

## CURRICULUM VITAE

VERNARD R. LEWIS

Work: ESPM-University of California, Berkeley  
Berkeley, CA 94720

### **EDUCATION:**

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|-------|------------------------------------|---|
| Ph.D. | Entomology<br>December 1989        | University of California, Berkeley, CA<br>Thesis Title: <i>Host-Insect Interactions<br/>in the California Oakworm/Coast Live Oak<br/>Ecosystem.</i>   |
| M.S.  | Entomology<br>June 1979            | University of California, Berkeley, CA<br>Thesis Title: <i>A Study of Aggressive Behavior<br/>in the Brownbanded Cockroach, <u>Supella<br/>longipalpa</u> (Fabricius) (Dictyoptera,<br/>Blattaria, Blattellidae).</i> |
| B.S.  | Agricultural Sciences<br>June 1975 | University of California, Berkeley, CA<br>Area of Specialization: <i>Entomology</i>   |

### **EXPERIENCE:**

- 7/2017-pres. *Emeritus, Extension Specialist* in ESPM
- 1/91-6/2017. *Extension Specialist.* Department of Environmental Sciences, Policy, and Management, Division of Insect Biology, University of California, Berkeley. Duties include: guest lecturing, proposal development, research, and publishing on household and structural pests.
- 9/88-12/90 *Postdoctoral Fellow.* Department of Entomological Sciences, University of California, Berkeley. Research activities include: proposal development, publishing, and research on acorn weevils, California oakworms, and termites.
- 8/86-4/88 *Vector Control Coordinator.* San Quentin State Prison. Duties included: overseeing all indoor and outdoor animal pest and weed control services. Also coordinated vendor pest control services and supervised inmate work crews.
- 4/82-8/86 *Staff Entomologist.* IPM Systems, Incorporated. Duties included: training and supervision of pest control service technicians, and marketing personnel within the San Francisco Bay area.

### **PROFESSIONAL AFFILIATIONS:**

Entomological Society of America

Pi Chi Omega  
Member Termite Expert Group, UNEP/FAO.

#### **COMMITTEES:**

I have been a member on dozens of local, State, National and International Committees. Some examples are listed below.

Member Technical Termite Bait Committee, California Structural Pest Control Board, 2002  
Member IPM for California Schools Committee, 2004  
Member of UC IPM Urban and Community IPM Committee, 2007  
Member IPM Task Force Committee, California Structural Pest Control Board, 2007  
Member Affirmative Action Committee UC Division of Agriculture and Natural Resources, 2006-2009  
Member Cooperative Extension Merits and Promotions, UC Berkeley, 2006-2009  
Member Assoc. Structural Pest Control Regulatory Officials Termite Label Committee, 2015  
Chair, Diversity & Inclusion Committee, Entomological Society of America, 2015  
Member Quality Pro Committee National Pest Management Association, 2015  
Member Science Review Committee, Kyoto University, Japan, 2015

#### **AWARDS:**

Graduate Minority Fellowship. University of California, Berkeley, 1982  
Chancellor's Minority Fellowship. University of California, Berkeley, 1988, 1989  
Outstanding Manager Award. University of California, Berkeley, 1995  
Orkin Outstanding Research Award, 1998  
Award in Urban Entomology, Pacific Branch Entomological Society of America, 2002  
Awarded visiting professor title, Kyoto University, Japan, 2011  
Pioneer Lecture Award Florida Entomological Society 2015  
Inducted into the Pest Management Professional Hall of Fame 2016

I was also awarded \$3.6 million in grants, contracts, and gifts in extramural support of my extension and research programs. To date, I have successfully completed six large contracts (totaling \$1 million) from the California Structural Pest Control Board and another twelve large contracts and cooperative agreements from Department of Pesticide Regulation, UC Agriculture and Natural Resources, UC Statewide IPM, Sacramento Housing Authority, Department of Commerce and USDA Forest Service (totaling \$600,000). Dozens of pesticide manufacturers and distributors, State and National Pest Management Associations and many individual pest control companies have contributed \$2 million in support of my programs.

#### **INVITED PRESENTATIONS:**

Over the last twenty-six years, I have given almost 700 presentations, 65% were directed to pest management professionals to assist them in their training and development to maintain professional certifications and licenses. However, 25% of my presentations have also included classroom instruction to undergraduate and graduate students, as well as presentations of my lab research findings at scientific meetings and symposia. I have co-taught and been the instructor of record for several courses at UCB. I also have signed two masters and two PhD theses. The remaining 10% of my talks involved basic entomology presentations to the general public and K-12 youth. Representative examples and lists of past lectures, locations, and titles can be provided upon request.

## **OTHER ACTIVITIES:**

I receive public requests for information on insects almost daily and have responded to thousands of inquiries. I frequently make myself and talents available to the general public, some past and current examples include “The Insect Hotline” and Cal Day. Lastly, the research and information generated by my lab and I has been featured in dozens of newspapers, magazine, television, radio shows and Internet websites that reached millions of people.

## **GENERAL INTERESTS:**

Urban Entomology, with specific interest in termites, woodboring beetles, bed bugs, and ants.

## **PUBLICATIONS:**

- Slater, A. J., Hurlbert, M. J., and **Lewis, V. R.** 1980. Biological control of brown banded cockroaches. *California Agriculture* 34(8-9): 16-18.
- Frankie, G. W., Fraser, J. B., and **Lewis, V. R.** 1982. Suggestions for implementing survey research results that deal with public attitudes and behavior towards arthropod pests in urban environments. *Symposium on Urban and Suburban Trees*, April 18-20, 1982, Michigan State University, pp. 174-179.
- Volney, W. J. A., Milstead, J. E., and **Lewis, V. R.** 1983. Effects of food quality, larval density, and photoperiod on the feeding rate of the California oakworm (Lepidoptera: Diopitidae). *Environmental Entomology* 12(3): 792-798.
- Volney, W. J. A., Koehler, C. S., Browne, L. E., Barclay, L. W., Milstead, J.E., and **Lewis, V. R.** 1983. Sampling for California oakworm on landscape oaks. *California Agriculture* 37(9-10): 89.
- Dahlsten, D. L., Hajek, A. E., Clair, D. J., Dreistadt, S. H., Rowney, D. L., and **Lewis, V. R.** 1985. Pest management in the urban forest. *California Agriculture* 39(1): 21-23.
- Lewis, V. R.**, Volney, W. J. A., and Milstead, J. E. 1987. Modeling the distribution of leaves, insect defoliators and foliage damage for the coast live oak, pp. 127-131. *In: Plumb, T. R. and N. H. Pillsbury* (technical coordinators). *Proceedings of the Symposium on Multi-Use Management of California's Hardwood Resources*; Nov. 12-14, 1986, San Luis Obispo, California. USDA Forest Service, Pacific Southwest Forest and Range Experiment Station, Forest Service, U. S. Department Agriculture, pp. 127-131.
- Milstead, J. E., Volney, W. J. A., and **Lewis, V. R.** 1987. Environmental factors influencing California oakworm feeding on California live oaks, pp. 132-*In: Plumb, T. R. and N. H. Pillsbury* (technical coordinators). *Proceedings of the Symposium on Multiple-Use Management of California's Hardwood Resources*; Nov. 12-14, 1986, San Luis Obispo, California. Gen. Tech. Rep. PSW-100, Berkeley, CA: Pacific Southwest Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, pp. 132-138.
- Lewis, V. R.** 1990. Filbert pests in live oak. *Growing Points* 27(5): 1-2
- Lewis, V. R.** 1991. The temporal and spatial distribution of filbert weevil infested acorns in an oak woodland in Marin County, California. *USDA Forest Service Gen. Tech. Rep. PSW-126*, pp. 156-160.

- Lewis, V. R.** and Lemaster, R. L. 1991. The potential of using acoustical emission to detect termites within wood. *Proceedings of the Workshop of Current Research on Wood Destroying Organisms and Future Prospects for Protecting Wood-in-use*; Bend, OR, September 1989. USDA Forest Service Gen. Tech. Rep. PSW-128, pp. 34-37.
- Lewis, V. R.**, Lemaster, R. L., Beall, F. C., and Wood, D. L. 1991. Using AE monitoring for detecting economically important species of termites in California. *The International Research Group on Wood Preservation*, Document No. IRG/WP/2375.
- Lewis, V. R.** 1991. Nonchemical alternatives for termites and powderpost beetles. *The Voice of PCOC*, Spring 1991, pp. 11 & 33.
- Lewis, V. R.** 1991. Efficacy of nonchemical alternatives: follow-up on planned U. C. study. *The Voice of PCOC*, Summer 1991, pp. 18-19.
- Lewis, V. R.** 1991. Acoustic emission device for termite detection. *The Voice of PCOC*, Summer 1991, pp. 26.
- Lewis, V. R.**, Merrill, L. D., Atkinson, T. H., and Wasbauer, J. S. 1992. Imported fire ants: potential risks to California. *California Agriculture* 46(1):29-31.
- Lewis, V. R.** 1992. Within-tree distribution of acorns infested by *Curculio occidentis* (Coleoptera: Curculionidae) and *Cydia latiferreana* (Lepidoptera: Tortricidae) on the Coast live oak. *Environmental Entomology* 21(5):975-987.
- Lewis, V. R.** 1992. Update on alternative symposium on termite detection and control. *The Voice of PCOC*, Fall 1992, pp. 18-19 & 25-26.
- Lewis, V. R.** 1992. Termites and decay beware! *The Voice of PCOC*, Fall 1992, pp. 20 & 27.
- Lewis, V. R.** 1993. Alternative termite detection and control techniques. *Pest Control Technology* 21(2):46-51.
- Lewis, V. R.** and Haverty, M. I. 1994. Wood-boring beetle concern climbs with damage level. *Biofiles* 2(4): 1 & 5.
- Methyl Bromide Research Task Force. 1995. Alternatives to methyl bromide: research needs for California. Report of the methyl bromide research task force (V.R.L. subgroup Chair). Department of Pesticide Regulation and the California Department of Food and Agriculture, Sacramento, CA, 76 pp.
- Lewis, V. R.** and Haverty, M. I. 1996. Simulated field evaluation of six techniques for controlling the drywood termite *Incisitermes minor* (Isoptera: Kalotermitidae) in residences. Report submitted to the California Structural Pest Control Board, Sacramento, CA, 91 pp.
- Lewis, V. R.** and Haverty, M. I. 1996. Simulated field evaluation of six techniques for controlling the drywood termite, *Incisitermes minor* (Isoptera: Kalotermitidae), in residence. *Isoptera Newsletter* 6(1): 2.

- Lewis, V. R.** and Haverty, M. I. 1996. Evaluation of six techniques for control of the western drywood termite (Isoptera: Kalotermitidae) in structures. *Journal of Economic Entomology*. 89(4): 922-934.
- Lewis, V. R.** and Haverty, M. I. 1996. Long-awaited nonchemical alternative to drywood termite control study completed. *The Voice of PCOC*, Summer 1996, pp. 20 - 22, 24, 26, 28 - 29.
- Lewis, V. R.**, Haverty, M. I., Carver, D. S. and Fouche, C. 1996. Field comparisons of sand or insecticide barriers for control of *Reticulitermes* spp. (Isoptera: Rhinotermitidae) infestations in homes in Northern California. *Sociobiology* 28(3): 327-336.
- Haverty, M. I., **Lewis, V. R.**, Getty, G. M., Copren, K. A., and Nelson, L. J. 1997. Size and dispersion of colonies of *Reticulitermes* in wildland and residential locations in Northern California. Report prepared for the California Structural Pest Control Board, Sacramento, CA.
- Lemaster, R. L., Beall, F. C., and **Lewis, V. R.** 1997. Detection of termites with acoustic emission. *Forest Prod. J.* 47 (2): 75-79.
- Forschler, B. T. and **Lewis, V. R.** 1997. Soils, termiticides, and termites: their interaction and what it means to control. *Pest Control* 65: 42-46 & 53.
- Lewis, V. R.** Drywood termites. 1997. *Pest Notes*, Oakland: Univ. Calif. Agric. and Nat. Resources, Publication 7440.
- Lewis, V. R.** 1997. Alternatives control strategies for termites. *Journal of Agricultural Entomology*. 14(3): 291-307.
- Lewis, V. R.**, Fouche, C. F., and Lemaster, R. L. 1997. Evaluation of dog-assisted searches and electronic odor devices for detecting the western subterranean termite. *Forest Products Journal* 47 (10): 79-84.
- Lewis, V. R.** 1998. State fighting stubborn red imported fire ant invasion. *The Voice of PCOC*, Spring 1998, pp. 29-31.
- Suoja, S. B., **Lewis, V. R.**, Wood, D. L., and Wilson, M. 1998. Comparisons of single and group bioassays on attraction and arrestment of *Reticulitermes* sp. (Isoptera: Rhinotermitidae) to selected cellulosic materials. *Sociobiology* 34(1): 1-11.
- Lewis, V. R.**, Haverty, M. I., Getty, G. M., Copren, K. A., and Fouche, C. 1997. Monitoring station for studying populations of *Reticulitermes* (Isoptera: Rhinotermitidae) in California. *Pan-Pacific Entomologist* 74(3): 121-133.
- Getty, G. M., Haverty, M. I., Copren, K. A., and **Lewis, V. R.** 1998. Seasonal foraging behavior of *Reticulitermes* spp. in northern California. *Proc. Natl. Conf. Urban Entomol.* (R. E. Gold, ed.), San Diego, CA, abstract page 41.
- Getty, G. M., Haverty, M. I., Copren, K. A., and **Lewis, V. R.** 1998. Size and distribution of *Reticulitermes* colonies in a wildland and residential location in northern California. *Proc. Natl. Conf. Urban Entomol.* (R. E. Gold, ed.), San Diego, CA, abstract page 42.

- Suoja, S. B., **Lewis, V. R.**, Wood, D. L., and Wilson, M. 1998. Comparisons of single and group bioassays on attraction and arrestment of *Reticulitermes* spp. (Isoptera: Rhinotermitidae) to selected cellulosic materials. *Proc. Natl. Conf. Urban Entomol.* (R. E. Gold, ed.), San Diego, CA. One page abstract, 44.
- Lewis, V. R.**, Haverty, M. I., and Power, A. B. 1998. Laboratory evaluation of microwaves for control of the western drywood termite (Isoptera: Kalotermitidae). *Proc. Natl. Conf. Urban Entomol.* (R. E. Gold, ed.), San Diego, CA, abstract page P. 47.
- Quarles, S. L., Flynn, K. A., and **Lewis, V. R.** 1998. An investigation of stud cavities at 1568 and 1572 Union Street for termites. Service to Industry Program Report, No. 35.04.4444, University of California, Forest Products Laboratory, Richmond, CA.
- Haverty, M. I., **Lewis, V. R.**, Getty, G. M., and Copren, K. A. 1999. Foraging ecology of *Reticulitermes* in wildland and residential sites in northern California. *Proc. XIII Intl. Congress of the Study of Social Insects*, Adelaide, Australia, 29 December 1998 - 3 January 1999, abstract pg. 196.
- Lewis, V. R.**, Haverty, M. I., Getty, G. M., and Copren, K. A. 1999. Observations on the foraging behavior of *Reticulitermes* in housing units in northern California. *Proc. XIII Intl. Congress of the Study of Social Insects (IUSSI)*, Adelaide, Australia, 29 December - 3 January 1999, abstract page 280.
- Haverty, M. I., Copren, K. A., Getty, G. M., and **Lewis, V. R.** 1999. Agonistic behavior and cuticular hydrocarbon phenotypes of colonies of *Reticulitermes* (Isoptera: Rhinotermitidae) from northern California. *Ann. Entomol. Soc. Am.* 92(2):269-277.
- Getty, G. M., Haverty, M. I., Copren, K. A., and **Lewis, V. R.** 1999. Seasonal foraging behavior of *Reticulitermes* spp. (Isoptera: Rhinotermitidae) in northern California. In: Robinson, W. H., Rettich, F., and Rambo, G. W. (eds.). *The 3<sup>rd</sup> Intl. Conf. on Urban Pests*, Czech University of Agriculture, Prague, Czech Republic, pp. 347-352.
- Getty, G. M., Haverty, M. I., **Lewis, V. R.**, and Sbragia, R. J. 1999. Interfacing basic biology of *Reticulitermes* spp. and the Sentricon™ Termite Colony Elimination System in northern California. In: Robinson, W. H., Rettich, F., and Rambo, G. W. (eds.). *The 3<sup>rd</sup> Intl. Conf. On Urban Pests*, Czech University of Agriculture, Prague, Czech Republic, pp. 601-604.
- Lewis, V. R.**, Haverty, M. I., Getty, G. M., and Power, A. 1999. Termite research and outreach highlights. Annual Report: July 1998-June 1999, University of California, Forest Products Laboratory, Richmond, CA, pp. 12-13.
- Lewis, V. R.** 1999. Monitoring for woodboring beetles. Progress Report 84SA901707, California Structural Pest Control Board, Sacramento, CA, 4 pages.
- Haverty, M. I., Getty, G. M., Copren, K. A., and **Lewis, V. R.** 1999. Seasonal foraging and feeding behavior of *Reticulitermes* spp. (Isoptera: Rhinotermitidae) in wildland and a residential location in northern California. *Environmental Entomology* 28(6):1077-1084.
- Haverty, M. I., Getty, G. M., Copren, K. A., and **Lewis, V. R.** 2000. Size and dispersion of colonies of *Reticulitermes* spp. (Isoptera: Rhinotermitidae) in a wildland and residential location in Northern California. *Environmental Entomology* 29(2):241-249.

- Dahlsten, D. D., **Lewis, V. R.**, and Suoja, S. B. 2000. Food stress interactions between the Argentine ant (*Linepithema humile*) and urban tree dwelling arthropods in relationship to structural invasions. First year progress report, California Department of Pesticide Regulation, Sacramento, CA, DPR 98-0282, 45 pages.
- Lewis, V. R.** 2000. Chairman's Report-UNEP/FAO/Global IPM Facility Workshop Termite Biology and Management, Feb. 1-3, 2000, Geneva, Switzerland, 8 pages.
- Lewis, V. R.**, and Haverty, M. I. 2000. Structural pest research and extension. Annual Report: July 1999-June 2000, University of California, Forest Products Laboratory, Richmond, CA, pp. 14-15.
- Cabrera, B., Cosse, A., Seybold, S., and **Lewis, V.R.** 2000. Isolation and identification of the sex pheromone stegobinone from the deathwatch beetle, *Ptilinus basalis* LeConte. Annual committee meeting of multistate regional research project W-189: Biorational methods for insect pest management: Bio-organic and molecular approaches, Cloquet, MN, October 2000. One page abstract.
- Suoja, S., Garcia-Rubio, S., Chow, G., and **Lewis, V.R.** 2000. Ant behavior impacts barrier efficacy. *Pest Control*, 68 (10): 65, 66, 68, and 72.
- Lewis, V. R.** 2000. *Pest Notes: Wood-boring beetles in homes.* Oakland: Univ. Calif. Agric. Res. Publ. 7418. Pages 1-3.
- Cabrera, B. J., **Lewis, V. R.**, and Seybold, S. J. 2000. Berkeley research on deathwatch beetle finds potential traps, enemies. *The Voice of PCOC*, Winter 2000, pp.11-12.
- Lewis, V. R.**, Power, A. B., and Haverty, M. I. 2000. Laboratory evaluation of microwaves for control of the western drywood termite. *Forest Products Journal* 59(5):79-87.
- Getty, G. M., Haverty, M. I., Copren, K. A., and **Lewis, V. R.** 2000. Response of *Reticulitermes* spp. (Isoptera: Rhinotermitidae) colonies in northern California to baiting with hexaflumuron using the Sentricon™ Termite Colony Elimination System. *Journal of Economic Entomology* 93(5):1498-1507.
- Getty, G. M., Haverty, M. I., and **Lewis, V. R.** 2000. Agonistic behavior between recently collected and laboratory cultured *Reticulitermes* spp. (Isoptera: Rhinotermitidae) from northern California. *Pan-Pacific Entomologist* 76(4):243-250.
- Dahlsten, D. D., **Lewis, V. R.**, and Suoja, S. B. 2001. Food stress interactions between the Argentine ant (*Linepithema humile*) and urban tree dwelling arthropods in relationship to structural invasions. Second year report, California Department of Pesticide Regulation, Sacramento, CA, DPR 99-0223, 23 pages.
- Getty, G. M., M. I. Haverty, K. Copren, and **Lewis, V.R.** 2001. Response of *Reticulitermes* spp. (Isoptera: Rhinotermitidae) colonies in northern California to baiting with hexaflumuron using the Sentricon™ Termite Colony Elimination system. Proceedings of the 2000 National Conference on urban Entomology, Fort Lauderdale, Fl, May 14-16, 2000. Abstract, pp. 21.
- Lewis, V. R.** 2001. *Pest Notes: Termites.* Oakland: Univ. Calif. Agric. Res. Publ. 7415. Pages 1-6.

- Lewis, V. R.** 2001. Report-UNEP/FAO/Global IPM Facility Workshop Termite Biology and Management, Feb. 1-3, 2000, Geneva, Switzerland, 60 pages.
- Lewis, V. R.** and Haverty, M. I. 2001. Lethal effects of electrical shock treatments to the western drywood termite (Isoptera: Kalotermitidae) and resulting damage to wooden test boards. *Sociobiology* 37(1):163-183.
- Lewis, V. R.** and M. I. Haverty. 2001. Research in Centers - SPREC. Annual Report: July 2000 to June 2001. University of California, Forest Products Laboratory, Richmond, CA, pp. 14.
- Lewis, V. R.,** Cabrera, B. J., and Seybold, S. J. 2001. Development of a monitoring and mass trapping tool for wood-boring beetles in structures. Final report for project #84SA901707, California Structural Pest Control Board, Sacramento, CA, 32 pages.
- Lewis, V. R.,** Cabrera, B. J., and Seybold, S. J. 2001. Update on wood-destroying beetle study: new discoveries. *The Voice of PCOC*, Winter 2000, pp.11-12.
- Lewis, V. R.,** A. B. Power, and M. I. Haverty. 2001. Evaluation of a proto-type acoustical emission device for detecting the western drywood termite (Isoptera: Kalotermitidae) in naturally infested boards. Proceedings of the 2000 National Conference on urban Entomology, Fort Lauderdale, FL, May 14-16. 2000. Abstract, pp. 44.
- Rust, M., **Lewis, V.R.,** Slater, A., Hickman, G., and Veerkamp. 2001. *Pest Notes: Carpet beetles in Homes.* Oakland: Univ. Calif. Agric. Res. Publ. 7436. Pages 1-4.
- Cabrera, B. J., P. M. Marsh, **V. R. Lewis,** and S. J. Seybold. 2002. A new species of *Heterospilus* (Hymenoptera: Braconidae) associated with the deathwatch beetle, *Hemicoelus gibbicollis* (Leconte) (Coleoptera: Anobiidae). *Pan-Pacific Entomol.* 78(1): 7-16.
- Lewis, V. R.** 2002. Pest Notes: Drywood termites. Oakland: Univ. Calif. Agric. Nat. Res. Publ. 7440. Revised September 2002.
- Lewis, V. R.** 2002. Alternatives to POPs for managing termites. Proceedings of UNEP/WHO workshop on sustainable approaches for pest and vector management and opportunities for collaboration in replacing POPs pesticides together with the Scientific meeting on basic project methodologies of the PAHO/GEF project on comprehensive action programme to phase out DDT and reduce the long-term effects of exposure in Mexico and Central America. Panama City, 12-15 February 2001. Also in Spanish.
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- Lewis, V. R., A. B. Power, and G. M. Getty.** 2005. Field evaluation of thiamethoxam 2sc for management of the Western drywood termite (Isoptera: Kalotermitidae), pp.331-336. *In*: C. Y. Lee and W. H. Robinson (editors), Proceedings of the Fifth International Conference on Urban Pests, Suntec, Singapore, July 10-13, 2005, Printed by Perniagaan Ph'ng@ P & Y Desing, Network, Malaysia.
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- Getty, G. M., C. W. Solek, M. D. Lees, R. J. Sbragia, M. I. Haverty, and **V. R. Lewis**. 2006. Performance of Sentricon™ Termite Colony Elimination System for control of subterranean termites at a condominium development in Southern California. *In: Proceedings of the 5<sup>th</sup> National Integrated Pest Management Symposium, April 4-6, 2006, St. Louis, Missouri.* One page abstract.
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- Getty, G. M., C. W. Solek, R. J. Sbragia, M. I. Haverty, and **V. R. Lewis**. 2007. Large-scale suppression of a subterranean termite community using the Sentricon termite colony elimination system: a case study in Chatsworth, California, USA. *Sociobiology* 50(3): 1-10.
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**PROFESSIONAL LICENSES AND CERTIFICATIONS:**

California State Structural Pest Control Licenses Branch 2 and 3.