



FORUM HERBULOT NEWSLETTER

VOL. 4 ISSUE 1

DECEMBER 2013

CONTENT

FORUM HERBULOT 2014

GENERAL MATTERS

CATALOGUE OF FAMILY GROUP NAMES	4
NEW LITERATURE	4

FIRST CIRCULAR ON THE FORUM HERBULOT 2014 (BY AXEL HAUSMANN & SVEN ERLACHER)

Axel Hausmann and Sven Erlacher would like to welcome you to FORUM HERBULOT 2014, in Germany on

“HOW TO ACCELERATE THE INVENTORY OF BIODIVERSITY”

Date: June 30 – July 5 2014 (arrival June 30, departure July 5, conference July 1–4)

Venue: Naturschutzzentrum Erzgebirge / Conservation Centre Ore Mountains
(Am Sauwald 1, D-09487 Schlettau, OT Dörfel, Saxony, Germany (35 km south of Chemnitz) <http://www.naturschutzzentrum-erzgebirge.de/>)

Contact: Sven Erlacher, registration: erlacher@naturkunde-chemnitz.de
Axel Hausmann, program: axel.hausmann@zsm.mwn.de

Motivation

The recent progress of biological technologies challenges our research strategies in general and the way we assess biodiversity on earth in particular. The Forum Herbulot 2014 offers an ideal platform to address the new perspectives for research on Lepidoptera in three ways:

(1) Alpha Taxonomy: How can we accelerate description rates of new species? Which are the minimum standards for species descriptions?

(2) Information Technology: How can electronic publishing tools and web-storage of data help us to build up global biodiversity inventories?

(3) DNA Barcoding: How can DNA Barcoding and interim taxonomy on BOLD (i.e. ‘BINs’) accelerate the ‘availability’ of global species inventories?

During the final discussion of the previous Forum Herbulot in Mogale’s Gate (South Africa) there was a strong plea for discussing question (1) at the next Forum Herbulot. Similarly, during the SEL congress in Blagoevgrad (Bulgaria), it became apparent that question (2) would benefit from further discussion. And most recently at the 5th International Barcode Conference in Kunming (China), question (3) was a topic of debate and was suggested to be added to the agenda of Forum Herbulot 2014.



Climate

The climate of the higher regions of the Ore Mountains is markedly harsh in character. Temperatures are considerably lower all year round than in the lowlands, the summer is noticeably shorter and cool days are frequent. The average temperatures in June and July reach values of 14 to 15 °C, and the average of precipitation during these months is 90 mm. So, the climate in the summer can be very pleasant in this region, with maximum day temperatures of up to 25-30 °C and minimum night temperatures that can drop to 15-10° C; that means hot enough to relax but cool enough to work. Human interventions have created a unique cultural landscape in which a large number of typical habitats have become rare. These biotopes, such as mountain meadows and rare wetlands, are worthy of protection. Today, even old leftovers from former mining operations offer a living environment for a lot of plants and animals. Moreover, lying here are several lager moors which are only fed by rain water. In a lot of these areas under protection, rare and sophisticated species, like different species of orchids and gentian, the Eurasian Pygmy Owl and kingfisher, all find a place of retreat. The existence of some alpine species of plants and animals is known in the heights of these mountains, species only known to be present at the Sudeten Mountains or the Alps.

Preliminary Programme for Conference and “Field Work for GBOL”

For the last Forum Herbulot 2012 in Mogale’s Gate, the organizer Hermann Staude created a completely new conference design, with the conference and field trips running concurrently over several days. Since this concept proved to be very successful and pleasant, the program of Forum Herbulot 2014 will be similar:

Monday: arrival

Tuesday to Thursday: Conference lectures, sessions and workshops, collecting at light in the evening/night.

Thursday afternoon/evening: Trip to Chemnitz, guided tour at the Museum of Natural History, congress dinner, closure.

Friday: Travel to Dresden, sight-seeing, visits at the Senckenberg Natural History Collections Dresden and at the Semper-Opera (see below).

Saturday: departure

For those interested, there may be the opportunity to visit the “Semper-Oper” on Friday evening (‘Il barbiere di Seviglia’). We have purchased the last 10 available tickets in the cheapest category (25 to 42 €) which can now be bought from AH on a first come first serve basis. There are still many tickets in the category from 55 to 105 € which you can book yourself under <http://www.semperoper.de/en/spielplan/monat/7/jahr/2014.html>.

The registration is open now (via Sven Erlacher) and should be completed by May 15. We ask you to tell us flight/travel details as soon as possible, to enable us to organize shuttle transfers from the airports or train stations of Chemnitz, Dresden and Leipzig for foreign/overseas participants. It may be preferable that participants organize themselves for train transfers from Berlin, Frankfurt or Munich to Chemnitz or Dresden if possible. Registration of talks and abstract submission (to Axel Hausmann) starts from now **until May 15**.

Accommodation and Costs

The estimated total costs are at about 300–500 € for the congress centre, congress organization, shuttle transfers, meals (Tue–Fri, July 1–4), congress dinner, and accommodation. Payments will include an anticipated deposit of 150 € to the following account:

Sven Erlacher

Acc.no.: 1190267345; German bank code: 870 500 00

IBAN: DE16870500001190267345

BIC: CHEKDE81XXX

Please declare the payment as “deposit FH2014 for ##your name##”



The accommodation included in the above offer is limited and varied and the total price will vary according to the quality of the selected accommodation type. This will have to work similar to a theatre booking – ‘all seats are good but some are better than others’ (as Hermann Staude wrote in the invitation to the last Forum Herbulot). There is accommodation for a maximum of 88 participants at the congress centre, with about 30 more in a nearby hotel (10 minutes walking) and there will be 1-bed, 2-beds, 4-beds, 5-beds, 6-beds and 8-beds solutions. You can book your place (on a first come first served basis) by confirming your participation in writing, by paying the deposit of 150 Euro and by telling us if you prefer a single/double room or if you also would accept the cheaper accommodation in a multiple room. However, we can fix prices more exactly only when registrations are starting to come in, because it will depend on how completely we will be able to fill these rooms.

Solidarity Funds

-We hope to be able to support a limited number of ca. 20 invited speakers from foreign countries, the financing is envisaged by the German Science Foundation DFG (application submitted, answer expected by May 2014, success not guaranteed)

-During the Forum Herbulot 2014 we will be able to collect a lot of insects. If you want, you can offer your collected material to the project managers of the German Barcode of Life Project (GBOL) who will select those vouchers that are still needed for the project. You may consider donating related specimen-based reimbursements from project funds as an act of solidarity to the ‘Forum Herbulot Fund’ (see below).

-We hope to be able to support the participation of those overseas participants who will not have institutional travel funds by the ‘Forum Herbulot Fund’. We encourage generous donations and for that purpose we repeat here the detailed information of the last Newsletter (3/1):

Forum Herbulot Fund

During FH7 in South Africa we discussed the problem that many of our members wish to participate in our meetings but are unable to get grants for this. It was decided we create a ‘Forum Herbulot Fund’ as a solidarity trust for raising and administering financial support for our meetings. The following letter was written to implement the fund at the association ‘Friends of the ZSM, Munich’:

“12 years ago, with considerable support by the ‘Friends of the Bavarian State Collection of Zoology (ZSM) e.V.’ we have been able to buy the important collection of geometrid moths of Claude Herbulot from Paris. This outstanding collection includes 11,000 out of 23,000 described species, approx. 850 holotypes and 7,000 paratypes and represents the basis for the 286 publications of Claude Herbulot. The collection Herbulot has considerably increased the research potential and the international importance of the Lepidoptera section of the ZSM. In order to co-ordinate the global interest in this collection and

the research activities of all geometridologists worldwide we have created the global research initiative ‘Forum Herbulot.’ Since 2001 we have organized biennial meetings (7 so far), three at the ZSM in Munich, one each in Paris (2005), Hobart/Tasmania (2006), Gainesville/Florida (2010) and Hekpoort (Gauteng)/South Africa (2012) ... The initiative was much appreciated and welcomed by international specialists over the whole period. We expect at least 80 participants for the next meeting which shall take place in 2014, again in Germany. The University of Concepción in Chile intends to organize the meeting in 2016. Unfortunately economical cuts in many institutions worldwide offer serious obstacles for competent colleagues whose participation in our meetings would be important. For the congress in Munich 2008 we have been successful in convincing the German Research Association (DFG) to support travel costs of important overseas guests, but in 2012 some colleagues, e.g. from China and Australia had to cancel their participation because of lacking travel funds. Therefore, the participants of the last Forum Herbulot in South Africa suggested to create a ‘Forum Herbulot Fund’ to be able to subsidize travel costs in such extraordinary cases after recognition and decision by the scientific board of the Forum Herbulot. For this purpose the, ‘Friends of the Bavarian State Collection of Zoology (ZSM) e.V.’ are asked to provide an account where donations can be collected and distributed in a trouble-free way, when needed.”



In April 2012 the friends of the ZSM e.V. (registered association) decided to take over the administration of this fund according to the outlines decided at the FH7. We strongly encourage all members of the Forum Herbulot initiative to consider contributing to this solidarity trust, in order to bring as many friends and colleagues as possible to our next meeting. Bank Transfer Details for solidarity donations (Important: this is NOT the account to pay the deposit / conference fees, which is given above under ‘accommodation and costs’):

Freunde der Zoologischen Staatssammlung e.V.
HypoVereinsbank München
IBAN: DE29700202705803470431
BIC: HYVEDEMMXXX

Please transfer funds under the key word: „Forum Herbulot Fund“



Some impressions from the Nature Conservation Centre Erzgebirge ('Naturschutzzentrum')

UPDATES OF THE 'CATALOGUE' AND THE LIST OF FAMILY NAMES - CALL FOR COOPERATION

In 2007, an updated species list of the geometrid moths of the world (genus name, species name, author, year; all valid taxa at species and subspecies rank) was published (Scoble, M.J. & A. Hausmann [update 2007]: Online list of valid and nomenclaturally available names of the Geometridae of the World). This included about 1000 new taxa and about 2000 further taxonomic changes with respect to the famous and groundbreaking 'Catalogue' of Scoble (1999). After 7 years it seems necessary to publish a second update including about 800 new taxa and 1500 other changes in taxonomy. We intend to offer the complete species list as a free common resource online at the iBOL and Forum Herbulot web sites. Similarly the 'Forum Herbulot world list of family group names in Geometridae' (<http://www.herbulot.de/famgroup.htm>) which has seen multiple citation in the literature requires an update, for better reflecting the achievements of the last years' phylogenetic research.

Contributions are highly welcome and asked to be sent to axel.hausmann@zsm.mwn.de.

NEW LITERATURE

Brehm, G., Strutzenberger, P. & K. Fiedler (2013): Phylogenetic diversity of geometrid moths decreases with elevation in the tropical Andes. – *Ecography* 36 (11): 1247-1253.

Fiedler, K. & P. Strutzenberger (2013): Past Dynamics of Speciation in Andean Mountain Rainforests. In: Bendix, J., Beck, E., Bräuning, A., Makeschin, F., Mosandl, R., Scheu, S. & W. Wilcke (Eds.), *Ecosystem Services, Biodiversity and Environmental Change in a Tropical Mountain Ecosystem of South Ecuador*. – Ecological Studies Vol. 221, pp 67-80. Springer, New York

Gwiazdowski, R.A., Elkinton, J.S., deWaard, J.R., & M. Sremac (2013): Phylogeographic diversity of the winter moths (Lepidoptera: Geometridae: *Operophtera*) *O. brumata*, and *O. bruceata* in Europe and North America. – *Annals of the Entomological Society of America* 106: 143-151.

Hebert, P.D.N., deWaard, J.R., Zakharov, E.V., Prosser, S.W., Sones, J.E., McKeown, J.T., Mantle, B., & J. LaSalle (2013): A DNA 'barcode-bltz': rapid digitization and sequencing of a natural history collection. – *PLoS One* 2013: e68535.

Mironov, V. (2013): New species and checklist of Turkish *Eupithecia* Curtis (Geometridae: Larentiinae). – *Zootaxa* 3717 (1): 39-52.

Rajaei, H., Struwe, J.-F., Raupach, M., Ahrends, D. & W. Wägele (2013): Integration of cytochrome c oxidase I barcodes and geometric morphometrics to delimit species in the genus *Gnopharmia* (Geometridae, Ennominae). – *Zool. J. Linnean Soc.* 169: 70-83.