MICHIGAN SWCS 2010 ANR SEMINAR SPEAKER BIOGRAPHIES

Jerry Grigar, Conservation Agronomist, USDA Natural Resources Conservation Service, East Lansing, Michigan, has been the Michigan NRCS State Agronomist for twenty-one years. He has worked for NRCS since the early '70's. Jerry's credentials include an Environmental Technology Degree, Michigan State University, 1975; and a BS in Crop and Soil Science, MSU, 1978. He is a Certified Crop Advisor, a Commercial Pesticide Applicator, and a CCA Comprehensive Nutrient Management Planner. Jerry is responsible for all agronomic Conservation Practices in the Michigan NRCS Field Office Technical Guide.

Dr. Stephen K. Hamilton is a Professor at Kellogg Biological Station, Michigan State University, where he has worked since 1995. Dr. Hamilton's principal research interests involve ecosystem ecology and biogeochemistry, with particular attention to aquatic environments, the movement of water and nutrients through landscapes, and agricultural ecology. His research topics are diverse and his study sites span from lakes and streams to wetlands and soils. He has worked in Venezuela, Brazil and Australia in addition to the U.S. He is a co-PI (Principal Investigator) on the National Science Foundation Long-Term Ecological Research project at Kellogg Biological Station, which deals with agricultural ecosystems, and is also a co-PI on the Great Lakes Bioenergy Research Center.

Natalie Rector, Marshall, Michigan, has twenty-two years of experience as a Multi-County Extension Field Crops Agent in south central Michigan, and has spent the last 8 years on state-wide responsibilities for manure nutrient management for MSU Extension. She has a BS in Crop and Soil Science and MS in Natural Resources, both from Michigan State University.

Dr. Dale Rozeboom, Associate Professor and Extension Specialist, Swine Nutrition and Production Management, Department of Animal Sciences, Michigan State University, works with other specialists, extension educators, and industry representatives in developing extension programs for the Michigan swine and food animal industries. Dr. Rozeboom teaches swine management and comprehensive nutrient management planning courses. He conducts research directed towards nutrition and management problems that are important to the swine industry. Dr. Rozeboom earned his BS, MS and PhD at the University of Minnesota.

Dr. Kurt Steinke is an Assistant Professor of Turfgrass Ecology in the Department of Crop and Soil Sciences at Michigan State University. He joined the MSU Turfgrass Team from Texas A&M University, where he held a similar assistant professor faculty position since 2006. Dr. Steinke is native to Illinois and received a B.S. in Soil Science at the University of Wisconsin-Stevens Point in 1999 while doing research in vegetable crop production. Attending the University of Wisconsin-Madison, he earned an M.S. in Horticulture (2002) studying turfgrass physiology and thereafter worked in the green industry before returning to the University of Wisconsin to obtain his Ph.D. in Horticulture and Soil Science in 2006. His dissertation research focused on environmental impacts of turfgrass ecosystems and stormwater management.

Dr. Steinke's research interests include evaluating the environmental impacts of turfgrass and urban ecosystems, managing phosphorus-enriched stormwater runoff, turfgrass environmental stress physiology and management, drought and water management including water quantity and quality issues, and evaluating new turfgrass species and varieties. He has completed a long-term ecological research study evaluating the effects of turfgrass and prairie buffer strips in reducing stormwater runoff and phosphorus loading. Other noteworthy projects include comparing water use between turfgrass and alternative types of urban vegetation and investigating the drought survival of warm-season turfgrass cultivars relative to induced municipal water restrictions. His work has been published in a variety of peer-reviewed journals.

Dr. David Vaccari is Associate Professor and Director of Civil, Environmental and Ocean Engineering, Schaefer School of Engineering and Science, Stevens Institute of Technology, Hoboken, New Jersey. In a paper published in the June 2009 issue of *Scientific American* magazine, he raised the alarm about the depletion in U.S. and global high-grade phosphorus resources: "The U.S. is the world's largest producer and exporter of phosphorus, at 23 percent of the total, but 80 percent of that amount comes from a single source: pit mines near Tampa, Fla., which may not last more than a few decades. Meanwhile nearly 40 percent of global reserves are in a single country, Morocco, sometimes referred to as the 'Saudi Arabia of phosphorus.' Although Morocco is a stable, friendly nation, the imbalance makes phosphorus a geostrategic ticking time bomb." Furthermore, global supplies of high-grade resources may last less than a century. Dr. Vaccari has a Ph.D. in Environmental Science (1984); an M.S. in Chemical Engineering (1983); an M.S. in Environmental Science (1979) and a B.S. in Environmental Science (1974).