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**ANTHROPOLOGY**

**Jablonski, N.G.** and M.G. Leakey, editors. 2008. *Koobi Fora Research Project, Volume 6: The Fossil Monkeys*. **California Academy of Sciences**. San Francisco, California, USA. 469 pp.

**Alemseged, Z** and R. Bobe. *In press*. Diet in early hominin species: a paleoenvironmental perspective *in* Hublin, J.-J. and Richards, M.P., eds, *The Evolution of Hominin Diets*. **Springer**, Dordrecht, The Netherlands. 300pp.

Wynn, J.G., D. Roman, **Z. Alemseged**, D. Reed, D. Geraads, and S. Munro, 2008. Stratigraphy, depositional environments, and basin structure of the Hadar and Busidima Formations at Dikika, Ethiopia. Pages 1-32 *in* J. Quade, and J. G. Wynn, eds, *The Geology of Early Humans in the Horn of Africa*, GSA Special Paper 446. The **Geological Society of America**, Washington D.C., USA.

Mbua, E., **Z. Alemseged**, and R. Bobe. 2008. A New Association for East African paleoanthropology and paleontology. *Evolutionary Anthropology* 17:123–124.

Frost, S.R. and **Z. Alemseged**. 2007. Middle Pleistocene fossil Cercopithecidae from Asbole, Afar Region, Ethiopia. *Journal of Human Evolution* 53:227–259.

**Alemseged, Z.**, R. Bobe, and D. Geraads. 2007. Comparability of fossil data and its significance for the interpretation of hominin environments: a case study in the lower Omo Valley, Ethiopia. Pages 159–181 *in* R. Bobe, **Z. Alemseged**, and A.K. Behrensmeyer, eds, *Hominin Environments in the East African Pliocene: An Assessment of the Faunal Evidence*. 1<sup>st</sup> ed. **Springer**, Dordrecht, The Netherlands.

Behrensmeyer, K., R. Bobe, and **Z. Alemseged**. 2007. Approaches to the analysis of faunal change during the East African Pliocene. Pages 1–24 *in* R. Bobe, **Z. Alemseged**, and A.K. Behrensmeyer, eds, *Hominin Environments in the East African Pliocene: An Assessment of the Faunal Evidence*. 1<sup>st</sup> ed. **Springer**, Dordrecht, The Netherlands.

Behrensmeyer, K., **Z. Alemseged**, and R. Bobe. 2007. Finale and future: investigating faunal evidence for hominin paleoecology in East Africa. Pages 333–345 in R. Bobe, **Z. Alemseged**, and A.K. Behrensmeyer, eds, *Hominin Environments in the East African Pliocene: An Assessment of the Faunal Evidence*. 1<sup>st</sup> ed. **Springer**, Dordrecht, The Netherlands.

## **AQUATIC BIOLOGY**

### *Scientific Publications:*

**McCosker, J.E.** 2008. *Trachyscorpia osheri* and *Idiastion hageyi*, Two New Species of Deepwater Scorpionfishes (Scorpaeniformes: Sebastidae, Scorpaenidae) from the Galápagos Islands. *Proceedings of the California Academy of Sciences*, ser. 4, 59:113–123.

Edgar, G.J., P.F. Langhammer, G. Allen, T.M. Brooks, J. Brodie, W. Crosse, N. De Silva, L.D.C. Fishpool, M.N. Foster, D.H. Knox, **J.E. McCosker**, R. McManus, A.J.K. Millar and R. Mugo. 2008. Key biodiversity areas as globally significant target sites for the conservation of marine biological diversity. *Aquatic Conservation: Marine and Freshwater Ecosystems* 18:969–983.

Glynn, P.W., I.C. Enochs, **J.E. McCosker** and A.N. Graefe. 2008. First Record of a Pearlfish, *Carapus mourlani*, Inhabiting the Aplysiid Opisthobranch Mollusc *Dollabella auricularia*. *Pacific Science* 62:593–601.

**McCosker, J.E.** 2007. The history of research at the California Academy of Sciences' Steinhart Aquarium and Department of Aquatic Biology. *Proceedings of the California Academy of Sciences*, ser. 4, 58:171–195.

**McCosker, J.E.** and J.E. Randall. 2007. A New Genus and Species of Mud-dwelling Moray Eel (Anguilliformes: Muraenidae) from Indonesia. *Proceedings of the California Academy of Sciences*, ser. 4, 58:469–476.

### *Books:*

**McCosker, J.E.** 2008. A Brief History of the West's Oldest Scientific Institution, Pages 8–23 in Susan Wels, ed, *California Academy of Sciences: Architecture in Harmony with Nature*. **Chronicle Books**, San Francisco, California, USA. 144 pp.

## **BOTANY**

### *Scientific Publications:*

Howell J.T., **F. Almeda**, W. Follette, and C. Best. 2007. Marin Flora: An Illustrated Manual of the Flowering Plants, Ferns and Conifers of Marin County, California. **California Academy of Sciences, San Francisco, California, USA** and **California Native Plant Society**, Marin, California, USA. 510 pp.

Aranha Filho, J.L.M., **P.W. Fritsch**, **F. Almeda**, and A.B. Martins. 2007. *Symplocos saxatilis* (Symplocaceae), a new dioecious species from Serra do Cipó, Minas Gerais, Brazil. *Brittonia* 59:233–237.

**Almeda F.**, R. Kriebel, and G. Umaña Doderó. 2007. Melastomataceae. Pages 394–574 in B.E. Hammel, M.H. Grayum, C. Herrera y N. Zamora, eds, *Manual de Plantas de Costa Rica: Volumen VI. Dicotiledóneas (Halorgaceae-Phytolaccaceae)*. **Missouri Botanical Garden Press**, St. Louis, USA.

**Almeda, F.**, P.E. Berry, A. Freire-Fierro, A. Gröger, B.K. Holst, N.G. Luckana, F.A. Michelangeli, T. Morley, **D.S. Penneys**, S.S. Renner, O.R. Robinson, J.J. Wurdack, K. Yatskevych. 2007. Melastomataceae. Pages 397–417 in V. Funk, T. Hollowell, P. Berry, C. Kelloff, and S.N. Alexander, eds, *Checklist of the Plants of the Guiana Shield (Venezuela: Amazonas, Bolívar, Delta Amacuro; Guyana, Surinam, French Guiana)*. *Contr. U. S. Natl. Herb.* 55:1–584.

**Fritsch, P.W.**, L.H. Zhou, L. Lu and B. Bartholomew. 2008. The Flowering Plant Genus *Gaultheria* (Ericaceae) in the Gaoligong Shan, along the Border Region of China and Myanmar. *Proceedings of the California Academy of Sciences*, ser. 4, 59:147–214.

Liu, Q.R., and **B. Bartholomew**. 2007. Erythroxylaceae. Pages 39–40 in Z.Y. Wu, Z.Y., P.H. Raven and D.Y. Hong, eds, *Flora of China, Vol 11: Oxalidaceae through Aceraceae*. **Missouri Botanical Garden Press**, St. Louis, USA. 622 pp.

Ma, J.H., and **B. Bartholomew**. 2007. Dipentodontaceae. Pages 494–495 in Z.Y. Wu, Z.Y., P.H. Raven and D.Y. Hong, eds, *Flora of China, Vol 11: Oxalidaceae through Aceraceae*. **Missouri Botanical Garden Press**, St. Louis, USA. 622 pp.

Peng, H., and **B. Bartholomew**. 2007. Munronia. Pages 118–195 in Z.Y. Wu, Z.Y., P.H. Raven and D.Y. Hong, eds, *Flora of China, Vol 11: Oxalidaceae through Aceraceae*. **Missouri Botanical Garden Press**, St. Louis, USA. 622 pp.

**Bartholomew, B.** and L.H. Zhou. 2007. Author citations for new names published in Volumes 1 through 3 of *Flora Yunnanica*. *Taxon* 56:545–550.

- Ming, T.L., and **B. Bartholomew**. 2007. Pentaphragaceae. Page 365 in Z.Y. Wu, Z.Y., P.H. Raven and D.Y. Hong, eds, *Flora of China, Vol 11: Oxalidaceae through Aceraceae*. **Missouri Botanical Garden Press**, St. Louis, USA.
- Ming, T.L., and **B. Bartholomew**. 2007. Sladeniaceae. Page 364 in Z.Y. Wu, Z.Y., P.H. Raven and D.Y. Hong, eds, *Flora of China, Vol 11: Oxalidaceae through Aceraceae*. **Missouri Botanical Garden Press**, St. Louis, USA.
- Ming, T.L., and **B. Bartholomew**. 2007. Theaceae. Pages 366-478 in Z.Y. Wu, P.H. Raven and D.Y. Hong, eds, *Flora of China, Vol 11: Oxalidaceae through Aceraceae*. **Missouri Botanical Garden Press**, St. Louis, USA. 622 pp.
- Daniel, T.F.** 2007. New taxa of *Justicia* (Acanthaceae) from southern Mexico and Guatemala. *Contributions from the University of Michigan Herbarium* 25:179–189.
- Daniel, T.F.**, and V. Steinmann. 2007. Two new species of *Justicia* (Acanthaceae) from the Río Balsas Basin of Michoacán, Mexico. *Contributions from the University of Michigan Herbarium* 25:199–205.
- Daniel, T.F.** 2007. Artificial interspecific hybridization of two Mexican species of *Ruellia* (Acanthaceae). *Contributions from the University of Michigan Herbarium* 25:191–197.
- Daniel, T.F.** 2007. *Sphenopholis* Scribn. Pages 620–624 in M.E. Barkworth et al. eds, *Volume 24: Magnoliophyta: Commelinidae (in part): Poaceae, part 1*. **Oxford University Press**, New York, USA. 892 pp.
- Daniel, T.F.** 2007. *Gaudinia* P. Beauv. Pages 732–733 in M.E. Barkworth et al. eds, *Volume 24: Magnoliophyta: Commelinidae (in part): Poaceae, part 1*. **Oxford University Press**, New York, USA. 892 pp.
- Daniel, T.F.** 2007. *Sphenopholis*. Pages 145–146, 408–409, and 524 in M.E. Barkworth et al., eds, *Manual of Grasses for North America*. **Utah State University Press**, Logan, USA. 640 pp.
- Daniel, T.F.** 2007. *Gaudinia*. Pages 70, 421, and 528 in M.E. Barkworth et al., eds, *Manual of Grasses for North America*. **Utah State University Press**, Logan, USA. 640 pp.
- Ezcurra, C. and **T.F. Daniel**. 2008. *Ruellia simplex*, an older and overlooked name for *Ruellia tweediana* and *Ruellia coerulea* (Acanthaceae). *Darwiniana* 45:201–203.
- Deng, Y. and **T.F. Daniel**. 2008. Validation of the Name *Pararuellia alata* (Acanthaceae). *Novon* 18:33–34.

**Daniel, T.F.**, L.A. McDade, M. Mankeltow, and C.A. Kiel. 2008. The “*Tetramerium* Lineage” (Acanthaceae: Acanthoideae: Justicieae): Delimitation and Infra-lineage Relationships Based on cp and nrITS Sequence Data. *Systematic Botany* 33:416–436.

Mora O.,A., **T.F. Daniel** and M. Martínez. 2008. *Hygrophila polysperma* (Acanthaceae) una maleza acuática registrada por primera vez para la flora mexicana. *Revista Mexicana de Biodiversidad* 79:265–269.

**Daniel, T.F.** 2008. A new *Ruellia* (Acanthaceae) from Guerrero, Mexico. *Proceedings of the California Academy of Sciences*, ser. 4, 59:109–112.

**Daniel, T.F.** 2008. One Hundred and Fifty Years of Botany at the California Academy of Sciences (1853–2003). *Proceedings of the California Academy of Sciences*, ser. 4, 59:215–305.

*Abstracts & Reviews:*

**Wenk, R.** and **T.F. Daniel**. 2007. Molecular Phylogeny and Biogeography of *Elytraria* (Acanthaceae: Nelsonioideae). Page 293 in **Plant Biology and Botany 2007: Poster Abstract Book** Joint Congress. Jul 7-11, Chicago, USA.

**Magnaghi, E.B.** and **T.F. Daniel**. 2007. Floral Ecology of *Mendoncia cowanii* (Acanthaceae: Thunbergioideae) in Madagascar. Page 305 in **Plant Biology and Botany 2007: Poster Abstract Book** Joint Congress. Jul 7-11, Chicago, USA.

McDade, L.A., C.A. Kiel, and **T.F. Daniel**. 2007. Justicieae Revisited: Increased Taxon Sampling and Characters Support A New Lineage and More “Justicioid” Diclpterinae. Page 245-246 in **Plant Biology and Botany 2007: Poster Abstract Book** Joint Congress. Jul 7-11, Chicago, USA.

McDade, L.A., **T.F. Daniel**, and C.A. Kiel. 2008. Evolutionary Processes and the Phylogeny of ‘Justicioids’ (Acanthaceae: Justicieae): Biogeography, Molecular and Morphological Evolution, and Species Richness. **Botany 2008 Conference (Botanical Society of America, American Society of Plant Taxonomists)**.

Kiel, C., **T.F. Daniel**, and L.A. McDade. 2008. Relationships within the 'Justicioid' Lineage: Phylogenetic Signal amid Taxonomic Chaos. **Botany 2008 Conference (Botanical Society of America, American Society of Plant Taxonomists)**.

McDade L., C. Kiel, **T.F. Daniel**, E.A. Tripp. 2008. Biogeography of the Acanthaceae. *South African Journal of Botany* 74:358.

**Fritsch, P.W., F. Almeda, A.B. Martins, B.C. Cruz, and D.E. Estes.** 2007. Rediscovery and Phylogenetic Placement of *Philcoxia minensis* (Plantaginaceae), with a Test of Carnivory. *Proceedings of the California Academy of Sciences*, ser. 4, 58:447–467.

Aranha Filho, J.L.M., **P.W. Fritsch, F. Almeda,** and A.B. Martins. 2007. A revision of *Symplocos* Jacq. Section *Neosymplocos* Brand (Symplocaceae). *Proceedings of the California Academy of Sciences*, ser. 4, 58:407–446.

**Fritsch, P.W.** and D.K. Trock. 2007. Lectotypification of *Gaultheria pyrolifolia* and *G. pyroloides* (Ericaceae). *Journal of the Botanical Research Institute of Texas* 1:97–102.

Yao, X.H., Q.G. Ye, **P.W. Fritsch, B.C. Cruz,** and H.W. Huang. 2008. Phylogeny of *Sinojackia* (Styracaceae) Based on DNA Sequence and Microsatellite Data: Implications for Taxonomy and Conservation. *Annals of Botany* 101:651–659.

**Fritsch, P.W.,** L.H. Zhou, L. Lu, and **B. Bartholomew.** 2008. The Flowering Plant Genus *Gaultheria* (Ericaceae) in the Gaoligong Shan, along the Border Region of China and Myanmar. *Proceedings of the California Academy of Sciences*, ser. 4, 59:147–214.

Datson P.M., B.G. Murray and **K.E. Steiner.** 2008. Climate and the evolution of annual/perennial life-histories in *Nemesia* (Scrophulariaceae). *Plant Systematics and Evolution* 208:39–57.

*Electronic Media:*

Renner, S.S., D. Treibel, **F. Almeda,** D. Stone, C.U. Ulloa, F.A. Michelangeli, R. Goldenberg, and H.M. Cifuentes. 2008. MelList: A site with information on the biodiversity of Melastomataceae. Botanisches Staatssammlung München: [www.melastomataceae.net](http://www.melastomataceae.net)

**CENTER FOR BIODIVERSITY RESEARCH**

*Scientific Publications:*

Teske, P.R., **H. Hamilton,** C.A. Matthee, and N.P. Barker. 2007. Signatures of seaway closures and founder dispersal in the phylogeny of a circumglobally distributed seahorse lineage. *BMC Evolutionary Biology* 7:138.

*Abstracts:*

- Duran, G.** 2008. Finding trends in the recent climate records of the Las Cruces Biological Station. **Restoration Ecology and Conservation Biology Workshop**, Organization of Tropical Studies, Las Cruces, Costa Rica Biological Station.
- Fernandez, M.**, W. Tejada W., **G. Duran**, A. Rico, C. Arias, M. Quintanilla, A. Pareja, J. Chive, M. Rivera, and **H. Hamilton**, 2007. Assessing the threat of invasive species in South America: an ensemble modeling approach in support of data standards, integration, and dissemination, **Proceedings of the Taxonomic Databases Working Group** annual meeting, Sept 4<sup>th</sup> 2007, Bratislava, Slovakia.
- Fernandez, M.**, D. Cole, W.R. Heyer, S. Reichle, R.O.de Sá, 2007. Predicting Neotropical frog distributions: Do more data improve the GIS models? **3er Congresso Brasileiro de Herpetologia**, 15 al 20 de Julho, Brasil.
- Hamilton, H.**, Q. Guo, **M. Fernandez**, **O. Alvarez**, **L. Irving**, and **G. Duran**, 2008. Modeling species distributions under multiple climate change regimes in support of connectivity conservation, **28th Annual ESRI Users Conference**, San Diego, CA.
- Hamilton, H.**, **M. Fernandez**, **L. Irving**, and **G. Duran**. 2008. Shifting Land and Landscapes; Modeling species distribution under future climate regimes support connectivity conservation, **8th National Conference on Science, Policy, and the Environment**. January 16-18 2008, Washington, D.C.
- Saarman, N. P.**, **G. Short**, **W.B. Simison**, and **H. Hamilton**, 2007. A preliminary molecular phylogeny of Syngnathidae. Abstracts of the **3<sup>rd</sup> International Conservation Genetics Symposium**, American Museum of Natural History, New York, NY.

**COMPARATIVE GENOMICS**

- Simison, W.B.** and J.L. Boore. 2008. Molluscan Evolutionary Genomics. Pages 447–461 in W. F. Ponder & D. R. Lindberg, eds, *Phylogeny and Evolution of the Mollusca*. **University of California Press**, Berkeley, California, USA. 488 pp.

## ENTOMOLOGY

### *Scientific Publications:*

- Pulawski, W.J.** 2007. The status of *Liris magnificus* Kohl, 1884 and *Trichogorytes costaricae* R. Bohart, 2000 (Hymenoptera: Crabronidae: Bembicinae). *Journal of Hymenoptera Research* 16:293-296.
- Fisher, B.L.,** and **N.D. Penny.** Les Arthropodes. Pages 183–212 in S.M. Goodman ed, *Paysages naturels et biodiversité de Madagascar*. **Publications scientifiques du Muséum**, Paris, France.
- Fisher, B.L.** and B. Bolton. 2007. The ant genus *Pseudaphomomyrmex* Wheeler, 1920 a junior synonym of *Tapinoma* Foerster, 1850. *Zootaxa* 1427:65–68.
- Molet, M., C. Peeters, and **B.L. Fisher.** 2007. Permanent loss of wings in queens of the ant *Odontomachus coquereli* from Madagascar. *Insectes Sociaux* 54:183-188.
- Fisher, B.L.** 2007. A new species of *Probolomyrmex* (Hymenoptera: Formicidae) from Madagascar. Pages 146–152 in R.R. Snelling, B.L. Fisher and P.S. Ward, eds, *Advances in Ant Systematics (Hymenoptera: Formicidae): Homage to E. O. Wilson—50 Years of Contributions*. *Memoirs of the American Entomological Institute* 80:146-152.
- Snelling, R.R., **B.L. Fisher,** and P.S. Ward, editors. 2007. Advances in Ant Systematics (Hymenoptera: Formicidae): Homage to E. O. Wilson—50 Years of Contributions. *Memoirs of the American Entomological Institute* 80:1–670.
- Molet, M., C. Peeters, I. Follin, and **B.L. Fisher.** 2007. Reproductive Caste Performs Intranidal Tasks Instead of Workers in the Ant *Mystridium oberthueri*. *Ethology* 113:721–729.
- Dunn, R.R., N.J. Sanders, M.C. Fitzpatrick, E. Laurent, J.P. Lessard, D. Agosti, A.N. Andersen, C. Bruhl, X. Cerda, A.M. Ellison, **B.L. Fisher,** H. Gibb, N.J. Gotelli, A. Gove, B. Guenard, M. Janda, M. Kaspari, J.T. Longino, J., Majer, T.P. Mcglynn, S.B. Menke, C.L. Parr, S.M. Philpott, M. Pfeiffer, J. Retana, A.V. Suarez, and H.L. Vasconcelos. 2007. Global ant (Hymenoptera: Formicidae) biodiversity and biogeography—a new database and its possibilities. *Myrmecological News* 10:77–83.
- Mony, R., **B.L. Fisher,** M. Kenne, M. Tindo, and A. Dejean. 2007. Behavioural Ecology of Bark-digging Ants of the Genus *Melissotarsus*. *Functional Ecosystems and Communities* 2:121–128.

- Yoshimura, M. and **B.L. Fisher**. 2007. A revision of male ants of the Malagasy region (Hymenoptera: Formicidae): Key to subfamilies and treatment of the genera of Ponerinae. *Zootaxa* 1654:21–40.
- Yanoviak, S.P., **B.L. Fisher**, and A. Alonso. 2007. Arboreal ant diversity (Hymenoptera: Formicidae) in a central African forest. *African Journal of Ecology* 46:60–66.
- Yanoviak, S.P., **B.L. Fisher**, and A. Alonso. 2008. Directed Aerial Descent Behavior in African Canopy Ants (Hymenoptera: Formicidae). *Journal of Insect Behavior* 21:164–171.
- Kremen, C., A. Cameron, A., Moilanen, S.J. Phillips, C.D. Thomas, H. Beentje, J. Dransfield, J., **B.L. Fisher**, F. Glaw, T.C. Good, G.J. Harper, R.J. Hijmans, D.C., Lees, E. Louis, Jr., R.A. Nussbaum, C.J. Raxworthy, A. Razafimpahanana, G.E. Schatz, M. Vences, D.R. Vieites, P.C. Wright, and M.L. Zjhra. 2008. Aligning Conservation Priorities Across Taxa in Madagascar with High-Resolution Planning Tools. *Science* 320:222–226.
- Fisher, B.L.** and M.A. Smith. 2008. A Revision of Malagasy Species of *Anochetus* Mayr and *Odontomachus* Latreille (Hymenoptera: Formicidae). *PLoS ONE* 3(5): e1787.
- Fisher, B.L.** 2008. Les Fourmis. Pages 249–271 in S.M. Goodman, ed., *Paysages naturels et biodiversité de Madagascar*. **Muséum National de Histoire Naturelle**, Paris, France.
- Clark, K., **B.L. Fisher**, and G. LeBuhn. 2008. The influence of urban park characteristics on ant (Hymenoptera, Formicidae) communities. *Urban Ecosystems* 11:317-334.
- Woodhead, C., M. Vences, D. Vieites, I. Gamboni, **B.L. Fisher**, and R.A. Griffiths. 2007. Specialist or generalist? Feeding ecology of the Malagasy poison frog *Mantella aurantiaca*. *Herpetological Journal* 17:225-236.
- Bolton, B. and **B.L. Fisher**. 2008. The Afrotropical ponerine ant genus *Asphinctopone* Santschi (Hymenoptera: Formicidae). *Zootaxa*, 1827:53-61.
- Ramírez, M.J., J.A. Coddington, W.P. Maddison, P.E. Midford, L. Prendini, J. Miller, **C.E. Griswold**, G. Hormiga, P. Sierwald, N. Scharff, S.P. Benjamin, and W.C. Wheeler. 2007. Linking of digital images to phylogenetic data matrices using a morphological ontology. *Systematic Biology* 56:283–294.
- Tang, G., C.M. Yin, X.J. Peng, **D. Ubick** and **C.E. Griswold**. 2007. Five crab spiders of the Genus *Lysiteles* from Yunnan Province, China (Araneae: Thomisidae). *Zootaxa* 1480:57-68.

- Yin, C.M., **C.E. Griswold** and X. Xu. 2007. One new species and two new males of the family Araneidae from China (Arachnida: Araneae). *Acta Zootaxonomica Sinica* 16:1-6.
- Wood, H.M., C.E. Griswold**, and G. Spicer. 2007. Phylogenetic relationships within an endemic group of Malagasy ‘assassin spiders’ (Araneae, Archaeidae): ancestor reconstruction, convergent evolution and biogeography. *Molecular Phylogenetics and Evolution* 45:612–619.
- Tang, G., X.J. Peng, **C.E. Griswold, D. Ubick**, and C.M. Yin. 2008. Four crab spiders of the family Thomisidae (Araneae, Thomisidae) from Yunnan, China. *Acta Zootaxonomica Sinica* 33:241–247.
- Tang, G., C.M. Yin, X.J. Peng, **D. Ubick**, and **C.E. Griswold**. 2008. The crab spiders of the Genus *Lysiteles* from Yunnan Province, China (Araneae: Thomisidae). *Zootaxa* 1742:1–41.
- Erwin, T.L., and **D.H. Kavanaugh**. 2007. Studies of the subtribe Tachyina (Coleoptera: Carabidae: Bembidiini), Supplement E: A Revision of Genus *Costitachys* Erwin 1974. *Proceedings of the California Academy of Sciences*, ser. 4, 58:331-338.
- Ubick, D.** and T.S. Briggs. 2008. The Harvestman Family Phalangodidae. 6. Revision of the *Sitalcina* complex (Opiliones: Laniatores). *Proceedings of the California Academy of Sciences*, ser. 4, 59:1–108.
- Liang, H.B., and **D.H. Kavanaugh**. 2007. Review on the Genus *Dendrocellus* Schmidt-Göbel (Coleoptera: Carabidae: Dryptini), with Descriptions of Seven New Species. *Coleopterists Bulletin* 61:1–39.

## **HERPETOLOGY**

### *Scientific Publications:*

- Uyeda, J.C., **R.C. Drewes** and B. M. Zimkus 2007. The California Academy of Sciences Gulf of Guinea Expeditions (2001, 2006) VI. A new species of *Phrynobatrachus* from the Gulf of Guinea Islands and a reanalysis of *Phrynobatrachus dispar* and *P. feae* (Anura: Phrynobatrachidae). *Proceedings of the California Academy of Sciences*, ser. 4, 58:367–385.
- Drewes, R.C.**, M.S. Hedrick, S.S. Hillman, and P.C. Withers 2007. Unique role of skeletal muscle contraction in vertical lymph movement in anurans. *Journal of Experimental Biology* 210:3931–3939.

- Hedrick, M.S., **R.C. Drewes**, S.S. Hillman, and P.C. Withers. 2007. Lung ventilation contributes to vertical lymph movement in anurans. *Journal of Experimental Biology* 210:3940–3945.
- Frost, D.R., T. Grant, J. Faivovich, R.H. Bain, A. Haas, C.F.B. Haddad, R.O. de Sa, A. Channing, M. Wilkinson, S.C. Donnellan, C.J. Raxworthy, J. A. Campbell, B. Blotto, P. Moler, **R.C. Drewes**, R.A. Nussbaum, J.D. Lynch, D.M. Green, and W.C. Wheeler. 2008. Is the Amphibian Tree of Life really fatally flawed? *Cladistics* 24:385–395.
- Burbrink, F.T. and **R. Lawson**. 2007. How and when did Old World ratsnakes disperse into the New World? *Molecular Phylogenetics and Evolution* 43:173–189.
- Burbrink, F.T., B.I. Crother and **R. Lawson**. 2007. The Destabilization of North American Colubroid Snake Taxonomy. *Herpetological Review* 38:273–278.
- Busack, S.D. and **R. Lawson**. 2008. Morphological, mitochondrial DNA and allozyme evolution in representative amphibians and reptiles inhabiting each side of the Strait of Gibraltar. *Biological Journal of the Linnean Society* 94:445–461.
- De Queiroz, A. and **R. Lawson**. 2008. A peninsula as an island: multiple forms of evidence for overwater colonization of Baja California by the gartersnake *Thamnophis validus*. *Biological Journal of the Linnean Society* 95:409–424.
- Rao, D.-Q. and **J.A. Wilkinson**. 2008. Phylogenetic relationships of the mustache toads from mtDNA sequences. *Molecular Phylogenetics and Evolution* 46:61–73.
- Rao, D.-Q. and **J.A. Wilkinson**. 2007. A New Species of *Amolops* (Anura: Ranidae) from Southwest China. *Copeia* 2007:913–919
- Books:*
- Leviton, A.E.**, George R. Zug, **J.V. Vindum**, and G.O.U. Wogan. 2008. *Handbook to the Dangerously Venomous Snakes of Myanmar*. **California Academy of Sciences**, San Francisco, California, USA. 122pp.
- Abstracts:*
- Hedrick, M.S., S.S. Hillman, **R.C. Drewes** and P.C. Withers. 2006. Lung ventilation is coupled to lymph movement in anuran amphibians. Society of Experimental Biology. Canterbury, UK. *Comparative Biochemistry and Physiology* 143A:S70.

*Electronic Media:*

**Drewes, R.C.** Island Biodiversity Race blog. [islandbiodiversityrace.wildlifedirect.org](http://islandbiodiversityrace.wildlifedirect.org) and [calacademy.org/medialibrary/blogs/gulfofguinea](http://calacademy.org/medialibrary/blogs/gulfofguinea)

## **ICHTHYOLOGY**

*Scientific Publications:*

Wirtz, P., C.E.L. Ferreira, S.R. Floeter, R. Fricke, J.L. Gasparini, **T. Iwamoto**, L. Rocha, C.L.S. Sampaio & U.K. Schliewen. 2007. Coastal Fishes of São Tomé and Príncipe islands, Gulf of Guinea (Eastern Atlantic Ocean)—an update. *Zootaxa* 1523:1–48.

**Iwamoto, T.** and A. Orlov. 2008. First Atlantic record of *Asthenomacrurus victoris* Sazonov & Shcherbachev (Macrouridae, Gadiformes, Teleostei). *Proceedings of the California Academy of Sciences*, ser. 4, 59:125–131.

**Iwamoto, T.** and K.J. Graham. 2008. Two new *Coelorinchus* species from Australia (Macrouridae, Gadiformes, Teleostei). *Proceedings of the California Academy of Sciences*, ser. 4, 59:133–146.

## **INVERTEBRATE ZOOLOGY & GEOLOGY**

*Scientific Publications:*

**Ghiselin, M.T.** and O. Breidbach. 2007. The search for the basis of natural classification. *The Monist* 90:483–498.

Zhang, W., M. Gavagnin, Y-W. Guo, E. Mollo, **M.T. Ghiselin** and G. Cimino. 2007. Terpenoid metabolites of the nudibranch *Hexabranhus sanguineus* from the South China Sea. *Tetrahedron* 63:4725–4729.

Breidbach, O., **M.T. Ghiselin**. 2007. Evolution and development: past, present, and future. *Theory in Biosciences* 125:157–171.

Breidbach, O. and **M.T. Ghiselin** 2007. Anton Dohrn and the problems of 19th century phylogenetic morphology. *Theory in Biosciences* 125:173–179

- Mollo, E., M. Gavagnin, M. Carbone, F. Castellucio, F. Pozzone, V. Roussis, J. Templado, **M.T. Ghiselin**, and G. Cimino. 2008. Factors promoting marine invasions: a chemoeological approach. *Proceedings of the National Academy of Sciences* 105:4582–4586.
- Pola, M., J.L. Cervera and **T.M. Gosliner**. 2008. Revision of the Indo-Pacific genus *Nembrotha* (Nudibranchia: Dorididae: Polyceridae) with the description of two new species. *Scientia Marina* 72:145–183.
- Gosliner, T.M.** and S. Fahey. 2008. Systematics of *Trapania* (Nudibranchia: Goniodorididae) with descriptions of sixteen new species. *Systematics and Biodiversity* 6:53–98.
- Camacho Garcia, Y. and **T.M. Gosliner**. 2008. Phylogeny of the genus *Jorunna* Bergh, 1876 (Nudibranchia: Discodorididae). *Journal of the Molluscan Studies* 74:143–181.
- Ortiz, D. and **T.M. Gosliner**. 2008. Preliminary phylogeny of the facelinid nudibranch genus *Phyllodesmium* Ehrenberg, 1831. *The Veliger* 50:1–23.
- Hermosillo, A. and **T. M. Gosliner**. 2008. The opisthobranch fauna of the Archiepiélago de Revillagigedo, Mexican Pacific. *Festivos* 40:25–34.
- Gosliner, T.M.**, M.M. González-Duarte and J.L. Cervera. 2007. Revision of the systematics of *Babakina* Roller, 1973 (Mollusca: Opisthobranchia) with the description of a new species and a phylogenetic analysis. *Zoological Journal of the Linnean Society* 151:671–689.
- Baumiller, T.B., **R. Mooi**, and C. Messing. 2008. Urchins in the meadow: Paleobiological and evolutionary implications of cidaroid predation on crinoids. *Paleobiology* 34:22–34.
- Mooi, R.**, and B. David. 2008. Radial symmetry, the Anterior/Posterior axis, and echinoderm Hox genes. *Annual Review of Ecology, Evolution, and Systematics* 39:43–62.
- Zigler, K.S., **R. Mooi**, and H.A. Lessios. 2007. Molecular phylogenetics and egg size evolution in the sand dollar genus *Mellita*. *Integrative and Comparative Biology* 47:e247.
- Roopnarine, P.D.** 2008. Ecological informatics: Catastrophe theory Pages 531–536 in Jørgensen, S.E., ed, *Encyclopedia of Ecology*. Elsevier Press, St. Louis, Missouri, USA.

- Roopnarine, P.D.**, J. Signorelli, and C. Laumer. 2008. Systematic, Biogeographic and Microhabitat-Based Morphometric Variation of the Bivalve *Anomalocardia squamosa* (Bivalvia: Veneridae: Chioninae) in Thailand. *The Raffles Bulletin of Zoology* 18:95–102.
- Goodwin, D.H., Anderson, L.C. and **P.D. Roopnarine**. 2008. Evolutionary origins of novel conchologic growth patterns in tropical American corbulid bivalves. *Evolution and Development* 10:642-656.
- Vermeij, G.J., and **P.D. Roopnarine**. 2008. The coming Arctic invasion. *Science* 321:780–781.
- Roopnarine, P.D.**, K.D. Angielczyk, S.C. Wang and R. Hertog. 2007. Trophic network models explain instability of Early Triassic terrestrial communities. *Proceedings of the Royal Society B* 274:2077–2086.
- Mooi, R.**, and C.M. Breslin. 2007. Multiple origins of respiratory structures in sea urchins. *Integrative and Comparative Biology* 47:e210.
- Angielczyk, K.D., **P.D. Roopnarine**, and S.C. Wang. 2007. Does extinction resistance explain changes in trophic network structures in vertebrate communities? *Journal of Vertebrate Paleontology*, Supplement to 3, 28:39.
- Van Syoc, R.** 2007. Methods of preservation and anesthetization of marine invertebrates. Pages 37-41 in J.T. Carlton ed, *The Light and Smith Manual: intertidal invertebrates from central California to Oregon*. 4th Ed., **University of California Press**, Berkeley, California, USA.
- Williams, G.C.** 2007. Collection and Preservation of Tidepool Animals. Pages 150-153 in M.W. Denny and S D. Gaines eds, *Encyclopedia of Tidepools and Rocky Shores*. **University of California Press**, Berkeley, California, USA. 705 pp.
- Williams, G.C.** 2007. New species of Pennatulacean genera *Acanthoptilum* and *Stylatula* (Octocorallia: Virgulariidae) from New Zealand and the Campbell Plateau: Both Genera Previously Considered Endemic to the West Coast of the Americas and Atlantic Ocean. *Proceedings of the California Academy of Sciences*, ser. 4, 58:339–348.

*Abstracts and reviews:*

- Ghiselin, M.T.** 2007. James Elwick, Styles of Reasoning in the British Life Sciences: Shared Assumptions, 1820-1858. *History and Philosophy of the Life Sciences* 29:356–366.
- Gosliner, M.T.** 2007. Global opisthobranch biodiversity: Are they evolving faster than we can find them? Invited symposium, Inventorying the molluscan fauna of the world: frontiers and perspectives. **World Congress of Malacology**, Antwerp, Belgium, 15–20 July 2007.
- Gosliner, M.T.** 2008. Systematics and Biodiversity of *Dermatobranchus* (Nudibranchia: Arminina) in the tropical Indo-Pacific. **Western Society of Malacologists** meeting, June 5–7, 2008, Menlo Park, California, USA.
- Gosliner, M.T.** 2008. Presidential Address: Philippine Coral Reefs: An Integrative Approach to Research, Education, Animal Husbandry and Public Outreach. **AAAS Pacific Division** meeting, June 2008, Waimea, Hawai'i, USA.
- Gosliner, M.T.** 2008. Invited Symposium: Past and Future of the Fauna of the Pacific Basin: Documenting Species Diversity Along the Verde Island Passage, Philippines: the apex of the Apex of the Coral Triangle. **AAAS Pacific Division** meeting, June 2008, Waimea, Hawai'i, USA.
- Roopnarine, P.D.,** K.D. Angielczyk, and S.C. Wang. 2007. The evolution and emergence of paleocommunity resistance to secondary extinctions: Species and community level processes. **ESA/SER Joint Annual Meeting**, San Jose, California, USA. p. 77.
- Angielczyk, K.D., **P.D. Roopnarine**, and S.C. Wang. 2007. Does extinction resistance explain changes in the structure of terrestrial communities? **Geological Society of America** Abstracts with Programs, 39:370.
- Hertog, R. and **P.D. Roopnarine**. 2007. Resistance of marine paleocommunities to primary productivity disruption in the Late Miocene of the Dominican Republic. **Geological Society of America** Abstracts with Programs, 39:170.
- Karcher, M.D., S.C. Wang, **P.D. Roopnarine**, and K.D. Angielczyk. 2007. Bayesian modeling of ecosystems in the Permian mass extinction. **2007 Joint Statistical Meetings** Abstracts Book, p. 232.
- Leviton, A.,** M.L. Aldrich, and **G.C. Williams**. 2007. Geology and geologists at the California Academy of Sciences, 1853–1906: a collective biography. **Geological Society of America**, Program and Abstracts, Denver 39:382.

*Books:*

Breidbach, O. and **M.T. Ghiselin**, eds. 2008. *Fritz Müller, Für Darwin und andere Schriften zur Biologie. Mit einer Einleitung herausgegeben von Olaf Breidbach und Michael Ghiselin.* **Olms-Weidmann**, Hildesheim. 194 pp.

*Electronic Media:*

**Williams, G.C.** Octocoral Research Center.  
[http://research.calacademy.org/research/izg/orc\\_home.html](http://research.calacademy.org/research/izg/orc_home.html).

**ORNITHOLOGY & MAMMALOLOGY**

*Scientific Publications:*

- Johnson, J.A., M. Gilbert, M.Z. Virani, M. Asim and **D.P. Mindell**. 2008. Temporal genetic analysis of the critically endangered oriental white-backed vulture in Pakistan. ***Biological Conservation*** 141:2403–2409.
- Lerner, H.R.L., M.C. Klaver, and **D.P. Mindell**. 2008. Molecular phylogenetics of Buteoninae birds of prey (Aves: Accipitridae). ***The Auk*** 125:304–315.
- Brown, J.W., J.S. Rest, J. Garcia-Moreno, M.D. Sorenson, and **D.P. Mindell**. 2008. Strong mitochondrial DNA support for a Cretaceous origin of modern avian lineages. ***BMC Biology*** 6:6.
- Brown, J. W. and **D.P. Mindell**. 2008. Strigiformes, Apodiformes, Falconiformes in S.B. Hedges and S. Kumar, eds, *The Timetree of Life*. **Oxford University Press**.
- Mindell, D.P.** 2007. This land is your land. ***Evolutionary Psychology*** 5:605-611.
- Johnson, J.A., K.K. Burnham, W.A. Burnham, and **D.P. Mindell**. 2007. Genetic structure identified among continental and island populations of gyrfalcons. ***Molecular Ecology*** 16:3145–3160.
- Johnson, J.A., R. Thorstrom, and **D.P. Mindell**. 2007. Systematics and conservation of the hook-billed kite including the island taxa from Cuba and Grenada. ***Animal Conservation*** 10:349–359.
- Brown, J.W., R.B. Payne, and **D.P. Mindell**. 2007. Nuclear DNA does not reconcile 'rocks' and 'clocks' in Neoaves: A Comment on Ericson et al. ***Biology Letters*** 3:3.

- Crosbie, S.P., W.D. Koenig, W.K. Reisen, V.L. Kramer, L. Marcus, R. Carney, E. Pandolfino, G.M. Bolen, L.R. Crosbie, **D.A. Bell**, and H.B. Ernest. 2008. Early impact of West Nile Virus on the Yellow-billed Magpie (*Pica nuttalli*). *The Auk* 125:542–550.
- Force, M.P., S.W. Webb, and **S.N.G. Howell**. 2007. Identification at sea of Hawaiian and Galapagos Petrels. *Western Birds* 38:242–248
- Gay, L., P.-A. Crochet, **D.A. Bell**, and T. Lenormand. 2008. Comparing clines on molecular and phenotypic traits in hybrid zones: a window on tension zone models. *Evolution* 62:2789–2806.
- Howell, S.N.G.**, and J.B. Patteson. 2008. Variation in the Black-capped Petrel—one species or more? *Alula* 14:70–83.
- Ishak, H.D., **J.P. Dumbacher**, N.L. Anderson, J.J. Keane, G. Valkiu-Nas, S.M. Haig, L.A. Tell, And R.N.M. Sehgal. 2008. Blood Parasites in Owls with Conservation Implications for the Spotted Owl (*Strix occidentalis*). *PLoS One* 3(e2304):1–9.
- Mack, A., and **J.P. Dumbacher**. 2007. Birds of Papua. Pages 654–688 in A.J. Marshall and B.M. Beehler eds, *The Ecology of Papua*. **Conservation International**, Washington, USA.
- Renner, S.C., J.H. Rappole, P.C. Rasmussen, T. Aung, M. Aung, N.M. Shwe, **J.P. Dumbacher**, and R.C. Fleischer. 2008. A new subspecies of *Tesia olivacea* (Sylviidae) from Chiang Mai province, northern Thailand. *Journal of Ornithology* 149:439–450.

### **STEINHART AQUARIUM**

- Carpenter, K.E., **Delbeek, J.C.**, et al. 2008. One-third of reef-building corals face Elevated extinction risk from climate change and local impacts. *Science* 321:560–563.
- Delbeek, J.C.** 2007a. Nieuw doopvonten aquarium in het Waikiki Aquarium. *Het-Zeeaquarium* 57:34–41.
- Delbeek, J.C.** 2007b. How to plumb for overflows and sumps. *Aquarium Fish International* 19:58–63.
- Delbeek, J.C.** 2008a. Bubble corals. *Aquarium Fish International* 20:82–88.
- Delbeek, J.C.** 2008b. Low energy reef aquariums: Alternatives to a light-intensive aquarium. *Coral Magazine* 5:44–53.

- Ross, R.** 2008. Living with the AEFW Plague. *Reef Hobbyist Magazine* 2:19–21.
- Ross, R.** 2008. 8 things to consider before buying a coral. *Reef Hobbyist Magazine* 2:4–5.
- Ross, R.** 2007. Cutting it up - Fragging branching soft corals. *Reef Hobbyist Magazine* 1:10–12.
- Ross, R.** 2007. The Ballet of the Wunderpus. *C the Journal of Aquatic Science, Travel and Adventure* 1:65–71.
- Ross, R.** 2007. Sticky Basics: The are of Frag Gluing. *Reef Hobbyist Magazine* 1:6–8.
- Ross, R.** 2007. Whats on your Bottom. *Reef Hobbyist Magazine* 1:8–10.
- Root, R.G., H.W. Courtland, **W. Shepherd**, and J.H. Long, Jr. 2007. Flapping flexible fish: periodic and secular body reconfigurations in swimming lamprey, *Petromyzon marinus*. *Experiments in Fluids* 43:779–797.
- Shepherd, B.** 2008. An experimental prototype coral reef tank at the Steinhart Aquarium's temporary museum. Advances in Coral Husbandry in Public Aquariums. Pages 227–238 in R.J. Leewis and M. Janse eds, *Public Aquarium Husbandry Series, vol. 2. Burgers' Zoo*, Arnhem, The Netherlands. 444 pp.
- Shepherd, B.** 2008. Design and development of the Steinhart aquarium's Philippine coral reef exhibit. Advances in Coral Husbandry in Public Aquariums. Pages 269-279 in R.J. Leewis and M. Janse eds, *Public Aquarium Husbandry Series, vol. 2. Burgers' Zoo*, Arnhem, The Netherlands. 444 pp.