

## Virtual Pesticide Credit Clinic 3

### Hour 1: Insect Ecology and IPM – *John Stone*

**Session description:** This session will address IPM strategies, application timing, and host-pest relationships.

**Speaker bio:** John Stone is an Academic Specialist at Michigan State University. He is the Coordinator and Instructor of the MSU Pesticide Safety Education Program, within MSU's Institute of Agricultural Technology. As Pesticide Safety Education Program coordinator, John works on developing and presenting training programs for new and experienced applicators, and the revision and rewriting of the pesticide applicator certification manuals.

### Hour 2: Forest and Landscape Insects – *Dr. Deb McCullough*

**Session description:** An update on Oak wilt and Beech Bark insect/disease complexes, and other problems plaguing Michigan plants in 2020.

**Speaker bio:** Deborah G. McCullough, a native of Flagstaff, Arizona, holds graduate degrees in Forestry (M.S., Northern Arizona University) and Entomology (Ph.D., University of Minnesota). She is a Professor with a joint appointment in the Dept. of Entomology and Dept. of Forestry at Michigan State University, with research, extension and teaching responsibilities. McCullough's research focuses on the ecology, impacts and management of invasive forest insects, including emerald ash borer, beech bark disease, and most recently, hemlock woolly adelgid. She works with forest managers, regulatory officials, arborists and private landowners to identify damaging forest insect populations and to develop sustainable management strategies to protect forest health. McCullough has published more than 100 papers about forest insect ecology and management in scientific journals, along with more than 200 extension bulletins and articles. She is a member of the national Forest Research Advisory Committee, the Michigan Forest Invasive Species Committee and frequently provides advice on EAB management to state, municipal and private landowners.

### Hour 3: Pollinators and Pesticides – *Ana Heck*

**Session description:** This talk will cover IPM and its relationship to pollinator protection and pollinator habitat. We'll take a close look at pest management methods, and their effects on Michigan's native pollinators.

**Speaker bio:** Ana Heck is an apiculture extension educator at Michigan State University.

### Hour 4: Beneficial Insects – *John Stone*

**Session description:** This talk will cover IPM strategies, planning the application,

pesticides in the environment, and 'natural' pest management.

**Speaker bio:** John Stone is an Academic Specialist at Michigan State University. He is the Coordinator and Instructor of the MSU Pesticide Safety Education Program, within MSU's Institute of Agricultural Technology. As Pesticide Safety Education Program coordinator, John works on developing and presenting training programs for new and experienced applicators, and the revision and rewriting of the pesticide applicator certification manuals.