

Gage H. Dayton

Moss Landing Marine Laboratories
8272 Moss Landing Road
Moss Landing, Ca. 95039

office: (831) 771-4428
fax: (831) 632-4403
email: gdayton@mlml.calstate.edu

EDUCATION

- 2005 **Doctor of Philosophy**, Texas A&M University
Dissertation: *Community assembly of xeric-adapted anurans at multiple spatial scales.*
- 1996 **Bachelor of Sciences**, Humboldt State University.

RECENT EXPERIENCE

- 2005-pres. **Postdoctoral Researcher**, Moss Landing Marine Laboratories, San Jose State University (Teaching: *Biogeography*). (Research: *Restoration and Ecology of the Moro Cojo Watershed*).
- 2007 **Lecturer**, University of California Santa Cruz (*Upper Division Ecology*).
- 2006-pres. **Adjunct Faculty**, Hartnell College (Teaching: *General Biology*).
- 2000-2005 **Guest Lecturer**, Texas A&M University (*Wetland Ecology, Herpetology, Adaptational Physiology*), California State University at Monterey Bay (*Vernal Pools of Fort Ord*).
- 2002-2005 **Teaching Assistant**, Texas A&M University (*Herpetology and Physiology*).

PUBLICATIONS

- Dayton, G.H.** *In press*. Seasonality. In S.E. Jorgensen, ed. *Encyclopedia of Ecology*. Amsterdam, Netherlands.
- Dayton, G.H.**, P.K. Dayton, and H.W. Greene. *Accepted pending revision*. Uncharted territory and serendipitous opportunities. Chapter introduction for upcoming book: "Viewing nature from the shoulders of giants: Timeless readings in natural history" to be published by University of Chicago Press.
- Dayton, G.H.** *In press*. Water availability. In S.E. Jorgensen, ed. *Encyclopedia of Ecology*. Amsterdam, Netherlands.
- Dayton, G.H.**, R. Skiles, and L.B. Dayton. (Book) 2007. *Frogs and Toads of Big Bend National Park*. Texas A&M University Press. 64pp
- Dayton, G.H.** and L.A. Fitzgerald. 2006. Habitat suitability models for desert amphibians. *Biological Conservation* 132:40-49.

- Dayton, G.H.** and L.A. Fitzgerald. 2005. Priority effects and desert anuran communities. *Canadian Journal of Zoology* 83(8):112-116.
- Dayton, G.H.**, D. Saenz, K.A. Baum, L.B. Langerhans, T.J. DeWitt. 2005. Body Shape, burst speed, and escape behavior of larval anurans. *Oikos* 111(3):582-591.
- Dayton, G.H.**, R.E. Jung, and S. Droege. 2004. Large-scale habitat associations of four desert anurans in Big Bend National Park, Texas. *Journal of Herpetology* 38(4):619-627.
- Saenz D, J.B. Johnson, C.K. Adams, and **G.H. Dayton**. 2003. Accelerated hatching of southern leopard frog (*Rana sphenocephala*) eggs in response to the presence of a crayfish (*Procambarus nigrocinctus*) predator. *Copeia* 2003:646-649.
- Jung, R.E., **G.H. Dayton**, S.J. Williamson, J.R. Sauer, and S. Droege. 2002. Red dye staining as a technique for estimating anuran tadpole populations in desert pools. *Journal of Herpetology* 36(3): 465-472.
- Dayton, G.H.** and S.W. Dayton. 2002. Cannibalistic Behavior in *Scaphiopus couchii*: More Evidence for Larval Anuran Oophagy. *Journal of Herpetology* 36(3):531-532.
- Bonine, K.E., **G.H. Dayton**, and R.E. Jung. 2001. Attempted predation of Couch's Spadefoot (*Scaphiopus couchii*) juveniles by ants (*Aphenogaster cockerelli*). *The Southwestern Naturalist* 46(1):104-106.
- Dayton, G.H.** and L.A. Fitzgerald. 2001. Competition, predation and the distribution of four desert anurans. *Oecologia* 129(3):430-435.
- Reviews, notes, and popular articles**
- Dayton, G.H.** 2006. Book review of "Vernal Pools: Natural history and conservation." *Ecological Engineering* 28:380-381.
- Dayton, G.H.**, P.K. Dayton, and H.W. Greene. *Accepted*. Uncharted Territory and Serendipitous Encounters. Chapter introduction for upcoming book: "*Viewing nature from the shoulders of giants: Timeless readings in natural history*" Editors M.H. Graham, J. Parker, and P. Dayton. University of Chicago Press.
- Dayton, G.H.** *Accepted*. General ecology: Water availability. *In: Encyclopedia of Ecology*. Elsevier B.V., Amsterdam, Netherlands.
- Ryberg, A.W. and **G.H. Dayton**. 2004. Natural History Note. *Scaphiopus couchii*. Predation. *Herpetological Review* 36(3):263.
- Dayton, G.H.** 2002. Revision of the Big Bend Herpetofauna List. *Big Bend Natural History Association*.
- Dayton, G.H.** and C.W. Painter. 2005. *Bufo speciosus*. *In: Lannoo, M.J. (Ed.), Status and Conservation of U.S. Amphibians*. University of California Press, Berkeley, California.

Dayton, G.H. 2003. Conservation and ecology of Chihuahuan Desert amphibians. *The Chihuahuan Desert Discovery*, Fall/Winter 2003.

Dayton, G.H. 2003. Big Bend amphibian conservation and ecology. *Big Bend resource management tracks*, Volume 3 Spring 2003.

Dayton, G. H., L. A. Fitzgerald and M. I. Goldstein. 2001. Geographic distribution. *Bufo valliceps*. *Herpetological Review*. 32(2):112.

Dayton, G. H., L. A. Fitzgerald and M. I. Goldstein. 2001. Geographic distribution. *Bufo valliceps*. *Herpetological Review*. 32(2):112.

Dayton, G.H. 2000. Natural History Note. *Gastrophryne olivacea*. Vocalization. *Herpetological Review*. 31(1):40.

Dayton, G.H. and R.E. Jung. 1999. Natural History Note. *Scaphiopus couchii*. Predation. *Herpetological Review*. 30(3):164.

GRANTS

2007-2008 **EPA**, Support for the Central Coast Wetland Working Group. **\$85,000 (PI)**

2007-2009 **California State Water Resources Control Board**. Evaluating State funded restoration projects. **\$400,000 (PI)**

2006-2008 **EPA**. Wetland Demonstration Project. **\$230,000 (Co-PI)**.

2006-2008 **State of California**, Restoration of the Moro Cojo Watershed. **\$183,000 (Co-PI)**.

2004 **Graduate Research and Presentation Grant**. Office of Graduate Studies. **\$500**.

2003-2004 **Society of Wetland Scientists**, Student Research Grant Program. **\$1,000**.

2003-2004 **Texas Water Resource Institute**, Mills Scholarship Grant, **\$1,000**.

2001-2003 **National Park Service**, Preliminary surveys of amphibians in Maderas del Carmens and Santa Elena protected areas, Mexico. **\$5,000 (Co-PI w/L. Fitzgerald)**.

2001-2003 **USGS Amphibian Research Monitoring Initiative**. Conservation and ecology of amphibians in Big Bend National Park. **\$78,000. (Co-PI w/ L. Fitzgerald)**.

FELLOWSHIPS AND AWARDS

2004 **Teaching Recognition**, Received the highest evaluations among lab sections in the Department of Wildlife and Fisheries, Texas A&M University.

2004 **Tom Slick Graduate Fellowship**, Texas A&M University

- 2004 **Recognition Award**, for co-chairing Conservation, Ecology, and Evolutionary Biology Student Symposium. *Texas A&M University*.
- 2003 **Best Student Paper**, Texas A&M University Wildlife and Fisheries Symposium
- 2001 **Outstanding Graduate Student**, Dept. of Wildlife and Fisheries, *Texas A&M University*.
- 2001 **Recognition Award**, for co-chairing Ecological Integration Symposium, *Texas A&M University*.

PROFESSIONAL SERVICE

- 2007 Member of the Board of Directors of Monterey Regional Water Pollution Control Agency.
- 2005 Coordinated Student Presentation Judging, *Western Society of Naturalists*.
- 2001 Symposium Organizer, Conservation, Ecology, and Evolutionary Biology Student Symposium, *Texas A&M University*.
- 2001 Symposium Organizer, Annual Ecological Integration Symposium. *Texas A&M University*.
- 2002-pres Served as external reviewer for *Oikos*, *Ecology*, *Oecologia*, *Copeia*, *Southwestern Journal of Naturalists*, *Western American Midland Naturalist*, *Herpetologica*.

PROFESSIONAL MEMBERSHIPS

Ecological Society of America, Society of Conservation Biology, Sigma Xi, American Society of Ichthyologists and Herpetologists, Western Society of Naturalists, California Native Plant Society, Southwestern Society of Naturalists.

INVITED SYMPOSIA AND SEMINARS

- Dayton, G.H.** 2006. Ecology and conservation of North American amphibians: from desert pools to perennial springs. *San Jose State University*.
- Dayton, G.H.** 2005. Factors affecting the distribution of desert amphibians: landscape, pools, competitors, and predators. *Moss Landing Marine Laboratories*.
- Dayton, G.H.**, P. Rosen, C. Schwalbe, L.E. Stevens, C. Painter, R. Jennings, and L.A. Fitzgerald. 2002. Herpetofauna of North American springs: biogeography and conservation. *Ecological Society of America*.

SYNERGISTIC ACTIVITIES

Student Mentor, *Why restore wetlands?* Watsonville High School. Fall/Winter, 2006-2007.
Field Seminar. *Restoring Native Habitats*. Monterey Bay Aquarium Student Mentorship Program. Spring, 2006.
Restoration Workshop, Hands on experience. Carmel High School Students, Fall 2005.
Frogs and Toads, Brazos Valley Montessori School (Pre-K), Spring 2004.
Amphibians and Reptiles. St. Thomas Early Learning Center (1st Grade), Spring 2003.
Amphibians of Big Bend National Park. San Vicente Elementary School, Summer 2002.

OTHER EXPERIENCE

- 2005** **Presentation judge**, judged graduate student oral presentations at Moss Landing Marine Laboratories in a one day symposium on the taxonomy and systematics of marine organisms.
- 2005** **Coordinated judging** for poster presentations at the Western Society of Naturalist meeting.
- 2003** **Guest Lecturer**, gave several lectures on ecology, conservation, and species adaptations in upper division undergraduate course at Texas A&M.
- 2002** **Field Biologist**, worked with Dr. Drew Talley studying the affects of marine inputs on terrestrial food webs in the Sea of Cortez, Baja California, MX>
- 2001** **Graduate Research Assistant, non-teaching**. Community Ecology of Desert Anurans.
- 2001** **Guest Lecturer**, Wetlands Ecology.
- 2000** **Teaching Assistant**, Adaptational Biology (vertebrate physiology). Department of Wildlife and Fisheries Sciences.
- 1999** **Research Assistant**, Texas A&M University.
- 1998** **Biologist**, Patuxent Wildlife research Center; Laurel, Maryland. Conducted amphibians surveys in Big Bend National Park, TX.
- 1997** **Wildlife Biologist**, The Environmental Trust; San Diego, California. Conducted flora and fauna surveys on Miramar Naval Base and Camp Pendleton Marine Base. Work included California Gnatcatcher and Willow Flycatcher surveys.
- 1996** **Research Assistant**, Watershed Institute: Monterey, California. Conducted wetland restoration throughout Monterey County.
- 1995** **Biologist**, Simpson Timberlands (Wildlife): Korb, California. Conducted amphibian surveys as well as assisted with Spotted-owl survey work.
- 1995** **Field Assistant (Volunteer)**, Lamphere Christian Dunes bird banding project; Arcata, California. Assisted in bird banding.

- 1995** **Field Assistant (Volunteer)**, Wildlife Department, Humboldt State University, Arcata, California. Assisted with field research on Slender Salamanders.
- 1994** **Field Biologist (Volunteer)**, New Zealand Institute of Water Quality; Hamilton, New Zealand. Assisted with water quality monitoring and analyses.
- 1994** **Field Biologist (Volunteer)**, Department of Conservation and Land Management: Kununurra, Western Australia. Conducted flora and fauna surveys.
- 1993** **Research Diving Assistant**, Monterey Bay Aquarium Research Institute. Worked with Dr. Jim Barry measuring ocean currents and assessing benthic communities in Antarctica.
- 1993** **Research Assistant (Volunteer)**, Grand Canyon Environmental Studies; Flagstaff, Arizona. Assisted with flora and fauna surveys along the Colorado River in the Grand