# **Meeting Schedule**

## Wednesday, March 16

12:30-1:00 **REGISTRATION** 

### **Opening Remarks**

Nathan Springer, University of Minnesota

Larry Darrah Student Presentation Session Part I		
1:05-1:25	Luis Lopez-Zuniga, North Carolina State University	
	Production of Chromosome Segment Substitution Lines for the	
	identification of multiple disease resistance loci in Maize	
1:25-1:45	Camila Ribeiro, University of Florida	
	Multiple roles of the Pentose Phosphate Pathway in maize seed	
	development during heat stress	
1:45-2:05	Manfred Mayer, Technical University of Munich	
	Characterization of population structure and linkage	
	disequilibrium within and across 35 European maize landraces	
	using high-density genomic data	
2:05-2:25	Mike White, University of Wisconsin	
	Association of Expired Plant Variety Protection Inbred Lines from	
	Private Sector Breeding Programs	
2:25-2:40	BREAK	

Larry Darrah Student Presentation Session Part II		
2:40-3:00	Joseph Gage, University of Wisconsin	
	Genomic prediction within and between subpopulations of the	
	USA national maize inbred collection	
3:00-3:20	Metthew Dzievit, Iowa State University	
	High-throughput phenotyping and genotyping to dissect canopy	
	architecture in maize	
3:20-3:40	Matthew Murray, University of Wisconsin	
	Signatures of selection in sweet maize suggest a single donor	
	shapes modern elite se1 inbreds	

#### 3:40-4:00 Ryan Huffman, Iowa State University

Gametophytic cross-incompatibility: A genetic mechanism to maintain market class purity in maize

#### **Community Funding Discussion**

4:00-4:30	Multi Institutional Training Opportunitie	S
-----------	---	---

4:30-5:00 Genomes2Fields

### **NCCC-167 Business meeting**

5:00-5:30 NCCC-167 Business Meeting

### Thursday, March 17

7:00-8:00 **BREAKFAST** 

Early Career Session	
8:00-8:30	Anthony Studer, University of Illinois
	The use of stable isotopic ratio in leaf tissue to link photosynthesis
	and water use in maize
8:30-9:00	Tim Beissinger, USDA-ARS
	Using Medical Subject Headings (MeSH terms) to make biological
	interpretations in maize
9:00-9:30	Justin Walley, Iowa State University
	Transcriptome and proteome derived networks reveal distinct and
	complementary gene relationships
9:30-10:00	Alexander Lipka, University of Illinois
	Exploration, embellishment, and implementation of statistical
	approaches for genome-wide association studies and genomic
	selection

10:00-10:20 BREAK

#### **Phenomics Session**

10:20-10:45	Ivan Baxter, Donald Danforth Plant Sciences Center
	Elemental profiles are inherently the product of gene by
	environment interactions
10:45-11:10	Nathan Miller, University of Wisconsin
	Image-Based Phenotyping: Seeds, seedlings and tensors
11:10-11:35	James Schnable, University of Nebraska
	The greenhouse as another environment in field-based trials
11:35-12:00	Jeff Gustin, University of Florida
	Expanding the Application of NIR toward Maize Seed Phenomics
12:00-1:30	LUNCH AND POSTER VIEWING

#### **Genomes2Fields Research Session 1**

1:30-1:50 **Natalia de Leon, University of Wisconsin**The Effect of Artificial Selection on Phenotypic Plasticity: The

1:50-2:10	Elizabeth Lee, University of Guelph Genomes to Fields' Maize GxE Project: Expression of Productivity and Phenological Traits Across a Diverse set of Environments	
2:10-2:30	Jode Edwards, USDA-ARS  Genotype by environment interaction in the 2014 G2F data set	
2:30-2:50	BREAK	
Genomes2Fields Research Session 2		
2:50-3:10	Aaron Kusmec, Iowa State University	
	Distinct Genetic Architectures for Linear and Non-Linear Measures of Plasticity	
3:10-3:30	Diego Jarquin, University of Nebraska	
	A multi-institutional multi-year collaboration to study the	
	genotype-by-environment interaction in maize across a diverse set of hybrids, locations and years	
3:30-3:50	Shawn Kaeppler, University of Wisconsin	
	An Overview of the 2016/2017 GxE Experimental Design	
3:50-4:00	ADJOURNMENT	

Genotype by Environment Interaction Project in Maize