



## 2009 AGRO New Investigator Award

Presented by the AGRO Division of ACS  
Sponsored by Dow AgroSciences



**Dr. Jennifer Anderson** is the 2009 winner of the New Investigator Award sponsored by the ACS AGRO Division. Dr. Anderson is currently a post doctoral scientist working on a variety of research problems in the laboratory of Dr. Joel Coats at Iowa

State University. She received her doctorate in environmental toxicology from Texas Tech University in 2007. Her research in Texas focused on the characterization of the effects of different environmental contaminants, such as metals, polycyclic aromatic hydrocarbons (PAHs), explosives (RDX) and chlorinated hydrocarbons (trichloroethylene), on the structure and function of microbial communities in soils. Dr. Anderson's interest in microbial ecology and the effects of anthropogenic stress led to applied studies in bioremediation of trichloroethylene by aerobic degradation and the *in situ* degradation of gasoline from leaking underground storage tanks.

During her tenure at Iowa State University, Dr. Anderson's research interests have expanded to 1) pesticide mode of action; 2) the effects of veterinary antibiotics on aquatic non-target organisms; and 3) plant-based approaches for mitigating pesticide and herbicide contamination of soils and surface water. In addition to research, she has taken on the role of teacher and advisor of other students and her leadership skills have proven invaluable.

At the 238th national meetings of the ACS in Washington, DC, Dr. Anderson will present a paper titled "Characterization of acetylcholinesterase inhibition by botanically-derived terpenoids in arthropods". Her presentation will be part of the Sunday afternoon the combined AGRO New Investigator Award and New Developments / Issues in Agrochemical Science Symposium. Dr. Anderson's research complements the long-standing research on biologically-derived insecticides ongoing in Dr. Coats' lab. Her work is a fundamental aspect of introducing new ecologically-compatible pest control products to market. It also illustrates the versatility of Dr. Anderson's skills and interests, further defining her commitment to advancing the interdisciplinary mission of the AGRO Division.

*Dr. Anderson will present her paper in the  
New AGRO New Investigator Award Symposium on  
Sunday afternoon, August 16 in the  
Renaissance Washington -- Grand Ballroom South*

The AGRO Division is grateful for the sustained support of the New Investigator Award sponsor

