

# NC-213 "Marketing and Delivery of Quality Grains and BioProcess Coproducts" -- Program Agenda – Hilton Minneapolis

(NC-213 – The U.S. Quality Grains Research Consortium)

## Program At A Glance:

NC-213 Presentation during GEAPS Exchange 2012. Current Research in Grain Handling and Storage: What it Means for Operations and Where do We Need to Go

A session organized by from the NC213 MultiState Research Project - *Marketing and Delivery of Quality Grains and BioProcess Coproducts*  
For GEAPS Exchange 2012, Minneapolis, MN 100 total minutes

NC213 is a USDA-recognized MultiState research consortium of public institutions that has been doing grain science and grain handling research since 1976. On several occasions, the NC213 annual meeting, typically attended by about 50 scientists from leading corn and wheat growing areas, has been held at the GEAPS Exchange. In 2010, NC213 offered an education session at the GEAPS exchange in Wichita, KS. The NC213 Session was a double session that was very well attended. In 2012, the NC213 annual meeting will be held jointly with the Minneapolis conference, and another double session will be held on the Tuesday morning of Exchange. The session is organized into 4 short topics, discussion and closing comments by the moderator, to invite industry input as to operational problems needing solution. Possible topics are:

1. *Solving analytical problems at processing plants.* Connie Hardy, Iowa State University Extension
2. *Updating the calculation of bushels from volumetric measurements.* Josephine Boac, USDA
3. *Creating food safety and recordkeeping plans for the Food Safety Modernization Act.* Angela Laury (tentative), Iowa State University Extension Food Safety Specialist
4. *The connection of the NC213 project to the International Center for Grain Operations and Processing.* Dirk Maier, Kansas State University

Approximate Schedule (Tuesday Morning, March 6, 2012, 7:30 – 10:00AM w/break@8:30)

## Tuesday, March 6, 2012:

1:00PM – 5:10PM

**NC-213 Technical Session Presentations**, Panel Discussions, Special Presentations. (Room: Marquette Ballroom 1 & 2, second floor of the Hilton)  
Boxed lunches will be available for purchase.\* (\*See registration form.)

7:00PM

**NC-213 Banquet with GEAPS.** Presentation of The Andersons Cereals & Oilseeds Award of Excellence and The Andersons Early-In-Career Award.  
(Keynote address will be provided by GEAPS.) (Room: Minneapolis Convention Center Ballroom.)

## Wednesday, March 7, 2012:

8:00AM

**NC-213 Technical Session Presentations**, Panel Discussions and Special Presentations. (Room: Marquette Ballroom 1 & 2, second floor of the Hilton)  
Meeting Registration Opens.

11:45AM – 1:30PM

**Lunch with NC-213 Business Meeting.** (Room: To be determined.)

1:30M – 3:00PM

**NC-213 Technical Session Presentations**, Panel Discussions and Special Presentations. (Room: "Marquette Ballroom 1 & 2, second floor of the Hilton)  
**Meeting Adjourned.**

(\*Please note: The NC-213 Executive Committee will be holding their annual executive meeting prior to March.)

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## Tuesday, March 6, 2012:

- 1:00PM – 5:40PM      Welcome by Brian Adam, Oklahoma State University, NC-213 Chair
- Technical Session Presentations
- Objective #1 Presentations (To characterize quality attributes and develop systems to measure quality of cereals, oilseeds, and bioprocess co-products.)
- 1:00PM – 1:30PM      North Dakota State University  
Elena de la Pena and Frank Manthey  
"Usefulness of the Glutograph in Durum Quality Evaluation."
- 1:30PM – 2:00PM      North Dakota State University  
Marina Dobrydina and Frank Manthey  
"Oxidative Stress in Durum Wheat."
- 2:00PM – 2:30PM      Iowa State University  
Charlie Hurburgh  
"Impact of Total Damage in Corn on Animal Nutrition and Ethanol Production."
- 2:30PM – 3:00PM      Iowa State University  
Marianna Soto-Camara (Doctoral Candidate, University of Barcelona, Spain)  
"Development of Corn and Soybean Calibrations for Multiple configurations of Bruins Omega NIRS Instrumentation."
- 3:00PM – 3:15PM      Break
- 3:15PM – 3:45PM      USDA, ARS, CGAHR, Manhattan, Kansas  
Dennis Tilley (Presenter). Co-Authors: F. Arthur, M. Casada, D. Johnson, M. Langemeier, S. McNeill, M. Montross, B. Subramanyam  
"Incidence and Spread of Insects from Bucket Elevator Leg Boots." (*Funded research made possible by The Andersons Grant Funding Program – Team Competition 2008.*)
- Objective #2 Presentations (To develop methods to maintain quality, capture value, and preserve food safety at key points in the harvest to end product value chain.)
- 3:45PM – 4:15PM      Oklahoma State University  
Carol Jones  
"Quality Estimation of canola using machine vision and VIS-NIR Spectroscopy."

4:15PM – 4:45 PM      USDA-ARS, GMPRC, Manhattan, Kansas  
Paul Armstrong (Presenter). Co-Authors: Mark Casada and Johnselvakumar Lawrence.  
"Development of Equilibrium Moisture Relationships for Storage Moisture Monitoring of Corn."

4:45PM – 5:10PM      North Dakota State University  
Senay Simsek  
"Effect Naturally Found Wheat Enzymes on Masked Mycotoxins."

5:10PM – 5:40PM      Technical sessions adjourn for this day.

GEAPS Exchange pre Banquet reception.

7:00PM                  GEAPS Banquet (Minneapolis Convention Center Ballroom.)

### Wednesday, March 7, 2012

8:00AM – 8:30AM      University of Illinois at Urbana-Champaign  
Vijay Singh (Presenter). Co-Authors: Bruce Dien, Chris Maragos, Mark Busman, Gavin Meerdink, Kent Rausch, Mike Tumbleson and Marvin Paulsen  
"Effect of Mycotoxins in Conventional and Modified Dry Grind Ethanol Processes." *(Funded research made possible by The Andersons Grant Funding Program – Regular Competition 2009.)*

8:30AM – 9:00AM      Iowa State University  
Gretchen Mosher  
"Measurement of Quality decision-making processes to predict Employees' Handling of Out-of-Condition Grain."

Objective #3 Presentations (To quantify and disseminate the impact of market-chain technologies on providing high value, food-safe, and bio-secure grains for global markets and bioprocess industries.)

9:00AM - 9:30AM      University of Minnesota  
Jessica Freitag  
"Controlling Mold Mite Populations I: Candidate Residual Insecticides and the Problem of Explosive Dispersal."

9:30AM - 10:00AM      University of Minnesota  
Marc Eaton  
"Evaluation of selected Residual Insecticides as Post Application Inspection Tools against the Warehouse Beetle."

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| 10:00AM – 10:15AM | Break   |
| 10:15AM – 10:45AM | Purdue University<br>Klein Ileleji (Lead Investigator)<br>"Reduction of Mycotoxin Levels in Distillers Grains." <i>(Funded research made possible by The Andersons Grant Funding Program – Team Competition 2010.)</i>                                    |
| 10:45AM – 11:15AM | University of Nebraska-Lincoln<br>Heather Hallen-Adams<br>"The Role of DON in the cross-talk between Susceptible and Resistant Wheat and Fusarium Graminearum during the Initiation of Head Blight Infection."  |
| 11:15AM – 11:45AM | University of Montana-Bozeman<br>Florence Dunkel (Presenter). Co-Authors: Keriba Coulibaly, Rurale-Sikasso,Mali, Ashley Alvarado<br>"Community-Based Natural Products for Integrated Pest Management: by the Community, for the Community."               |
| 11:45 – 1:30PM    | <b>Lunch with NC-213 Business Meeting.</b>  |
| 1:30PM – 2:00PM   | Iowa State University<br>Jelena Medic<br>"A New Development and Marketing Strategy for Soybean Composition."  |
| 2:00PM – 2:30PM   | Oklahoma State University<br>Brian Adam and Carol Jones<br>"Implementing and Evaluating Traceability Technology in Wheat Storage and Handling." <i>(Funded research made possible by The Andersons Grant Funding Program – Regular Competition 2009.)</i> |
| 2:30PM            | Annual Meeting Wrap-Up. Question and Answer Period.   |

NC-213 Annual Meeting Adjourned.

Please note: Times are approximate. Times and title presentations are subject to change. Room locations are subject to change.