

Grain Quality Newsletter

News and Highlights from NC-213: Marketing and Delivery of Quality Cereals and Oilseeds

Volume 22:2

Visit the NC-213 web site at: <http://www.oardc.ohio-state.edu/nc213>



Calendar items of interest ...

- The NC-213 Annual Meeting-Winter Technical Session is scheduled for February 5 and 6, 2003 to be held in Indianapolis, Indiana at University Place Conference Center & Hotel at IUPUI Indianapolis (on the campus of Indiana University-Purdue University Indianapolis). This Meeting is being held in Indianapolis in honor of the 25th Anniversary of NC-213 and to give local institutions and industries the opportunity to experience NC-213.
- The Grain Marketing and Production Research Center Annual Research Progress Report 2001 was distributed by Donald E. Koeltzow, Center Director. The Report offers research from: Biological Research, Engineering Research, and Grain Quality & Structure Research.
- The Re-write for NC-213 is taking place now. Please see the back side article for important details.
- Mark your calendar now for the second International Conference- July 26-29, 2004 to be held in Indianapolis.

The Grain Quality Newsletter is published and distributed at no charge to NC-213 (formerly NC-151) participants and supporters of research on "Marketing and Delivery of Quality Cereals and Oilseeds."

Send your contributions, comments, suggestions, and subscription requests to:

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NC-213 Summer Workshop

The Summer Workshop was held in conjunction with the

Twenty-one people attended the NC-213 Summer Workshop - Technical Session on Monday, June 10. This portion of the Summer Workshop was held at The Hotel at Gateway Center in Ames, Iowa with the balance being held at the Iowa State Center, also located in Ames.

Highlights of the NC-213 technical session included Dirk Maier, Purdue University, providing a 13 page draft of a proposed Second International Quality Grains Conference. It was agreed upon to hold the International Conference July 26-29, 2004 in Indianapolis, Indiana. The first International Conference was held in 1990. Marvin Paulsen, University of Illinois, provided the group with a history and overview of the project; information dated back to the first newsletter (NC-151, edited by F.W. Bakker-Arkema, November 1975), the four previous and current work plans, table of officers and table of annual meetings/summer workshops. Considerable time was spent on discussing the upcoming proposal/work plan; the current work plan terminates on September 30, 2003. Charlie Hurburgh, Iowa State, led the discussion which included selecting a new title, vision, and objectives. (For more information regarding the proposal/work plan, please see the article on the back side.)

Charlie Hurburgh, along with his Quality Lab group, organized a barbeque for Monday evening. The barbeque was held at Brookside Park near the University and participants dined on steak, turkey breast, and pork chops and used the opportunity to relax, unwind, and get caught up with one another.



Catherine Woteki

Guest Speaker

Iowa State University of Agriculture Dean

Programs held on June 11 and 12 were held in conjunction with GEAPS members—three NC-213 members gave presentations: Robert Smigelski, The Andersons, Inc., Charlie Hurburgh, and Dirk Maier. The Workshop's guest speaker, Catherine Woteki - Iowa State University College of Agriculture Dean, spoke on dealing with food safety issues; her presentation was held at the Gateway Center. In addition, 72 exhibits on display at the Iowa State Center were on hand for participants to view.



From the Research Kernels - July 2002 Issue of GMPRC, here is the latest news involving NC-213 Members:

NIR Can Detect Both Dead and Live Insects Inside Wheat Kernels. A commercially available NIR system was used over a two-month period to scan single wheat kernels that contained live or dead internal rice weevils at various stages of growth. Correct classification of sound kernels and kernels containing live insects at pupal, large, medium-sized, and small larval stages averaged 94%, 92%, 84%, and 62% respectively. Calibrations developed using live insects detected dead internal insects with accuracies ranging from 86% to 96%. Calibrations that were developed with dead insects (up to 56 days after death) correctly detected the presence of live internal insects with accuracies ranging from 92% to 93%. These results show that calibrations can be developed using infested samples containing either live or dead insects.

(Floyd Dowell, telephone: 785-776-2753, email: fdowell@gmprc.ksu.edu)

The Kansas River Valley Experiment Field will be the site for the White Food Corn Field Day - Friday, September 6, 2002.

Dr. Larry D. Maddux, Agronomist-in-Charge Kansas River Valley Experiment Field, is the contact for the Field Day. The Field Day includes a Welcome Reception at Holiday Inn Topeka, Kansas on the

evening of September 5. On the Agenda is Tim Herrman, Kansas State University. Tim will be giving a presentation titled; "Food Grade Corn Quality Research and Laboratory Capabilities at KSU." Host hotel: Holiday Inn, 605 SW Fairlawn Rd., Topeka, Kansas. Please contact Dr. Maddux for details. lmaddux@oznet.ksu.edu.

Appendix A: Multistate Research Project Proposal Rewrite for NC-213.

September 30, 2003 will mark the termination of the current Project Proposal of Multistate Research Project NC-213. At February's Annual Meeting, Mark Casada, Chair, appointed Charlie Hurburgh, Iowa State University, and Eluned Jones, Virginia Tech, to spearhead the proposal rewrite. At June's Summer Workshop - Technical Session, members of the Project decided to revise the Project Title, Mission and Objectives. The revisions are:

Title: Management of Grain Quality and Security for World Markets.

Mission: The Mission of the NC-213 project team is to create and disseminate scientific knowledge needed to manage quality and security efficiently in world grain markets.

Objectives: A) Develop practices and technologies to support quality management systems for production, distribution, processing, and utilization of quality grains and oilseeds.
B) Develop basic knowledge, science-based performance standards and technologies that promote food security and safety in grain markets.
C) Create and disseminate scientific knowledge that will enhance public confidence in market driven quality management systems for grain.

If you would like to remain, or become, a member of the technical committee or other principal leader by state or agency/institution, please review this information and have your station director (or equivalent) submit an Appendix E to the Administrative Advisor's office. The Appendix E must have an electronic signature or be sent from your station director's (or equivalent) email account; these methods authenticate approval for participation.

It is critical that a multistate research project have broad participation; in addition, the Appendix E is required before the proposal rewrite can be considered for review. It is imperative that the Appendix E be submitted by September 1, 2002 to ensure that the rewrite can be considered for review.



Call for Papers - for the NC-213 Annual Meeting/Winter Technical Session. An early Call for Papers worked well last year. We were able to advertise a better program agenda that attracted more participants, thus increasing interest and attendance. Presentations by The Anderson Research Grant Program recipients for 2001 and by The Anderson Research Grant Program Team Competition recipients for 2000 are included. Any research within the scope of the four Objectives is welcome to be in the Program and Annual Report of Progress. Location: University Place Conference Center & Hotel at IUPUI Indianapolis (on the campus of Indiana University-Purdue University Indianapolis), February 5 & 6, 2003.

Wednesday, February 5, 2003: 11:30 AM - 1:00 PM: Executive Board Meeting.
Closed Executive Board Meeting. 1:00 - 5:00 PM: Registration and Technical Sessions.

Presentations by Recipients of 2001 Anderson Research Grant Program - First Year Report

Richard Stroshine, Purdue University - "Storability Measurement of Shelled Corn as a Means of Improving Stored Grain Management Practices and Preventing Losses."

Bill Wilcke, University of Minnesota - "Using Temperature and Humidity to Control Indian Meal Moth Larvae in Stored Grain Facilities."

Dirk Maier, Purdue University - "Implementation of Carbon Dioxide Monitoring for Early Detection of Grain Spoilage."

Florence Dunkel, University of Montana and Lloyd Bullerman, University of Nebraska - "Using Varietal Differences in Post harvest Insect Resistance of Northern Great Plains Hard Spring and Winter Wheat Varieties to Increase Profit Potential."

Eluned Jones, Virginia Tech - "A Decision Support System for Mid-Atlantic Wheat Producers to Locate Value in the Supply Chain."

Presentation by Recipients of 2000 Team Competition - Second Year Report

Dirk Maier and Tim Herrman, Kansas State University - "Grain Facility System Analysis to Improve Adoption of Value-Enhanced Grain Handling and Marketing in the U.S."

Technical Sessions: Objective B - Objective C

6:00 - 9:00 PM: - Reception and Banquet. The Anderson Research Award Recipient for 2003 presentation and Keynote Speaker.

Thursday, February 6, 2003: 8:00 AM - 12:00 PM: Technical Sessions: Objective D - Objective A

12:00 1:30 PM - NC-213 General Business Meeting and lunch. Adjourn NC-213 Program ends.

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