





United States Department of Agriculture National Institute of Food and Agriculture



Tuesday, Aug 5

GARDEN ROOM

1:00 - 1:15 p.m. Welcome and Opening

Lois Wright Morton and Dean Wendy Wintersteen, ISU

1:15 - 2:00 p.m. Keynote 1: CLIMATE CHANGE AND AGRICULTURE

Jerry Hatfield, USDA-ARS

2:00 - 2:45 p.m. Keynote 2: MIDWESTERN FARMERS ANTICIPATE AND

RESPOND TO CLIMATE CHANGE

Cathy Kling, ISU

2:45 - 3:15 p.m. **Break**

3:15 - 5:00 p.m. 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

SOUTH PRAIRIE

5:00 - 6:30 p.m. **Poster Symposium and Reception**

Sponsored by Monsanto

NORTH &

CENTRAL PRAIRIE

6:30 p.m. **Dinner**

BUS DEPARTS FOR OLDE MAIN

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

7:00 p.m. Dinner for Next Generation Scientists and Next Generation Farmers

Sponsored by United Soybean Board

Wednesday Aug 6 Morning

BUSES DEPART FOR FIELD DEMONSTRATIONS

8:30 a.m. Leaves from

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 Wohnoutka (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



Wednesday Aug 6 Afternoon

GARDEN ROOM

12:30 - 1:30 p.m.

Lunch

1:30 - 3:15 p.m.

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

3:15 - 3:45 p.m.

Break

3:45 - 5:00 p.m.

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

5:45 p.m.

LOAD BUSES FOR REIMAN GARDENS

Leaves from underpass near hotel registration desk

REIMAN GARDENS

6:00 p.m. Reception - Sponsored by DuPont Pioneer

6:45 p.m. **Dinner**

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 Managemente

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

Sustainable Corn

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Participating Institutions:





















