



Meet an MPRINT Scientist



Jonathan Neal

Jon received his B.S. (1977) and M.S. (1980) at Michigan State University, where he studied Pheromone Biosynthesis. He spent three years as a development specialist for Albany International, working on formulations and the use of pheromones for trapping, monitoring, and mating disruption for pink bollworm, gypsy moth, spruce budworm, Indian meal moth, bark beetles, and clearwing borers. Jon studied the biochemistry of insect/plant interactions under Dr. May Berenbaum at the University of Illinois, Urbana-Champaign and received his Ph.D. in 1987. He also worked as a postdoctoral research associate under Dr. Ward Tingey at Cornell University, where he evaluated resistance of potato to Colorado potato beetles and aphids.

Since arriving at Purdue in 1988, Jon has researched the role of cytochromes P450 in resistance to plant allelochemicals and insecticides, amino acid transport in beetles, and host plant identification by corn rootworm. His current efforts are devoted to the study of corn rootworm, including research of rootworm/corn root interactions and the development of diagnostic markers for the newly emerged strain of western corn rootworm that is resistant to crop rotation.

Some MPRINT Science

Cook, C. A. and J. J. Neal. (1999) Feeding of second instar larvae of *Anasa tristis* (DeGeer) on pumpkin and cucumber. *Environmental Entomology*. 28: 173-177.

Scharf, M. E., J. J. Neal, C. B. Marcus, and G. W. Bennett. (1998) Cytochrome P450 purification and immunological detection in an insecticide resistant strain of German cockroach (*Blattella germanica*, L.).

Insect Biochemistry and Molecular Biology. 28: 1-9.

Stuart, J. J., R. Suparna, B. J. Harrington, J. Neal, and R. Beeman. (1998) Genetic mapping of a major locus controlling pyrethroid resistance in *Tribolium castaneum* (Coleoptera: Tenebrionidae). *J. Econ. Entomol.* 91:1232-1238.



Life stages of the Western corn rootworm

Personal MPRINT

Jon plays basketball regularly and coaches his daughter's soccer team (girls under 14).