Western Bark Beetle Research Group

Group Products

Publications


**Technical Conferences and Workshops Organized**


**Contributed and Invited Presentations and Posters at Scientific Meetings and Workshops**


(2) **Fettig, C. J., Hayes, J. L., and Seybold, S. J.** The challenges of developing and implementing IPM programs for bark beetle infestations in western North America. 6th International IPM Symposium, March 26, 2009, Portland, Oregon (poster presentation by Hayes).
(3) **Fettig, C. J. and Gillette, N. E.**  Applied research on bark beetles in the West.  2009 Annual Meeting of the Northern California Society of American Foresters, January 2009, Sacramento, California (oral presentation by Fettig).


**Briefings and Testimony**

(1) **Bentz, B. J. and Fettig, C. J.**  Climate change and bark beetles in the western United States.  Briefing of the Chief of the USDA Forest Service and Dr. Carlos Rodriguez-Franco, April 2009, Davis, California (oral presentation).


**Environmental Protection Agency Product Registrations**

(1) **Gillette, N. E. and Hansen, E. M.**  Registration submitted for Disrupt-Bioflake VBN, which is the first biodegradable aerially applied release system for bark beetle
control. Gillette and Hansen provided efficacy data and nontarget data for this product registration.

**Individual Member Products**

**Publications**


(24) **Ruiz, E. R., Victor, J., Hayes J. L., and Zúñiga, G. 2009.** Molecular and morphological analysis of *Dendroctonus pseudotsugae* (Coleoptera: Curculionidae:


**Editorial Activity**

*Agricultural and Forest Entomology* (J. L. Hayes)
*Forest Ecology and Management* and *Forest Science* (C. J. Fettig)
*Journal of Chemical Ecology* (S. J. Seybold)
Technical Conferences and Workshops Organized

(1) **Bentz, B. B., Wegensteiner, R. and Six, D. L. Co-organizers:** “Forest Insects and Environmental Change.” Joint meeting of IFURO Working Parties 7.03.05 Integrated Control of Scolytid Bark Beetles and 7.03.07 Population Dynamics of Forest Insects, 28 September -2 October 2009, Jackson Hole, Wyoming.


(8) **Seybold, S. J. and Liu, A. Co-Organizers.** “Thousand Cankers Disease Affecting Black Walnut Trees.” An Information and Field Identification Meeting, Audubon Center at Debs Park, Ernest E. Debs Regional Park, December 8, 2009, Los Angeles, California (workshop attended by approx. 40 arborists, city employees, and resource managers).

Contributed and Invited Presentations and Posters at Scientific Meetings and Workshops

(2) **Beh, M. M., Seybold, S. J., and Rizzo, D. M.** Ambrosia beetles show an increased attraction to burned, sudden oak death-infected tanoak trees in the Big Sur Region. 58th Annual Meeting of the California Forest Pest Council, November 17–18, 2009, Woodland, California, (poster presentation by Beh).

(3) **Bentz, B. J.** Geographic variability in mountain pine beetle fitness traits: Climate change implications. University of Utah, February 2, 2009, Salt Lake City, Utah (invited oral presentation).

(4) **Bentz, B. J.** Geographic variability in mountain pine beetle fitness traits: Climate change implications. University of Wisconsin, February 6, 2009, Madison, Wisconsin (invited oral presentation).

(5) **Bentz, B. J.** Bark beetles and climate change. USDA Forest Service Region 1 Climate Change Reading Group, Missoula, Montana. Presented via Video Conference. February 13, 2009 (invited oral presentation).

(6) **Bentz, B. J.** Mountain pine beetle adaptation to local environments. IUFRO WP 7.03.05 and 7.03.07, September 27–October 2, 2009, Jackson Hole Wyoming (oral presentation).


(8) **Bentz, B. J., Boone, C., and Raffa, K. F.** Mountain pine beetle outbreak dynamics in high elevation forests: Influence of climate change and tree chemistry. International Union of Forest Research Organizations, Working Unit 7.03.11, Universita di Padova Field Station, August 2009, San Vito di Cadore, Italy (oral presentation by Bentz).

(9) **Bentz, B. J. and Régnière, J.** Climate warming and cold tolerance: Predictions for the mountain pine beetle. Special Symposium: Cold Case Files: Integrative Perspectives on Physiological and Molecular Responses of Insects to Low Temperature, Entomological Society of America Annual Meeting, December 13–17, 2009, Indianapolis, Indiana (invited oral presentation by Bentz).


(11) **Bracewell, R. and Bentz, B. J.** What is a mountain pine beetle anyway? A synthesis of recent research involving divergent populations. IUFRO WP 7.03.05 and
7.03.07, September 27 – October 2, 2009, Jackson Hole Wyoming (oral presentation by Bracewell).

(12) Burbano, E., Wright, M., Mori, S. R., and Gillette, N. E. Improved traps and semiochemical lures for *Xylosandrus compactus*, the black twig borer, and associated ambrosia beetles in Hawaii, IUFRO Meeting on Forest Nursery Insects and Diseases, July 12–17, 2009, Hilo, Hawaii, (oral presentation by Burbano).

(13) Del Rio Mora, A.A., Mori, S. R., and Gillette, N. E. Semiochemicals for *Conophthorus edulis* and *C. michoacanae* in Mexico. IUFRO WP 7.03.05 and 7.03.07, September 27 – October 2, 2009, Jackson Hole Wyoming (poster presentation by Gillette).

(14) Fettig, C. J. The history and value of forestry research at Blacks Mountain Experimental Forest. Documentary prepared by the USDA on the importance of Experimental Forests and Ranges, April 2009, Blacks Mountain, California (oral presentation).


(21) **Gillette, N. E.** Pheromone flakes for area-wide control of *Dendroctonus* spp. bark beetles. SERG International Meeting, February 9–12, 2009, Winnipeg, Canada (invited oral presentation).


(24) **Gillette, N.E.** Bark beetle management with anti-aggregation pheromones. Staff Seminar at USDA Forest Service PSW Research Station, April 24, 2009, Albany, California.


Liu, D. -G., Coleman, T. W., Bohne, M., Flint, M. L., and Seybold, S. J. The impact of wildfire on invasive bark and woodboring beetles in periurban forests of Southern California. 15th Annual Forest Health Monitoring Workgroup Meeting,


(41) **Lundquist, J. E.** Spruce beetles in Alaska’s changing climate. Alaska Regional Leadership Team Meeting, December 10, 2009, Juneau, Alaska.


(46) **Seybold, S. J.** Indigenous exotic forest insects in North American forests: Supplemental homegrown biodiversity or forest management nightmare. Invited teaching lecture, Forestry Sciences 495, Department of Forest Sciences, Faculty of Forestry, University of British Columbia, March 19, 2009, Vancouver, BC, Canada (invited oral presentation).

(47) **Seybold, S. J.** Host colonization behavior of bark beetles: A perennially fruitful area for basic and applied research in forest entomology. Invited presentation, Department of Forest Sciences, Faculty of Forestry, University of British Columbia, March 20, 2009, Vancouver, BC, Canada (invited oral presentation).


**Briefings and Testimony**


2. Fettig, C. J. (2) Expert Testimony in Sierra Forestry Legacy, et al. (plaintiffs) v. Mark Rey, in his official capacity as Under Secretary of Agriculture (federal defendants) and Tuolumne County Alliance for Resources and Environment, California Ski Industry Association, Quincy Library Group, and California Cattlemen’s Association (Case No.

**Media Recognition**


