



2002-present *Seminar in Pollination Biology*, UCD  
2002-present *Seminar in Biodiversity*, UCD  
2000-present *The Bee Course*, (AMNH, SWRS)  
2000-present *Bee Pollination Ecology of Spring Wildflowers*, UC Berkeley,  
Jepson Herbarium  
1972 *Pollination Ecology*, U of OK Biological Station

#### **ADVISING ACTIVITIES**

1969-1996 Major Professor of 9 MS and 11 PhD students  
1992-1998 Advisor of 2 postdoctoral students

#### **INVITED TALKS (2005-2009):**

##### Professional meetings/symposia/seminars/courses:

Western NA Bumble Bees in Peril, Smithsonian, Washington DC (20 Jun 09)  
Plight of a Bumble Bee, UCD Entomology Seminar (27 May 09)  
Biodiversity of Native Bees and Crop Pollination with Emphasis on CA. Harlan II  
Symposium, UC Davis 17 Sept 08)  
Importation of non-native bumble bees for crop pollination: Benefits and risks:  
Entomol. Soc. Amer, Pac Branch, Portland, OR (27 Mar 07)  
Yellow Star-thistle on Santa Cruz Island: an Overview of 20 Years of Studies. Cal-  
IPC/The Wildlife Society Symposium, Monterey, CA (30 Jan 07)  
Factors that influence population sizes in bumble bees and other members of the native  
bee community: National Academy of Science Workshop on Pollinator Status,  
Washington, DC (18 Oct 05)  
Overview: Specialist bee pollinators of vernal pool flowers: The Wildlife Society,  
Sacramento, CA (21 Jan 05)

##### Community outreach:

Rush Ranch Native Bees: Rush Ranch, Solano Land Trust (Jan 2009, 2007, 2005)  
Vernal pool bees: Jepson Prairie Docent Training (Feb 2005-2009)  
Native Bees as Crop Pollinators, Pesticide Applicators Professional Association,  
Sacramento, CA (9 Dec 08)  
Natural History of California Bees. McLaughlin Reserve, CA (6 May 07)  
Native Bees. CNPS, WL Jepson Chapter, Benecia, CA (23 Apr 07)  
Bee Diversity. El Dorado County Master Gardeners, Placerville, CA (15 Feb 07)  
Background and benefits of using the Blue Orchard Bee as an almond pollinator.  
Almond Board of CA, Modesto, CA (4 Oct 06)  
Diversity in Bees: Native bees, exotics, solitaires, cuckoos and socials. Western  
Apicultural Society, Buellton, CA (26 Jul 06)  
Biology of specialist bees and conservation of showy vernal pool flowers. Butte  
Environmental Council, Vernal Pool Symposium. Chico, CA (23 Mar 06)  
Bees: Terrestrial insect workshop, CA Department of State Parks and Recreation, Davis,  
CA (3 Mar 05)  
Bees: EcoFarm Conference, Asilomar, CA (20 Jan 05)

#### **EXTRACURRICULAR ACTIVITIES**

Present Member of 15 professional societies including: AIBS, International  
Society of Hymenopterists

1992-present	Chair of Advisory Committee for Jepson Prairie Reserve UCD/NRS
1988-1989	Executive Director, R.M. Bohart Museum Society, UCD
1964-1994	Variously, Member of Executive Board, Program Chair, Secretary, President, and Publications Committee, Pacific Coast Entomological Society
1967-1974	Associate Editor/Editor, Pan-Pacific Entomologist
1973-1971	Advisor, UC Publications in Entomology, California Insect Survey Bulletin
1989-2000	Western Regional Project W-180 (Africanized Honey Bees), Chair 1989-1991
1987-2000	Western Regional Coordinating Committee-37 (Pollinating Insects)

#### **RECENT PUBLICATIONS (2005-2009) OF 110 REFEREED PUBLICATIONS**

- Frankie, G. W., R. W. Thorp, J. Hernandez, M. Rizzardi, B. Ertter, J. C. Pawelek, S. L. Witt, M. Schindler, R. Coville, and V. Wojcik. 2009. Native bees are a rich natural resource in urban California gardens. *California Agriculture*. 63(3):113-120 (July-Sept. 2009).
- McIver, J., R. Thorp, and K. Erickson. 2009. Pollinators of the invasive plant yellow starthistle in northeastern Oregon. *Weed Biology and Management*. 92(2):137-145.
- Hranitz, J. M., J. F. Barthell, R. W. Thorp, L. M. Overall, and J. L. Griffith. 2009. Nest site selection, mortality and heat stress responses in life history stages of an invasive leafcutting bee: A case of risky maternal behavior? *Environmental Entomology*. 38(2):484-492 (April 2009).
- Wojcik, V. A., G. W. Frankie, R. W. Thorp, and J. L. Hernandez. 2008. Seasonality in bees and their floral resource plants at a constructed urban bee habitat in Berkeley, California. *J Kansas Entomol. Soc.* 81(1):15-28.
- Thorp, R. W. 2007. Biology of specialist bees and conservation of showy vernal pool flowers. A review. Pages 51-57. in R. A. Schlising and D. G. Alexander (Editors), *The Vernal Pool Landscapes. Studies from the Herbarium*, Number 14. California State University, Chico, CA.
- Peter G. Kevan, Dan Eisikowitch, Wanja Kinuthia, Peter Martin, E. C. Mussen, Uma Partap, O. R. Taylor, Vernon G. Thomas, R. W. Thorp, Carlos H. Vergara, & Kimberly Winter. 2007. High quality bee products are important to agriculture: why, and what needs to be done. *J Apicultural Research* 46(1):59-64.
- Giblin-Davis, R. M., H. Selcuk, B. J. Center, W. Ye, N. Keskin, R. Thorp, and W. K. Thomas. 2005. *Bursaphelenchus anatolius* n. sp. (Nematoda: Parasitaphelenchidae), an Associate of Bees in the Genus *Halictus*. *J. Nematology* 37(3):336-342.
- Frankie, G. W., R. W. Thorp, M. Schindler, J. Hernandez, B. Ertter, M. Rizzardi. 2005. Ecological patterns of bees and their host ornamental flowers in urban Berkeley, California. *J. Kansas Entomol. Soc.* 78(3):227-246.
- Barthell, J. F., R. W. Thorp, A. M. Wenner, J. M. Randall, and D. S. Mitchell. 2005. Seed set in a non-native self-compatible thistle on Santa Cruz Island: implications for the invasion of an island ecosystem. pp. 185-191. In: Garcelon, D. K. and C. A. Schwemm (Eds.) *Proc. 6<sup>th</sup> California Islands Symposium*, Ventura, December

- 1-3, 2003. National Park Service Technical Publication CHIS-05-01, Institute for Wildlife Studies, Arcata, CA. 508 pp.
- Thorp, R. W. and W. E. LaBerge. 2005. A Revision of the Bees of the Genus *Andrena* of the Western Hemisphere. Part XV. Subgenus *Hesperandrena*. *Illinois Natural History Survey, Bulletin* 37 (2):65-93.
- LaBerge, W. E. and R. W. Thorp. 2005. A Revision of the Bees of the Genus *Andrena* of the Western Hemisphere. Part XIV. Subgenus *Onagrandrena*. *Illinois Natural History Survey, Bulletin* 37 (1):1-63.

**SELECTED PUBLICATIONS PRIOR TO 2005 OF 110 PUBLISHED BETWEEN 1962-2009**

- Kremen, C., N. M. Williams, R. L. Bugg, J. P. Fay, and R. W. Thorp. 2004. The area requirements of an ecosystem service: Crop pollination by native bee communities in California. *Ecology Letters* 7(11):1109-1119.
- Thorp, R. W. 2003. Bumble bees (Hymenoptera: Apidae): commercial use and environmental concerns. Pp. 21-40. In: K. Strickler and J. H. Cane (eds.). For nonnative crops, whence pollinators of the future? *Thomas Say Publications in Entomology: Proceedings. Entomological Society of America*, Lanham, MD. (204pp.)
- Kremen, C., N. M. Williams and R. W. Thorp. 2002. Crop pollination from native bees at risk from agricultural intensification. *Proceedings of the National Academy of Sciences*. 99(26):16812-16818.
- Barthell, J. F., J. M. Randall, R. W. Thorp, and A. M. Wenner. 2001. Promotion of seed set in yellow star-thistle by honey bees: evidence of an invasive mutualism. *Ecological Applications* 11(6): 1870-1883.
- Thorp, R. W. 2000. The collection of pollen by bees. *Plant Systematics and Evolution* 222:211-223.
- Thorp, R. W. 1996. Resource overlap among native and introduced bees in California. pp. 143-151. In: Matheson, A., S. L. Buchmann, C. O'Toole, P. Westrich, and I. H. Williams, eds. *The Conservation of Bees*. Linnean Society Symposium Series No. 18. Academic Press 252 pp.
- Thorp, R. W. 1990. Vernal pool flowers and host specific bees. pp. 109-122. In Ikeda, D. H. and R. A. Schlising, eds. *Vernal Pool Plants: Their Habitat and Biology*. Studies from the Herbarium, No. 8. California State University at Chico, 178 pp.
- Thorp, R. W., D. S. Horning, Jr., and L. L. Dunning. 1983. Bumble bees and cuckoo bumble bees of California. *Bulletin of the California Insect Survey* 23:1-79.
- Thorp, R. W. 1979. Structural, behavioral, and physiological adaptations of bees (Apoidea) for collecting pollen. *Annals of the Missouri Botanical Gardens* 66:788-812.
- Estes, J. R. and R. W. Thorp. 1975. Pollination ecology of *Pyrrhopappus carolinianus* (Compositae). *American Journal of Botany* 62:148-159.
- Thorp, R. W., D. L. Briggs, J. R. Estes, and E. H. Erickson. 1975. Nectar fluorescence under ultraviolet irradiation. *Science*, 189:476-478.
- MacSwain, J. W., P. H. Raven, and R. W. Thorp. 1973. Comparative behavior of bees and Onagraceae. IV. *Clarkia* bees of the western United States. *University of California Publications in Entomology* 70:1-80 + 3 plates.

Thorp, R. W. 1969. Systematics and ecology of bees of the subgenus *Diandrena* (Hymenoptera: Andrenidae). University of California Publications in Entomology 52:1-146.

**WEB SITES:** [www.vernalpools.org/Thorp/](http://www.vernalpools.org/Thorp/) Vernal pool bees and pollination  
<http://www.xerces.org/bumblebees/> Bumble Bees in Decline  
<http://nature.berkeley.edu/urbanbeegardens/> Urban bee gardens

[Last updated: 28July 2009]