



Nan-Yao Su

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(100% Research)

Education

- B.S., Kyoto Inst. of Tech. (Sericulture Sciences), 1975
- M.S., Kyoto Inst. of Tech. (Sericulture Sciences), 1977
- Ph.D., Univ. of Hawaii (Entomology), 1982

Employment

- Professor (1994-Present) U. Florida
- Associate Professor (1988-1994) U. Florida
- Assistant Professor (1984-1988) U. Florida
- Assistant Entomologist (1984) U. Hawaii
- Post-doc. Associate (1982-1983) Louisiana State U.
- Research Assistant (1978-1981) U. Hawaii

Research Responsibilities

To study the behavior and ecology and economically important termites and to develop control measures suitable in urban settings.

Accomplishments

- Developed a reduced-risk monitoring/baiting procedure for population management of subterranean termites. Commercialized as the Sentricon system, it has been marked in 18 countries worldwide since 1995 to protect over two million homes, and reduced pesticide use by > 6,000 metric tons.
- US Department of Agriculture Secretary's Honor Award. 1996.
- University of Florida Research Foundation Professorship, 1999 – 2002
- Presidential Green Chemistry Challenge Award, U.S. Environmental Protection Agency, 2000. Co-recipient with Dow AgroSciecnces
- Recognition Award in Urban Entomology, Entomological Society of America, 2001
- Distinguished Alumnus Award, University of Hawaii, 2007

Grants and Contracts (Total \$4,444,942 over last 10 years)

- US Dept. of Interior 1997-1999
- Dow AgroSceinces 1997 - 2007
- Syngenta 1977 - 2007
- US Dept. of Agriculture, ARS 1998 - 2007
- UF Research Foundation 1997 - 2007

Career Publication

- Book: 1
- Refereed papers: 156
- Chapters in books: 12
- Miscellaneous papers:43

Selected Senior Authorship Referred Articles in the Past 10 Years

- Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 1997. Remedial baiting with hexaflumuron in above-ground stations to control structure-infesting populations of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 90: 809-817.
- Su, N.-Y., and R. H. Scheffrahn. 1998. A review of subterranean termite control practices and prospects for integrated pest management programs. *Integrated Pest Management Reviews* 3: 1-13.
- Su, N.-Y., J. D. Thomas, and R. H. Scheffrahn. 1998. Elimination of subterranean termite populations from the Statue of Liberty National Monument using a bait matrix containing an insect growth regulator, hexaflumuron. *J. Amer. Inst. Conserv.* 37: 282-292
- Su, N.-Y., P. M. Ban, V. Chew, and R. H. Scheffrahn. 1999. Size and edge effects of concrete plots on chlorpyrifos degradation in sub-slab sand. *J. Econ. Entomol.* 92: 409-415.

- Su, N.-Y., E. Freytag, E. Bordes, and R. Dicus. 2000. Control of the Formosan subterranean termite infestations in historic Presbytere and the Creole House of the Cabildo, French Quarter, New Orleans, using baits containing an insect growth regulator, hexaflumuron. *Studies in Conservation* 45: 30-38
- Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 2000. Control of *Coptotermes havilandi* (Isoptera: Rhinotermitidae) with hexaflumuron baits and a sensor incorporated into a monitoring-baiting program. *J. Econ. Entomol.* 93: 415-421
- Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 2001. Control of subterranean termites (Isoptera: Rhinotermitidae) using commercial prototype aboveground stations and hexaflumuron baits. *Sociobiology* 37: 111-120
- Su, N.-Y. 2001. A computerized system for remote monitoring of subterranean termites near structures. *J. Econ. Entomol.* 94: 1518-1525
- Su, N.-Y. 2002. Dimensionally stable sensors for a continuous monitoring program to detect subterranean termite (Isoptera: Rhinotermitidae) activity. *J. Econ. Entomol.* 95: 975-980
- Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 2002. Control of subterranean termite populations at San Cristóbal and El Morro, San Juan National Historic Site. *J. Cultural Heritage* 3: 217-225
- Su, N.-Y. 2003. Overview of the global distribution and control of the Formosan subterranean termite. *Sociobiology* 41: 7-16.
- Su, N.-Y., and H. Puche. 2003. Tunneling activity of subterranean termites (Isoptera: Rhinotermitidae) in sand with moisture gradients. *J. Econ. Entomol.* 96: 88-93
- Su, N.-Y. Z. Hillis-Starr, P. M. Ban, and R. H. Scheffrahn. 2003. Protecting historic properties from subterranean termites: a case study with Fort Christiansvaern, Christiansted National Historic Site, United States Virgin Islands. *American Entomologist* 49: 20-32
- Su, N.-Y., and E.-L. Hsu. 2003. Managing subterranean termite populations for protection of the historic Tzu-Su Temple of San-Shia, Taiwan. *Sociobiology* 41: 529-545.
- Su, N.-Y., and P. Scherer. 2003. Feeding site selection by workers of the Formosan subterranean termite (Isoptera: Rhinotermitidae) – A re-analysis of field data from a mark-recapture study. *Bull. Entomol. Res.* 93: 471-477
- Su, N.-Y., P. Ban, and R. H. Scheffrahn. 2004. Polyethylene barrier impregnated with lambda-cyhalothrin for exclusion of subterranean termites (Isoptera: Rhinotermitidae) from structures. *J. Econ. Entomol.* 97: 570-574
- Su, N.-Y., B. M. Stith, H. Puche, and P. Bardunias. 2004. Characterization of tunneling geometry of subterranean termites (Isoptera: Rhinotermitidae) by computer simulation. *Sociobiology* 44: 471-483
- Su, N.-Y., P. Ban, and R. H. Scheffrahn. 2004. Use of a Bait Impact index to assess the effects of bait application against populations of the Formosan subterranean termite (Isoptera: Rhinotermitidae) in a large area. *J. Econ. Entomol.* 97: 2029-2034
- Su, N.-Y. 2005. Directional change in tunneling of subterranean termites (Isoptera: Rhinotermitidae) in response to decayed wood attractants. *J. Econ. Entomol.* 98: 471-475

- Su, N.-Y. 2005. Response of the Formosan subterranean termites (Isoptera: Rhinotermitidae) to baits or nonrepellent termiticides in extended foraging arenas. *J. Econ. Entomol.* 98: 2143-2152
- Su, N.-Y., W. Ye, R. Ripa, R. H. Scheffrahn, and R. M. Giblin-Davis. 2006. Identification of Chilean *Reticulitermes* (Isoptera: Rhinotermitidae) inferred from three mitochondrial gene DNA sequences and soldier morphology. *Ann. Entomol. Soc. Am.* 99: 352- 363.