NCCC215 meeting 2022

Hyatt Place Chicago/O'Hare Airport

6810 Mannheim Road  
Rosemont, Illinois 60018, United States

Called to order 1:05pm Monday, December 5

Josh Parsons: President

Suzie Thompson: Vice President

Dennis Halterman: Secretary

Introductions took place – everyone in person stood and stated their name and affiliation.

A virtual option was used to connect people who could not attend the meeting in-person.

Research Presentations (alphabetical by state)

**Michigan**

Thilani Jayakody: The genome sequence of a transformable and highly regenerable diploid potato

Kaela Panicucci: Examining the self-compatibility properties of a diploid potato population

William Behling: Self-compatibility from *S. verrucosum*, effective ploidy, and 1EBN species

Kate Shaw: Dihaploid potato production at Michigan State

Jess Norling: Mining the wild species *Solanum microdontum* for improvement of cultivated potato

**Minnesota**

Hussain Agha: Assessing genotype by environment interactions and alleles mediating environment in the National Chip Processing Trial

Thomas Stefaniak: NCCC215: North Central Potato Breeding and Technical Committee North Central Meeting

Megan Harder: An introduction to Breedbase

**North Dakota**

No research talks

**Wisconsin**

Jim Busse: Dihaploids from Inbred Red Norland

Andy Hamernik: Update on dihaploid extraction and diploid seed multiplication project

Mercedes Ames: Marker development to facilitate dihaploid potato pre-breeding

Nate Westrick: Investigating the PVY resistance gene Y-1: revisiting an old story

Dennis Halterman: Role of alternative gene splicing in regulation of disease resistance genes

Lin Song: Using haplotype analysis to track tuber shape locus

Maria Caraza-Harter: Diploid breeding for red potatoes

Michaela Erickson: Short anthers, cytoplasm types, and avoiding future sterility in potato

Meeting adjourned for the day at 5:13pm

**Tuesday, December 6th**

Call to order 8:01am

Christian Tobias, National Program Leader, Institute for Food Production and Sustainability provided an overview from NIFA about administrative structure and plant-related competitive programs. He will provide a pdf of the overview to registrants of the NCCC215 meeting. NIFA will start offering technical assistance webinars 2-3 weeks after each RFA release.

**Approval of minutes**

Dave Douches moved that we approve past minutes

**Discussion about whether to offer a zoom option in the future**

Dave Douches encouraged people to attend in person because of the unique opportunities for networking while in attendance at the meeting.

Jeff Endelman made a motion that we make a virtual option available so that people who are unable to attend in person can still participate.

Suzie Thompson second the motion

No opposition from the attendees

**Date for next year’s meeting**

December 4-5, 2023 (assuming that Potatoes USA approves the same week for their meeting)

**Nominations for secretary for next meeting**

Jeff Endelman was nominated as the next secretary and there was no opposition to the appointment

David Douches made an announcement that Ray Hammerschmidt is our administrative advisor and will be retiring soon. He is working with the administration to find a replacement.

**Continuation of Research Presentations**

**Wisconsin (cont.)**

Alfonso Del Rio: Progress report from the US Potato Genebank

John Oscar Enriquez: Genomic prediction using environmental covariates in potatoes

Chelang’at Sitonik: Aerial imaging and genomic selection for potato breeding

End of research presentations

Breeding program reviews

**Canada**

David De Koeyer: Update from Agriculture and Agri-Food Canada Potato Breeding Program

**USDA-Maine**

Paul Colins: USDA-ARS Potato Variety Development for the eastern US

**Michigan**

David Douches: MSU potato breeding & genetics research update

**Minnesota**

Laura Shannon: UMN Breeding Update

**North Dakota**

Suzie Thompson: North Dakota update

**North Carolina**

Craig Yencho: 2022 NCSU potato breeding and genetics project update

**Wisconsin**

Jeff Endelman: University of Wisconsin potato breeding

Meeting adjourned at 12:06