



Dr. Henry Janzen

Dr. Henry Janzen is a research scientist in soil biochemistry with Agriculture and Agri-Food Canada at Lethbridge, Alberta. He has studied the flows of carbon and nitrogen in agricultural ecosystems, especially their links to global cycles and long-term changes in the biosphere. An important focus has been finding ways of storing more carbon and reducing greenhouse gas emissions in these ecosystems as a way of mitigating climate change. In this work, he has been active in various national and international ventures, including assignments with the Intergovernmental Panel on Climate Change (IPCC). Henry is a Fellow of the Canadian Society of Soil Science and a Fellow of the Soil Science Society of America.

Emerging Issues in Soil and Water

April 14, 2010
2:00 – 4:30 PM
335 Borlaug Hall
St. Paul Campus
University of Minnesota

PROGRAM

Introductions and Overview

Dr. Satish Gupta
Organizing Committee Chair

Welcome

Dr. Edward Nater, Head,
Soil, Water, and Climate
Dr. Greg Cuomo, Associate Dean for
Extension
College of Food, Agricultural and
Natural Resource Sciences

Remarks

Mr. George Boody, Executive Director
Land Stewardship Project

Lecture

Dr. Henry Janzen, Research Scientist,
Agriculture and Agri-Food Canada
at Lethbridge, Alberta, Canada

“Tending the Land of Our Grandchildren”

Reception To Follow



Past Lectures

- 2003 **Dr. Rattan Lal**
Carbon Sequestration
- 2004 **Dr. R. Eugene Turner**
Hypoxia
- 2005 **Dr. R. Wayne Skaggs**
Agricultural Drainage
- 2006 **Dr. Bruce E. Dale**
Dr. Richard M. Cruse
Bioenergy
- 2007 **Dr. Gary W. Petersen**
Dr. Ronald Amundson
Land Use
- 2008 **Mr. Robin O'Malley**
Dr. Bob A. Stewart
National Environmental Indicators
- 2009 **Dr. G. Philip Robertson**
Ecology and Modern Agriculture

2010 Program Sponsors

- Healthy Foods, Healthy Lives Institute
- Minnesota Association of Professional Soil Scientists
- Spectrum Research, Inc.
- NCR-SARE
- Soil and Water Conservation Society – Minnesota Chapter
- Land Stewardship Project
- Irene and Leonard Truhn Endowment

We urge contributions and welcome support for the continuation of this lecture series.

THIS LECTURE SERIES

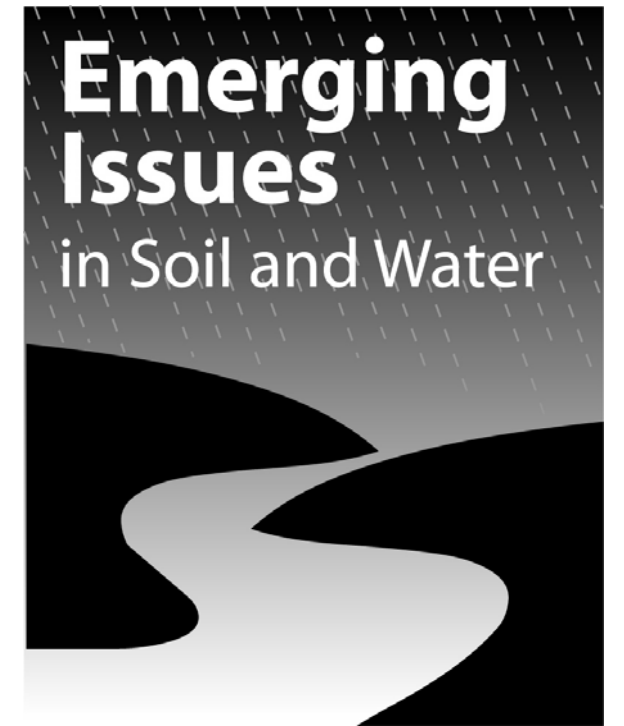
was established in 2003 to educate our students, faculty, and the public on emerging issues related to soil and water.

For more information:

Dr. Satish Gupta, Committee Chair
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E-mail: sgupta@umn.edu

Committee Members

Marvin Bauer	Forest Resources
Paul Capel	USGS, Civil Engineering
Jane Johnson	USDA-ARS
John Moncrief	Soil, Water, and Climate
Helene Murray	Institute for Sustainable Agriculture Agronomy and Plant Genetics
Gary Sands	Bioproducts and Biosystems Engineering
Mark Seeley	Soil, Water, and Climate
Jeff Strock	Southwest Research & Outreach Center Soil, Water, and Climate
Brandy Toner	Soil, Water, and Climate
Bruce Wilson	Bioproducts and Biosystems Engineering



**William E. Larson
and
Raymond R. Allmaras**

Lecture Series

2010

Department of Soil, Water, and Climate
College of Food, Agricultural
and Natural Resource Sciences
University of Minnesota

Dr. William E. Larson



Dr. Larson is one of the most distinguished soil scientists of our time. From his Nebraska farm roots, he has pursued a scientific career

that has made major contributions to improvements in soil management, erosion control, development of more effective tillage and residue management practices, and improvement of ground and surface water quality. He championed the science of soil quality, leading the way to better use of natural resources locally and around the globe. Bill has provided solid leadership in the soil science community including positions in the USDA, the University of Minnesota, The American Society of Agronomy, and The Soil Science Society of America. His legacy is forever recorded in an extensive publication record and in the minds of the many people he has personally inspired to be better and to do more.

Emerging Issues in Soil and Water

Mission

Among the principal concerns for the 21st century are food security, global sustainability of natural resources, and healthy environment. Soil and water sciences play a critical role in addressing these concerns. This lecture series provides a forum to explore emerging issues, to inspire creative thinking, and to recognize excellence in the broad area of agricultural research with specific emphasis on soil and water.

Program Issues

- ◆ Soil, water, atmospheric resources: their analysis, integration, use, and associated information delivery systems
- ◆ Management and conservation of soil and water resources.
- ◆ Judicious use and management of agricultural chemicals for water quality maintenance and crop production.
- ◆ Soil and water research and education that benefit agriculture while improving and protecting the environment.

Dr. Raymond R. Allmaras



Dr. Allmaras was engaged in soil and water conservation for his entire life, beginning on a farm in North Dakota and continued with over 40 years as a soil scientist in the US Department of Agriculture. His research carefully and skillfully delineated the interactions between soil structure, plant growth and environmental impact. Ray also provided a wealth of fundamental knowledge on conservation tillage applicable from the Midwest to the Pacific Northwest. Ray had an uncanny ability to bridge the theoretical with the practical, and put research results into practice. His work has been extensively documented in the scientific literature and is perpetuated by a host of younger scientists whom he mentored. Ray passed away on October 12, 2006. His ideas continue to motivate current agriculture research in conservation tillage.