

Joint Webinar with Nancy Denslow for an effort sponsored by NIH/OSWER (National Institute of Environmental Health Sciences/Superfund Research Program) April 22,2010.

Assessing EDCs in the Field: Challenges and New Approaches, Gerald Ankley, U.S. EPA, Office of Research and Development, Mid-Continent Ecology Division

Assessing the occurrence and effects of EDCs in the environment can be challenging from a number of perspectives. For example, conventional analytical approaches and/or toxicity tests may not be appropriate to detecting very potent chemicals that impact specific pathways, and often are present as components of complex mixtures. Meeting these challenges requires short-term in vitro and in vivo assays suitable for complex mixtures, analytical/fractionation approaches to identify specific chemicals causing biological effects, diagnostic endpoints (biomarkers) indicative of endocrine mechanism of action, and approaches to link diagnostic responses to alterations in individuals and populations. This talk provide an overview of EDCs and problems they present in terms of ecological risk assessment, and present examples of the types assessment tools needed and their potential applications

Dr. Ankley will focus on the problems EDC present for ecological risk assessment and will talk about the types of assessment tools needed and their potential applications.