Monday, March 7, 2016

Morning Session: Optimizing Genotype, Environment, and Management Factors for Corn Productivity

7:15-8:15 Registration and Continental Breakfast

8:15-8:30 **Martin Bohn, University of Illinois**
*Welcome and Introductory Remarks*

Chair: Martin Bohn

8:30-9:15 **Liz Lee, University of Guelph**
*Genomes To Fields (G2F) Year Two*

9:15-10:00 **Chris Harbourt, Agrible**
*Predictive Analytics Comes of Age: Yield Prediction*

10:00-10:30 Break

10:30-11:15 **Charlie Messina, DuPont Pioneer**
*Crop Models and Genomic Prediction*

11:15-12:00 **Fred Below, University of Illinois**
*The Quest for Ever-Higher Corn Yields*

12:00-1:15 Lunch

Afternoon Session: Emerging Technologies
Chair: Steve Moose

1:15-2:00 **Gregory Heck, Monsanto**
*RNA-based Technologies for Agricultural Applications: Examples, Potential and Considerations*

2:00-2:45 **Mark Cigan, DuPont Pioneer**
*Targeted Mutagenesis, Precise Gene Editing and Site-Specific Gene Insertion in Maize Using Cas9 and Guide RNA*

2:45-3:15 Break

3:15-4:00 **Carrie Butts, University of Illinois**
*Using Maize Antioxidants as All-Natural Food Additives*

4:00-4:45 **Christopher Topp, Danforth Plant Science Center**
*Combining Root and Shoot Phenotyping for an Integrated Understanding of the Plant*
Monday evening:
Chair: Steve Moose

5:30-6:30 Social Hour
6:30-7:30 Dinner
7:30-8:15 Jean Payne and Dan Schaefer, Illinois Fertilizer and Chemical Association

Nutrient Challenges: Research and Implementation of the 4Rs to Avoid the Big R (Regulation)

Tuesday, March 8, 2016

7:30-8:00 Registration and Continental Breakfast

Morning Session: Maize Variation
Chair: Pat Brown

8:00-8:45 Mike Graham, Monsanto

8:45-9:30 Tony Studer, University of Illinois
Exploring the Vast Natural Variation and Genetic Resources of Maize to Dissect Leaf Photosynthesis and Transpiration

9:30 –10:00 Break

10:00-10:45 Matthew Hufford, Iowa State University
The Evolution of Ancient Maize During Diffusion from its Center of Origin

10:45-11:30 Tiffany Jamann, University of Illinois
Ecogeographically Structured Allele Frequency Analysis of Maize Landraces: Examining the Role of Photoperiod Sensitivity Loci in the Post-Domestication Spread of Maize in the Americas

11:30-11:35 Closing Remarks