

**NCCC167 Business Meeting Minutes  
April 6, 2010, Four Points Sheraton at O'Hare**

Attendees:

**Public:** Sherry Flint-Garcia, Rich Pratt, Wenwei Xu, Paul Scott, Martin Bohn, Jim Uphaus, Marcelo Carena, Pat Schnable, Jode Edwards, Liz Lee, Torbert Rocheford, Mitch Tuinstra, Shawn Kaeppler, Rex Bernardo, Candy Gardner, Natalia deLeon, Aaron Lorenz, Brooks Blanche

**Private:** Walter Goldstein

**Administrators:** Ann Marie Thro, Bill Tracy

**Meeting was called to order by the chair, Liz Lee, at 5:10 pm**

**The 2010 business meeting agenda was approved.**

**Treasurer's Report:**

Meeting began with a balance of \$0.

Cost of the 2010 meeting is estimated to be \$2829.

Incoming registration fees are estimated to be \$3740.

Balance after 2010 meeting should be approximately \$911.

**Secretary's Report:**

The 2009 minutes were sent to committee members for comments. No comments were received. Minutes were submitted as part of the annual report.

A motion was made to approve the minutes from the 2009. Approved unanimously.

**Old Business:**

Corn Breeding Executive Committee –

At the 2009 meeting, we formed the CBEC (Sherry Flint-Garcia, Martin Bohn, Paul Scott, Travis Frey, and Tom Brutnell).

What is the status of the CBEC? What has been accomplished?

Sherry prepared and sent out rough drafts of the Corn Breeding Mission Statement and CBC Bylaws to the CBEC members in January 2010. No comments were received from the rest of the committee prior to the meeting. Sherry will print proposed bylaws and mission statement for the entire group, and a vote will be held on Wednesday before the meeting is adjourned.

**New Business:**

1. Station Reports:

Bill Tracy to send Station Report Template to committee members.

Ann Marie "Overall impact statement for the whole group is critical."

Add a bragging statement to the annual report.

## 2. Committee Reports:

700-800 Relative Maturity Trial report. Rich to send the 2008 regional testing report for the 700-800 relative maturity yield trial.

## 3. Benefits of keeping the NCCC-167 designation (Anne Marie Thro):

Anne Marie reported on the purpose and rationale for regional projects such as NCCC167.

Hatch funds define the State Agricultural Experiment Stations (SAES). Multi-state research projects are the best way to justify Hatch funds to universities and SAES. The state is required to provide a 100% match for Hatch funds. 25% of the Hatch money must go to multi-state research projects. The structure of the NCCC-167 project allows NIFA to contact researchers directly regarding NIFA – this is a communication tool for NIFA.

Discussion of which committee members obtain funds from their institution to travel to meeting. Rich (OSU), Martin (UICU), and Natalia (UW) do receive travel funds.

How are we to report our activities? If any salary (PI, technician, or grad student) or field plots funded by Hatch money supports your research, you should cite this support as “Hatch Funds” in publications and presentations.

Anne Marie suggested we include our concerns of the structure of the NCCC-167 project in the Project Renewal draft.

## 4. Fate of NCCC-167 Status:

Shawn is willing to write the renewal of the project. Benefits of keeping the NCCC-167 designation and structure include 1) keep our annual meetings going, 2) support other systems such as NCRPIS, and 3) maintain Hatch projects instead of making all NIFA money competitive. Disadvantages include 1) extra paperwork that no one wants to do and 2) the restrictive timeframe for meeting dates and report dates.

Walter (Michael Fields Institute) says NGOs support Hatch projects like NCCC167

Jode says that SAES-affiliated members should drive the program (host and run the meetings, submit project plans, submit annual reports).

After much discussion, there was a consensus to maintain the NCCC-167 project.

Shawn will write the project renewal.

## 5. Fate of germplasm at “closed” programs

There has been a loss of germplasm recently at NE, SD, MO, LA, and Penn State due to faculty retirements and departures. What should be done with their germplasm, especially if they have not prepared it prior to their departure?

Often there is a lack of institutional commitment to sorting out cold storage, rather than just dumping the seed. A motion was made to for a subcommittee to draft guidelines for closing out programs.

## 6. Chair, location, date and format for 2011 meeting

Natalia de Leon will chair the next meeting. The meeting will be held just prior to the Maize Genetics Conference in St. Charles, IL on March 16-17.

Attendees liked the chalk-talk format of the current (2010) meeting, so the 2011 meeting will likely incorporate this format. Also, a priority should be given to graduate student talks.

A motion was made to suspend the meeting until Wednesday morning to allow the group to view and modify the CBEC Bylaws. Meeting suspended at 6:20.

Meeting resumed on Wednesday morning at 10:30 am. Bylaws were presented and discussed. Modifications were made and accepted by the group. See attachment.

Meeting was adjourned at 10:40 am.

Minutes prepared by Sherry Flint-Garcia

**NCCC-167 Annual Meeting Agenda**  
**Sheraton Four-Points Hotel at the Chicago O'Hare Airport**  
**Chicago, IL**  
**April 6-7, 2010**

**Tuesday Morning**

**8:00-9:00**                      **Continental breakfast & registration**

**9:00-9:30**

**Unprecedented levels of copy number variation (CNV) and presence/absence variation (PAV) for maize genes among inbreds**

Pat Schnable

Iowa State University

**9:30-10:00**

**Genetic architecture of kernel quality in the nested association mapping (NAM) population**

Sherry Flint-Garcia

USDA-ARS Columbia, MO

**10:00-10:30**

**Resources for maize association analysis.**

Shawn Kaeppler, Candy Hansey, James Johnson, Rajan Sekhon, & Natalia de Leon  
University of Wisconsin-Madison

**10:30-10:45**

**Coffee Break**

**10:45-11:15**

**Genetic background effects on phenotypic and genotypic expression of *Cg1* in maize.**

Eric S Riedeman

University of Wisconsin-Madison

**11:15-11:45**

**Allele mining in exotic maize germplasm to enhance macular carotenoids.**

Andrew Burt & Elizabeth Lee

University of Guelph

**11:45-12:15**

**Translation of genomic information into products via maize breeding and genetics.**

Martin Bohn

University of Illinois

**12:15-1:30**

**Buffet Lunch**

## **Tuesday Afternoon**

**1:30-4:00**

### **Round Table Scientific Discussion**

A few years ago we decided that it would be a useful exercise to talk about some of the research that is preliminary in our programs and whatever else is on your mind. The intent is to bounce ideas off of people, but it is also an opportunity to explore areas where we might collaborate, interact with the genetics community and with industry. So each representative will be given roughly 20 mins. to talk about some of their early-stage research projects or whatever else is on their minds. I will allow slides, but this is an informal discussion, so **NO FORMAL PRESENTATIONS**. We will probably break for coffee around 2:45 pm.

**4:30-5:30**

### **Business Meeting Agenda**

- Approval of agenda
- Treasurer's report
- Secretary's report
- The advisor's report – Bill Tracy
- Old Business
- New Business
  - o Station Reports
  - o Committee reports
  - o Benefits of keeping the NCCC167 designation – Ann Marie Thro
  - o Fate of NCCC-167 status
  - o Chair for next year's meeting
  - o Location of next year's meeting
  - o Date for next year's meeting
  - o Format for next year's meeting

## **Wednesday Morning**

**8:00-8:30**

**Continental breakfast & registration**

**8:30-9:00**

**Improvement in adaptation to high plant density in the Iowa Stiff Stalk Synthetic maize population.**

Jode Edwards  
Iowa State University

**9:00-9:30**

**NDSU early GEM program: moving GEM germplasm northward and westward.**

Sharma, S. & M.J. Carena.

NDSU

**9:30-10:00**

**Working toward an easier way to measure rate of dry down in corn inbreds and hybrids.**

Yang, J, J. Uphaus, & M.J. Carena.

NDSU

**10:00-10:30**

**Coffee Break**

**10:30-11:00**

**Use of tropical germplasm to improve stress tolerance and aflatoxin accumulation in corn.**

Wenwei Xu, Gary Odvody, Paul Williams, & Mike Blanco.

Texas A&M et al.

**11:00-11:30**

**Differential zein protein levels in a *su1* population divergently selected for visual endosperm starchiness**

Leah Viesselmann

University of Wisconsin-Madison

**11:30-12:00**

**Diversity of Arido-American Maize Germplasm**

Rich Pratt

The Ohio State University

**Adjourned**

**Publications:****Accomplishments:**

Release inbred lines and improved populations and support decisions by conducting hybrid trials for three maturity zones (100-300, 400-600, and 700-800, relative maturity ratings) to evaluate new inbred lines in hybrids on a regional maturity basis;

Promote and raise awareness of plant breeding through the active interaction of NCR representatives with the Plant Breeding Coordinating Committee (SCC 80) plant breeding institutes, and international consortiums and disseminate information from annual meetings worldwide.

Interact with other Multistate Research Committees (e.g., NCR-25, NEC- 29) and other important groups (Maize Genetics) to stay abreast of the latest research of disciplines that are important in corn breeding;

Assess biotechnology tools, breeding methods, and potential profitable alternatives for impact in corn breeding; and

Train the next generation of corn breeders

**Impact Statements:**

1. Individual research project results were reported to the group so group members can benefit from the findings of others. This facilitates cooperative research, which enables public corn breeding to make progress more rapidly and efficiently. Ultimately, this leads to increased yield and quality of the US corn crop.
2. Plans were discussed to submit a CAP proposal to the USDA AFRI Competitive Grants Program. The objectives of the proposal are to characterize maize and sorghum germplasm collections, develop genomic-selection models and genome-wide association statistics for traits related to drought and heat tolerance, compare breeding strategies and develop resources to facilitate transfer of novel alleles into maize and sorghum, and conduct integrated education and recruitment activities in plant breeding.

## Meeting Attendance:

<b>PIs</b>	<b>Affiliation</b>	<b>Students</b>	<b>Affiliation</b>
Sherry Flint-Garcia	USDA-ARS	Andrew Burt	Univ. of Guelph
Rich Pratt	The Ohio State Univ.	Santosh Sharma	North Dakota State Univ.
Ann Marie Thro	USDA-NIFA	Junyun Yang	North Dakota State Univ.
Walter Goldstein	Michael Fields Institute	Leah Viesselmann	Univ. of Wisconsin
Wenwei Xu	Texas Tech	Eric Reiderman	Univ. of Wisconsin
Paul Scott	USDA-ARS	Pat Flannery	Univ. of Wisconsin
Martin Bohn	Univ. of Illinois	Hallie Dodson	Univ. of Wisconsin
Jim Uphaus	AgReliant	Reid Rice	Univ. of Wisconsin
Bill Tracy	Univ. of Wisconsin	Loren Trimble	Univ. of Wisconsin
Marcelo Carena	North Dakota State Univ.	Andrew Hauck	Univ. of Illinois
Pat Schnable	Iowa State Univ.	Juan Marroquin	Univ. of Illinois
Jode Edwards	USDA-ARS		
Liz Lee	Univ. of Guelph		
Torbert Rocheford	Purdue Univ.		
Mitch Tuinstra	Purdue Univ.		
Shawn Kaepler	Univ. of Wisconsin		
Rex Bernardo	Univ. of Minnesota		
Candy Gardner	USDA-ARS		
Natalia deLeon	Univ. of Wisconsin		
Aaron Lorenz	Univ. of Nebraska		
Brooks Blanche	Louisiana State Univ.		
Forest Troyer	Independent		