



Copyright © 2015 by the California Academy of Sciences All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage or retrieval system, without permission in writing from the publisher.

SCIENTIFIC PUBLICATIONS

Publisher: Margaret Lowman, Ph.D. Chief, Institute for Biodiversity Science & Sustainibility California Academy of Sciences

EDITORIAL BOARD
Alan E. Leviton, Ph.D., Editor
Katherine Piatek, M.A., Managing Editor
Michael T. Ghiselin, Ph.D., Associate Editor
Tomio Iwamoto, Ph.D., Associate Editor
Gary C. Williams, Ph.D., Associate Editor & Website Coordinator
Michele L. Aldrich, Ph.D., Consulting Editor

COVER IMAGE

Philippine frogs

(See Diesmos, A. et al., Amphibians of the Philippines, Part I; Checklist of the species) Includes photos by Rafe Brown, Jason Fernandez, and Cameron Siler

COVER DESIGN

Gary C. Williams & Alan E. Leviton California Academy of Sciences

ISSN 0068-547X

The Proceedings of the California Academy of Sciences is an international journal that accepts manuscripts for publication in the Natural Sciences and selected areas in the Earth Sciences, such as biostratigraphy, regional and global tectonics as they relate to biogeography, and paleoclimatology, and topics in astrobiology, anthropology, as well as the history of science as they relate to institutions of natural history, to individuals, and to activities, such as expeditions and explorations, in the natural sciences.

All manuscripts submitted for publication in any of the Academy's scientific publication series (*Proceedings, Occasional Papers, Memoirs*) are subject to peer review. Peer review includes both internal and external review, internal review by at least one Academy scientist whose interests parallel those of the submission, and external review, ordinarily by two individuals who are recognized scholars in the field.

Manuscripts accepted for publication are subject to page charges; charges may be waived on a caseby-case basis.

> Published by the California Academy of Sciences 55 Music Concourse Drive, Golden Gate Park, San Francisco, California 94118 U.S.A.

Printed in the United States of America by Allen Press Inc., Lawrence, Kansas 66044

CALIFORNIA ACADEMY OF SCIENCES PROCEEDINGS SERIES

INSTRUCTIONS TO AUTHORS

Authors planning to submit papers for consideration for publication in the Academy's *Proceedings, Occasional Papers*, or *Memoir* series must follow the directions given below in preparing their submissions. Under some circumstances, authors may not be able to comply with all the computer-based requirements for submission. Should this be the case, please contact the Editor or Associate Editor for guidance on how best to present the materials.

The Scientific Publications Office of the Academy prepares all materials for publication using state-of-the-art, computer-assisted, page-description-language software. Final copy is sent to the printer for printing. The printer does not modify the files sent for printing. Therefore, it falls to the authors to check carefully page proof when it is returned for approval. Ordinarily, all communication with authors is done via email and galley and page proofs of manuscripts, including figures, are transmitted as attachments to email communications. Again, exceptions to this will be made in the event that an author is unable to communicate in this way.

Authors are expected to provide digital copies of both manuscript text files and images, as well as a paper printout of their manuscript. Please note the following:

TEXT: Text can be in Microsoft Word, as a Word document file, WordPerfect, also as a WP document file, or, best of all, as an "rtf" (rich text format) file, which can be produced by most word processors. Authors who use non-standard fonts must include file copies of those fonts so that their symbols can be reproduced accurately. However, it is strongly recommended that the type style "New Times Roman" be used throughout and that the Symbols and Bookshelf Symbol 1 and 3 fonts be used for such items as σ , φ , φ , μ , etc. Note, words must not be typed in all capital latters either in the text or bibliography; small caps are acceptable.

IMAGES: Images should be in either JPG (JPEG), or TIF (TIFF) format. Resolution for grayscale images should be at least 600 ppi (1200 ppi if possible, especially for photomicrographs), and 300 ppi (600 ppi acceptable) for color. All images should be sized so that none exceeds a maximum print size of 5.5"×7.875" (140 mm × 200 mm).

TABLES: Our processing software allows for direct importation of tables. This reduces the chances for errors being introduced during the preparation of manuscripts for publication. However, in order to use this feature, tables must be prepared in Microsoft Excel or in Microsoft Word using Word's table feature; do not prepare tables using tabs or space bars. Complex tables not prepared as described above will be returned to the author for revision.

DIGITAL FILES: IBM or MAC formatted disks will be accepted subject to the following conditions: (a) floppy disks must not exceed 1.4 mb and (b) zip disks, preferably IBM format, must not exceed 100mb. Authors are encouraged to submit their digital files on CD-ROM (CD-R formatted disks NOT CD-RW) inasmuch as these can be read by nearly all CD-ROM drives.

FILE NAMING PROTOCOLS: To facilitate the handling of digital files submitted by authors, the following file-naming conventions are to be followed: text files should bear the author's last name (in the case of multiple authors, only the first author's name) followed by a space and a date in the format mmyy (e.g., 0603 for June 2003) to yield a file name such as Gosliner 0603.doc or Williams 0603.rtf. If an author has submitted two or more manuscripts and must distinguish between them, then the naming should include an additional numeral: Gosliner 1 0603.doc for the first manuscript, Gosliner 2 0603.doc (or .rtf) for the second. Figures should follow similar conventions, as follows: Gosliner F1 0603.tif, Gosliner F2 0603.tif, for figures in the first manuscript and, if more than one manuscript, then Gosliner1 F1 0603.tif etc. for the figures associated with the first manuscript and Gosliner2 F1 0603.tif etc. for those with the second. Following these conventions will insure that figures submitted by one author are always maintained distinct from those submitted by another. Tables submitted as Excel files should follow the same naming conventions except the file type designation will be ".xls": e.g., Gosliner T1 0603.xls. Please note that extraneous periods are omitted in file names.

BIBLIOGRAPHY FORMAT: Three bibliographic styles are accommodated in the Academy's scientific publications, one commonly used in scientific journals publishing papers in systematic and evolutionary biology, a second used mainly in the geological literature, and lastly, the format most commonly used in the humanities by historians of science. On request, the author will be sent a style sheet that includes samples of the three formats. Authors are also encouraged to examine a copy of the latest published *Proceedings*. In all instances, however, authors should not abbreviate journal names but spell them out completely. For books, the reference must include the publisher and city of publication. It is recommended that the total number of pages in the book also be given.

SUBSCRIPTIONS/EXCHANGES

The *Proceedings* series of the California Academy of Sciences is available by exchange or subscription. For information on exchanges, please contact the Academy Librarian via regular mail addressed to the Librarian, California Academy of Sciences, 55 Music Concourse Drive, Golden Gate Park, San Francisco, CA 94118 U.S.A. or via email addressed to hyaeger@calacademy.org. Subscription requests, including information on rates, should be addressed to Scientific Publications, California Academy of Sciences,55 Music Concourse Drive, Golden Gate Park, San Francisco, CA 94118 U.S.A. or via email to the Editors at aleviton@calacademy.org or gwilliams@calacademy.org

Subscription price for 2010: \$75 (US) incloudes mailing to U.S. and Canadian addresses and \$85 to all others.

The Occasional Papers and Memoirs are not available by subscription. Each volume is priced separately. Occasional Papers, Memoirs, and individual issues of the Proceedings are available for purchase through the Academy's Office of Scientific Publications. Visit us on the web at http://research.calacademy.org/research/scipubs/.

COMMENTS

Address editorial correspondence or requests for pricing information to the Editor, Scientific Publications Office, California Academy of Sciences, 55 Music Concourse Drive, Golden Gate Park, San Francisco, CA 94118 U.S.A. or via email to the Editor, Scientific Publications, at aleviton@calacademy.org or gwilliams@calacademy.org