

SAGE 2013

**2nd Southeast Asian Gateway Evolution Meeting
March 11-15, Berlin, Germany**

Conference Program and Abstracts

**Museum für Naturkunde –
Leibniz Institute for Research on Evolution and Biodiversity**

Humboldt-Universität zu Berlin

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Welcome to SAGE 2013

Dear delegate,

we warmly welcome you to the 2nd International conference on Southeast Asian Gateway Evolution (SAGE 2013) in Berlin. The meeting focuses on the origin, diversification, and conservation of Southeast Asia's megadiverse fauna and flora against the background of the region's complex geology and climate history. The diverse topics covered by the eight symposia and workshops of SAGE 2013 reflect the interdisciplinary nature of this conference. The wide range of fields represented offers the chance to establish crosslinks between the disciplines and we hope that this will spurn fruitful discussions and help to foster new research projects and alliances. Our ultimate goal is to gain a less anecdotal and rather more synthetic understanding of the co-evolution of life and earth in SE Asia that would also help us to slow the ever-increasing loss of natural habitats in this rapidly growing region.

We hope you will enjoy the meeting,
the SAGE 2013 Organizing Committee

General Information

Coffee and Tea Breaks

Hot and cold beverages and refreshments will be available during the morning and afternoon breaks at the lobby in front of the lecture halls.

Lunch

A buffet lunch will be available in the *Senate Hall* in the main building of the Humboldt University just across the road from the lecture venue (map on p. 208). The posters will be on display in the Senate Hall as well.

Evening meals are not included in the conference package, please refer to the map on the inner back cover of the conference book for restaurants in the vicinity of the meeting venue (see also below).

Conference Dinner (by reservation only)

All delegates that have opted for the conference dinner will receive a personalized voucher with their conference package. Please bring this voucher with you to the conference dinner shuttle bus where it will be collected.

Internet Access

All delegates will receive a voucher with a WiFi access code with their conference package. Wireless internet access will be available throughout the meeting.

Meeting Rooms

Several seminar rooms for *ad hoc* discussions and meetings will be available throughout the conference in the immediate vicinity of the lecture halls. Please contact the conference desk staff for access.

Security Issues

The conference venue does not have any access restrictions to the public and the university building housing the lecture halls will also be used by university members during the time of the conference. We have been warned by the university's facility management unit that thefts are regrettably common in this area, especially during conferences, and have been committed by people in formal attire wearing badges. Please do not leave any valuables including mobile phones, laptops etc. unattended at any time. **We also request you to wear your badge at all times during the conference.** The staff supervising the refreshment and meal breaks has also been instructed to only serve delegates wearing the conference badge.

Restaurants, Pubs and Bars

You will find a wide range of restaurants and pubs/bars within walking distance of the conference venue. Some hotspot areas for dining have been highlighted on the map on the inner back cover of the conference book, but this is by no means an exhaustive list. More information can be found, e.g., on www.timeout.com/berlin.

Service is always included in Germany, so tipping is in recognition of decent service rather than a necessity (usually 5-10%).

Smoking is only permitted in some pubs and bars, look out for the respective signs. No warm food will be served in these places, though.

Places to see

We do not offer a dedicated program for accompanying persons, but Berlin offers a wide choice of sightseeing options for all tastes. Please take a look at the brochures included in your conference package for a first overview. You might also want to check out www.timeout.com/berlin.

Venue

The congress will be held at the main building of the Humboldt University right in the historic centre of Berlin.



© HUB

Main building of the Humboldt University with *Senatssaal* (*Senate Hall*; above main entrance; Poster Session and Drinks Reception; Tuesday, March 12) and *Auditorium maximum* (east wing of main building; Public Evening Lecture; Wednesday, March 13). See map (p. 208) for details.



© HUB

Seminar building (*Seminargebäude*) of the Humboldt University at Hegelplatz (directly behind main building; see map p. 208) with conference lecture halls.

Instructions for Presenters

Oral presentations

Time slots for regular talks will be 20 mins (15+5), keynote speakers will have 40 mins (30+10). Please make sure that your presentation will run under Office 2010 on a PC.

We will have both PCs and Macs available (with Office 2011), but we would rather prefer if we could avoid switching between systems within a session, so please try to create a presentation that will run smoothly on a PC. PDF presentations are also acceptable. Please contact the conference desk if you wish to check whether your presentation runs smoothly on our computers.

We will run two parallel sessions with oral presentations throughout the meeting and in order to permit people to smoothly switch between sessions, we must request you not to exceed the time slot allocated to your presentation.

Please give us a copy of your presentation at the earliest possible time. Please contact the support staff in the lecture theatres for uploading your talk onto our computers. At the very latest, we must have it before 8.30 for the morning sessions and before 13.30 for the afternoon sessions.

Posters

Posters must be in portrait orientation and should not exceed A0 format (c. 84x119 cm). The official poster presentation will take place on Tuesday, March 12. Please put up your poster at the earliest possible time, so that SAGE delegates will have a chance to see the posters before the poster session during the lunch breaks on Monday and Tuesday.

Adhesive pads for fixing your poster onto the poster boards are available at the conference desk.

Just before the classical poster session, you will have the chance to highlight the core message of your poster in a 'Quickfire Poster Session'. If you have not yet done so, please prepare a single Powerpoint slide for presentation in one minute or less – please see above for Powerpoint compatibility issues.

We will need your slide before 13.30 on Tuesday at the very latest.

Special Events

Icebreaker

Sunday, March 10, 19.00-22.00, Museum für Naturkunde

The Museum für Naturkunde Berlin (MfN) was founded as an institute of Humboldt University – the first modern research university – in 1810. With more than 30 million objects in the scientific collection and a fascinating exhibition the MfN is today one of the most significant institutions of its kind in the world. The Icebreaker takes place in the spectacular dinosaur hall of the museum with the biggest mounted dinosaur skeleton worldwide.

Poster Session and Drinks Reception

Tuesday, March 12, 18.15-20.00, Humboldt University (*Senate Hall*)

Present your poster and take the chance to socialize while having a drink.



Dinosaur Hall © Museum für Naturkunde

Public Evening Lecture

Wednesday, March 13, 19.00-20.30, Humboldt University (*Auditorium maximum*)

Earl of Cranbrook: “Alfred Russel Wallace and his Southeast Asian heritage“

Conference Dinner (by reservation only)

Thursday, March 14, 19.00-22.00, Schloss Friedrichsfelde (Tierpark Berlin)

We meet in front of the main building of the Humboldt University at 17.45 – our shuttle bus departs at 18.00.

The Tierpark Berlin, founded in 1955 in East Berlin, is Europe’s largest landscape zoo with c. 160 ha (c. 400 acres). The conference dinner will take place in the *Festsaal* (Ceremonial Hall) of *Schloss Friedrichsfelde*. It was built in 1685, and since its reconstruction in 1981 it houses exhibitions and is a sought-after location for cultural and social events.



Sunday, March 10

19.00-22.00

ICEBREAKER**Monday, March 11**

09.00-18.30

Oral sessions / Paleogeography workshop**Tuesday, March 12**

09.00-18.15

Oral sessions / Peat swamp workshop

18:15-20.00

POSTER SESSION AND DRINKS RECEPTION**Wednesday, March 13**

09.00-18.20

Oral sessions

19.00-20.30

PUBLIC EVENING LECTURE**Thursday, March 14**

09.00-16.30

Oral sessions

19.00-22.00

CONFERENCE DINNER**Friday, March 15**

09.00-13.00

Biodiversity workshop

Workshops

For a more extensive description of the topics and aims of the workshops, please also see the conference website (www.sage2013.org/program).

Paleogeography

Monday, March 11, 14.00-17.30, Lecture Hall 1.103

Organizers: Dr. Mark de Bruyn & Prof. Robert Hall

We will use blow-ups of Robert Hall's geological reconstructions and maps of land and sea to discuss and identify key questions that require our combined focus. This session will also likely generate opportunities for combined future research projects, and identify funding mechanisms that may be targeted to achieve these goals.

Peat swamps

Thursday, March 14, 11.20-17.45, Lecture Hall 1.103

Organizer: Dr. Lukas Rüber

The SE Asian peat swamp forest workshop aims for a high-profile review paper to be composed. Possible focal points include:

- 1) the urgent need for biodiversity inventories, e-Taxonomy sources, predictive species distribution modelling and conservation efforts based on phylogenetic frameworks to maximise the preservation of evolutionary history.
- 2) review of PSF deforestation rates, delineate regions with still intact PSF, provide a summary of different land use changes (i.e. urbanization, oil palm plantations), assessing the proportion of oil palm plantations used for biofuel production.

Biodiversity

Friday, March 14, 09.00-13.00, Lecture Hall 1.102

Organizers: Dr. Thomas von Rintelen & Prof. Peter Ng

The workshop arising from the Biodiversity Symposium is aiming at developing an action plan for SE Asia.

Monday, March 11

Lecture Hall 1.101

- 09.00 **Opening of conference and welcome addresses**
President, Humboldt-Universität zu Berlin, Prof. Dr. Jan-Hendrik Olbertz
Director General, Museum für Naturkunde, Prof. Dr. Johannes Vogel
Vice Ambassador of Indonesia, Dr. Siswo Pramono

Plenary Session

- 09.30 **Wallacean paleogeography** **Robert Hall**

Palaeobiogeography Symposium

- 10.20 **Fossil avifaunas from insular Southeast Asia and their implications for avian biogeography** **Hanneke Meijer**

11.00 **TEA & COFFEE BREAK**

- 11.20 **Island rule and habitat selection: exploring factors behind the body size reduction of the Javanese fossil bovid *Duboisia santeng*** **Roberto Rozzi**
- 11.40 **Trends of body size evolution in the fossil record of insular Southeast Asia** **Alexandra van der Geer**
- 12.00 **Plio-Pleistocene reef-coral diversity in the Sulu Sea Sabah: Implications for the development of the Indo-Pacific centre of diversity** **Jasmin Ng Saw**
- 12.20 **The Plio-Pleistocene mammal fauna and paleoenvironment in central Myanmar** **Yuichiro Nishioka**
- 12.40 **The origin of Neogene Indonesian *Babylonia* fossils and their tertiary paleogeographic significance** **Aswan**

13.00 **LUNCH**

- 14.00 **Bryozoan diversity in the Miocene of East Kalimantan, Indonesia** **Emanuela Di Martino**
- 14.20 **Mollusks as seagrass indicators in the Miocene of Indonesia** **Sonja Reich**
- 14.40 **Understanding the murky origins of coral diversity in the Coral Triangle** **Nadiezhdia Santodomingo**
- 15.00 **Origin and evolution of tapirids in Southeast Asia** **Hao-wen Tong**
- 15.20 **First discovery of a hippopotamus fossil from Thailand and its significance on palaeobiogeography in SE Asia** **Rattanaphorn Hanta**

15.40 **TEA & COFFEE BREAK**

- 16.10 **Carnivora from the Middle Miocene of Southeast Asia and palaeobiogeography of Miocene Asian Carnivora** **Camille Grohé**
- 16.30 **Faunal turnover in ancient (Paleogene/Neogene) coral reefs in Sarawak, Malaysia** **Morana Mihaljevic**
- 16.50 **Migration and extinction of conifers during the Cenozoic: Evidence from the fossil record in Thailand** **Paul Grote**
- 17.10 **Was Southeast Asia a distinct zoogeographical province during the Mesozoic?** **Eric Buffetaut**
- 17.30 **Palaeobiogeography of the freshwater sharks from the Mesozoic of Thailand** **Gilles Cuny**
- 17.50 **New report of the large crocodylian '*Sunosuchus thallicus* from the Phu Kradung Formation of northeastern Thailand** **Jeremy Martin**

18.10

Peat Swamp Symposium

| | | |
|-------|--|---------------------|
| 10.20 | Peat swamps and oil palms | Janice Lee |
| 11.00 | TEA & COFFEE BREAK | |
| 11.20 | Evolutionary diversification in an endangered biodiversity hotspot: The Southeast Asian peat swamp forest fish fauna | Lukas Rüber |
| 11.40 | Possible mimicry in peat swamp fish | Heok Hui Tan |
| 12.00 | Forecasting global extinctions of freshwater fishes in Sundaland's peat swamp forests | Xingli Giam |
| 12.20 | Loss of SE Asian peat swamp forests: A global concern | Catherine M. Yule |
| 12.40 | Impacts of forest disturbance on peat swamp forest fauna and flora | Susan E. Page |
| 13.00 | LUNCH | |
| 14.00 | Infrastructure affects ecosystem functioning of North Selangor peat forest, Peninsular Malaysia | Sonja Raub |
| 14.20 | Muddy waters: An investigation into the resilience of tropical peat swamp forests in the face of agricultural expansion | Lydia Cole |
| 14.40 | Self-regulation and restoration of tropical peat swamps | Hans Joosten |
| 15.00 | Options for tropical paludiculture in Indonesian peat swamps | Wim Giesen |
| 15.20 | Tropical peatland conservation and rehabilitation as a sustainable economic development option for private sector and local communities | Marcel J. Silvius |
| 15.40 | TEA & COFFEE BREAK | |
| 16.10 | Relating biophysical parameters across a Peat dome with airborne LiDAR data | Veraldo Liesenberg |
| 16.30 | Forest Regrowth and Peat Subsidence Analysis in the Ex-Mega Rice Project (Block C) in Central Kalimantan | Viktor Böhm |
| 16.50 | Committed carbon emissions from oil palm plantation expansion onto Kalimantan peatlands | Kimberly M. Carlson |
| 17.10 | Using LiDAR to estimate forest carbon stocks and carbon emissions by fire | Florian Siegert |
| 17.30 | Peatland evolution in SE-Asia: Sea-level and climate controls and impacts on the global carbon cycle | René Dommain |
| 17.50 | Carbon losses from plantations on drained tropical peat in Southeast Asia | John Couwenberg |
| 18.10 | REDD+ route to conserving biodiversity and mitigating threats to peatlands | Laura D'Arcy |

Tuesday, March 12

Lecture Hall 1.101

Plenary Session

09.00 Terrestrial and limnic insights into Southeast Asian biogeography Mark de Bruyn

Biogeography Symposium

09.50 Soils on exposed Sunda Shelf shaped biogeographic patterns in the equatorial forests of Southeast Asia Ferry Slijk

10.30 Biogeographic patterns of butterfly diversification in Southeast Asia David Lohman

10.50 TEA & COFFEE BREAK

11.20 Niche conservatism, dispersal capacity, and phylogenetic constraints in the assembly of fern diversity in East Malesia Harald Schneider

11.40 Biogeography of sundaic freshwater crabs Sebastian Klaus

12.00 Palms and the evolution of the rain forests of SE Asia William Baker

12.20 Endemic weevils and the islands of the Sunda arc – Zoogeography of the genus *Trigonopterus* Alexander Riedel

12.40 Deciphering the origins of massive radiations in the Indo-Australian archipelago Emmanuel Toussaint

13.00 LUNCH

14.00 *Vincetoxicum* (Apocynaceae-Asclepiadoideae) – an African genus radiating in South-East Asia Sigrid Liede-Schumann

14.20 The impact of India on the caecilian amphibian fauna of Asia David Gower

14.40 Dispersal across Wallacea – a case study on *Aglaiia* (Aglaiaceae, Meliaceae) Melanie Grudinski

15.00 Cenozoic faunal exchange between India and Southeast Asia Sebastian Klaus

15.20 The Indochinese-Sundaic biotic transition on the Thai-Malay peninsula David Woodruff

15.50 TEA & COFFEE BREAK

16.20 Layers in the landscape: The SE Asian flora in NE Queensland Craig Costion

16.40 Cross-taxon biogeographical patterns at the Malesian floristic interchange Daniel Thomas

17.00 Revisiting lines drawn in Indo-Pacific region: Insights coming from 3ia method Visotheary Ung

17.20 Origin of the Malesian flora: General historical biogeographic patterns Peter van Welzen

17.45 QUICKFIRE POSTER SESSION

18.15 POSTER SESSION AND DRINKS RECEPTION, *Senatssaal* (see map)

Geohazards Symposium

| | | |
|-------|--|---------------------------|
| 09.50 | Utilizing the conservation-based geological heritage in Indonesia: Case study on Batur-Bali and Merangin-Jambi Geoparks | Yunus Kusumahbrata |
| 10.30 | Intertidal bioerosion of rocky coasts in Southeast Asia – Sea-level change and coastal tectonics | Miklos Kazmer |
| 10.50 | TEA & COFFEE BREAK | |
| 11.20 | Geochemical characteristics and volcanic hazard potential of Sorikmarapi Volcano, Indonesia | Eka Kadarsetia |
| 11.40 | Seismotectonics and the potential earthquake hazard in the strategic Sunda Strait region, Indonesia | Asdani Soehaimi |
| 12.00 | Ujung Kulon Peninsula in West Java and its depositional tsunami signatures generated by the eruption of Krakatau | Yan Iskandarsyah |
| 12.20 | Geo-diversity characterizing geohazard in West Java, Indonesia and slope stabilization system using vegetative method | Febri Hirnawan |
| 12.40 | The existence of coastal forest, its implication for tsunami hazard protection: A case study in Cilacap, Central Java, Indonesia | Yudhicara |
| 13.00 | LUNCH | |
| 14.00 | Geological natural disasters in Gunung Halu Mountain area and surroundings, Bandung District, West Java | Dicky Muslim |
| 14.20 | The fluid geochemistry of LUSI mud volcano, East Java, Indonesia | Akhmad Zaenuddin |
| 14.40 | Landslides hazard zone around Mount Batur Geopark, Bali-Indonesia | Muhammad Wafid |
| 15.00 | The role of geologists in supporting geo-conservation through Rinjani geo-tourism and geopark development | Heryadi Rachmat |
| 15.20 | Landslide susceptibility zonation model on Jeneberang Watershed using GIS and analytical hierarchy process | Muchtar Solle |
| 15.50 | TEA & COFFEE BREAK | |
| 16.20 | Earthquake hazard analyses and the disappearance of Megalith Culture in Central Sulawesi island | Asdani Soehaimi |
| 16.40 | Debris flow simulation at Bawakaraeng Mountain, South Sulawesi | Eka Kadarsetia |
| 17.00 | Geohazard potential of drainage basins around the Enarotali Area in Central Papua, Indonesia | Maran Gultom |

18.15 **POSTER SESSION AND DRINKS RECEPTION, *Senatssaal* (see map)**

Wednesday, March 13

Lecture Hall 1.101

Plenary Session

09.00 20 million years of change in the life and environments of SE Asia Willem Renema

General Session

09.50 Differential response of carbonate producers to Miocene global change in East Kalimantan Kenneth Johnson

10.10 Foraminiferal assemblages in Miocene carbonates of Indonesia Vibor Novak

10.30 Microbial carbonates in Miocene reefs in the Mahakam Delta in East Kalimantan, Borneo, Indonesia Vedrana Pretkovic

10.50 **TEA & COFFEE BREAK**

11.20 The evolution of Indo-Pacific reef building coralline algae Anja Rösler

11.40 An unusual Holocene mollusc fauna from anchialine Lake Kakaban (Kalimantan, Indonesia) Frank Wesselingh

12.00 Biodiversity changes of an Early Quaternary calcareous nannofossil assemblage in Rembang Zone, East Java Basin Halmi Insani

12.20 Faunal association and paleoecology of the Jurassic formations of Misool archipelago, Indonesia Fauzie Hasibuan

12.40 Large strombids from the Neogene formations of the Philippines: Their taxonomic and paleobiogeographic significance Yolanda Aguilar

13.00 **LUNCH**

14.00 Cenozoic climate change, tectonics, eyes and diversification in the deep-sea: Evolution of diversity in the gastropod family Solariellidae Suzanne Williams

14.20 Oligocene to Pliocene palaeovegetation maps for Sundaland Robert Morley

14.40 Palaeoenvironments in Sangiran from the Late Cenozoic Marlia Rosyidah

15.00 An ecological classification of Pleistocene mammal communities in Southeast Asia Christine Hertler

15.20 Specialists vs. generalists in Thai limestone karsts: Comparative phylogeography of two Murinae rodents in Thailand Alice Latinne

15.50 **TEA & COFFEE BREAK**

16.20 Mangrove-associated molluscs of Southeast Asia: Patterns of diversity and diversification David Reid

16.40 The unexpectedly high diversity of empidoid flies (Diptera) in Southeast Asian mangroves: Allopatric or sympatric speciation? Patrick Grootaert

17.00 Past and present coastlines and the biogeography of East Indies Triangle barnacles Romanus Edy Prabowo

17.20 Anthicidae (Insecta: Coleoptera) of the Indo-Australian transitional zone Dmitry Telnov

17.40

18.00

19.00 **PUBLIC EVENING LECTURE, Auditorium maximum (see map)**

Wednesday, March 13

Lecture Hall 1.102

Biogeography Symposium

| | | |
|-------|--|-----------------------------|
| 09.50 | Taxonomic vs. phylogenetic diversity patterns of the Sunda Shelf | Niels Raes |
| 10.10 | <i>Rattus exulans</i> in SE Asia: Geometric morphometric analyses allude to complex origins and isolation events of modern Sunda populations | Ardern Hulme-Beamen |
| 10.30 | Who wins when north and south collide – The historical dynamics of intercontinental floristic exchange across Wallacea | Darren Crayn |
| 10.50 | TEA & COFFEE BREAK | |
| 11.20 | Whither taxonomy? | Thomas von Rintelen |
| 11.40 | New ways for biodiversity inventories: Experiences and lessons learned from an ATBI(+M) approach | Christoph Häuser |
| 12.00 | Reviving the Flora of the Philippines: Challenges & strategies | Grecebio J. Alejandro |
| 12.20 | Flora of India project – Scope, capacity and challenges | Paramjit Singh |
| 12.40 | Biodiversity and conservation in India | Krishnamoorthy Venkataraman |
| 13.00 | LUNCH | |
| 14.00 | Anymals ^{+plants} – Biodiversity in your pocket | Daniel Zitterbart |
| 14.20 | A species description pipeline for the hyperdiverse weevil genus <i>Trigonopterus</i> | Alexander Riedel |
| 14.40 | Aquatic insects in Asian wetlands – Molecular biodiversity assessment, evolutionary history, and why molecules might really help us out | Michael Balke |
| 15.00 | Inventorying hyperdiverse marine molluscs: Is there an alternative to focusing on species? | Jonathan Todd |
| 15.20 | Discovery and underestimated diversity of the amphibians and reptiles of Sulawesi and its offshore Islands | André Koch |
| 15.50 | TEA & COFFEE BREAK | |
| 16.20 | Freshwater fishes of Borneo | Heok Hui Tan |
| 16.40 | The challenges of inventorying and describing freshwater fish diversity in Indonesia | Renny Hadiaty |
| 17.00 | Biodiversity of Gunung Halimun National Park, Indonesia: Current status and challenges for future research | Rosichon Ubaidillah |
| 17.20 | Collaborative actions in the management of Gunung Halimun Salak National Park, Indonesia | Agus Priambudi |
| 17.40 | Revitalizing data and collection management of the Gunung Halimun Salak National Park, Indonesia | Ahmad Arief |
| 18.00 | From the challenging of Indonesia's bureaucracy to discovering biodiversity | Evy Arida |
| 19.00 | PUBLIC EVENING LECTURE, Auditorium maximum (see map) | |

Thursday, March 14

Lecture Hall 1.101

Plenary Session

09.00 **An integrated approach to understanding the origin and conservation of marine biodiversity in the Coral Triangle** Paul Barber

Sulawesi Symposium

09.50 **Where West meets East – The biogeography of Sulawesi revisited** Björn Stelbrink

10.30 **Genome sequences reveal the evolutionary history of Sulawesi's endemic suids** Laurent Frantz

10.50 **TEA & COFFEE BREAK**

11.20 **A genetic evaluation of three indigenous mammals of Sulawesi** Greger Larson

11.40 **The morphometric variation of three Sulawesi ungulates** Alastair Macdonald

12.00 **The conservation genetics of three Sulawesi ungulates** Peter Galbusera

12.20 **Did Southeast Asian water monitor lizards colonize Sulawesi by crossing Wallace's Line?** André Koch

12.40 **The diversification of tarsiers in light of Sulawesi's past** Stefan Merker

13.00 **LUNCH**

14.00 **Diversity and evolution of the planthopper taxon Bennini in Southeast Asia (Hemiptera: Fulgoromorpha: Cixiidae)** Hannelore Hoch

14.20 **Long-term ecology of mountain rainforests in Central Sulawesi (Indonesia)** Siria Biagioni

14.40 **Aquatic fauna of Lake Lindu, Sulawesi, Indonesia** Daisy Wowor

15.00 **Adaptive speciation, sexual dimorphism and stable colour polymorphism in a Malili Lakes fish species flock** Fabian Herder

15.20 **Testing predictions of the syngameon hypothesis in the incipient adaptive radiation of Lake Matano's "sharpfin" sailfin silversides** Jobst Pfaender

15.50 **TEA & COFFEE BREAK**

16.10 **BESTOWAL OF STUDENT PRESENTATION AWARDS**

18.00 **DEPARTURE FOR DINNER AT 18.00**

19.00 **CONFERENCE DINNER, *Schloss Friedrichsfelde***

Thursday, March 14

Lecture Hall 1.102

Climate Symposium

09.50 **Indo-Pacific Warm Pool variability: State of the art and outstanding issues** Mahyar Mohtadi

10.30 Detection of climate transitions in Asia derived from speleothems Norbert Marwan

10.50 TEA & COFFEE BREAK

11.20 Abrupt shift in Australian-Indonesian summer monsoon rainfall caused by a grand solar minimum Stephan Steinke

11.40 Tropical convection variability in the West Pacific Warm Pool since the Last Glacial Maximum Nicholas Fraser

12.00 Late Pleistocene to Holocene environmental and vegetation changes in Thailand indicated by palynofloras Wipanu Rugmai

12.20 Thermocline temperature variability in the Timor Strait during the last glacial cycle Elena Lo Giudice Cappelli

12.40 Abrupt climate events recorded in Chinese and Central Asian loess sequences Björn Machalett

13.00 LUNCH

14.00 Identification of sea level based on molluscan taphonomy – A case study in the black clay in Cisaar river valley, Java, Indonesia Aswan

14.20 Simulation of the Indonesian Throughflow response to Antarctic ice-sheet changes during the Middle-Miocene Climate Transition Amanda Frigola Boix

14.40 Climate induced cyclicity in the Miocene of Borneo Nathan Marshall

15.00 Seasonally-resolved records from giant clams – Snapshots of the Miocene climate of East Kalimantan Viola Warter

15.20 Paleoenvironments of the Burmese Paleogene primates: The late Middle Eocene Pondaung formation, Myanmar Alexis Licht

15.50 TEA & COFFEE BREAK

16.10 BESTOWAL OF STUDENT PRESENTATION AWARDS

18.00 DEPARTURE FOR DINNER AT 18.00

19.00 CONFERENCE DINNER, *Schloss Friedrichsfelde*

SAGE 2013

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March 11-15, Berlin, Germany**

Abstracts

Radiocarbon Dating shouldn't take ages



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Anthicidae (Insecta: Coleoptera) of the Indo-Australian transitional zone

Dmitry Telnov

The Entomological Society of Latvia, c/o Faculty of Biology, Riga, Latvia

Anthicidae from the Indo-Australian transition zone (Wallacea, New Guinea, Solomon Islands) were revised. The study area is among the world richest regions for Anthicidae with 19 genera, 270 species and subspecies of recorded on <1% of the world's dry land area. The most diverse genera are *Macratria* Newman – 120 species, *Sapintus* Casey – 36, and *Tomoderus* LaFerté-Sénéctère – 24 species. Species diversity correlates with the area of the studied islands. The largest islands, New Guinea and Sulawesi, have 179 and 65 species respectively. From smaller islands only 1-5 species were recorded. Genera peculiar to the Oriental and / or Australian realms, as well as cosmopolitan genera, were recorded. The genera *Papuanthicus* and *Pseudoleptaleus* are believed endemic to the study area. The percentage of regional endemic species reaches 88%. The proportion of endemic species is from 85% on large islands to nearly 100% on smaller and more isolated islands. None of the genera of Australian origin cross Wallace's Line to the west. Taxa of supposedly Oriental origin do not cross Lydekker's Line to the East. Lowland and lower montane areas are characterized by higher Anthicidae species diversity but a lower proportion of endemic species. Upper montane areas (2,900 m up) are characterized by low species diversity but up to 100% species endemism (Patterson theory of dependence of species richness and endemism on the altitude).

The above mentioned confirms the generally accepted view that the Indo-Australian transition zone is the region with highest animal species diversity in the world and a very important biodiversity and speciation hotspot.

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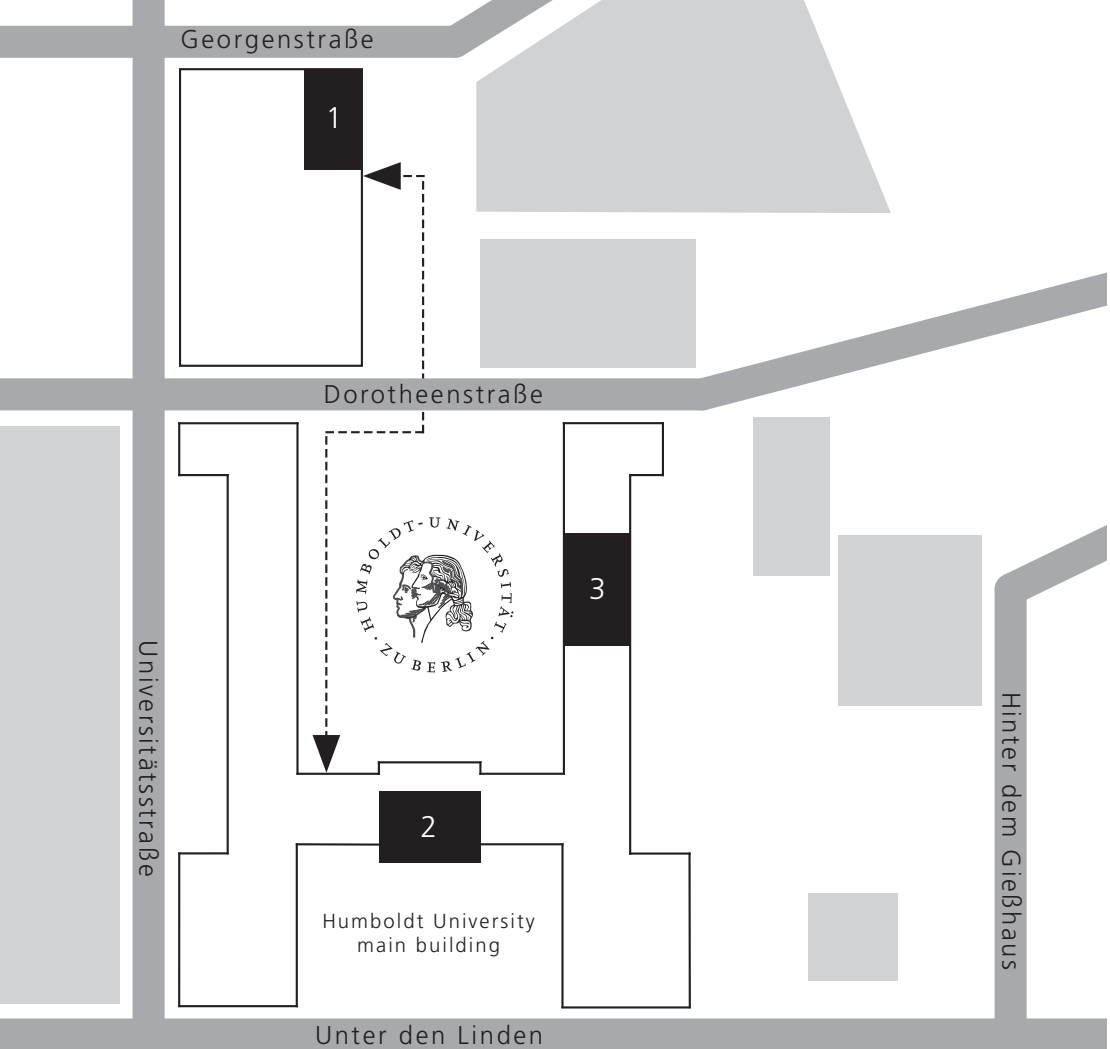
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- 1 – Seminar building (*Seminargebäude am Hegelplatz, Haus 1*) of the Humboldt University at Hegelplatz with conference lecture halls on the 1st floor
- 2 – Senate Hall (*Senatssaal*) on the 1st floor: lunch breaks, Poster Session and Drinks Reception
- 3 – *Auditorium maximum*: Public Evening Lecture