



Resilient Agriculture: Adapting to a Changing Climate

August 5-7, 2014
Ames, Iowa



United States
Department of
Agriculture

National Institute
of Food and
Agriculture



CONFERENCE AGENDA

Tuesday, Aug 5

GARDEN ROOM

1:00 - 1:15 p.m.

1:15 - 2:00 p.m.

2:00 - 2:45 p.m.

2:45 - 3:15 p.m.

3:15 - 5:00 p.m.

SOUTH PRAIRIE

5:00 - 6:30 p.m.

NORTH & CENTRAL PRAIRIE

6:30 p.m.

BUS DEPARTS FOR OLDE MAIN

6:45 p.m. Leaves from underpass near hotel registration desk

7:00 p.m.

Welcome and Opening

Lois Wright Morton and Dean Wendy Wintersteen, ISU

Keynote 1: CLIMATE CHANGE AND AGRICULTURE

Jerry Hatfield, USDA-ARS

Keynote 2: MIDWESTERN FARMERS ANTICIPATE AND

RESPOND TO CLIMATE CHANGE

Cathy Kling, ISU

Break

THE SCIENCE OF RESILIENCE - Part 1

Presentations and discussions moderated by Jim Gulliford, Soil & Water Conservation Society, Ankeny, IA

Nitrogen's Resiliency Role

Rob Anex, UW

Carbon's Resiliency Role

Rattan Lal, OSU

Water's Resiliency Role

Jeff Strock, UMN

Regional Water Challenges and Opportunities to Increase Crop Resilience

Jon Hobbs, Jet Propulsion Lab, NASA

Predicting the Impact of Increasing Temperatures on Corn Yield

Bruno Basso, MSU

Poster Symposium and Reception

Sponsored by Monsanto

Dinner

BUS DEPARTS FOR OLDE MAIN

Leaves from underpass near hotel registration desk

Dinner for Next Generation Scientists and Next Generation Farmers

Sponsored by United Soybean Board

CONFERENCE AGENDA

Wednesday Aug 6
Morning

BUSES DEPART FOR FIELD DEMONSTRATIONS

8:00 a.m. Leaves from underpass near hotel registration desk

ISU FIELD EXTENSION EDUCATION LAB & SUSTAINABLE CORN RESEARCH SITE

9:00 - 11:45 a.m. **Hands-on Field Demonstrations**

Drainage Water Management

Jane Frankenberger (Purdue), Matt Helmers (ISU)
and Shawn Wohlnoutka (RCRCA)

Cover Crop Options and Management

Eileen Kladivko (Purdue), Charles Ellis (MU)
and Bryan Overstreet (Purdue)

Climate Tools for Corn Production

Chad Hart (ISU), Dennis Todey (SDSU), Laura Edwards (SDSU)
Chad Ingels (ISU) and Hans Schmitz (Purdue)

Rye Cover Crop, Corn Nitrogen Fertilization, and Canopy Sensing

John Sawyer (ISU), Peter Scharf (MU) and Dick Wolkowski (UW)

Measuring Greenhouse Gases

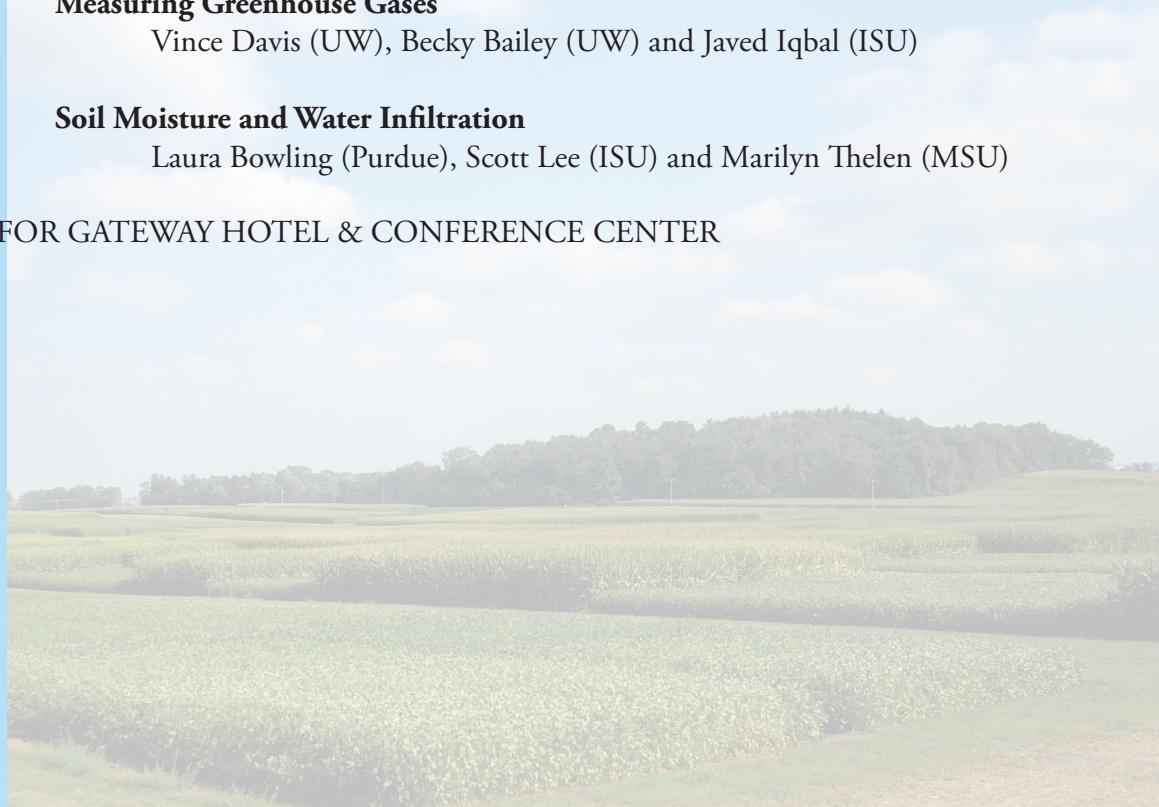
Vince Davis (UW), Becky Bailey (UW) and Javed Iqbal (ISU)

Soil Moisture and Water Infiltration

Laura Bowling (Purdue), Scott Lee (ISU) and Marilyn Thelen (MSU)

BUSES DEPART FOR GATEWAY HOTEL & CONFERENCE CENTER

Noon



CONFERENCE AGENDA

Wednesday Aug 6
Afternoon

GARDEN ROOM
12:30 - 1:30 p.m.

1:30 - 3:15 p.m.

3:15 - 3:45 p.m.

3:45 - 5:00 p.m.

5:45 p.m.

REIMAN
GARDENS

6:00 p.m.

6:45 p.m.

Lunch

THE SCIENCE OF RESILIENCE - Part 2

Presentations and discussion moderated by Paul Helgeson, GNP Company

Cover Crops

Eileen Kladivko, Purdue

Rotation and Tillage

Joe Lauer, UW and Emergson Nafziger, UI

Crop Diseases

Darin Eastburn, UI

Crop Insects

Mike Dunbar, ISU

Break

FARMER VIEWS ON ADAPTATION TO INCREASING WEATHER VARIABILITY AND EXTREMES

Session and panel moderated by Chad Ingels, ISU

Video: Farmer Perspectives on Vulnerability, Uncertainty, Risks and the Impacts of Climate Change

Survey Results: Farmer Perspectives

J. Gordon Arbuckle, Jr., ISU

Panel: Corn Belt Farmers' Perspectives, Experience and Future Needs as They Adapt to Weather Variability and Extremes

The Farmers: Andy Bensend, Wisconsin
Pat Feldpausch, Michigan
Garry Niemeyer, Illinois
Ray Gaesser, Iowa

BUS DEPARTURE FOR REIMAN GARDENS
Leaves from underpass near hotel registration desk

Reception - Sponsored by DuPont Pioneer
Dinner

CONFERENCE AGENDA

Thursday Aug 7

GARDEN ROOM

8:00 - 8:30 a.m.

AGRICULTURE & FORESTRY IN A CHANGING CLIMATE: ADAPTATION RECOMMENDATIONS

Ernie Shea, 25x'25 Alliance

8:30 - 10:00 a.m.

CUTTING EDGE TECHNOLOGIES AND STRATEGIES FOR RESILIENT AGRICULTURE

Presentations and discussion moderated by Fred Yoder, 25x'25 Alliance

An Integrated Approach to Sustainability

Ravi Sripada, The Climate Corporation

DuPont Pioneer

Ken O'Brien, DuPont Pioneer

John Deere

Pauley Bradley, John Deere

A Cloud Computational Tool for Precision Nitrogen Management

Harold van Es, Cornell

Crop Decision-making to Protect Soil and Water

David Muth, AgSolver

10:00 - 10:30 a.m.

Break

10:30 a.m. - noon

DEVELOPING A SUSTAINABLE VALUE CHAIN

Presentations and discussion moderated by Fred Yoder, 25x'25 Alliance

Consumer Demand for Products with Light Environmental Footprints

John Kadyszewski, Winrock International

International Economies and Sustainability Protocols

Mark Jackson, Former Iowa Soybean Association President

Keep it for the Crop: Sustainability in Nutrient Management

Jean Payne, Illinois Fertilizer & Chemical Association

USDA Efforts to Improve Sustainability and Resilience in Agriculture Systems

Bill Hohenstein, Climate Change Program, USDA

12:15 - 2:00 p.m.

Lunch and Speakers

A VIEW OF THE FUTURE FROM CORN AND SOYBEAN FIELDS: WHAT DOES LONG TERM SUSTAINABILITY AND RESILIENCE LOOK LIKE AND HOW DO WE GET THERE?

Garry Niemeyer, Former National Corn Growers Assoc. President

Laura Foell, Director, United Soybean Board