



SYSTEMATICS 2008

7-11 April 2008, Göttingen

www.systematics2008.com



Programme outline

Monday, 7 April

Registration: 12.00 - 6 pm

Council meetings of societies: starting at 12.00

Meeting of curators: starting at 3 pm

Meeting of the young systematists: starting at 3 pm

Evening: welcoming party, 6 - 10 pm, Mensa 2 Wilhelmsplatz

Tuesday, 8 April

Welcome and opening remarks: 8.30 - 9.00

Plenary morning session "*Progress in Deep Phylogeny*" (invited papers): 9.00 - 12.00

Speakers:

Wolfgang Wägele: Deep Metazoan Phylogeny: On the relevance of data quality...

Thomas Bartolomaeus: Deep Metazoan Phylogeny - the morphological perspective.

Hans-Peter Schultze: Interrelationships of lower vertebrates: present agreements and controversies.

Harald Schneider: Untangling the deep nodes in the land plant phylogeny by inferring fossils and genes.

Mark Chase: The angiosperm tree of life – a morphology-rich but still poorly understood clade.

Afternoon lecture sessions (contributed papers): 1.30 - 4.30 pm

Poster session I: 4.30 - 6 pm

Presentation of Rensch award and honorary GfBS membership: 6 - 8 pm

Wednesday, 9 April

Plenary morning session "*Speciation and Phylogeography*" (invited papers):

8.30 - 12.00

Speakers:

Joachim Kadereit: Plant speciation in the Quaternary.

Frank R. Blattner: Hybridization and polyploid formation – accidents or driving forces of evolution?

Peter Linder: Radiation, diversity and history.

Axel Meyer: The origin of adaptive radiations: patterns and processes of speciation in cichlid fishes.

Heike Feldhaar: Influence of host-identity vs. host-distribution on the radiation of obligately plant-associated ants.

Alfried Vogler: DNA profiling of insect communities: what can be learned about species and speciation?

Afternoon lecture sessions (contributed papers): 1.30 - 4.30 pm

Poster session II: 4.30 - 6.30 pm

Reception by the mayor of Göttingen: 7.00 pm, Old Town Hall (Altes Rathaus)

Conference Dinner: 8.00 pm, Rathskeller

Thursday, 10 April

Plenary morning session "*New Trends in Biological Systematics*" (invited papers): 8.30 - 12.00

Speakers:

Rolf G. Beutel: Entomological enigmas and modern approaches in insect morphology.

Ernst Wimmer: Evolutionary conservation of developmental processes to infer phylogenetic relationships.

Günter Theißen: MADS about tulips, orchids and grasses: evolutionary developmental genetics of floral organ identity in monocots.

Christian Brochmann: Some recent advances in plant phylogeography.

Thomas Friedl: Identification and phylogeny of algae dominating biofilms: a challenge for algal systematics.

Dorte Janussen: Evolutionary ecology of basic metazoans from a historical viewpoint: Palaeontological evidence of sponges.

Afternoon lecture sessions (contributed papers): 1.30 - 5 pm

Business meeting of the GfBS: 5.15-6.15 pm

Business meeting of the DBG (Section "Biodiv. and Evol. Biol."): 6.15-6.45 pm

Awards and public lecture ("Festvortrag"): 8.30 - 10 pm (University Aula, Wilhelmsplatz):

Tod Stuessy (Vienna): The role of biological systematics in a modernizing world.

Friday, 11 April

Excursion: "Spring flora and forests in the surroundings of Göttingen"

9 am – 4 pm

The excursion is led by Prof. Dr. Erwin Bergmeier. Costs (transport by bus) 15 €. Bus leaves from Institute of Zoology. Be prepared for walks on unsurfaced roads and slippery paths in moderately steep terrain. Sturdy shoes and warm clothes are recommended. Bring your lunch.

Workshop I: "Phylogeny und Biogeography of Poales"

8.15 – 12 am

Organizers: Georg Zizka & Katharina Schulte, Frankfurt, e-mail:

Georg.Zizka@senckenberg.de

Topics: systematics, (historical) biogeography, character evolution, relevant plastid and nuclear markers, etc. Focus is on families Bromeliaceae and Poaceae.

Workshop II: “Biodiversity Informatics”

9 – 12 am

Organizers: Anton Guentsch & Jörg Holetschek, Botanischer Garten und Botanisches Museum, Berlin-Dahlem, e-mail: a.guentsch@bgbm.org

Topics: Networking species occurrence data with BioCASE and GBIF – collecting data, German DNA-Bank (ca. 1,5h); The European Distributed Institute of Taxonomy (EDIT) – software architecture and tools (ca. 1,5h)

Workshop III: “Piperales: an integrative multidisciplinary approach”

1 – 4 pm

Organizers: Stefan Wanke & Christoph Neinhuis, Dresden, Marie Samain, Belgium, e-mail: stefan.wanke@tu-dresden.de

Topics: systematics and phylogeny, phylogeography, biomechanics and functional surfaces, genomic and subgenomic studies, ecological studies, ethnobotany, databases, morphology, taxonomy

Workshop IV: “DNA sequence alignment for phylogenetic analysis - current approaches and future prospects“

1 – 4 pm

Organizers: Kai Müller, Bonn & Dietmar Quandt, Dresden, e-mail: kaimueller@uni-bonn.de

Topics: primary and secondary homology assessment, combining alignment and tree building, current improvements to computerized procedures, incorporating secondary structure information into alignment, single event sequence blocks and coding of microstructural changes

Workshop V: “Pixel-Voxel-Morphology – Introduction to working with μ CT-data”

9 am - 4 pm

Organizer: Thomas Hörnschemeyer, Göttingen, e-mail: thoerns@gwdg.de

Participation: max. 12.

Language: German or English as required.

Topics: Based on sample datasets participants will learn how to analyse and manipulate μ CT-data with the software TGS Amira® 4.1. The procedure from data acquisition to the reconstruction of a three dimensional dataset will be demonstrated with a SkyScan Micro-CT desktop machine.