifera.eu/talks.html



2015 at
Nerd Night



www.foraminifera.eu/exhibition.html

Monthly meetings
in Hamburg of the
AG Mikropaläontologie
exchange of samples and
experiences

Our Services

Services are free, but:)
we only do, what we like to do

Sample processing

Counting and picking of microfossils

Identification of Foraminifera

Optical Imaging

SEM Imaging

Stratigraphical Analysis of profiles

Support of any kind

Booth at the Mineral Fair

Foraminifera.eu and AG Mikropaläontologie
3 days Booth at the fair Mineralien

ZEIT
3 Tage
drehe dich alles um
Mineralien
Schmuck
Edelsteine
Fossilien

MINERALIEN HAMBURG
4. - 6. DEZ. 2015
Täglich 10-18 Uhr Messstände am Fernmarkt

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Hans-Joachim Gregor, Palaeo Bavarian Geological Survey, Co-Editor of Documenta naturae, Germany
Onno Groß ex WoRMS, Hamburg DEEPWAVE - NGO for the protection of the oceans
The Grzybowski Foundation, promotes education and research in the field of Micropaleontology. allows us to use images of their publications: Hammerfest Basin, Type Specimens and many more
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Dieter Ketelsen
Brian Ottway
Stefan Raveling
Dr. G. Rosenfeldt



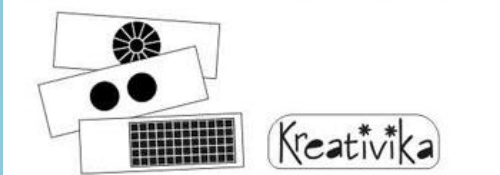
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Sabine Wilcken, Germany, Hamburg
Hans Zimmermann, sand collector, Southern Germany

Journals allowing reproduction of images:

Abhandlungen der Geologischen
Bundesanstalt Österreichs
Micropaleontology
Notebooks on Geology
Paleontologia Electronica
Proceedings of the IWAF

www.microslides.kreativika.sk



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9th Course
International School
on Foraminifera

Urbino - 6th-25th June, 2016

Fabrizio - our first scientific contributor - is again running an ISF course, the 9th now in June. I strongly recommend to participate as I have learnt so much in the 2nd and 6th course. The list of senior lecturers is impressive. Besides Fabrizio knows how to entertain us in the evenings and Urbino is a cute medieval university town. Get in touch thru <http://isf.tmsoc.org>

Foram Events 2016

for professionals

- Feb. 21st to 26nd Ocean Sciences Meeting in New Orleans
PC12A: Assessing Ecosystem Variability from Paleoceanographic Archives I
<https://agu.confex.com/agu/os16/meetingapp.cgi/Session/9343>
- April 17th to 22nd EGU General Assembly 2016 in Vienna,
SSP4.4/BG3.5 Smaller and Larger Benthic foraminifera:
meetingorganizer.copernicus.org/EGU2016/session/20414
SSP2.4 - Earth Systems History - the Need for Integrated Stratigraphy
meetingorganizer.copernicus.org/EGU2016/session/20410
- June 6th to 25th 9th Course International School on Foraminifera in Urbino, Italy
<http://isf.tmsoc.org>
- June 19th to 24th TMS Spring Forum and Nanno meeting in Angers
www.tmsoc.org/event/tms-spring-foram-and-nanno-meeting-angers/?instance_id=44488
- July 18th to 22nd Short Course on Agglutinated Foraminifera, Krakow
Contact Email info@micropresseurope.eu
- Sept. 25th to 28th GSA annual meeting in Denver, USA with the annual meeting of the Cushman foundation and topical sessions on micropaleontology

for avocational scientists

for details contact me, Michael Hesemann, Email michael@foraminifera.eu

- every 3rd Monday AG Mikropaläontologie im Naturwissenschaftlichen Verein Hamburg in Hamburg. Talks, sample analysis and distribution. Club activities
- on personal notice once a month Working Group Upper Cretaceous foraminifera meets in the Hamburg area
Identification of Campanian forams from the clay pit at Höver and of Santonian forams from a drill core at Herne (Emscher marl)
- February, 16th 18:30h Digital Eatery Berlin, Eatery Stage Night (Nerd Night),
Foraminifera by Michael Hesemann
- March, 15th 19:00h Foraminiferen der Oberkreide, Talk by Michael Hesemann in German at the Natural History Museum Berlin
- April 9th from 18:00h Booth of the Foraminifera.eu Project and AG Mikropaläontologie at the "Lange Nacht der Museen" in Hamburg
- April field trip in Portugal (Working Group Portuguese Foraminifera)
- May, 9th to 11th field trip to outcrops near Dallas/Fort Worth
- October 15/16th Workshop Mikropaläontologie (in German) in Hamburg, Germany
- Dec. 9th to 11th Booth of the Foraminifera.eu Project and AG Mikropaläontologie at the Mineral Fair Hamburg with a talk on micropaleontology