



**GeoBio-Center^{LMU}
Report 2014/2015**

GeoBio-Center^{LMU} Report 2014/2015



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Welcoming note

Dear Ladies and Gentlemen, dear Colleagues,

I am delighted to present here the annual report of the GeoBio-Center for 2014 and 2015. As you can see, the GeoBio-Center can proudly look back to another successful period in terms of collaborations, scientific output, media coverage, grants, and teaching. However, sadly, in 2015 one of our founding Members, Prof. Dr. Alexander Altenbach, passed away unexpectedly. His achievements and enthusiasm for the GeoBio-Center and beyond will certainly be honoured and remembered by all of us.

On the positive side, it is worth noting that the GeoBio-Center hosted exciting meetings and workshops, for example the 17th Annual Meeting of the Gesellschaft für Biologische Systematik (GfBS) or international 2nd Global Invertebrate Genomics Alliance Workshop, just to mention a few.

The years 2016/2017 will bring some changes for the GeoBio-Center. Prof. Dr. Günther Heubl will leave the GeoBio-Center Board after six years membership due to his retirement. We wholeheartedly thank Prof. Heubl for his engagement and enthusiasm for the GeoBio-Center during his service and wish him all the best for his "new life" without (administrative) duties!

In the coming years we shall also increase efforts to attract larger-scale national or international projects to the GeoBio-Center to increase its visibility. The GeoBio-Center is an established over-arching platform for collaboration between research groups of different faculties and institutions, and provides an excellent platform to develop and host interdisciplinary projects. We should make more intensive use of the opportunities at hand. Several cooperative projects are already in the pipeline, but I encourage the members to consider the GeoBio-Center as the host institution for upcoming joint project applications.

I would like to thank and congratulate all members of the GeoBio-Center for their excellent contributions and look forward to continue to work with you!

With the very best regards,

Prof. Dr. Gert Wörheide
Spokesman of the GeoBio-Center^{LMU}



*Prof. Dr. Gert Wörheide
Spokesman of the
GeoBio-Center^{LMU}*

Achievements of the GeoBio-Center^{LMU} members 2014 & 2015 at a glance¹⁾

Grants and stipends²⁾: 36

Publications in ISI-indexed journals: 177

Other peer-reviewed publications: 38

Further publications: 90

Theses and Habilitations:

- Habilitations: 1
- Dissertations: 9
- M.Sc. Theses: 26
- B.Sc. Theses: 22
- others: 2

¹⁾ Data provided here is based on the voluntary feedback of the GeoBio-Center^{LMU} members for this biannual report and therefore to be regarded as minimum.

²⁾ All grants and stipends are administrated by the associated departments.

Members of the GeoBio-Center^{LMU}

Ordinary members of the GeoBio-Center^{LMU} (2015)

Prof. Dr. R. Agerer	Dept. Biology I, Systematic Botany and Mycology, LMU
Prof. Dr. A. Altenbach	Dept. Earth and Environmental Sciences, Palaeontology & Geobiology, LMU
Prof. Dr. E. Bayer	SNSB, Botanical Garden Munich-Nymphenburg, Faculty of Biology, LMU
PD Dr. D. Erpenbeck	Dept. Earth and Environmental Sciences, Palaeontology & Geobiology, LMU
Prof. Dr. A. Friedrich	Dept. Earth and Environmental Sciences, Geology, LMU
PD Dr. U. Göhlich	Natural History Museum Vienna
Prof. Dr. M. Gottschling	Dept. Biology I, Systematic Botany and Mycology, LMU
Prof. Dr. J. Grau	Dept. Biology I, Systematic Botany and Mycology, LMU
Prof. Dr. G. Grupe	Dept. Biology II, LMU & Bavarian State Collection for Anthropology and Palaeo-anatomy
Prof. Dr. G. Haszprunar	Dept. Biology I, LMU & Bavarian State Collection for Zoology
Prof. Dr. W. Heckl	TUM & Deutsches Museum
Prof. Dr. E. Hegner	Dept. Earth and Environmental Sciences, Mineralogy, Petrology and Geo-chemistry, LMU
PD Dr. M. Heß	Dept. Biology I, Systematic Zoology, LMU
Prof. Dr. G. Heubl	Dept. Biology I, Systematic Botany and Mycology, LMU
Prof. Dr. S. Hölzl	Riescrater-Museum, Nördlingen & Faculty of Geosciences, LMU
Prof. Dr. M. Krings	Bavarian State Collection for Palaeontology and Geology & Faculty of Geo-sciences, LMU
PD Dr. R. Matzke-Karasz	GeoBio-Center ^{LMU}
Prof. Dr. C. Mayr	FAU Erlangen-Nürnberg & Faculty of Geosciences, LMU
Prof. Dr. R. Melzer	Bavarian State Collection for Zoology & Faculty of Biology, LMU
Prof. Dr. A. Nützel	Bavarian State Collection for Palaeontology and Geology & Faculty of Geo-sciences, LMU
Prof. Dr. J. Peters	Faculty of Veterinary Medicine & Bavarian State Collection for Anthropology and Palaeoanatomy
Prof. Dr. N. Petersen	Department of Earth and Environmental Sciences, Geophysics, LMU
Prof. Dr. O. Rauhut	Bavarian State Collection for Palaeontology and Geology, Faculty of Geosciences, LMU
PD Dr. M. Reich	Bavarian State Collection for Palaeontology and Geology, Faculty of Geosciences, LMU
Prof. Dr. B. Reichenbacher	Dept. Earth and Environmental Sciences, Palaeontology & Geobiology, LMU
PD Dr. G. Rössner	Bavarian State Collection for Palaeontology and Geology, Faculty of Geosciences, LMU
Prof. Dr. W. Schmahl	Dept. Earth and Environmental Sciences, Crystallography, LMU & Bav. State Coll. for Mineralogy
Prof. Dr. M. Schrödl	Bavarian State Collection for Zoology & Faculty of Biology, LMU
Prof. Dr. F. Siegert	Dept. Biology II, LMU
Prof. Dr. G. Wörheide	Dept. Earth and Environmental Sciences, Palaeontology & Geobiology, LMU & Bavarian State Collection for Palaeontology and Geology

Extraordinary members of the GeoBio-Center^{LMU} (December 2015)

Prof. Dr. W. Altermann	Dept. of Geology, University of Pretoria
Prof. Dr. M. Amler	University of Cologne
Dr. M. Balke	Bavarian State Collection for Zoology
Dr. A. Beck	Bavarian State Collection for Botany
Prof. Dr. M. Böhme	Senckenberg Center for Human Evolution and Paleoecology, University of Tübingen
Prof. Dr. F. Brümmer	Institute for Biology, University of Stuttgart
Dr. R. Butler	GeoBio-Center ^{LMU}
Dr. E. Facher	Dept. Biology I, Systematic Botany and Mycology, LMU
Dr. A. Fleischmann	Bavarian State Collection for Botany
Dr. G. Försterra	Universidad Austral de Chile, LMU, Fundación Huinay, Chile
Dr. M. Gaulke	Philippine Endemic Species Conservation Project (PESCP)
Dr. J. Gavía	Centro Jardín Botánico, Fac. Ciencias, ULA, Venezuela
Dr. F. Glaw	Bavarian State Collection for Zoology
Dr. E. Griesshaber-Schmahl	Dept. Earth and Environmental Sciences, Crystallography, LMU
Dr. C. Haug	Dept. Biology II, Functional Morphology of Animals, LMU
Dr. J. Haug	Dept. Biology II, Functional Morphology of Animals, LMU
Dr. A. Hausmann	Bavarian State Collection for Zoology
Dr. V. Häussermann	Universidad Austral de Chile, LMU, Fundación Huinay, Chile
Dr. A. Kempe	Dept. Earth and Environmental Sciences, Crystallography, LMU
Prof. Dr. M. Krautter	University of Stuttgart
Dr. B. Kremer	Institute of Paleobiology, Biogeology Department, Polish Academy of Sciences
Prof. Dr. C. Laforsch	University of Bayreuth
Dr. H. Lehnert	Oberottmarshausen
Prof. Dr. R. Leinfelder	Humboldt University, Berlin
Dr. Y. Lin	Dept. Earth and Environmental Sciences, Palaeontology & Geobiology, LMU
Dr. A. Lopez-Arbarelo	Bavarian State Collection for Palaeontology and Geology
PD Dr. M. Nickel	Institute of Systematic Zoology and Evolutionary Biology with Phyletic Museum, Jena University
Dr. M. Nose	Bavarian State Collection for Palaeontology and Geology
Prof. Dr. J. Overmann	Leibniz Institute DMSZ Braunschweig
Dr. S. Raidl	Dept. Biology I, Systematic Botany and Mycology, LMU
Dr. N. Reiff	Bavarian State Collection for Zoology
Dr. B. Ruthensteiner	Bavarian State Collection for Zoology
Dr. U. Schliwen	Bavarian State Collection for Zoology
Prof. Dr. R. Tollrian	Ruhr-University, Bochum
Dr. W. Werner	Bavarian State Collection for Palaeontology and Geology
Prof. Dr. C. Wild	Leibniz Center for Tropical Marine Ecology, Bremen
PD Dr. A. Zink	Institute for Mummies and the Iceman, Bozen, Italien

Advisory Board of the GeoBio-Center^{LMU}

Prof. Dr. A. Boetius	Max Planck Institute for Marine Microbiology, Bremen
Prof. Dr. R. Gradstein	Muséum National d'Histoire Naturelle, Paris
Dr. M. Hoppenrath	Senckenberg Research Institute, Wilhelmshaven
Prof. Dr. A. Schwalb	Technische Universität Carolo-Wilhelmina, Braunschweig
Dr. Jean-Pierre Valet	Institut de Physique du Globe de Paris
Prof. Dr. A. Wanninger	University of Vienna
Prof. Dr. G. Zizka	Senckenberg Research Institute, Frankfurt

Memorial to Alexander Volker Altenbach (1953-2015)

Alexander Volker Altenbach was born in 1953 in Frankfurt/ Main, Germany. Alex attended school in Königstein/Taunus, where he passed his Abitur in 1974. He then studied Geology and Paleontology at Goethe University, Frankfurt. During an internship on an oil rig in Denmark, he first experienced a professional working environment and the adventures of hydrocarbon exploration in the North Sea. For his diploma thesis Alex worked on the stratigraphy and tectonics of the Sierra de Montgai, in the Pyrenees, Spain, under the supervision of Rolf Schroeder, Senckenberg Museum, Frankfurt/M. The subject comprised a genuine geological mapping exercise and biostratigraphic dating of the exposed formations. Stratigraphic ages were determined with the Mesozoic orbitoids and planktonic foraminifera in thin sections. Alex shared the long travels to Spain with his two companions Hans-Joachim Wallrabe- Adams (aka Kolli) and Peter Brinnel, enjoying an old “concha naranja” Volkswagen van, as well as field work in the spectacular scenery of the Sierra de Montsec, and living the Catalan lifestyle. As late as 1993, the theme of Alex’s habilitation defense again was the geology of the Sierra de Montsec, for which he had kept his fascination (cf. Wallrabe-Adams et al., 2005). Being challenged by disentangling the complicated tectonic structure of the Sierra de Montgai, Alex learnt Fortran78 to produce a virtual Schmid net on the central university computer, visualizing different deformation styles of the different tectonic units. His early professional computer programming probably gave rise to his later endeavor in computing.

Attracted by the developments in Marine Geosciences at Kiel University during the early 1980s, Alex joined the Micropaleontology Group of Gerhard Friedrich Lutze, and commenced his PhD work in the late Collaborative Research Centre (CRC) 95 “Sea–Seafloor Interactions”. He developed and applied an infrared adsorption method to determine the biomass of individual benthic foraminifera, which was a major step in the quantitative understanding of the ecological role of foraminifera in benthic ecosystems (Altenbach, 1985, 1987). It took more than 20 years until the issue could be successfully revisited again, using the next generation of spectrometric technology, and still inspired by Alex’s original work (Movellan et al., 2012).

With the advent of the first microcomputers, Alex’s programming skills were highly demanded, and he established IT technology for the use of micropaleontologists together with Uwe Pflaumann, Horst Schulz, and Peter Weinholz at the Institute of Geology and Paleontology at Kiel University. Together with Bill Colbourn, Alex still used the old PDP10 central computer. As a result of long discussions with G. F. Lutze and Michael Sarnthein, Alex developed the



concept of food flux as the decisive environmental factor driving the distribution of benthic foraminifera and stable carbon isotopic composition of their shell carbonate.

Alex then joined the new CRC 313 “Environmental Change: The Northern North Atlantic“, at Kiel University, as an assistant professor and subproject leader. Alex was involved in the development of the so-called Biocontainer, a 20' laboratory container equipped with a surgery microscope, which was a major achievement in marine environmental research at that time. A complete box core could be moved into this seagoing laboratory, where the sediment surface could be examined like a petri dish. Many new observations were made in this facility aboard research vessels, leading to the idea of the dynamic microhabitat concept of foraminifera as a basic strategy to optimize food acquisition (e.g., Altenbach et al., 1993, Linke et al., 1995; Ahrens et al., 1997). In total, he spent about one and a half years on research cruises to the tropical to polar North Atlantic and the Baltic Sea. Among other observations, Alex described the upright life position of monothalamous arenaceous species and the spider web-like pseudopodial mesh they are using to collect particles from the bottom current (Altenbach et al., 1988). Alex discovered that a similar strategy is used by *Rupertina stabilis*, which he found in a narrow band along the Norwegian continental slope (Lutze & Altenbach, 1988). In addition to his work on the Recent, his ideas interacted between geology and biology, and he pursued an avenue of research on the Quaternary paleoceanography of the northern North Atlantic together with his colleagues of CRC 313 (e.g., Sarnthein & Altenbach, 1995; Nees et al., 1997).

In 1992, he summarized the observations he made in the context of the dynamic CRC-313 community, and compiled the flux estimates in his habilitation thesis at Kiel University (Altenbach, 1992). Assuming that the flux of organic matter serves as a major food source of benthic foraminifera and as a driver of assemblage compositions, he computed threshold values confining the distribution of species on continental slopes. By doing so, he disentangled the complicated interplay between vertical and lateral advection of food particles (Altenbach et al., 1999; Altenbach et al., 2003; Altenbach & Struck, 2001). The concept was later applied to explain the distribution of *Uvigerina* species in the eastern Atlantic (Schönfeld & Altenbach, 2005).

In parallel to his academic career, Alex developed the second generation of IT infrastructure at the Institute of Geology and Paleontology at Kiel University. He also founded SCILAB GmbH (Hamburg) together with Peter Weinholz and Michael Prall, offering expert systems and software programs for graphical solutions (Xact) in Earth Sciences, some of which are still abundantly used in academia and industries.

In 1995, Alex accepted a call as a Professor of the Bavarian State Collection and the Institute of Paleontology and Historical Geology at Ludwig Maximilians University (LMU), Munich. He was soon faced with education and university administration, the establishment of laboratories and many students claiming attention. His national and international activities as a much-demanded reviewer added to his workload, which sometimes was a tedious task at times of heavy budget cuts and disintegration of entire university departments. Nevertheless, he regularly came back to northern Germany with his students on marine-geological excursions, and to get dirty in the mudflats of the North Sea.

In the years to follow, Alex became Dean of the Faculty of Geosciences at LMU, enjoying his new office. His new responsibilities left very little time for research projects and cruises. He nonetheless pursued his interest in the flux of organic matter and its effects on benthic foraminifera. One of his major new findings is the presence of *Virgulinema fragilis* in anoxic environments (Leiter & Altenbach, 2010; Altenbach et al., 2012). Another new discovery was the unusual shallow occurrence of deep-water foraminiferal assemblages in the fjords of southern Chile (Mayr et al., 2011). He took the lead, gathered an interdisciplinary team of researchers at LMU, and proposed a new Collaborative Research Center on the ecology of Chilean Fjords, which was approved by the German Science Foundation (DFG). However, German research vessels were not available for expeditions to high southern latitudes of the Pacific Ocean, and chartering a Chilean navy vessel was refused by the funding agency. Finally, the project was declined because of legal issues.

New and pleasant collaboration with Patrick De Deckker at the Australian National University provided nonetheless long travels under southern skies. An acknowledged travel guide to the beauties of the Australian nature originates from these activities, which Alex co-authored together with his wife Maren Gaulke (Gaulke & Altenbach, 2007). In general, Alex was very much taken by Maren's research interests, and intensively collaborated on the ecology and behavior of varines and other reptiles from Indonesia and the Philippines (e.g., Gaulke & Altenbach, 1994).

Alex's late activities included the editorship of a book on eukaryote survival under anoxic conditions, and strategies for their paleontological investigation, which he edited together with Joan Bernhard and Joseph Seckbach (Altenbach et al., 2011). This effort, and coping with a changing strategy of the Geological Institute of LMU took much of his time and power. Increasingly, the strains of his cancer disease took his energy. Alex passed away on August 24, 2015. We lost a passionate discoverer and innovator, a dedicated scientist and communicator, a responsible teacher and mentor, and a colleague with the vocation to enthuse and to cheer his dear colleagues.

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- Rössner GE, Costeur L, Scheyer TM. Evolutionary evaluation of fundamental processes in the antler cycle as revealed by internal bone structure. Symposium of Vertebrate Palaeontology and Comparative Anatomy, Southampton, UK (01.-04.09.2015).
- Rössner GE, Göhlich UB, Gentry A. Native presence of giraffes in central Europe as revealed from fossils. 89th Annual Meeting of the German Society for Mammalian Biology, Hannover, Germany. p. 80 (13.-16.09.2015).
- Ruthensteiner B, Bäumler N, Haszprunar G. Development of the metanephridial and coelomic system in molluscs – more variability than allowed? ICIM3, Berlin, Germany. p. 30 (03.-07.08.2014).
- Ruthensteiner B. Biologische Proben im μ CT: Beispiele für Befestigung, Kontrastierung und für die Korrelation von Datensätzen. In Tagungsband - 3. Jenaer μ CT-Workshop - Anwendung der μ CT in der biomedizinischen Forschung - Jena, Germany. p. 12 (04.11.15).
- Rutkowski A, Heß M. The optic chiasm in the *Octopus vulgaris* hatchling. 108th Annual Meeting of the German Zoological Society, Graz, Austria. p. 95 (2015).
- Santos V, Barroso Barcenilla F, Callapez P, Castanera D, Cupeo CA, Nuno PC. Lower Cretaceous dinosaur tracks from the seashore areas of Cascais and Sintra (West Portugal): its important contribution for touristic routes enhanced by the geological heritage. XV Congreso Internacional sobre Patrimonio Geológico y Minero y de la XIX Sesión Científica de la SED-PGYM (2015).

- Santos V, Alho JM, Razzolini N, Castanera D, Reis J, Ribeiro B, Malafaia E, Rodrigues N. XV Congreso Internacional sobre Patrimonio Geológico y Minero y de la XIX Sesión Científica de la SEDPGYM (2015).
- Sarıtaş Ö, Ozbasaran M, Peters J, Buitenhuis H, Pöllath N. Red Deer and Human: From Palaeolithic to Iron Age in Anatolia. 12th International ASWA Conference, Groningen, Netherlands (10.-13.06.2015).
- Scheungrab M, Koch P, Schulze K, Wanner G, Heß M. 3D fine structure and interconnections of cone pedicles in the European anchovy. 107th Annual meeting of the German Zoological Society, Göttingen, Germany. p. 226 (2014).
- Scheungrab M, Guder P, Schulze K, Börgens K, Gour A, Helms-taедter M, Wanner G, Heß M. 3D-imaging and analysis of neural networks using combined 3D-EM approaches. Microscopy Conference, Göttingen, Germany. p. 800 (2015).
- Scheungrab M, Schulze K, Wanner G, Heß M. Order in the chaos - unscrambling the interlaced fine structures of anchovy cone pedicles. 11th Meeting of the German Neuroscience Society, Göttingen, Germany. p. 689-699 (2015).
- Schlüter N, Reich M, Thuy B, Gale A, Wiese F. Survivors of the Cretaceous OAE1 – modern deep-sea fauna much earlier than expected. European Echinoderms Colloquium, Portsmouth, UK. p. 66 (20.07.-23.07.2014).
- Schlüter N, Wiese F, Reich M. Persistence of atelostomate sea urchins (Spatangoida and Holasteroida; irregular echinoids) in the deep sea, or repeated migration events into the deep sea?. IODP/ICDP Kolloquium 2015. Steinmann-Institut, Universität Bonn, Deutschland. p. 116-118 (02.03.-04.03.2015).
- Schulz-Mirbach T, Ladich F, Plath M, Metscher BD, Heß M. What do we know about otolith function in hearing? – insights from cichlids and lifebearing fish. 5th International Otolith Symposium, Mallorca, Spain. p. 93-94 (2014).
- Schulz-Mirbach T, Ladich F, Plath M, Heß M. The role of otolith size in hearing – insights from cichlid fishes. 15th European Congress of Ichthyology, Porto, Portugal. *Frontiers in Marine Sciences* doi: 10.3389/conf.fmars.2015.03.00034 (2015).
- Schulz-Mirbach T, Ladich F, Plath M, Heß M. Does improved hearing result in altered inner ear morphology? 15th European Congress of Ichthyology, Porto, Portugal. *Frontiers in Marine Sciences* doi: 10.3389/conf.fmars.2015.03.00020 (2015)
- Schulze K, Heß M, Schönitzer K. Treehoppers (Hemiptera, Membracidae) of Panguana (Peru). A close look on strange shapes. 8th Meeting of NOBIS Austria, Munich, Germany. p. 36 (2014).
- Segura M, Barroso-Barcenilla F, Berrocal-Casero M, Castanera D, García-Hidalgo JF, & Santos VF The new Cenomanian vertebrate tracksite of Tamajón (Guadalajara, Spain): Sedimentary environment. *Resúmenes XXXI Jornadas Paleontología* (2015).
- Segura M, Barroso-Barcenilla F, Berrocal-Casero M, Castanera D, García-Hidalgo JF, Santos VF. A new upper Cretaceous vertebrate tracksite at Tamajón (Guadalajara, Spain): Geological context and palaeoenvironmental implications. „Paleontología i Evolució, memòria especial“. Reconstructing the terrestrial end-cretaceous paleoenvironments in Europe (2014).
- Semperebon G, Rivals F, Fahlke J, Sanders W, Lister A, Göhlich UB. The effect of insular dwarfism on dietary niche occupation in mammoths: what were the pygmy mammoths from Santa Rosa Island of California eating? VIth International Conference on Mammoths and their relatives, Grevena and Siatista, Macedonia, Greece. p. 182-183 (05.-12.05.2014).
- Semperebon G, Rivals F, Fahlke J, Sanders W, Lister A, Göhlich UB. The effect of insular dwarfism on dietary niche occupation in pygmy mammoths from the Channel Islands of California. 74th Meeting of the Society of Vertebrate Paleontology, Berlin, Germany. p. 277 (05.-08.11.2014).
- Semperebon G, Sanders W, Lister A, Morgan M, Cerling TE, Rivals F, Göhlich UB, Fahlke J. Dietary reconstruction of fossil proboscideans from the Siwalik Series of Pakistan using enamel microwear and carbon isotopes. 75th Annual Meeting of the Society of Vertebrate Paleontology. Dallas, USA. p. 211 (14.-17.10.2015).
- Servais T, Nützel A, Martin R. Did the „terrestrialisation process“ result in a „phytoplankton blackout“ in the Late Palaeozoic? 9th European Palaeobotany and Palynology conference, Padova, Italy. p. 152 (26.-31.08.2014).
- Servais T, Martin RE, Nützel A. No „Phytoplankton Blackout“ in the late Paleozoic. Geological Society of America Annual Meeting, Baltimore, USA. Abstract 261135 (01.-04.11.2015).
- Sprinkle J, Reich M, Lefebvre B. Computed tomography (CT) scans of a new Ordovician cyclocystoid from Morocco and its orientation and life mode. *Progress in Echinoderm Palaeobiology*, Zaragoza, Spain (14.06.-21.06.2015).
- Stegemann TR, O’Loughlin PM, Reich M. Hard part morphology of some living *Taeniogyrus* species (Holothuroidea: Apodida: Chiridotidae). 7th North American Echinoderm Conference, University of West Florida, Pensacola, USA. p. 17 (01.06.-06.06.2014).
- Stegemann TR, O’Loughlin PM, Reich M. Hard part morphology of some living *Taeniogyrus* holothurian species (Apodida: Chiridotidae). European Echinoderms Colloquium, Portsmouth, UK. p. 46 (20.07.-23.07.2014).
- Sumner-Rooney L, Sigward J, Williams S, Heß M, Schwabe E. The evolution of eye reduction: lessons from a family of deep-sea gastropods. ICIM3, Berlin, Germany. p. 51 (2014).
- Tillmann U, Alpermann T, Cembella A, Gottschling M, Kremp A, Krock B, Nézan E, Sala M, Tahvanainen P. Characterisation of HAB species from the Greenland/Iceland subarctic region. Abstract/Talk: 16th International Conference on Harmful Algae, Wellington, New Zealand (2014).
- Vila B, Castanera D, Marmi J, Canudo JI, Galobart À. Crocodile swim tracks as indicators of the latest Cretaceous paleoenvironments of Europe. *Paleontologia i Evolució, memòria especial*. Reconstructing the terrestrial end-cretaceous paleoenvironments in Europe (2015).
- Villier L, Breton G, Desmares D, Jagt JWM, Morel N, Néraudeau D, Reich M, Roux M. Echinoderm diversity of Cretaceous deposits at Le Mans (France). European Echinoderms Colloquium, Portsmouth, UK. p. 52 (20.07.-23.07.2014).

- Voytsekhovich A, Beck A. Diversity of algal component in saxicolous lichen communities of Karadag Nature Reserve (Crimea). In: Munzi S, Ulm F (Eds.). 8th Congress of the International Symbiosis Society, Lisbon, Portugal. p. 218 (12.-18. 07.2015).
- Wiese F, Schlüter N, Reich M, Zirkel J, Herrle J. From bycatch to main dish – spines of irregular echinoids as monitors for macrofaunal dynamics in the deep sea during the Cenozoic critical intervals? A pilot study. IODP/ ICDP Kolloquium 2015. Steinmann-Institut, Universität Bonn, Deutschland. p. 134-135 (02.03.-04.03.2015).
- Zinßmeister C, Coats DW, Knebelberger T, Gottschling M, Hoppenrath M. Possible phylogenetic position of the parasitic dinoflagellate *Syrtodinium listii* Drebes (Dinophyceae, Gymnodiniales). Abstract/Poster: VII ECOP-ISOP joint meeting, Seville, Spain (2015).

Teaching

- Bodensteiner P, Facher EJ, Gottschling M, Heinrichs J, Heubl G. Praktikum zur Artenvielfalt mit Exkursionen. Summer Semester 2015, 4 hours/week.
- Bodensteiner P, Facher EJ, Feldberg K, Gottschling M, Heinrichs J, Heubl G. Praktikum zur Artenvielfalt mit Exkursionen. Summer Semester 2014, 4 hours/week.
- Erpenbeck D. Morphokurs: Evertebrata I. Winter Semester 2014/2015, 1 hour/week.
- Erpenbeck D. Einführung in die molekulare Paläobiologie. Summer Semester 2014, 4 hours/week.
- Erpenbeck D. Systematics and Phylogenetics. Winter Semester 2014/2015, 2 hours/week.
- Erpenbeck D. Advanced Invertebrate Paleobiology: Bilateria. Winter Semester 2014/2015, 2 hours/week.
- Erpenbeck D. Advanced Invertebrate Geobiology: Non-Bilateria. Winter Semester 2014/2015, 2 hours/week.
- Erpenbeck D. Introduction into Advanced Concepts in Biology. Winter Semester 2014/2015, 2 hours/week.
- Erpenbeck D. Methods in Paleobiology. Summer Semester 2014, 2 hours/week.
- Erpenbeck D. Research Project & Research Project Design. Winter Semester 2014/2015, 2 hours/week.
- Erpenbeck D. Molecular methods in Geobiology. Summer Semester 2014, 2 hours/week.
- Erpenbeck D. Phylogenetic Analysis of Molecular and Morphological characters. Summer Semester 2014, 2 hours/week.
- Erpenbeck D. Morphokurs: Evertebrata I. Winter Semester 2015/2016, 1 hour/week.
- Erpenbeck D. Einführung in die molekulare Paläobiologie. Summer Semester 2015, 4 hours/week.
- Erpenbeck D. Systematics and Phylogenetics. Winter Semester 2015/2016, 2 hours/week.
- Erpenbeck D. Advanced Invertebrate Paleobiology: Bilateria. Winter Semester 2015/2016, 2 hours/week.
- Erpenbeck D. Advanced Invertebrate Geobiology: Non-Bilateria. Winter Semester 2015/2016, 2 hours/week.
- Erpenbeck D. Introduction into Advanced Concepts in Biology. Winter Semester 2015/2016, 2 hours/week.
- Erpenbeck D. Methods in Paleobiology. Summer Semester 2015, 2 hours/week.
- Erpenbeck D. Research Project & Research Project Design. Winter Semester 2015/2016, 2 hours/week.
- Erpenbeck D. Molecular methods in Geobiology. Summer Semester 2014, 2 hours/week.
- Erpenbeck D. Phylogenetic Analysis of Molecular and Morphological characters. Summer Semester 2015, 2 hours/week.
- Erpenbeck D, Rauhut OWM, Wörheide G. Systematics and Phylogenetics. Winter Semester 2013/2014, 2 hours/week.
- Erpenbeck D, Wörheide G. Systematics and Phylogenetics. Winter Semester 2014/2015, 2 hours/week.
- Erpenbeck D, Wörheide G. Systematics and Phylogenetics. Winter Semester 2015/2016, 2 hours/week.
- Facher EJ, Gottschling M, Heinrichs J, Heubl G. Botanik und Mykologie. Winter Semester 2014/2015, 4 hours/week.
- Facher EJ, Gottschling M, Heinrichs J, Heubl G. Botanik und Mykologie. Winter Semester 2015/2016, 4 hours/week.
- Feldberg K, Krings M, Heinrichs J. Praktikum Evolution und Systematik der Farne und Bärlappe. Winter Semester 2014/2015, 4 hours/week.
- Fleischmann A. Artenvielfaltkurs Botanik. Summer Semester 2014, 3 hours/week.
- Fleischmann A. Exkursionen Artenvielfaltkurs Botanik. Summer Semester 2014, 1 hour/week.
- Fleischmann A. Artenvielfaltkurs Botanik. Summer Semester 2015, 3 hours/week.
- Fleischmann A. Exkursionen Artenvielfaltkurs Botanik. Summer Semester 2015, 1 hour/week.
- Goebel V. Tiermedizinische Terminologie. Winter Semester 2014/2015, 2 hours/week.
- Goebel V. Tiermedizinische Terminologie. Winter Semester 2015/2016, 2 hours/week.
- Goebel V. Geschichte der Tiermedizin Summer Semester 2015, 1 hour/week.
- Goebel V. Tiermedizinische Terminologie für Wiederholer. Summer Semester 2015, 2 hours/week.
- Goebel V. Einführung in die Sammlung historischer Instrumente und Objekte der Tiermedizin. Summer Semester 2015, 1 hour/week.
- Göhllich UB. Collection management and research. Winter Semester 2014/2015, 2 hours/week.
- Gottschling M. Morphologie, Evolution und Diversität der Samenpflanzen. Summer Semester 2014, 4 hours/week.
- Gottschling M. Morphologie, Evolution und Diversität der Samenpflanzen. Summer Semester 2015, 4 hours/week.
- Gottschling M. Biology of calcareous dinophytes. Summer Semester 2014, 8 hours/week.
- Gottschling M. Biology of calcareous dinophytes. Summer Semester 2015, 8 hours/week.
- Gottschling M. Vergleichende Anatomie von Blütenpflanzen. Winter Semester 2014/2015, 8 hours/week.
- Gottschling M. Vergleichende Anatomie von Blütenpflanzen. Summer Semester 2015, 2 hours/week.
- Gottschling M, Facher EJ. Einführung in die Ausbreitungsbiologie der Samenpflanzen und mikroskopische Techniken. Winter Semester 2014/2015, 1 hour/week.
- Gottschling M, Facher EJ. Morphologie und Diversität der eukaryotischen Algen und mikroskopische Techniken. Winter Semester 2015/2016, 2 hours/week.
- Grupe G, Haszprunar G, Krings M, Renner S. Systematic Data and Evidence Lecture. Winter Semester 2014/2015, 4 hours/week.
- Grupe G, Haszprunar G, Krings M, Renner S. Systematic Data and Evidence Lecture. Winter Semester 2015/2016, 4 hours/week.

- Heinrichs J, Krings M. Praktikum Evolution und Systematik der Farne und Bärlappe. Winter Semester 2014/2015, 6 hours/week.
- Heß M et al. Vorlesung Artenvielfalt Zoologie. Summer Semester 2014, 1 hour/week.
- Heß M et al. Praktikum Artenvielfalt Zoologie. Summer Semester 2014, 3 hours/week.
- Heß M. Eintagesexkursion Artenvielfalt Zoologie. Summer Semester 2014.
- Heß M, Böttger A. Praktikum Biologie des Wattenmeeres. Summer Semester 2014, 6 hours/week.
- Heß M, Böttger A. Seminar Biologie des Wattenmeeres. Summer Semester 2014, 2 hours/week.
- Heß M. Exkursion Hochalpen. Summer Semester 2014, 3 hours/week.
- Heß M. Seminar Hochalpen. Summer Semester 2014, 2 hours/week.
- Heß M. Vorlesung Biolumineszenz + Sehsysteme. Summer Semester 2014, 2 hours/week.
- Heß M et al. Ringvorlesung Meeresbiologie. Winter Semester 2014/2015, 2 hours/week.
- Heß M et al. Zoologischer Grundkurs. Winter Semester 2014/2015, 3 hours/week.
- Heß M et al. Vorlesung Zoologie, Nebenfach Biologie. Winter Semester 2014/2015, 2 hours/week.
- Heß M et al. Staatsexamensvorbereitung Zoologie. Winter Semester 2014/2015, 3 hours/week.
- Heß M. Forschungspraktikum Spezielle Zoologie. Winter Semester 2014/2015.
- Heß M et al. Blockpraktikum Niedere Evertabrata. Winter Semester 2014/2015.
- Heß M. Computerpraktikum Biolumineszenz. Winter Semester 2014/2015, 3 hours/week.
- Heß M et al. Vorlesung Artenvielfalt Zoologie. Summer Semester 2015, 1 hour/week.
- Heß M et al. Praktikum Artenvielfalt Zoologie. Summer Semester 2015, 3 hours/week.
- Heß M. Eintagesexkursion Artenvielfalt Zoologie. Summer Semester 2015.
- Heß M, Böttger A. Praktikum Biologie des Wattenmeeres. Summer Semester 2015, 6 hours/week.
- Heß M, Böttger A. Seminar Biologie des Wattenmeeres. Summer Semester 2015, 2 hours/week.
- Heß M. Exkursion Hochalpen. Summer Semester 2015, 3 hours/week.
- Heß M. Seminar Hochalpen. Summer Semester 2015, 2 hours/week.
- Heß M. Vorlesung Biolumineszenz + Sehsysteme. Summer Semester 2015, 2 hours/week.
- Heß M et al. Ringvorlesung Meeresbiologie. Winter Semester 2015/2016, 2 hours/week.
- Heß M et al. Zoologischer Grundkurs. Winter Semester 2015/2016, 3 hours/week.
- Heß M et al. Vorlesung Zoologie um Nebenfach Biologie. Winter Semester 2015/2016, 2 hours/week.
- Heß M et al. Staatsexamensvorbereitung Zoologie. Winter Semester 2015/2016, 3 hours/week.
- Heß M. Forschungspraktikum Spezielle Zoologie. Winter Semester 2015/2016.
- Krings M, Reichenbacher B. Evolution of Life. Winter Semester 2015/2016, 4 hours/week.
- Mayr C. Marine Geologie. 2014/2015.
- Mayr C. Paläontologische Arbeitsmethoden. 2014/2015.
- Mayr C, Matzke-Karasz R. Geobiologie II (Gelände- und Laborkurs). 2014/2015.
- Mayr C. Microfacies of Carbonates. 2014/2015.
- Mayr C. Methods in Paleobiology. 2014/2015.
- Mayr C. Introduction into Advanced Concepts in Geology – Micro-paleontology. 2014/2015.
- Mayr C. Global Cycles. 2014/2015.
- Mayr C. Concepts of Bioconstruction: Microfacies of Carbonates. 2014/2015.
- Mayr C. Methods in Paleobiology. 2014/2015.
- Melzer R. Meeresbiologisches Geländepraktikum in Rovinj (Kroatien); Zoologie/Systematische Biologie/Lehramt.
- Melzer R. Einführung in die Meeresbiologie, 2 hours/week. Biologie allg., Zoologie, systematische Biologie, Ökologie.
- Melzer R. Biologie der Arthropoda und Mollusca; Zoologie, Systematische Biologie.
- Melzer R. Morphologie, Evolution und Diversität der Arthropoda
- Nützel A. Malacology for zoologists. Winter Semester 2013/2014, 2 days.
- Nützel A, Wörheide, Erdgeschichte. Winter Semester 2013/2014, 2 hours/week.
- Nützel A. Paleocology. Winter Semester 2013/2014, 2 hours/week.
- Nützel A, Wörheide G, Erdgeschichte. Summer Semester 2014, 2 hours/week.
- Nützel A. Paleocology. Summer Semester 2014, 2 hours/week.
- Nützel A, Wörheide G. Geobiology Field Practical. Summer Semester 2014, 2 hours/week.
- Nützel A. Malacology for zoologists. Winter Semester 2014/2015, 2 days.
- Nützel A. Paleocology. Winter Semester 2014/2015, 2 hours/week.
- Nützel A, Wörheide G. Erdgeschichte. Summer Semester 2015, 2 hours/week.
- Nützel A, Wörheide G, Kustatacher E. Geobiology Field Practical. Summer Semester 2015, 5 days.
- Nützel A. Paleocology. Summer Semester 2015, 2 hours/week.
- Nützel A, Wörheide G. Geobiology Field Practical, Südtirol. Summer Semester 2015
- Nützel A. Malacology for zoologists. Winter Semester 2015/2016, 2 days.
- Peters J. Functional Anatomy and Archaeobiology. Winter Semester 2013/2014, 1 hour/week.
- Peters J. Functional Anatomy and Archaeobiology. Winter Summer 2014/2015, 1 hour/week (geblockt).

- Peters J. Geschichte der Tiermedizin. Summer Semester 2014, 1 hour/week.
- Peters J. Einführung in die naturwissenschaftlichen Methoden. Summer Semester 2014, 3 hours/week.
- Peters J. Einführung in die naturwissenschaftlichen Methoden. Summer Semester 2015, 1 hour/week.
- Peters J. Einführung in die Vergleichende Osteologie der Säugetiere Teil II. Summer Semester 2014, 1 hour/week.
- Peters J. Einführung in die Vergleichende Osteologie der Säugetiere Teil II. Summer Semester 2015, 1 hour/week.
- Peters J. Methodik der Archäozoologie, Kulturgeschichte der Haustiere, Osteologie der Säugetiere. Summer Semester 2015, 3 hours/week.
- Peters J. Paläoanatomie: Einführung in eine interdisziplinäre Forschungsrichtung. Winter Semester 2014/2015, 1 hour/week.
- Peters J, Pöllath N. Vergleichende Osteologie der Säugetiere, Teil II. Summer Semester 2014, 1 hour/week.
- Peters J, Pöllath N. Vergleichende Osteologie der Säugetiere Teil I. Winter Semester 2014/2015, 1 hour/week.
- Rauhut OWM. Osteology of tetrapods. Winter Semester, 2 hours/week.
- Reich M. Übung Paläontologie/Geobiologie, Kurse A, B, C, D. Winter Semester 2014/2015, 5,5 hours/week.
- Reich M. Übung Paläontologie/Geobiologie, Kurse A, B, C. Winter Semester 2015/2016, 4 hours/week.
- Reichenbacher B, Krings M. Evolution of Life. Winter Semester 2014/2015, 4 hours/week.
- Reichenbacher B, Wörheide G. Paläontologie/Geobiologie. Winter Semester 2014/2015, 2 hours/week.
- Reichenbacher B, Wörheide G. Paläontologie/Geobiologie, Kurs A. Winter Semester 2014/2015, 2 hours/week.
- Reichenbacher B, Wörheide G. Paläontologie/Geobiologie, Kurs B, Winter Semester 2014/2015, 2 hours/week.
- Reichenbacher B, Wörheide G. Paläontologie/Geobiologie, Kurs C, Winter Semester 2014/2015, 2 hours/week.
- Reichenbacher B, Wörheide G. Paläontologie/Geobiologie, Kurs D, Winter Semester 2014/2015, 2 hours/week.
- Reichenbacher B, Wörheide G. Paläontologie/Geobiologie. Winter Semester 2015/2016, 2 hours/week.
- Rößner G. Evolution of Mammals, Winter Semester 2014/2015, 2 hours/week.
- Rößner G. Evolution der Säugetiere: Diversität, Funktion, Phylogenie. Winter Semester 2013/2014, 2 hours/week.
- Schmahl W, Wörheide G. Concepts of Biomineralization: Lecture. Winter Semester 2014/2015, 2 hours/week.
- Schmahl W, Wörheide G. Concepts of Biomineralization: Lecture. Winter Semester 2015/2016, 2 hours/week.
- Schwarzenberger M. Tiermedizinische Terminologie. Winter Semester 2013/2014, 2 hours/week.
- Schwarzenberger M. Übungen in Tiermedizinischer Terminologie. Winter Semester 2013/2014, 1 hour/week.
- Schwarzenberger M. Einführung in die Sammlung historischer Instrumente und Objekte der Tiermedizin. Summer Semester 2014, 1 hour/week.
- Schwarzenberger M. Tiermedizinische Terminologie für Wiederholer. Summer Semester 2014, 2 hours/week.
- Voigt O, Krings M. Introduction into basic concepts in biology. Winter Semester 2014/2015, 2 hours/week.
- Voigt O, Krings M. Introduction into basic concepts in biology. Winter Semester 2015/2016, 2 hours/week.
- Wiese F, Reich M. Introduction into Advanced Concepts in Geology: Micropaleontology. Winter Semester 2015/2016, 2 hours/week.
- Wörheide G, Nützel A. Geowissenschaften II, Erdgeschichte. Summer Semester 2014, 2 hours/week.
- Wörheide G. Oceanology: Lecture. Summer Semester 2014, 2 hours/week.
- Wörheide G. Geobiology Field Practical, Südtirol. Summer Semester 2014, 2 hours/week.
- Wörheide G. Bachelor-Seminar (Vertiefung Geologie). Summer Semester 2014, 1 hour/week.
- Wörheide G, Nützel A. Geowissenschaften II, Erdgeschichte, Summer Semester 2015, 2 hours/week.
- Wörheide G. Geobiological Field Exercises: Field Practical, Geobiologie von Korallenriffen, Malediven. Summer Semester 2015.
- Wörheide G. von Korallenriffen, Malediven Marine Station Vavvaru Island, 14 days, für BSc Geowiss. Summer Semester 2015.
- Wörheide G. Oceanology: Lecture. Summer Semester 2015, 2 hours/week.

Theses and Habilitations

- Aranda DM (2015) Cranial furcation in the genus *Furcifer* (Squamata: Chamaeleonidae) revealed through micro-computer tomography and 3D imaging. M.Sc. Thesis (Haszprunar G, Glaw F).
- Bierling M (2014) Muster und Dichteverteilung der Photorezeptoren in der Zebrafischretina. B.Sc. Thesis (Heß M).
- Borja Mejía SD (2015) Paleoeological reconstructions on an Alpine lake (Ferchensee, Bavaria) with diatoms. M.Sc. Thesis (Mayr C).
- Brandlmaier B (2015) Sedimentologische und isotopengeochemische Untersuchungen an einem quartären Sedimentprofil aus Berchtesgaden. M.Sc. Thesis (Mayr C).
- Ceseña F (2015) Inventory and biogeography of benthic Chilean decapods: An analysis of „Huinay-Fjordos“ expedition samples. M.Sc. Thesis (Melzer R).
- Chu-Jen J (2015) Lokalisation of components of the Notch-signaling pathway and morphological studies in *Hydra* during budding. M.Sc. Thesis (Heß M with Böttger A).
- Dieterle C (2015) A case study on Brazilian Emeralds (Lepidoptera: Geometrinae): Best practice to involve μ CT into Integrative Taxonomy. M.Sc. Thesis (Haszprunar G, Hausmann A).
- Eckert S (2015) Biofacies, ostracods and isotopic analyses of a Wuermian profile in the northern Alps. M.Sc. Thesis (Mayr C).
- Ehret B (2014) Automated Glial Cell Detection in Serial Block-Face Electron Microscopy Data. B.Sc. Thesis (Heß M with Helms-taedter M).
- Eigler M (2014) Isotopen-geochemische Untersuchungen an einem quartären Sedimentprofil aus Berchtesgaden. B.Sc. Thesis (Mayr C).
- Enghuber N (2015) Molekular-phylogenetische Studie der Klasse Holothuroidea. B.Sc. Thesis (Erpenbeck D, Reich M).
- Evers, S. 2014. The postcranial skeleton of „Big Al 2“, an almost complete specimen of *Allosaurus* (Dinosauria, Theropoda) from the Morrison Formation (Upper Jurassic) of Wyoming. M.Sc. Thesis (Rauhut OWM).
- Fickel A (2014) Bestimmung von Stickstoffquellen an Flussabschnitten der Regnitz mithilfe von $d^{15}N$ -Analysen an aquatischen Makrophyten (*Fontinalis antipyretica* und *Myriophyllum spicatum*). B.Sc. Thesis (Mayr C).
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