

NAN-YAO SU

Professor of Entomology
Department of Entomology and Nematology
Ft. Lauderdale Research and Education Center
University of Florida
3205 College Ave.
Ft. Lauderdale, Florida 33314

EDUCATION

1978 to 1982 Ph.D. in Entomology. University of Hawaii, Honolulu, Hawaii

1975 to 1977 M.Sc. in Sericultural Science. Kyoto Institute of Technology, Kyoto, Japan.

1971 to 1975 B.Sc. in Sericultural Science. Kyoto Institute of Technology, Kyoto, Japan.

PUBLICATIONS

1. Refereed Publications:

(1) Su, N.-Y., M. Tamashiro, J. R. Yates and M. I. Haverty. 1982. Effects of behavior on the evaluation of insecticides for prevention of or remedial control of the Formosan subterranean termite. *J. Econ. Entomol.* 75: 188-193.

(2) Su, N.-Y., J. P. La Fage and G. R. Esenther. 1983. Effects of a dye, Sudan Red 7B, on the Formosan subterranean termite, *Coptotermes formosanus* Shiraki. *Mate. und Org.* 18: 127-133.

(3) Su, N.-Y., M. Tamashiro, J. R. Yates, P. Y. Lai and M. I. Haverty. 1983. A dye, Sudan Red 7B, as a marking material for foraging studies with the Formosan subterranean termite. *Sociobiology* 8: 91-97.

(4) La Fage, J. P., N.-Y. Su, M. J. Jones and G. R. Esenther. 1983. A rapid method for collecting large numbers of subterranean termites from wood. *Sociobiology* 7: 305-309.

(5) Lai, P. Y., M. Tamashiro, J. K. Fujii, J. R. Yates and N.-Y. Su. 1983. Sudan Red 7B, a dye marker for *Coptotermes formosanus*. *Proc. Hawaii Entomol. Soc.* 24: 277-282.

(6) Lai, P. Y., M. Tamashiro, J. R. Yates, J. K. Fujii, N.-Y. Su, and R. H. Ebesu. 1983. Living plants in Hawaii attacked by *Coptotermes formosanus*. *Proc. Hawaii Entomol. Soc.* 24: 283-286.

(7) Leong, K. L. H., M. Tamashiro, J. R. Yates and N.-Y. Su. 1983. Microenvironmental factors regulating the flight of *Coptotermes formosanus* Shiraki in Hawaii. (Isoptera: Rhinotermitidae). *Proc. Hawaii Entomol. Soc.* 24: 287-291.

- (8) Su, N.-Y. and J. P. La Fage. 1984. Comparison of laboratory method for estimating wood-consumption rate by *Coptotermes formosanus* Shiraki (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 77: 125-129.
- (9) Su, N.-Y. and J. P. La Fage. 1984. Differences in survival and feeding activity among colonies of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Z. angew. Entomol.* 94: 134-138.
- (10) Su, N.-Y., M. Tamashiro, J. R. Yates and M. I. Haverty. 1984. Foraging behavior of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Environ. Entomol.* 13: 1466-1470.
- (11) Su, N.-Y., M. Tamashiro and M. I. Haverty. 1985. Effects of three insect growth regulators, feeding substrates, and colony origin on survival and presoldier production of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 78: 1259-1263.
- (12) Su, N.-Y. and J. P. La Fage. 1986. Effects of starvation on survival and maintenance of soldier proportion in laboratory groups of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 79: 312-316.
- (13) Su, N.-Y. and M. Tamashiro. 1986. Wood-consumption rate and survival of the Formosan subterranean termite (Isoptera: Rhinotermitidae) when fed one of six woods commercially used in Hawaii. *Proc. Hawaii Entomol. Soc.* 26: 109-113.
- (14) Su, N.-Y., and R. H. Scheffrahn. 1986. Field comparison of sulfuryl fluoride susceptibility among three termite species during structural fumigation. *J. Econ. Entomol.* 79: 903-908.
- (15) Su, N.-Y., and R. H. Scheffrahn. 1986. A method to access, trap, and monitor field populations of the Formosan subterranean termite (Isoptera: Rhinotermitidae) in the urban environment. *Sociobiology* 12: 299-304.
- (16) Su, N.-Y., and J. P. La Fage. 1987. Effects of soldier proportion on the wood-consumption rate of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Sociobiology* 13: 145-151.
- (17) Su, N.-Y., and R. H. Scheffrahn. 1987. Alate production of a field colony of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Sociobiology* 13: 167-172.
- (18) Su, N.-Y., and J. P. La Fage. 1987. Initiation of worker-soldier trophallaxis by the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Insectes Sociaux* 34: 229-235.
- (19) Su, N.-Y., M. Tamashiro, and M. I. Haverty. 1987. Characterization of slow-acting insecticides for the remedial control of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 80: 1-4.
- (20) Scheffrahn, R. H., and N.-Y. Su. 1987. Structure/activity relationships of 2-haloalkanoic acids and their esters as antitermitic agents against the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 80: 312-316.

- (21) Scheffrahn, R. H., N.-Y. Su, J. J. Sims, and A. M. K. El-Sayed. 1987. Composition and ant-repellent activity of the soldier defensive secretion of the Palearctic termite, *Amitermes desertosum* (Desneux) (Isoptera: Termitidae). *Sociobiology* 13: 75-82.
- (22) Scheffrahn, R. H., N.-Y. Su, and W. L. A. Osbrink. 1987. Precise dosage delivery method for sulfuryl fluoride in small chamber fumigations. *J. Econ. Entomol.* 80: 705-707.
- (23) Osbrink, W. L. A., R. H. Scheffrahn, N.-Y. Su, and M. K. Rust. 1987. Laboratory comparisons of sulfuryl fluoride toxicity and mean time of mortality among ten termite species (Isoptera: Hodotermitidae, Kalotermitidae, Rhinotermitidae). *J. Econ. Entomol.* 80: 1044-1047.
- (24) Scheffrahn, R. H., W. L. A. Osbrink, R.-C. Hsu, and N.-Y. Su. 1987. Desorption of residual sulfuryl fluoride from structural and household commodities by headspace analysis using gas chromatography. *Bull. Environ. Contam. Toxicol.* 39: 769-775.
- (25) Scheffrahn, R. H., and N.-Y. Su. 1987. A world list of species in the genus *Amitermes* (Isoptera: Termitidae). *Sociobiology* 13: 183-190.
- (26) Scheffrahn, R. H., R.-C. Hsu, N.-Y. Su, and J. P. Toth. 1987. Composition of adult metathoracic gland secretions from three species of burrower bugs (Hemiptera: Cydnidae) in Florida. *J. Entomol. Sci.* 22: 367-370.
- (27) Su, N.-Y., and R. H. Scheffrahn. 1988. Toxicity and lethal time of N-ethyl perfluorooctane sulfonamide against two subterranean termite species (Isoptera: Rhinotermitidae). *Florida Entomol.* 71: 73-78.
- (28) Su, N.-Y., and R. H. Scheffrahn. 1988. Toxicity and feeding deterrence of a dihaloalkyl arylsulfone biocide, A-9248 against the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 81: 850-854.
- (29) Su, N.-Y., and R. H. Scheffrahn. 1988. Intra- and interspecific competition of the Formosan and eastern subterranean termite: Evidence from field observations (Isoptera: Rhinotermitidae). *Sociobiology* 14: 157-164.
- (30) Su, N.-Y., R. H. Scheffrahn, and P. Ban. 1988. Retention time and toxicity of a dye marker, Sudan Red 7B, on Formosan and eastern subterranean termites (Isoptera: Rhinotermitidae). *J. Entomol. Sci.* 23: 235-239.
- (31) Su, N.-Y., and R. H. Scheffrahn. 1988. Foraging population and territory of the Formosan subterranean termite (Isoptera: Rhinotermitidae) in an urban environment. *Sociobiology* 14: 353-359.
- (32) Scheffrahn, R. H., R.-C. Hsu, N.-Y. Su, J. A. Huffman, S. Midland, and J. J. Sims. 1988. Allelochemical resistance of baldcypress, *Taxodium distichum*, heartwood to the subterranean termite, *Coptotermes formosanus*. *J. Chem. Ecol.* 14: 765-775.
- (33) Scheffrahn, R. H., M. K. Rust, J. P. Toth, and N.-Y. Su. 1988. Soldier defensive secretions of two Nearctic desert termite species. *Biochem. Sys. Ecol.* 16: 213-216.
- (34) Osbrink, W. L. A., R. H. Scheffrahn, R.-C. Hsu, and N.-Y. Su. 1988. Sulfuryl fluoride residues of fumigated foods protected by polyethylene film. *J. Agric. Food Chem.* 36: 853-855.

- (35) Scheffrahn, R. H., J. R. Mangold, and N.-Y. Su. 1988. A survey of structure-infesting termites of peninsula Florida. *Fla. Entomol.* 71: 615-630.
- (36) Su, N.-Y., and R. H. Scheffrahn. 1989. Concentration-time relationship for fumigant efficacy of sulfuryl fluoride against the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 82: 156-158.
- (37) Su, N.-Y., and R. H. Scheffrahn. 1989. Comparative effects of an insect growth regulator, S-31183, against the Formosan subterranean termite and eastern subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 82: 1125-1129.
- (38) Su, N.-Y., R. H. Scheffrahn, and P. M. Ban. 1989. Method to monitor initiation of aerial infestations by alates of the Formosan subterranean termite (Isoptera: Rhinotermitidae) in high-rise buildings. *J. Econ. Entomol.* 82: 1643-1645.
- (39) Haverty, M. I., N.-Y. Su, M. Tamashiro, and R. Yamamoto. 1989. Concentration-dependent presoldier induction and feeding detergency: potential of two insect growth regulators for remedial control of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 82: 1370-1374.
- (40) Scheffrahn, R. H., R.-C. Hsu, and N.-Y. Su. 1989. Fluoride and sulfate residues in foods fumigated with sulfuryl fluoride. *J. Agric. Food Chem.* 37: 203-206.
- (41) Scheffrahn, R. H., R.-C. Hsu, and N.-Y. Su. 1989. Fluoride residues in frozen foods fumigated with sulfuryl fluoride. *Bull. Environ. Contam. Toxicol.* 43: 899-903.
- (42) Scheffrahn, R. H., N.-Y. Su, and J. R. Mangold. 1989. *Amitermes floridensis*, a new species and first record of a higher termite in the eastern United States (Isoptera: Termitidae: Termitinae). *Florida Entomol.* 72: 618-625.
- (43) Su, N.-Y., and R. H. Scheffrahn. 1990. Efficacy of sulfuryl fluoride against four beetle pests of museums (Coleoptera: Dermestidae, Anobiidae). *J. Econ. Entomol.* 83: 879-882.
- (44) Su, N.-Y., and R. H. Scheffrahn. 1990. Comparison of eleven soil termiticides against the Formosan and eastern subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 83: 1918-1924.
- (45) Su, N.-Y., and R. H. Scheffrahn. 1990. Economically important termites in the United States and their control. *Sociobiology* 17: 77-94.
- (46) Su, N.-Y., and R. H. Scheffrahn. 1990. Potential of insect growth regulators as termiticides: A review. *Sociobiology* 17: 313-328.
- (47) Scheffrahn, R. H., R.-C. Hsu, and N.-Y. Su. 1990. Evaluation of polymer film enclosures as protective barriers for commodities from exposure to structural fumigants. *J. Agric. Food. Chem.* 38: 904-908.
- (48) Scheffrahn, R.H., N.-Y. Su, and B. Diehl. 1990. Native, introduced, and structure-infesting termites of the Turks and Caicos Islands, B.W.I. *Florida Entomol.* 73: 622-627.

(49) Su, N.-Y. 1991. Evaluation of bait-toxicants for suppression of subterranean termite populations. *Sociobiology* 19: 211-213.

(50) Su, N.-Y., and R. H. Scheffrahn. 1991. Laboratory evaluation of two slow-acting toxicants against Formosan and eastern subterranean termites. (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 84: 170-175.

(51) Su, N.-Y., R. H. Scheffrahn, and Paul M. Ban. 1991. Uniform size particle barrier: a physical exclusion device against subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 84: 912-916.

(52) Su, N.-Y., and M. I. Haverty. 1991. Agonistic behavior among colonies of the Formosan subterranean termite, *Coptotermes formosanus* Shiraki (Isoptera: Rhinotermitidae), from Florida and Hawaii: Lack of correlation with cuticular hydrocarbon composition. *J. Insect Behavior.* 4: 115-128.

(53) Su, N.-Y., P. M. Ban and R. H. Scheffrahn. 1991. Evaluation of twelve dye markers for population studies of the eastern and Formosan subterranean termites (Isoptera: Rhinotermitidae). *Sociobiology* 19: 349-362.

(54) Su, N.-Y., P. M. Ban and R. H. Scheffrahn. 1991. Suppression of foraging populations of the Formosan subterranean termite (Isoptera: Rhinotermitidae) by field applications of a slow-acting toxicant bait. *J. Econ. Entomol.* 84: 1525-1531.

(55) Su, N.-Y. and R. H. Scheffrahn. 1992. Penetration of sized-particle barriers by field populations of subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 85: 2275-2278.

(56) Scheffrahn, R. H., C. L. Bloomcamp, and N.-Y. Su. 1992. Indoor airborne residues of methyl bromide and sulfuryl fluoride following aeration of fumigated houses. *Indoor Air* 2: 78-83.

(57) Scheffrahn, R. H. and N.-Y. Su. 1992. Comparative toxicity of methyl bromide against ten Nearctic termite species (Isoptera: Termopsidae, Kalotermitidae, Rhinotermitidae). *J. Econ. Entomol.* 85: 845-847.

(58) Scheffrahn, R. H., L. Bodalbhai, and N.-Y. Su. 1992. Residues of methyl bromide and sulfuryl fluoride in manufacturer-packaged household foods following fumigation. *Bull Environ. Contam. Toxicol.* 48: 821-827.

(59) Scheffrahn, R. H., N.-Y. Su, and R.-C. Hsu. 1992. Diffusion of methyl bromide and sulfuryl fluoride through selected structural wood matrices during fumigation. *Mater. Und Organ.* 27: 147-155.

(60) Su, N.-Y., R. H. Scheffrahn and P. M. Ban. 1993. Barrier efficacy of pyrethroid and organophosphate formulations against subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 86: 772-776.

(61) Su, N.-Y. and R. H. Scheffrahn. 1993. Laboratory evaluation of two chitin synthesis inhibitors, hexaflumuron and diflubenzuron, as bait toxicants against Formosan and eastern subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 86: 1453-1457.

(62) Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 1993. Foraging populations and territories of the eastern subterranean termite (Isoptera: Rhinotermitidae) in southeastern Florida. *Environ. Entomol.* 22: 1113-1117.

(63) Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 1993. A shallow sub-surface monitoring station for subterranean termites (Isoptera). *Sociobiology* 23: 175-182.

(64) Scheffrahn, R. H., W. P. Robbins, P. Busey, N.-Y. Su, and R. K. Mueller. 1993. Evaluation of a novel, hand-held, acoustic emissions detector to monitor termites (Isoptera: Kalotermitidae, Rhinotermitidae) in wood. *J. Econ. Entomol.* 86: 1720-1729.

(65) Howard, F. W., N.-Y. Su, M. C. Thoms and J. Amoroso. 1993. Electronic communication of taxonomic information for rapid insect identification. *American Entomol.* 39: 76.

(66) Su, N.-Y. 1994. Field evaluation of a hexaflumuron bait for population suppression of subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 87: 389-397.

(67) Su, N.-Y., M. Tokoro, and R. H. Scheffrahn. 1994. Estimating oral toxicity of slow-acting toxicants against subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 87: 398-401.

(68) Scheffrahn, R. H., L. Bodalbhai, and N.-Y. Su. 1994. Nylon film enclosures for protection of foods from exposure to sulfuryl fluoride and methyl bromide during structural fumigation. *J. Agric. and Food Chem.* 42: 2317-2321.

(69) Scheffrahn, R. H., J. P. E. C. Darlington, M. S. Collins, J. Krecek, and N.-Y. Su. 1994. Termites (Isoptera: Kalotermitidae, Rhinotermitidae, Termitidae) of the West Indies. *Sociobiology* 24: 213-238.

(70) Scheffrahn, R. H., and N.-Y. Su. 1994. Keys to soldier and winged adult termites (Isoptera) of Florida. *Florida Entomol.* 77: 460-474.

(71) Oi, F. M., and N.-Y. Su. 1994. Stains tested for marking *Reticulitermes flavipes*, and *R. virginicus*. *Sociobiology* 24: 241-268.

(72) Su, N.-Y., E. M. Thoms, P. M. Ban, and R. H. Scheffrahn. 1995. A monitoring/baiting station to detect and eliminate foraging populations of subterranean termites (Isoptera: Rhinotermitidae) near structures. *J. Econ. Entomol.* 88: 932-936.

(73) Su, N.-Y., R. H. Scheffrahn and P. M. Ban. 1995. Effects of sulfluramid-treated bait blocks on field colonies of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 88: 1343-1348.

(74) Su, N.-Y., G. S. Wheeler, and R. H. Scheffrahn. 1995. Subterranean termite penetration into sand treated with termiticides at various thicknesses. *J. Econ. Entomol.* 88: 1690-1694.

(75) Scheffrahn, R. H., G. S. Wheeler, and N.-Y. Su. 1995. Synergism of methyl bromide and sulfuryl fluoride toxicity against termites (Isoptera: Kalotermitidae, Rhinotermitidae) by admixture with carbon dioxide. *J. Econ. Entomol.* 88: 649-653.

(76) Scheffrahn, R. H. and N.-Y. Su. 1995. A new subterranean termite introduced to Florida: *Heterotermes Froggatt* (Rhinotermitidae: Heterotermitinae) established in Miami. Florida Entomologist, 78: 623-627.

(77) Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 1996. An above-ground station for monitoring structure-infesting populations of the Formosan subterranean termite (Isoptera: Rhinotermitidae). Sociobiology 27: 39-45.

(78) Su, N.-Y., and R. H. Scheffrahn. 1996. Fate of subterranean termite colonies after bait applications - An update and review. Sociobiology 27: 253-275.

(79) Su, N.-Y., and R. H. Scheffrahn. 1996. Comparative effects of two chitin synthesis inhibitors, hexaflumuron and lufenuron, in a bait matrix against subterranean termites (Isoptera: Rhinotermitidae). J. Econ. Entomol. 89: 1156-1160.

(80) Su, N.-Y., and R. H. Scheffrahn. 1996. A review on the evaluation criteria for bait-toxicant efficacy against field colonies of subterranean termites. Sociobiology 28: 521-530.

(81) Oi, F., N.-Y. Su, P. G. Koehler, and F. Slansky. 1996. Laboratory evaluation of food placement and food types on the feeding preference of *Reticulitermes virginicus* (Isoptera: Rhinotermitidae). J. Econ. Entomol. 89: 915-921.

(82) Wheeler, G. S., M. Tokoro, R. H. Scheffrahn and N.-Y. Su. 1996. Comparative respiration and methane production rates in Nearctic termites. J. Insect Physiology 42: 799-806.

(83) 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.

(84) Su, N.-Y., V. Chew, G. S. Wheeler, and R. H. Scheffrahn. 1997. Comparison of tunneling responses into insecticide-treated soil by field populations and laboratory groups of subterranean termites (Isoptera: Rhinotermitidae). J. Econ. Entomol. 90: 503-509.

(85) Su, N.-Y., R. H. Scheffrahn, and T. Weissling. 1997. A new introduction of a subterranean termite, *Coptotermes havilandi* Holmgren (Isoptera: Rhinotermitidae) in Miami, Florida. Florida Entomologists 80: 408-411.

(86) Scheffrahn, R. H., N.-Y. Su, and P. Busey. 1997. Laboratory and field evaluations of selected chemical treatments for control of drywood termites (Isoptera: Kalotermitidae). J. Econ. Entomol. 90: 492-502.

(87) 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.

(88) Su, N.-Y., and R. H. Scheffrahn. 1998. *Coptotermes vastator* Light (Isoptera: Rhinotermitidae) in Guam. Proc. Hawaiian Entomol. Soc. 33: 13-18.

(89) 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

- (90) Scheffrahn, R.H., Y. Roisin, and N.-Y. Su. 1998. Greater Antillean Nasutitermitinae (Isoptera: Termitidae): *Parvitermes dominicanae*, a new subterranean termite from Hispaniola. Florida Entomol. 81: 179-187.
- (91) Scheffrahn, R.H., J. Krecek, J.A. Chase, and N.-Y. Su. 1998. *Cryptotermes abruptus*, a new drywood termite (Isoptera: Kalotermitidae) from southeastern Mexico. Florida Entomol. 81: 188-193.
- (92) Scheffrahn R.H., J. Krecek, N.-Y. Su, Y. Roisin, J.A. Chase, and J.R. Mangold. 1998. Extreme mandible alteration and cephalic phragmosis in a drywood termite soldier (Isoptera: Kalotermitidae: *Cryptotermes*) from Jamaica. Florida Entomol. 81: 238-240.
- (93) Scheffrahn, R. H., N.-Y. Su, J. Krecek, A. Van Liempt, B. Maharajh, and G. S. Wheeler. 1998. Prevention of colony foundation by the drywood termite, *Cryptotermes brevis*, and remedial control of drywood termites (Isoptera: Kalotermitidae) with selected chemical treatments. J. Econ. Entomol. 91: 1387-1396
- (94) Su, N.-Y., and J. P. La Fage. 1999. Forager proportions and caste compositions of colonies of the Formosan subterranean termite (Isoptera: Rhinotermitidae) restricted to cypress trees in the Calcasieu River, Lake Charles, Louisiana. Sociobiology 33: 185-193
- (95) 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.
- (96) Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 1999. Longevity and efficacy of pyrethroid and organophosphate termiticides in field degradation studies using miniature slabs. J. Econ. Entomol. 92: 890-898
- (97) Scheffrahn, R.H., N.-Y. Su, & T.G. Myles. 1999. *Amitermes amicki*, a new subterranean termite (Isoptera: Termitidae: Termitinae) from Aruba. Florida Entomol. 82: 7-14
- (98) Scheffrahn, R.H., N.-Y. Su, and J. Krecek. 1999. *Procryptotermes edwardsi*, a new drywood termite (Isoptera: Kalotermitidae) from Jamaica. Florida Entomol. 82: 299-305
- (99) Scheffrahn, R.H., J.A. Chase, J.R. Mangold, J. Krecek, and N.-Y. Su. 1999. First record of *Reticulitermes* (Isoptera: Rhinotermitidae) from the West Indies: *R. flavipes* on Grand Bahama Island. Florida Entomol. 82: 480-482.
- (100) Su, N.-Y., E. Freytag, E. Bordes, and R. Dycus. 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
- (101) Su, N.-Y., and M. Messenger. 2000. Measuring wood consumption of termites using digitized images. J. Econ. Entomol. 93: 412-414
- (102) 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
- (103) Messenger, M. T., R. H. Scheffrahn, and N.-Y. Su. 2000. First report of *Incisitermes minor* (Hagen) (Isoptera: Kalotermitidae) in Louisiana. Florida Entomol. 83: 92-93

- (104) Scheffrahn, R.H., N.-Y. Su, J.A. Chase, J.R. Mangold, J.K. Grace, and J.R. Yates. 2000. First record of *Cryptotermes cynocephalus* Light (Isoptera: Kalotermitidae) and natural woodland infestations of *C. brevis* (Walker) on Oahu, Hawaiian Islands. Proc. Hawaiian Entomol. Soc. 34: 141-145
- (105) Scheffrahn, R.H., J. Krecek, and N.-Y. Su. 2000. Redescriptions of the dampwood termites *Neotermes jouteli* and *N. luykxi* (Isoptera: Kalotermitidae) from Florida, Cuba, Bahamas, and Turks and Caicos Islands. Ann. Entomol. Soc. Am. 93: 785-794.
- (106) Krecek, J. N.-Y. Su, and R. H. Scheffrahn. 2000. Redescription of *Neotermes Mona*, a dampwood termite (Isoptera, Kalotermitidae) from the Central West Indies. Florida Entomologist 83: 268-275
- (107) 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
- (108) Su, N.-Y. 2001. Studies on the foraging of subterranean termites. Sociobiology 37: 253- 260
- (109) Su, N.-Y. 2001. A computerized system for remote monitoring of subterranean termites near structures. J. Econ. Entomol. 94: 1518-1525
- (110) Grace, J. K., and N.-Y. Su. 2001. Evidence supporting the use of termite baiting system for long-term structural protection (Isoptera). Sociobiology 37: 301-310
- (111) Puche, H., and N.-Y. Su. 2001. Application of fractal analysis for tunnel systems of subterranean termites (Isoptera: Rhinotermitidae) under laboratory conditions. Environ. Entomol. 30: 545-549
- (112) Puche, H., and N.-Y. Su. 2001. Tunneling formation by *Reticulitermes flavipes* and *Coptotermes formosanus* (Isoptera: Rhinotermitidae) in response to wood in sand. J. Econ. Entomol. 94: 1398-1404
- (113) Puche, H., and N.-Y. Su. 2001. Population density of subterranean termites (Isoptera: Rhinotermitidae) on tunnel formation in laboratory arena. Sociobiology 38: 523-530.
- (114) Scheffrahn, R. H., N.-Y. Su, J. A. Chase, and B. T. Forschler. 2001. New termite (Isoptera: Kalotermitidae, Rhinotermitidae) records from Georgia. J. Entomol Sci. 36: 109-113
- (115) Scheffrahn, R.H., N.-Y. Su, and J. Krecek. 2001. *Glyptotermes amplus*, a new dampwood termite (Isoptera: Kalotermitidae), from St. Lucia. Florida Entomol. 84: 426-430.
- (116) Scheffrahn, R. H., P. Busey, J. K. Edwards, J. Krecek, B. Maharajh, and N.-Y. Su. 2001. Chemical prevention of colony foundation by the drywood termite, *Cryptotermes brevis* (Isoptera: Kalotermitidae), in attic modules J. Econ. Ent. 94: 915-919
- (117) Stansley, P. A., N.-Y. Su, and J. M. Conner. 2001. Management of subterranean termites, *Reticulitermes* spp. (Isoptera: Rhinotermitidae) in a citrus orchard with hexaflumuron bait. Crop Protection. 20: 199-206.

- (118) Su, N.-Y. 2002. Current and future trends of termite management. *Sociobiology* 40: 1-2.
- (119) Su, N.-Y. 2002. Novel technologies for subterranean termite control. *Sociobiology* 40: 95-101.
- (120) 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
- (121) 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
- (122) Gilberg, M., and N.-Y. Su. 2002. New termite baiting technologies for preservation of cultural resources: results of field trials in National Park system. *Park Science* 21: 16- 22.
- (123) Messenger, M., N.-Y. Su, and R. H. Scheffrahn. 2002. Current distribution of the Formosan subterranean termite and other termite species (Isoptera: Rhinotermitidae, Kalotermitidae) in Louisiana. *Florida Entomol.* 85: 580-587.
- (124) Ripa, R., L. Castro, N.-Y. Su, and R. Palma. 2002. Laboratory estimate of wood consumption rates by *Reticulitermes* sp. (Isoptera: Rhinotermitidae) in Chile. *Sociobiology* 39: 285-290.
- (125) Scheffrahn, R. H., B. J. Cabrera, W. H. Kern, and N.-Y. Su. 2002. *Nasutitermes costalis* (Isoptera: Termitidae) in Florida: first record of a non-endemic establishment by a higher termite. *Florida Entomol.* 85: 273-275.
- (126) Su, N.-Y. 2003. Overview of the global distribution and control of the Formosan subterranean termite. *Sociobiology* 41: 7-16.
- (127) Su, N.-Y. 2003. Baits as a tool for population control of the Formosan subterranean termite. *Sociobiology* 41: 177-192.
- (128) 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
- (129) 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
- (130) 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.
- (131) 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

(132) Su, N.-Y., P. M. Ban, and R. H. Scheffrahn. 2003. Resistance of insecticide-treated foam board insulation against the eastern subterranean termite and the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 96: 1526-1529

(133) Husseneder, C., J. K. Grace, M. T. Messenger, E. L. Vargo, and N.-Y. Su. 2003. Describing the spatial and social organization of Formosan subterranean termite colonies in Armstrong Park, New Orleans. *Sociobiology* 41: 61-65.

(134) Scheffrahn R.H., S. C. Jones, J. Krecek, J. A. Chase, J. R. Mangold, and N.-Y. Su. 2003. Taxonomy, distribution, and notes on the termites (Isoptera: Kalotermitidae, Rhinotermitidae, Termitidae) of Puerto Rico and the U.S. Virgin Islands. *Ann. Entomol. Soc. America.* 96: 81-20.

(135) 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

(136) 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.

(137) 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

(138) Puche, H., and N.-Y. Su. 2004. Estimating population density of the Formosan subterranean termite, *Coptotermes formosanus* (Isoptera: Rhinotermitidae) using the effective sampling area of in-ground monitoring stations. *Bull. Entomol. Res.* 94: 47-53.

(139) Ye, W., C.-Y. Lee, R.H. Scheffrahn, J. M. Aleong, N.-Y. Su, G. W. Bennett, and M. E. Scharf. 2004. Phylogenetic relationships of nearctic *Reticulitermes* species (Isoptera: Rhinotermitidae) with particular reference to *Reticulitermes arenicola* Goellner. *Molecular Phylogenetics and Evolution* 30: 815-822

(140) Szalanski, A. L., R. H. Scheffrahn, J. M. Austin, J. Krecek, and N.-Y. Su. 2004. Molecular phylogeny and biogeography of *Heterotermes* (Isoptera: Rhinotermitidae) in the West Indies. *Ann. Amer. Entomol. Soc.* 97: 556-566

(141) Scheffrahn, R. H., J. Krecek, B. Maharajh, N.-Y. Su, J. A. Chase, J. R. Mangold, A. L. Szalanski, J. W. Austin, and J. Nixon. 2004. Establishment of the African termite, *Coptotermes sjostedti* (Isoptera: Rhinotermitidae), on the Island of Guadeloupe, French West Indies. *Ann. Entomol. Soc. Am.* 97: 872-876.

(142) 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

(143) 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

- (144) Crosland, M. W. J., N.-Y. Su, and R. H. Scheffrahn. 2005. Aroliia in termites (Isoptera): Functional significance and evolutionary loss. *Insectes Sociaux* 52: 63-66
- (145) Messenger, M. T. and N.-Y. Su. 2005. Agonistic behavior between colonies of the Formosan subterranean termite from Louis Armstrong Park, New Orleans, Louisiana. *Sociobiology* 45: 331-345
- (146) Messenger, M. T., N.-Y. Su, C. Husseneder, and J.K. Grace. 2005. Elimination and reinvasion studies with *Coptotermes formosanus* (Isoptera: Rhinotermitidae) in Louisiana. *J. Econ. Entomol.* 98: 916-929
- (147) Messenger, M.T. and N.-Y. Su. 2005. Colony characteristics of the Formosan subterranean termite in Louis Armstrong Park, New Orleans, Louisiana. *J. Entomol. Sci.* 40: 268-279
- (148) Bardunias, P., and N.-Y. Su. 2005. Comparison of tunnel geometry of subterranean termites (Isoptera: Rhinotermitidae) in “two dimensional” and “three dimensional” arenas. *Sociobiology* 45: 679-685
- (149) Remmen, L., and N.-Y. Su. 2005. Time trends in mortality for thiamethoxam and fipronil against Formosan subterranean termites and eastern subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 98: 911-915
- (150) Remmen, L., and N.-Y. Su. 2005. Tunneling and mortality of eastern and Formosan subterranean termites (Isoptera: Rhinotermitidae) in sand treated with thiamethoxam or fipronil. *J. Econ. Entomol.* 98: 906-910
- (151) Husseneder, C., M. T. Messenger, N.-Y. Su, J. K. Grace, and E. L. Vargo. 2005. Colony social organization and population genetic structure of an introduced population of Formosan subterranean termite from New Orleans, Louisiana. *J. Econ. Entomol.* 98: 1421-1434.
- (152) Scheffrahn, R. H., and N.-Y. Su. 2005. Distribution of the termite genus *Coptotermes* (Isoptera: Rhinotermitidae) in Florida. *Florida Entomologist* 88: 201-203.
- (153) 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.
- (154) Crosland, M. W. J, and N.-Y. Su. 2006. Mark-recapture without estimating population sizes: a tool to evaluate termite baits. *Bull. Entomol. Res.* 96: 99-103
- (155) Song, D., X.-P. Hu, and N.-Y. Su. 2006. Survivorship, cannibalism, body weight loss, necrophagy, and entombment in laboratory groups of the Formosan subterranean termite, *Coptotermes formosanus* under starvation (Isoptera: Rhinotermitidae). *Sociobiology* 47: 27-39.
- (156) Crosland, M. W. J., N.-Y. Su, and J. S. Scheibe. 2006. Solider production strategy in lower termites: A simpler alternative hypothesis. *J. Theoretical Bio.* 239: 123-127.
- (157) Lee, S.-H., and N.-Y. Su. 2006. Estimating the size of a closed population from a single mark-recapture regime by using a diffusion probability of marked individuals. *Applied Mathematics & Computation* 182: 403-411.

- (158) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2006. Food encounter rates of simulated termite tunnels with variable food size/distribution pattern and tunnel branch length. *J. Theoretical Bio.* 243: 493-500.
- (159) Smith, J., N.-Y. Su, and R. Escoba. 2006. An area-wide population management project for the invasive eastern subterranean termite (Isoptera: Rhinotermitidae) in a low-income community in Santiago, Chile. *Am. Entomol.* 52: 253-260.
- (160) Crosland, M. W. J, and N.-Y. Su. 2006. Work allocation among castes in a Rhinotermitid termite - are nymphs a working caste (Isoptera)? *Sociobiology* 48: 585-598.
- (161) Su, N.-Y. 2007. Hermetically sealed baits for subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 100: 475-482
- (162) Lee, S.-H., N.-Y. Su, P. Bardunias, and H.-F. Li. 2007. Food encounter rate of simulated termite tunnels in heterogeneous landscapes. *BioSystems* 90: 314–322
- (163) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2007. Optimal length distribution of termite tunnel branches for efficient food search and resource transportation. *BioSystems* 90: 802-807
- (164) Ripa, R., P. Luppicini, N.-Y. Su, and M. K. Rust. 2007. Field evaluation of potential area-wide control strategies against the invasive eastern subterranean termite (Isoptera: Rhinotermitidae) in Chile. *J. Econ. Entomol.* 100: 1391-1399
- (165) Lee, S.-H., N.-Y. Su, and P. Bardunias. 2007. Exploring landscape structure effect on termite territory size using a model approach. *BioSystems* 90: 890-896
- (166) Su, N.-Y., and S.-H. Lee. 2008. Estimating the population size and colony boundary of subterranean termites by using the density functions of directionally-averaged capture probability. *J. Econ. Entomol.* 101: 592-604
- (167) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2008. Rounding a corner of a bent termite tunnel and tunnel traffic efficiency. *Behav. Process.* 77: 135-138
- (168) Lee, S.-H., and N.-Y. Su. 2008. Estimating the population size of subterranean termites by using a novel diffusion-based method. *Applied Mathematics & Computation* 197: 435-439
- (169) Li, H.-F., and N.-Y. Su. 2008. Sand displacement during tunnel excavation by the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 101: 456-462
- (170) Lee, S.-H., P. Bardunias, N.-Y. Su, and R.-L. Yang. 2008. Behavioral response of termites to tunnel surface irregularities. *Behav. Process.* 78: 397-400
- (171) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2008. Two strategies for optimizing the food encounter rate of termite tunnels simulated by a lattice model. *Ecol. Modeling* 213: 381-388
- (172) Lee, S.-H., R.-L. Yang, and N.-Y. Su. 2008. Surface irregularity induced tunneling behavior of the Formosan subterranean termite. *Behav. Process.* 78: 473-476

- (173) Chouvenc, T., N.-Y. Su, and M. L. Elliot. 2008. Interaction between the subterranean termite *Reticulitermes flavipes* (Isoptera: Rhinotermitidae) and the entomopathogenic fungus *Metarhizium anisopliae* in foraging arenas. *J. Econ. Entomol.* 100: 885-893
- (174) Lee, S.-H., and N.-Y. Su. 2008. A simulation study of territory size distribution of mangrove termites on Atlantic coast of Panama. *J. Theoretical Bio.* 253: 518-523
- (175) Li, H.-F., R. H. Scheffrahn, N.-Y. Su, N. Kanzaki, and R.-L. Yang. 2008. Survey of the termites (Isoptera: Kalotermitidae, Rhinotermitidae, Termitidae) of Lanyu island, Taiwan. *Florida Entomol.* 91: 472-473
- (176) Lee, S.-H., R.-L. Yang, and N.-Y. Su. 2008. Tunneling response of termites to a pre-formed tunnel. *Behav. Process.* 78: 192-194
- (177) Chouvenc, T., N.-Y. Su, and M. L. Elliot. 2008. Antifungal activity of the termite alkaloid norharmane against the mycelial growth of *Metarhizium anisopliae* and *Aspergillus nomius*. *J. Invert. Path.* 99: 345-347
- (178) Bardunias, P., and N.-Y. Su. 2009. Dead reckoning in the tunnel propagation of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 102: 158-165
- (179) Li, H.-F., and N.-Y. Su. 2009. Buccal manipulation of sand particles during tunnel excavation of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 102: 333-338
- (180) Lee, S.-H., and N.-Y. Su. 2009. The effects of the fractal landscape structure on the territory size distribution of subterranean termites: a simulation study. *J. Korean Physical Soc.* 54: 1697-1701
- (181) Lee, S.-H., and N.-Y. Su. 2009. A simulation study of subterranean termites' territory formation. *Ecological Informatics* 4: 111-116
- (182) Lee, S.-H., N.-Y. Su, and M. Lee. 2009. Why is the number of primary tunnels of the Formosan subterranean termite, *Coptotermes formosanus* Shiraki (Isoptera: Rhinotermitidae), restricted during foraging? *J. Asia-Pacific Entomol.* 12: 151-154
- (183) Chouvenc, T., N.-Y. Su, and A. Robert. 2009. Inhibition of *Metarhizium anisopliae* in the alimentary tract of the eastern subterranean termite *Reticulitermes flavipes*. *J. Invertebr. Pathol.* 101: 130-136.
- (184) Chouvenc, T., N.-Y. Su, and A. Robert. 2009. Cellular encapsulation in the eastern subterranean termite, *Reticulitermes flavipes* (Isoptera), against infection by the entomopathogenic fungus *Metarhizium anisopliae*. *J. Invertebr. Pathol.* 101: 234-241.
- (185) Li, H.-F., and N.-Y. Su. 2009. Phylogeography of *Coptotermes gestroi* and *Coptotermes formosanus* (Isoptera: Rhinotermitidae) in Taiwan. *Ann. Entomol. Soc. Am.* 102: 684-693.
- (186) Lee, S.-H., and N.-Y. Su. 2009. The influence of branching tunnels on subterranean termites' foraging efficiency: considerations for simulations. *Ecological Informatics* 4: 152-155.

- (187) Yang, R.-L., N.-Y. Su, and P. Bardunias. 2009. Individual task load in tunnel excavation by the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 102: 906-910.
- (188) Li, H.-F., N. Kanzaki, and N.-Y. Su. 2009. Redescription of the drywood termite *Incisitermes inamurae* (Isoptera: Kalotermitidae) from southern Taiwan. *Ann. Entomol. Soc. Am.* 102: 759-765.
- (189) Bardunias, P., and N.-Y. Su. 2009. Opposing headings of excavating and depositing termites facilitate branch formation in the Formosan subterranean termite. *Animal Behav.* 78: 755–759.
- (190) Su, N.-Y., and S.-H. Lee. 2009. Tunnel volume regulation and group size of subterranean termites (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 102: 1158-1164.
- (191) Chouvenc, T., N.-Y. Su, and A. Robert. 2009. Susceptibility of seven termite species (Isoptera) to the entomopathogenic fungus *Metarhizium anisopliae*. *Sociobiology* 54: 725-748.
- (192) Bardunias, P. M., and N.-Y. Su. 2010. Behavioral variation among tunnelers in the Formosan subterranean termite. *J. Asia-Pacific Entomol.* 13: 45-49
- (193) Lee, S.-H., and N.-Y. Su. 2010. Simulation study on the tunnel networks of subterranean termites and the foraging behavior. *J. Asia-Pacific Entomol.* 13: 83-90
- (194) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2010. A novel approach to shape recognition using the shape outline. *J. Korean Physical Soc.* 56: 1016-1019
- (195) Lee, S.-H., and N.-Y. Su. 2010. A novel approach to characterize branching network: application to termite tunnel patterns. *J. Asia-Pacific Entomol.* 13: 117–120
- (196) Bardunias, P., and N.-Y. Su. 2010. Queue size determines the width of tunnels in the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Insect Behav.* 23: 189–204
- (197) Bardunias, P., and N.-Y. Su. 2010. Tunnel orientation by workers of *Coptotermes formosanus* (Isoptera: Rhinotermitidae) subjected to unilateral antennal ablation. *Florida Entomol.* 93: 310-312.
- (198) Chouvenc, T. and Su, N.-Y. 2010. Apparent synergy among defense mechanisms in subterranean termites (Rhinotermitidae) against epizootic events – The limits and potential for biological control. *J. Econ. Entomol.* 103: 1327–1337.
- (199) Jeon, W., S.-Y. Kang, N.-Y. Su, and S.-H. Lee. 2010. A constraint condition for foraging strategy in subterranean termites. *J. Insect Science* 10 (123): 1-8 (online: insectscience.org/10.123)

2. Non-Refereed Publications:

- (1) Su, N.-Y. 1977. Changes of phospholipids in eggs of the silkworm, *Bombyx mori* in relation to the diapause. M.Sc. thesis. Kyoto Univ. of Indst'l. Arts & Textile Fibers. Kyoto, Japan. 103 pp.

- (2) Su, N.-Y. 1982. An ethological approach to the remedial control of the Formosan subterranean termite, *Coptotermes formosanus* Shiraki. Ph.D. diss. Univ. of Hawaii. Honolulu, Hawaii. 124 pp.
- (3) Su, N.-Y., M. Tamashiro, and J. R. Yates. 1982. Oral toxicity of a slow-acting insecticide, Amdro[®], to the Formosan subterranean termite. The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/1162. 6 pp.
- (4) Su, N.-Y., M. Tamashiro, and J. R. Yates. 1982. Trials on the field control of the Formosan subterranean termite with Amdro bait. The Int'l. Res. Group on Wood Preservation Document No. IRG/WP/116. 10 pp.
- (5) Su, N.-Y., and J. P. La Fage. 1983. Estimates of wood-consumption rates by termites. The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/1201. 14 pp.
- (6) Su, N.-Y., and R. H. Scheffrahn. 1985. The Formosan subterranean termite. Ft. Lauderdale REC Report FL85-1. Univ. of Florida, IFAS, Ft. Lauderdale, FL. 6 pp.
- (7) Su, N.-Y., and R. H. Scheffrahn. 1986. Methods for testing fumigant efficacy against termites. The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/1297. 12pp.
- (8) Su, N.-Y., and R. H. Scheffrahn. 1988. A behavioral assay for measuring feeding deterrence of a slow-acting biocide, A-9248, against the Formosan subterranean termite (Isoptera: Rhinotermitidae). The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/1366. 7pp.
- (9) Su, N.-Y., and R. H. Scheffrahn. 1988. The Formosan subterranean termite in an urban habitat: Foraging populations, territories, and competition with the eastern subterranean termite. *Pest Management* 7: 16-25.
- (10) Su, N.-Y., and R. H. Scheffrahn. 1989. An overview of wood destroying insects: Formosan subterranean termite. *In: Nat'l. Inst. Bldg. Sci., A new look at wood protection: a collection of presentations.* Arlington, VA. pp. 78-83.
- (11) Scheffrahn, R. H., N.-Y. Su, and J. R. Mangold. 1990. A new termite species in Florida: *Amitermes floridensis*. *PCO, Off. Mag. Florida Pest Control Assn.*, Oct. 1990: 10-14.
- (12) Su, N.-Y. 1991. Termites of the United States and their control. *SP World*, 17: 12-15
- (13) Su, N.-Y. and R. H. Scheffrahn. 1991. Remedial wood preservative efficacy of BORA-CARE against the Formosan subterranean termite and eastern subterranean termite (Isoptera: Rhinotermitidae). The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/1504. 8 pp.
- (14) Su, N.-Y. and R. H. Scheffrahn. 1991. Laboratory evaluation of disodium octaborate tetrahydrate (TIM-BOR) as a wood preservative or a bait-toxicant against the Formosan and eastern subterranean termites (Isoptera: Rhinotermitidae). The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/1513. 12 pp.
- (15) Su, N.-Y. and R.H. Scheffrahn, R.H. 1991. Formosan termites found in Tampa. *PCO, Off. Mag. Florida Pest Control Assn.*, May 1991: 13.

- (16) Su, N.-Y. 1993. Methodologies for termiticide testing and standardization. The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/93-10043. 5 pp.
- (17) Tokoro, M. and N.-Y. Su. 1993. Wood protection by surface treatment of two borate preservatives, TIM-BOR and BORA-CARE for Formosan subterranean termite and eastern subterranean termite. The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/93-10044. 7 pp.
- (18) Tokoro, M. and N.-Y. Su. 1993. Oral toxicity of TIM-BOR, BORA-CARE, boric acid and ethylene glycol against the Formosan subterranean termite and the eastern subterranean termite. The Int'l. Res. Group on Wood Preservation. Document No. IRG/WP/93-10045. 6 pp.
- (19) Su, N.-Y. 1993. Basic research keys development of new termite control bait. *Pest Control*, 61: 38-48.
- (20) Su, N.-Y. 1993. Baits: Are they in the future of termite control? *Pest Control Technology*, 21: 72-114.
- (21) Su, N.-Y. 1994. The termite bait age dawn. *Pest Control*, 62: 36-38.
- (22) Su, N.-Y. 1994. A case of mistaken identity. *Pest Control*, 62: 79-80.
- (23) Scheffrahn, R. H. and N.-Y. Su. 1995. *Heterotermes*: a new subterranean termite established in Miami. *PCO*, June/July, 7-10.
- (24) Scheffrahn, R. H. and N.-Y. Su. 1995. Alates collected in third infestation of *Heterotermes*. *PCO*, August, 3.
- (25) Su, N.-Y. and R. H. Scheffrahn. 1996. A method for elimination of subterranean termite colonies. Ft. Lauderdale REC Research Report 96-1.
http://flrec.ifas.ufl.edu/entomo/Structural_Entomology/Termite97/termite97.htm
- (26) Su, N.-Y. 1997. Protecting historic buildings and structures from termites. *Cultural Resource Management*. 20: 26-27.
- (27) Su, N.-Y., R. H. Scheffrahn, and T. Weissling. 1997. Termite species migrates to Florida. *Pest Control* 65: 27-28.
- (28) Su, N.-Y., R. Scheffrahn, and T. Weissling. 1997. Newly introduced subterranean termites in Miami. *Advantage Magazine* (Certified Pest Control Operators Assn. of Florida). December: 38-39.
- (29) Scheffrahn, R.H. and N.-Y. Su. 1997. Drywood termite control: weighing all the options. Ft. Lauderdale REC Website: <http://flrec.ifas.ufl.edu/pdfs/DrywoodTermiteControl.pdf>
- (30) Scheffrahn, R.H. and N.-Y. Su. 1997. A history of termite research in Florida. *Advantage Magazine* (Certified Pest Control Operators Assn. of Florida). November: 40, 42-43.
- (31) Scheffrahn, R.H. and N.-Y. Su. 1997. A history of termite research in Florida. *PCO, Florida Pest Control Assn. Magazine*. October: 14-15.

(32) Su, N.-Y. 1998. Will there be an IPM program for termite control? SHIROARI 114: 26-34 (in Japanese).

(33) Scheffrahn, R. H. and N.-Y. Su. 1998. Can Natural Predators Control Termites? Bug Bites (Ft. Laud. REC Entomology Newsletter, T. Weissling, (ed.) 2(2): 1-2.

(34) Su, N.-Y. and R. H. Scheffrahn. 1999. Formosan termites have moved in – and they're not leaving. Pest Control 67: 62-64.

(35) Scheffrahn, R.H. and N.-Y. Su. 1999. Current Distribution of the Formosan Subterranean Termite and *Coptotermes havilandi* in Florida. Bug Bytes, Entomol. Nematol. Newsletter Ft. Lauderdale R.E.C. Vol. 3, No. 1. <http://www.ftld.ufl.edu/bbv3n1.htm#termite>

(36) Scheffrahn, R.H. and N.-Y. Su. 1999. West Indian Powderpost Drywood Termite, *Cryptotermes brevis* (Walker). "Featured Creatures," Univ. Florida Dept. Entomol./Nematol. Website. EENY-79
http://www.ifas.ufl.edu/~insect/urban/termites/west_indian_drywood_termite.htm

(37) Scheffrahn, R.H. and N.-Y. Su. 1999. Florida Darkwing Subterranean Termite, *Amitermes floridensis* Scheffrahn. "Featured Creatures," Univ. Florida Dept. Entomol./Nematol. Website. EENY-112.
http://www.ifas.ufl.edu/~insect/urban/termites/Florida_darkwinged_termite.htm

(38) Su, N.-Y. and R.H. Scheffrahn. 2000. Formosan Subterranean Termite, *Coptotermes formosanus* Shiraki. "Featured Creatures," Univ. Florida Dept. Entomol./Nematol. Website. EENY-121. http://creatures.ifas.ufl.edu/urban/termites/formosan_termite.htm

(39) Scheffrahn, R. H., and N.-Y. Su. 2000. Haviland's subterranean termite, *Coptotermes havilandi* Holmgren (Insecta: Isoptera: Rhinotermitidae). "Featured Creatures," Univ. Florida Dept. Entomol./Nematol. Website. EENY-128.
<http://www.ifas.ufl.edu/~insect/urban/termites/havilandi.htm>

(40) Scheffrahn, R. H. and N.-Y. Su. 2000. West Indian subterranean termite, *Heterotermes* sp. (Insecta: Isoptera: Rhinotermitidae). "Featured Creatures," Univ. Florida Dept. Entomol./Nematol. Website. EENY-127.
http://creatures.ifas.ufl.edu/urban/termites/west_indian_drywood_termite.htm

(41) Scheffrahn, R. H. and N.-Y. Su. 2000. Florida dampwood termites, *Neotermes castaneus* (Burmeister), *Neotermes jouteli* (Banks), and *Neotermes luykxi* Nickle and Collins (Insecta: Isoptera: Kalotermitidae). "Featured Creatures," Univ. Florida Dept. Entomol./Nematol. Website. EENY-122. <http://www.ifas.ufl.edu/~insect/urban/termites/neotermes.html>

(42) Su, N.-Y., R.H. Scheffrahn, and B. Cabrera. 2001. Native Subterranean Termite, *Reticulitermes flavipes* (Kollar), *R. virginicus* (Banks), *R. hageni* Banks. "Featured Creatures," Univ. Florida Dept. Entomol./Nematol. Website. EENY-212.
http://creatures.ifas.ufl.edu/urban/termites/native_subterraneans.htm

3. Books, Editor(s):

(1) Tamashiro, M., and N.-Y. Su [eds.] 1987. Biology and control of the Formosan subterranean termite. College of Trop. Agr. Human Resources, Univ. of Hawaii, Honolulu, HI. 61 pp.

4. Books, Contributor of Chapter(s):

(1) Su, N.-Y., and R. H. Scheffrahn. 1986. The Formosan subterranean termite (Isoptera: Rhinotermitidae), in the United State: 1907-1985, pp. 31-38. In: P. A. Zungoli [ed.], Proc. Nat'l. Conference Urban Entomol. Univ. Maryland, College Park, MD.

(2) Su, N.-Y., and M. Tamashiro. 1987. An overview of the Formosan subterranean termite in the world, pp. 3-15. In: M. Tamashiro and N.-Y. Su [eds.], Biology and control of the Formosan subterranean termite. College of Trop. Agr. Human Resources, Univ. of Hawaii, Honolulu, HI.

(3) Su, N.-Y. and R. Scheffrahn. 1987. Current status of the Formosan subterranean termite in Florida, pp. 27-31. In: M. Tamashiro and N.-Y. Su [eds.], Biology and control of the Formosan subterranean termite. College of Trop. Agr. Human Resources, Univ. of Hawaii, Honolulu, HI.

(4) Su, N.-Y., and R. H. Scheffrahn. 1990. Update of the Formosan subterranean termite. pp. 41-45. In: W. H. Robinson [ed.], Proc. Nat'l. Conference on Urban Entomology. Clemson, S.C.

(5) Su, N.-Y., and R. H. Scheffrahn. 1991. Population suppression of subterranean termites by slow-acting toxicants, pp. 51-57. In: Haverty, M. I. and W. W. Wilcox [eds.], Proc. Symposium on Current Res. on WDO and Future Prospects for Protecting Wood in Use. USDA Forest Service Gen. Tech. Rep. PSW-128.

(6) Su, N.-Y., and R. H. Scheffrahn. 1992. Recent advances in termite biology and control, pp 93-101. In: W. H. Robinson [ed.], Proc. Nat'l. Conference on Urban Entomology. Blacksburg, VA

(7) Su, N.-Y. 1993. Managing subterranean termite populations. In: Wildey, K. B. and W. H. Robinson, [eds.], pp. 45-50. Proc. of the 1st Int'l. Conf. on Insect Pests in the Urban Environment. Cambridge, UK

(8) Thoms, E., and N.-Y. Su. 1993. The role of scientists in technology transfer: collaboration between public and private sector researchers. In: Wildey, K. B. and W. H. Robinson, [eds.], pp. 251-255. Proc. of the 1st Int'l. Conf. on Insect Pests in the Urban Environment. Cambridge, UK

(9) Su, N.-Y., and R. H. Scheffrahn. 1996. Evaluation criteria for bait-toxicant efficacy against field colonies of subterranean termites: A review. In: Wildey, K. B. [ed.], pp. 443-447. Proc. of the 2nd Int'l. Conf. on Insect Pests in the Urban Environment. Edinburgh, UK.

(10) Su, N.-Y. 1996. Urban entomology: termites and termite control, In: Rosen, D., F. D. Bennett, and J. L. Capinera, [eds.], pp. 451-564. Pest management in the subtropics: integrated pest management - a Florida perspective. Intercept Ltd., U.K.

(11) Su, N.-Y. 1999. A sensor for detecting foraging activity of the subterranean termite, *Coptotermes havilandi* Holmgren (Isoptera: Rhinotermitidae). In: Robinson, W. H., F. Rettich,

and G. W. Rambo [eds.], pp. 353-356. Proc. of the 3rd Int'l. Conf. on Insect Pests in the Urban Environment. Prague, Czech Republic.

(12) Su, N.-Y., and R. H. Scheffrahn. 2000. Termites as Pests of Buildings. *In* Abe, T, D. E. Bignell, and M. Higashi [eds.], pp. 437-455. Termites: Evolution, Sociality, Symbioses, Ecology. Kluwer Academic Publishers, Dordrecht, Netherlands.

(13) Scheffrahn, R. H. and N.-Y. Su. 2000. Drywood termites. *In* R.E. Gold and S.C. Jones [eds.], pp. 116-119. Handbook of Household and Structural Insect Pests. Entomological Society of America, Lanham, MD.

(14) Su, N.-Y. and P. Bardunias. 2005. Foraging behavior of subterranean termites (Isoptera: Rhinotermitidae): Food discovery and movement of termites within established galleries. *In* Lee, C.-Y. and W. H. Robinson [eds.], pp. 443-445, Proc. 5th Int'l. Conf. Urban Pests, Suntec, Singapore

(15) Su, N.-Y. and M. Lees. 2009. Biological activities of a bait toxicant for population management of subterranean termites. *In*. C. Perterson & D. Stout [eds.], pp. 87-96, Household, Structural and Residential Pest Management. Oxford University Press, NY.

SELECTED INTERNATIONAL ACTIVITIES

1. Global IPM - Termite Biology and Management Panel organized by the United Nations Environmental Program (UNEP), Geneva, Switzerland. Member of expert panel, 2000 – 2008.

2. Termite Task Force for the Ministry of Agriculture and Forestry, New Zealand. Technical advisor, 2001 – 2007.

3. Population Management of Subterranean Termites in Chile, Termite Research and Control project, Inst. de Investigaciones Agro. (INIA), La Cruz, Chile. Scientific advisor, 2002 – 2007.

4. International Individual Consultant for Termite IPM in China. State Environmental Protection Agency, People's Republic of China. 2004 – 2005.

5. Chief Technical Advisor for Termite IPM in China. A World Bank project for elimination of persistent organic pollutants. Ministry of Environmental Protection, People's Republic of China. 2007 – 2010.

HONORS AND AWARDS

1. Sigma Xi

2. Gamma Sigma Delta

3. Pi Chi Omega

4. Who's who in the South and Southwest

5. Who's who in Science and Engineering

6. Orkin's Pest Control Industry Recognition Award, 1990, 1993, 1996, and 1997
7. Achievement Award for Collaborative Research, Florida Entomological Soc. 1992
8. United State Secretary of Agriculture's Honor Award for Individual Achievement in Research, 1996
9. Gamma Sigma Delta International Award for Distinguished Service to Agriculture, Florida Chapter, 1998
10. University of Florida Research Foundation Professorship, 1999 – 2002, 2009 – 2012
11. Presidential Green Chemistry Challenge Award, U.S. Environmental Protection Agency, 2000. Co-recipient with Dow AgroSciecneces
12. Recognition Award in Urban Entomology, Entomological Society of America, 2001
13. Outstanding Alumnus of the Year, College of Tropical Agriculture and Human Resources, University of Hawaii, 2007.
14. Fellow of the Entomological Society of America, Entomological Society of America, 2007
15. Distinguished Achievement Award in Urban Entomology, National Conf. Urban Entomology, 2008