

# Paleornithological Research 2013

Proceedings of the 8<sup>th</sup> International Meeting of the  
Society of Avian Paleontology and Evolution,  
Vienna, 2012

URSULA B. GÖHLICH & ANDREAS KROH (EDS)



Naturhistorisches Museum Wien  
2013

## **Imprint**

Publisher: Naturhistorisches Museum Wien

Contact: Andreas Kroh

Naturhistorisches Museum Wien

Burgring 7, 1010 Wien, Österreich (Austria)

Tel.: +43 (1) 521 77 / 576

Fax: +43 (1) 521 77 / 459

e-mail: [andreas.kroh@nhm-wien.ac.at](mailto:andreas.kroh@nhm-wien.ac.at)

10 December 2013

ISBN 978-3-902421-82-1

© 2013 Naturhistorisches Museum Wien

All rights reserved.

Layout by Andreas Kroh

Cover design by Josef Muhsil

Printed by Holzhausen Druck GmbH

**Cover:** A skeleton and reconstruction of a Dodo (*Raphus cucullatus* LINNAEUS, 1758), a flightless bird from Mauritius Island, which went extinct in historic times. This skeleton on display in the Natural History Museum of Vienna, is one of few preserved examples of this species. Photograph by Josef Muhsil (Vienna).



## Paleornithological Research 2013

Proceed. 8<sup>th</sup> Internat. Meeting Society of  
Avian Paleontology and Evolution

Ursula B. Göhlisch & Andreas Kroh (Eds)



# Paleornithological Research 2013: Proceedings of the 8<sup>th</sup> International Meeting of the Society of Avian Paleontology and Evolution, Vienna, 2012

URSULA B. GÖHLICH & ANDREAS KROH (EDS)

*Natural History Museum Vienna, Department of Geology & Palaeontology, Vienna, Austria*

Dedicated to Cécile Mourer-Chauviré

### Table of contents

- vii      Preface
- ix      Group photograph
- xii     Cécile Mourer-Chauviré – life and works  
URSULA B. GÖHLICH
- 1      A new taxon of stem group Galliformes and the earliest record for  
stem group Cuculidae from the Eocene of Djebel Chambi, Tunisia  
CÉCILE MOURER-CHAUVIRÉ, RODOLPHE TABUCE, EL MABROUK ESSID,  
LAURENT MARIVAU, HAYET KHAYATI, MONIQUE VIANEY-LIAUD,  
MUSTAPHA BEN HAJ ALI
- 17     The tarsometatarsus of the Middle Eocene loon *Colymbiculus udovichenkoi*  
GERALD MAYR, LEONID GOROBETS, EVGENIJ ZVONOK
- 23     Galliformes, Upupiformes, Trogoniformes, and other avian remains (?Phaethonti-  
formes and ?Threskiornithidae) from the Rupelian stratotype in Belgium, with  
comments on the identity of “*Anas*” *benedeni* Sharpe, 1899  
GERALD MAYR, THIERRY SMITH
- 37     A review of avian remains from the Oligocene of the Outer Carpathians  
and Central Paleogene Basin  
ZBIGNIEW M. BOCHENSKI, TERESA TOMEK, EWA SWIDNICKA
- 43     A fossil stone-curlew (Aves: Burhinidae) from the Late Oligocene/Early  
Miocene of South Australia  
WALTER E. BOLES, MELANIE A. FINCH, RENE H. HOFHEINS,  
PATRICIA VICKERS-RICH, MARY WALTERS, THOMAS H. RICH

- 63 **Miocene fossils show that kiwi (*Apteryx*, Apterygidae) are probably not phyletic dwarves**  
TREVOR H. WORTHY, JENNIFER P. WORTHY, ALAN J. D. TENNYSON,  
STEVEN W. SALISBURY, SUZANNE J. HAND, R. PAUL SCOFIELD
- 81 **A new roller (Aves: Coraciiformes s. s.: Coraciidae) from the early Miocene of the Saint-Gérand-le-Puy area, Allier, France**  
CÉCILE MOURER-CHAUVIRÉ, JEAN-BAPTISTE PEYROUSE,  
MARGUERITE HUGUENEY
- 93 **A *Haematopus*-like skull and other remains of Charadrii (Aves, Charadriiformes) from the Early Miocene of Saint-Gérand-le-Puy (Allier, France)**  
VANESA L. DE PIETRI, MARCEL GÜNTERT, GERALD MAYR
- 103 **A new barn owl (Aves: Strigiformes: Tytonidae) from the Middle Miocene of the Nördlinger Ries (Germany) with remarks on the history of the owls**  
URSULA B. GÖHLICH, PETER BALLMANN
- 123 **Who discovered the Phorusrhacidae? An episode in the history of avian palaeontology**  
ERIC BUFFETAUT
- 135 **The Early Pliocene avifauna of Langebaanweg (South Africa): a review and update**  
ALBRECHT MANEGOLD, ANTOINE LOUCHART, JULIE CARRIER,  
ANDRZEJ ELZANOWSKI
- 153 **New finds and revised taxa of Early Pliocene birds from Western Mongolia**  
NIKITA V. ZELENKOV
- 171 **Early Pleistocene fossil birds from Cava Sud, Soave (Verona, North-Eastern Italy)**  
MARCO PAVIA, CLAUDIA BEDETTI
- 185 **Revisiting *Asio priscus*, the extinct eared owl of the California Channel Islands**  
KENNETH E. CAMPBELL, JR.
- 195 **A synopsis of the pre-human avifauna of the Mascarene Islands**  
JULIAN P. HUME
- 239 **Holocene fossil bird remains from subantarctic Macquarie Island**  
ALAN J.D. TENNYSON, R. PAUL SCOFIELD
- 253 **Notes on Pelvic and Hindlimb Myology and Syndesmology of *Emeus crassus* and *Dinornis robustus* (Aves: Dinornithiformes)**  
ANDREI V. ZINOVIEV
- 279 **Ontogenetic change of morphology and surface texture of long bones in the Gray Heron (*Ardea cinerea*, Ardeidae)**  
JUNYA WATANABE, HIROSHIGE MATSUOKA



## Paleornithological Research 2013

Proceed. 8<sup>th</sup> Internat. Meeting Society of  
Avian Paleontology and Evolution

Ursula B. Göhlich & Andreas Kroh (Eds)



## Paleornithological Research 2013 — Preface

URSULA B. GÖHLICH & ANDREAS KROH

*Naturhistorisches Museum Wien, Vienna, Austria*

The “8<sup>th</sup> International Meeting of the Society of Avian Paleontology and Evolution” took place from 11<sup>th</sup> to 16<sup>th</sup> June 2012 at the Natural History Museum Vienna, Austria, and was organised and hosted by Ursula GÖHLICH (NHMW, Vienna). Fifty-two participants from 19 countries attended the quadrennial meeting and presented 40 oral talks and 10 posters covering a wide range of topics in paleornithology. The abstract and programme volume of the meeting is available as pdf on the SAPE homepage.

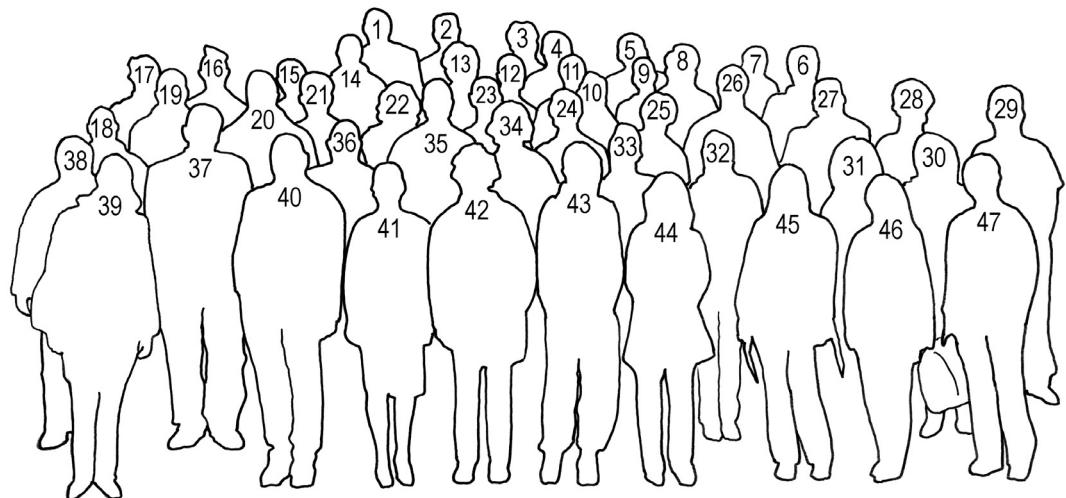
The SAPE meeting 2012 and the present proceedings volume are dedicated to Cécile MOURER-CHAVIRÉ, in order to honor her outstanding paleornithological contributions and her long-lasting, active commitment for the Society. A special tribute session was performed by the former president Per ERICSON (NRM, Stockholm), Ursula GÖHLICH, and Kenneth CAMPBELL (LACM, Los Angeles), who held a laudation.

Li Ping, Olivier MARIDET, and Thomas NEUBAUER (all NHMW) acted as organisation-assistants during the meeting and Hilde ADAMEK (NHMW) took care of the coffee breaks. Peter SZIEMER (NHMW) kindly acted as guide for an early morning bird watching tour through the Park of the Imperial Schönbrunn Palace and guided one of the tours through the exhibition of the NHMW. Anita GAMAUF (NHMW) received several participants of the meeting in the ornithological collection. Martin RIESING (Vienna) co-guided an ornithological excursion to the National Park Lake Neusiedl-Seewinkel and to Marchegg in the National Park March-Zaya-flood plains. Mathias HARZHAUSER, Director of the Department for Geology and Paleontology, and several colleagues of the department assisted in the organization of the welcome reception.

Christian KÖBERL, Director General and CEO of the NHMW, and Herbert KRITSCHER, Vice Director and CFO of the NHMW, are thanked for the possibility to hold the meeting at the Natural History Museum Vienna and for funding of this volume.

The editors gratefully acknowledge the effort by the reviewers Federico AGNOLIN (Argentina, Buenos Aires), Peter BALLMAN (Germany, Cologne), Zbigniew BOCHEŃSKI (Poland, Kraków), Zlatozar BOEV (Bulgaria, Sofia), Walter BOLES (Australia, Sydney), David BURNET (Kalahao, Hawaii), Kenneth CAMPBELL (USA, Los Angeles), Adrian CASINOS PARDOS (Spain, Barcelona), Luis CHIAPPE (USA, Los Angeles), Joanne COOPER (United Kingdom, Tring), Pietri, DE VANESA (Germany, Frankfurt), Andrzej ELZANOWSKI (Poland, Warsaw), Růžena GREGOROVÁ (Czechia, Brno), Antoine LOUCHART (France, Lyon), Gerald MAYR (Germany, Frankfurt), Hanneke J. M. MEIJER (USA, Washington), Colin MISKELLY, (New Zealand, Wellington), Cécile MOURER-CHAVIRÉ (France, Lyon), Jorge NORIEGA (Argentina, Diamante), Marco PAVIA (Italy, Turino), Adam SMITH (USA, Durham), Claudia TAMBUSI (Argentina, Buenos Aires), Alan TENNYSON (New Zealand, Wellington), Allison TUMARKIN-DERATZIAN (USA, Philadelphia), Trevor WORTHY (Australia, Adelaide), Nikita ZELENKOV (Russia, Moscow), Andrei V. ZINOVIEV (Russia, Tver), and numerous anonymous colleagues.

All articles of this peer-reviewed volume are freely available as pdfs via the NHMW hompepage.



**FIGURE 1.** Participants of the 8<sup>th</sup> International Meeting of the Society of Avian Paleontology and Evolution, held 11<sup>th</sup>–16<sup>th</sup> June 2012 at the Natural History Museum in Vienna (Photo: A. SCHUMACHER, NHMW)

## **Participants of the 8<sup>th</sup> International Meeting of the Society of Avian Paleontology and Evolution, held 11<sup>th</sup>–16<sup>th</sup> June 2012 at the Natural History Museum in Vienna**

- 1 ELZANOWSKI Andrzej (Poland, Warsaw)
- 2 MANEGOLD Albrecht (Germany, Frankfurt)
- 3 PAVIA Marco (Italy, Turino)
- 4 SCOFIELD Paul (New Zealand, Christchurch)
- 5 HUME Julian (United Kingdom, Tring)
- 6 VAN TUINEN Marcel (USA, Wilmington)
- 7 COOPER Joanne (United Kingdom, Tring)
- 8 ZELENKOV Nikita (Russia, Moscow)
- 9 ATTERHOLT Jessie (USA, Albany)
- 10 HAARHOFF Philippa (South Africa, Langebaanweg)
- 11 MICHAILIDIS Dimitrios (Greece, Athens)
- 12 WALSH Stig (United Kingdom, Edinburgh)
- 13 TYRBERG Tommy (Sweden, Kimstad)
- 14 SERRANO-ALARCÓN Francisco J. (Spain)
- 15 WANG Min (China, Beijing)
- 16 WATANABE Junya (Japan, Kyoto)
- 17 CAMPBELL Kenneth (USA, Los Angeles)
- 18 MARIDET Olivier (Austria, Vienna)
- 19 TORRES Chris (USA, Wilmington)
- 20 ZINOVIEV Andrei V. (Russia, Tver)
- 21 BOCHEŃSKI Zbigniew (Poland, Kraków)
- 22 WALSH Maureen (USA, Los Angeles)
- 23 MARJANOVIĆ David (Germany, Berlin)
- 24 PANDIT Meelyn (USA, Noblesville)
- 25 WORTHY Jennifer (Australia, Adelaide)
- 26 WORTHY Trevor (Australia, Adelaide)
- 27 CHIAPPE Luis (USA, Los Angeles)
- 28 TENNYSON Alan (New Zealand, Wellington)
- 29 Hu Dongyu (China, Schenyang)

- 30 O'CONNOR Jingmai (China, Beijing)
- 31 DE PIETRI, Vanesa (Germany, Frankfurt)
- 32 CANOVILLE Aurore (South Africa, Cape Town)
- 33 MEIJER Hanneke J.M. (USA, Washington)
- 34 MAYR Gerald (Germany, Frankfurt)
- 35 SMITH Adam (USA, Durham)
- 36 ERICSON Per (Sweden, Stockholm)
- 37 KAISER Gary (Canada, Victoria)
- 38 KESSLER Eugen (Hungary, Szigetszentmiklós)
- 39 ANGST Delphine (France, Lyon)
- 40 BUFFETAUT Eric (France, Paris)
- 41 GÖHLICH Ursula (Austria, Vienna)
- 42 MOURER-CHAUVIRÉ Cécile (France, Lyon)
- 43 BOURDON Estelle (France, Paris)
- 44 NGUYEN Jacqueline (Australia, Sydney)
- 45 CHINSAMY-TURAN Anusuya (South Africa, Cape Town)
- 46 LI Ping (Austria, Vienna)
- 47 SHUTE Elen (Australia, Adelaide).

Registrants not shown:

- GAMAUF Anita (Austria, Vienna)
- GREGOROVÁ Růžena (Czechia, Brno)
- GOEDERT James (USA, Wauna)
- SZIEMER Peter (Austria, Vienna)
- ZHOU Shuang (China, Beijing)
- NEUBAUER Thomas (Austria, Vienna).

