

FOREWORD

From September 27 to October 2, 2005, SEH returned for the 2nd time to its birth place. Founded in 1979 at the Zoologisches Forschungsmuseum A. Koenig (ZFMK) in Bonn, the society returned to its founding place for the first time in August 1995. The proceedings volume of that meeting was named “Herpetologia Bonnensis” and published in 1997.

It was our original intention to invite SEH again in 2009, not only because of the 30th anniversary of its foundation in our museum but also because one of the editors (WB) will have to face his retirement at the end of this year and he thought that a second SEH congress at ZFMK would be a very appropriate concluding event for his nearly 40 years of herpetological work in this institution. However, in spring 2005, we were surprised by the information that the 13th O.G.M. which originally was scheduled for an Italian site, could not take place there, and a new location was desperately searched for by the SEH council. So we advanced our invitation without hesitation for four years but were of course aware of the limited preparation time for this congress. But things went fairly well, more than 200 herpetologists registered, and the O.G.M. was mostly considered successful and generally appreciated by the participants. Again, as in 1995, Museum Koenig and its lecture hall proved to be too small to house all participants, but in the mean-time a new hotel (DERAG Hotel “Kanzler”) had opened just in the neighbouring building so that both locations could be linked for the purpose of this congress.

14 months later, we can now present the proceedings volume of this 2nd O.G.M. that was held in Bonn, and we consequently name it “Herpetologia Bonnensis II”.

Of nearly 80 oral presentations and roughly the same number of poster presentations, 56 papers were submitted to the editors for the present volume. They cover a particularly wide array of topics, wherefore we decided to arrange them in the alphabetical order of the respective (first) authors. The two workshops on ophidian sensory biology and on herpetodiversity of Vietnam follow separately, with equally alphabetically listed participants resp. authors.

A third workshop integrated into the congress was the IUCN Global Assessment Regional Workshop on non-Mediterranean Reptiles of the Western Palearctic, coordinated by Neil Cox and Carlo Rondinini. Its results will of course be published elsewhere, in the framework of IUCN’s publications.

The editors are aware of the fact that neither the congress nor this book could have been successfully completed if not numerous persons would have helped in a very effective manner. First of all, we should like to express our gratitude to those persons who - next to us - met our organisation committee (in alphabetical order): Wolfgang Bischoff, Ursula Bott, Viola Gossmann, Monika Hachtel, Peter Sound and Philipp Wagner. Secondly, we cordially thank our student crew: Alexander Burmann, Albia Consul, Anke Frank, Alexandra Großerichter, Astrid Heidrich, Ralf Hendrix, Monique Hölting, Claudia Koch, Tobias Kohl, Melanie Madscher, Lisa Meier, Daniel Ortmann, Birgit Rach, Jürgen Roder, Sarah Schellberg, Peter Schmidt and Klaus Weddeling, for being always present, assisting with the media during the lectures, and being always available for the participants, for answering questions and solving problems of any kind that may come up during such an international event.

Thirdly, we wish to deeply acknowledge the help and support of the following organisations:

- the Deutsche Forschungsgemeinschaft (DFG) for making the participation of our Russian and Ukrainian colleagues possible;

- the Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT) for generously sponsoring the joint evening dinner at the boat tour on the Rhine;
- The Alexander-Koenig-Gesellschaft (AKG) and the Cologne Zoo for providing the funds necessary for the participation of two colleagues from Vietnam.

But also the ontology of this book required many helpful persons and we were lucky enough to experience much support. Each of the articles contained in the present volume was peer-reviewed, and the colleagues who were willing to serve as reviewers, next to ourselves, were (again in alphabetical order): Raoul Bain (New York), Patrick David (Paris), Michael Franzen (München), Frank Glaw (München), Monika Hachtel (Bonn), Julian Glos (Würzburg), Ulrich Joger (Braunschweig), Franz Krapp (Bonn), Axel Kwet (Stuttgart), Alexander Kupfer (London), Mark-Oliver Rödel (Würzburg), Ulrich Sinsch (Koblenz), Andreas Schmitz (Genève), Sebastian Steinfartz (Bielefeld), Bryan Stuart (Chicago), Frank Tillack (Berlin), Klaus Weddeling (Bonn), David R. Vieites (Berkeley), Klaus Weddeling (Bonn), Katharina Wollenberg (Mainz). Mrs. Lieselotte Schulz, Cologne Zoo, was kind enough to prepare the table of contents of this book, and Uwe Vaartjes (Bonn) designed the logo of the congress and the title page of this volume.

Finally, special thanks are due to Edoardo Razzetti, webmaster of SEH: for the first time, the articles of an SEH Proceedings volume are being made available as open-access-PDF files from the SEH website, and we thank Edoardo for volunteering for this work.

The whole process of generating this volume was accompanied and reliably influenced by the indispensable help of Ursula Bott (ZFMK Bonn). Without her, the project would have come hardly to a positive end.

Bonn, 16 December 2006

For the editors: Wolfgang Böhme



CONTENTS

BAUER, A.M. & T. JACKMAN: Phylogeny and microendemism of the New Caledonian lizard fauna	9
BOGAERTS, S., PASMANS, F. & T. WOELTJES: Ecology and conservation aspects of <i>Neurergus strauchii</i> (Amphibia: Salamandridae)	15
BORCZYK, B.: The adductor mandibulae in <i>Elaphe</i> and related genera (Serpentes: Colubridae)	19
BOSMAN, W. & P. VAN DEN MUNCKHOF: Terrestrial habitat use of the common spadefoot (<i>Pelobates fuscus</i>) in an agricultural environment and an old sanddune landscape	23
BRIZZI, R. & C. CORTI: Reproductive cycles of the European amphibians: A brief history of studies on the role of exogenous and endogenous factors	27
COGĂLNICEANU, D., HARTEL, T. & R. PLĂIAȘU: Establishing an amphibian monitoring program in two protected areas of Romania	31
DE LANG, R. & G. VOGEL: The snakes of Sulawesi	35
GOVERSE, E., SMIT, G. F.J., ZUIDERWIJK, A. & T. VAN DER MEIJ: The national amphibian monitoring program in the Netherlands and NATURA 2000.....	39
GRUBER, B. & K. HENLE: The effect of movement on survival – a new method with an application in the arboreal gecko <i>Gehyra variegata</i>	43
HARTEL, T., DEMETER, L., COGĂLNICEANU, D. & M. TULBURE : The influence of habitat characteristics on amphibian species richness in two river basins of Romania	47
KÖLPIN, T.: Experimental examination of the combat behaviour of the snake <i>Lampropeltis mexicana</i> (Garman, 1884)	51
KOTENKO, T.: Reptiles in the Red Data Book of Ukraine: a new species list, status categories, and problems arising from conservation legislation	55
KUKUSKIN, O.V. & O.I. ZINENKO: Morphological peculiarities and their possible bearing on the taxonomic status of the Crimean montane populations of the Steppe Viper, <i>Vipera renardi</i> Christoph, 1861	61
KUPRIYANOVA, L.A., MAYER, W. & W. BÖHME: Karyotype diversity of the Eurasian lizard <i>Zootoca vivipara</i> (Jacquin, 1787) from Central Europe and the evolution of viviparity	67
KURANOVA, V.N. & S.V. SAVELIEV: Reproductive cycles of the Siberian newt <i>Salamandrella keyserlingii</i> Dybowsky, 1870	73
KWET, A.: Bioacoustics in the genus <i>Adenomera</i> (Anura: Leptodactylidae) from Santa Catarina, southern Brazil	77
LEBBORONI, M. & C. CORTI: Road killing of lizards and traffic density in central Italy	81
LYAPKOV, S.M.: Geographical and within-population variation of larval life-history traits in <i>Rana temporaria</i> and <i>R. arvalis</i>	83
MORAVEC, J., FRANZEN, M. & W. BÖHME: Notes on the taxonomy, nomenclature and distribution of the <i>Trachylepis</i> (formerly <i>Mabuya</i>) <i>aurata</i> (Linnaeus, 1758) complex	89

MORONI, S., MATTIOLI, F., JESU, R. & A. ARILLO: Thermal behaviour of the Malagasy spider tortoise <i>Pyxis arachnoides arachnoides</i> (Bell, 1827)	95
MOSKVIN, S. & V. KURANOVA: Amphibians and reptiles in the collection of the Zoological Museum of the Tomsk State University (Western Siberia, Russia)	99
ORTMANN, D., HACHTEL, M., SANDER, U., SCHMIDT, P., TARKHNISHVILI, D., WEDDELING, K. & W. BÖHME: Capture effectiveness of terrestrial drift fences and funnel traps for the Great Crested Newt, <i>Triturus cristatus</i>	103
PAGGETTI, E., BIAGGINI, M., CORTI, C., LEBBORONI, M. & R. BERTI: Amphibians and reptiles as indicators in Mediterranean agro-ecosystems: A preliminary study	107
PATRAKOV, S.V. & V.N. KURANOVA: Variation of moulting activity in <i>Lacerta agilis</i> and <i>Zootoca vivipara</i> (Reptilia: Sauria: Lacertidae)	111
RASTEGAR-POUYANI, N.: Conservation and distribution of <i>Neurergus microspilotus</i> (Caudata: Salamandridae) in the Zagros Mountains, Kermanshah Province, Western Iran	115
RASTEGAR-POUYANI, N.: Systematics of the genus <i>Asaccus</i> (Sauria: Gekkonidae) on the Zagros Mountains, Iran	117
RÖSLER, H. & W. BÖHME: Peculiarities of the hemipenes of the gekkonid lizard genera <i>Aristelliger</i> Cope, 1861 and <i>Uroplatus</i> Duméril, 1806	121
RÖSLER, H. & W. WRANIK: The reptiles of the Socotra archipelago with special remarks on the slender blind snakes (Leptotyphlopidae: <i>Leptotyphlops</i>)	125
SALVIDIO, S.: Demographic variability in two populations of the European plethodontid salamander <i>Speleomantes strinatii</i>	129
SAVELIEV, S.V., BULAKHOVA N.A. & V.N. KURANOVA: Reproductive activity of <i>Lacerta agilis</i> and <i>Zootoca vivipara</i> (Reptilia: Sauria: Lacertidae) in western Siberia	133
SCHMIDT, P., WEDDELING, K., THOMAS, M., ROTTSCHIEDT, R., TARKHNISHVILI, D. & M. HACHTEL: Dispersal of <i>Triturus alpestris</i> and <i>T. vulgaris</i> in agricultural landscapes – comparing estimates from allozyme markers and capture-mark-recapture analysis	139
SINSCH, U. & N. JURASKE: Advertisement calls of hemiphractine marsupial frogs: I. <i>Gastrotheca marsupiata</i> group	145
SINSCH, U. & N. JURASKE: Advertisement calls of hemiphractine marsupial frogs: II. <i>Gastrotheca plumbea</i> group	149
SINSCH, U. & N. JURASKE: Advertisement calls of hemiphractine marsupial frogs: III. <i>Flectonotus</i> spp.	153
SINSCH, U. & N. JURASKE: Advertisement calls of hemiphractine marsupial frogs: IV. <i>Stefania</i> spp.	159
SINSCH, U., SCHÄFER, R. & A. SINSCH: The homing behaviour of displaced smooth newts <i>Triturus vulgaris</i>	163
SMIT, G.F.J.: Urban development and the natterjack toad (<i>Bufo calamita</i>) – implementation of the habitat directive in The Netherlands	167
SOLÍS, G., EEKHOUT, X. & R. MÁRQUEZ: “Fonoteca Zoologica (www.fonozoo.com)”: the web-based animal sound library of the Museo Nacional de Ciencias Naturales (Madrid), a resource for the study of anuran sounds	171

SOUND, P., KOSUCH, J., VENCES, M., SEITZ, A. & M. VEITH: Preliminary molecular relationships of Comoran day geckos (<i>Phelsuma</i>)	175
STERIJOVSKI, B.: A new record of <i>Vipera ursinii</i> (Reptilia: Serpentes) from Macedonia	181
SUROVA, G.S.: Motor activity of amphibian larvae - from schools to shoals	183
VAN BREE, J.B., PLANTAZ, E.R. & A. ZUIDERWIJK: Dynamics in the sand lizard (<i>Lacerta agilis</i>) population at Forteiland, IJmuiden, The Netherlands	187
VAN ROON, J., DICKE, I., BRINKS, R., ZUIDERWIJK, A. & I. JANSSEN: Capture and recapture of Grass snakes near Amsterdam	191
VENCES, M. & J. KÖHLER : The current status of genetic exploration in amphibians: taxonomic and geographical disparities	193
VERSHININ, A.L. : Significance of recessive and dominant mutations in adaptive processes of the genus <i>Rana</i> in the modern biosphere	197
YILMAZ, Z.C. & B. KUTRUP: Seasonal changes in the diet of <i>Rana ridibunda</i> Pallas, 1771 (Anura: Ranidae) from the Gorele River, Giresun, Turkey	201
ZINENKO, O.: Habitats of <i>Vipera berus nikolskii</i> in Ukraine	205

Workshop: Ophidian sensory biology

Coordinated by: G. Westhoff

DE HAAN, C.C. & A. CLUCHIER : Chemical marking behaviour in the psammophiine snakes <i>Malpolon monspessulanus</i> and <i>Psammophis phillipsi</i>	211
DE HAAN, C.C.: Sense-organ-like parietal pits, sporadically occurring, found in Psammophiinae (Serpentes, Colubridae)	213
EBERT, J., SCHMITZ, A. & G. WESTHOFF: Surface structure of the infrared sensitive pits of the boa <i>Corallus hortulanus</i>	215
SICHERT, A.B., FRIEDEL, P. & J.L. VAN HEMMEN: Modelling imaging performance of snake infrared sense	219
WESTHOFF, G., MORSCH, M. & J. EBERT: Infrared detection in the rattlesnake <i>Crotalus atrox</i> – from behavioural studies to midbrain recordings	225
YOUNG, B.A.: Auditory atavism and integrated pathways for hearing in snakes	229

Workshop: Herpetodiversity of Vietnam and adjacent countries

Coordinated by: T. Ziegler

NGUYEN, Q.T.: Herpetological collaboration in Vietnam	233
VOGEL, G. & P. DAVID: On the taxonomy of the <i>Xenochrophis piscator</i> complex (Serpentes, Natricidae)	241
ZIEGLER, T., OHLER, A., VU, N.T., LE, K.Q., NGUYEN, X.T., DINH, H.T. & N.T. BUI: Review of the amphibian and reptile diversity of Phong Nha – Ke Bang National Park and adjacent areas, central Truong Son, Vietnam	247