

Accomplishment Highlights for Allan S. Felsot
April 2005 – April 2006

- Made 36 off-campus presentations for the WSU Pesticide Education Program (“Pesticide Applicator Training”), various grower groups, and out-of state organizations. Presentations reached over 4000 people during the past year. The topics continued to be diverse, ranging from human epidemiology and health effects of pesticides to controversies about effects of herbicides on frogs. I was invited to the University of Washington to speak with a food science class about risk assessment used in agricultural biotechnology.
- Of particular note was an invitation from the University of Illinois to speak at the long running annual meeting called the Illinois Crop Protection Technology Conference. I gave two presentations—one on risk assessment as applied to the issue of pesticides and frogs, and another was a plenary session lecture on how IPM is needed to sustain the utility of pesticide products (see proceedings paper citations below).
- During the fall semester (2005), taught over WHETS the graduate course, “Fundamentals of Environmental Toxicology” (ESRP 531; enrollment of 18 students). Co-instructed the modular course “Pesticide Toxicology” (ENTOM 556, 557, 558).
- Presently teaching the undergraduate lecture and lab course, Agricultural Entomology (ENTOM 340) over WHETS. So the lab portion of the course can be held on two campuses, I travel to Pullman on Tuesday to lecture via WHETS and instruct the lab on site. On Thursday I re-create the lab on the TC campus following the lecture over WHETS. Twenty-nine students are enrolled (24 at Pullman, 5 at TC).
- Served as Chair (elected position) of the Division of Agrochemicals at the 230th national fall meeting of the American Chemical Society in Washington, DC. Organized and moderated for the 12th year the American Chemical Society Division of Agrochemicals Young Scientist Research Recognition Award and Symposium in Atlanta, GA during the 231st national spring meeting.
- Served on the Scientific Advisory Committee and the Stakeholders Advisory Committee for the Washington State Department of Labor and Industries mandatory cholinesterase-monitoring program for pesticide handlers. Contributed written analysis to the Second Year Report.
- Served on the WSDA Pesticide Advisory Board (appointed to the position of Toxicologist in Public Service) and the Pesticide Incident Reporting and Tracking (PIRT) Panel (representing WSU).
- Received a grant from U.S. EPA Region 10 (\$35,000) for the project, “Reduction of insecticide use in orchards and implementation of no-spray zones through alternative spraying practices”.
- Received \$5,000 in funding from Wilbur Ellis for further studies on the drift control adjuvant In-Place.
- Received funding from the American Chemical Society Project SEED program for two high school internships. The internships are awarded to economically disadvantaged students with the objective of stimulating their interest in pursuing a career in the chemical sciences. During the summer, Lupe Contreras from Pasco

High School and Luis Briseno from Wapato High School were hired and worked on ongoing projects in the FEQL. Of particular note was the research of Ms. Contreras that showed the existence of an air backwash effect from airblast sprayers that contributes to downwind drift from orchards when spraying outside rows with one set of nozzles off (as is mandated on insecticide product labels).

- Currently chairing the graduate research committee of four M.S. students in ESRP and serving on the committee of one Ph.D. student from the University of Washington. Chaired the M.S. committee for Ken Holshue who received his degree during the fall 2005 semester.

Peer-Reviewed Publications and Proceedings Papers Published During this Reporting Period:

Felsot, A. S., and K. Racke (Ed.) Crop Protection Products for Organic Agriculture: Environmental, Health, and Efficacy Assessment. American Chemical Society: Washington, DC. (in press)

Tsai, M.-Y., K. Elgethun, J. Ramaprasad, M. G. Yost, **A. S. Felsot**, V. R. Hebert, R. A. Fenske. 2005. The Washington aerial spray drift study: Modeling pesticide spray drift deposition from an aerial application. *Atmospheric Environment* 39:6194-6203.

Felsot, A. S. 2006. Killing pests or managing risk? IPM as a strategy for sustaining pesticide technology as a viable tool. Proceedings 2006 Illinois Crop Protection Technology Conference. University of Illinois Extension, Urbana-Champaign, IL. pp. 126-130.

Felsot, A. S. 2006. Hazards, hazards everywhere; but is there any risk? Proceedings 2006 Illinois Crop Protection Technology Conference. University of Illinois Extension, Urbana-Champaign, IL. pp. 115-123.