

## **JOHN TERAH SMILEY**

*Scientist, Educator, Technician, Field Station Administrator*

### ***Personal***

- Date and Place of Birth: February 2, 1950, Tucson, Arizona, USA, US citizen
- Interests: Mountaineering, Candy Making, History, Geography, Carpentry, Alternative Energy Systems

### ***Education***

- Graduate Catalina High School, Tucson, Arizona
- Bachelor of Science Degree (Biology), Stanford University
- Doctor of Philosophy (Zoology), University of Texas, Austin

### ***Scholarships and Awards***

- Prizewinner, Arizona State Mathematics Contest, 1968
- National Association of Secondary School Principals college scholarship, 1968
- Stanford University Undergraduate Scholarship, 1968-72
- Scholarship to attend Organization for Tropical Studies, 1973
- National Science Foundation Predoctoral Fellowship 1974-77
- University of California Faculty Research Fellowship 1982-83
- White Mountain Research Laboratory Fellowship 1982-84

### ***Jobs Held***

- Assistant Professor, UC Irvine 1979-86
- Reserve Manager/Director, UC Landels-Hill Big Creek Reserve 1986-2003
- Adjunct Professor of Biology, UC Santa Cruz 1990-93
- Reserve Manager, Big Creek Marine Ecological Reserve, 1994-2003
- Associate Director, White Mountain Research Station, 2003-present

### ***Research, Management, and Technical Interests***

- Evolutionary, chemical, and mathematical ecology of plant- herbivore-predator interactions.
- Ecology, evolution and behavior of insects and plants: Lampyridae, Heliconiini, Chrysomelidae, Eumenidae, Syrphidae, Dioptidae, Lycaenidae, Formicidae, Passifloraceae, and Salicaceae
- Management techniques for terrestrial and marine nature reserves.
- Web Site Development & webmaster for Big Creek Reserve (<http://www.redshift.com/~bigcreek>) and WMRS (<http://www.wmrs.edu/>)
- Design and implementation of alternative energy systems.

### ***Teaching Experience***

- Teaching Assistant and Instructor, University of Texas: 6 courses
- Assistant Professor, UC Irvine: 23 courses, including 3 field quarters
- Organization for Tropical Studies Tropical Biology course
- Thesis committees: Doctoral (7); Masters (7); Undergraduate (2)

### ***Research Experience***

- 1975-83. NSF-sponsored research in Costa Rica on *Heliconius*-*Passiflora*-ant interactions
- 1981-present. Field and Laboratory studies of *Chrysomela* Willow Leaf Beetles; Research Fellow, White Mountain Research Station
- 1982-84. NSF-sponsored field research in Australia on butterfly-ant-host plant interactions

### ***Public Service and Recognition***

- Originator and Coordinator, Big Sur Commercial Skiff Fishing Survey
- Host and organizer "Santa Lucia Natural History Symposium" 1994-2003
- "Big Sur Coast Highway Management Plan" working group 1999-2003.
- School board, Pacific Unified S.D., 1995-2003 (board president 2000-2003).
- News and photo coverage of willow research by Associated Press, CBS radio, Science News, Geo Magazine, Science 85 Magazine
- Write monthly articles for *Big Sur Roundup* "Nature Notes from Big Creek" 1991-2002

### ***5 Selected Publications***

- Smiley, JT. 1978. Plant chemistry and the evolution of host specificity: New evidence from *Heliconius* and *Passiflora*. *Science* 201: 745-747
- Smiley, JT, PR Atsatt and NE Pierce. 1988 Local distribution of *Jalmenus evagoras* (Lycaenidae) in response to host ants and plants. *Oecologia* 76:416-422.
- Smiley, JT, NE Rank and JM Horn. 1985 Ecological effects of salicin at three trophic levels: New problems from old adaptations. *Science* 229: 649-651
- Sears, A.L.W., Smiley, J.T., Hilker, M., Muller, F. and N.E. Rank. 2001. Nesting behavior and prey use in two geographically separated populations of the specialist wasp *Symmorphus cristatus* (Vespidae: Eumeninae). *American Midland Naturalist* 145:233-246.
- Dahloff, E.P., Fearnley, S.L., Bruce, D.A., Gibbs, A.G., Stoneking, R., McMillan, D.M., Deiner, K., **Smiley, J.T.**, and Rank, N.E. "Effects of temperature on physiology and reproductive success of a montane leaf beetle: implications for persistence of native populations enduring climate change." *Physiological and Biochemical Zoology* (2008).