

Grain Quality Newsletter

News and Highlights from NC-213: Marketing and Delivery of Quality Grains and BioProducts Coproducts.

Volume 38:1

NC-213: The U.S. Quality Grains Research Consortium

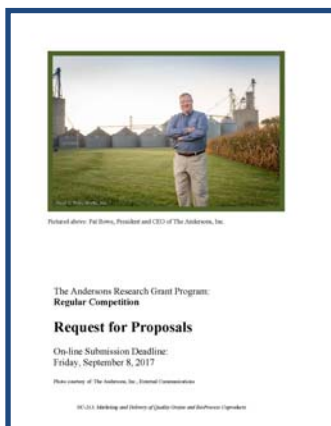
NC-213 Annual Meeting/Technical Sessions/Poster Showing 2018 in Review

At this year's NC-213 Annual Meeting/Technical Sessions/Poster Showing – Graduate Student Poster Competition-People's Choice Award, participants enjoyed sharing research that was presented during the technical sessions held February 21-22, 2018 in Kansas City, Missouri. 25 Presentations were given by graduate students, professors, members of industry and U.S.D.A. agencies. Meeting attendees had the opportunity to interact with each other and with individuals attending the Wheat Quality Council's Annual Meeting.

This year we had another "Graduate Student Poster Competition-People's Choice Award." Nine Students showed a total of eight posters and members from Industry helped in the event by voting for their favorite poster. The winning poster was presented by Ana Magallanes Lopez, from North Dakota State University. This year marked the first year that Students who registered paid a nominal fee that included all of the benefits of a two day registration fee. This experiment was done to see what kind of response it received and to encourage students to get involved now with NC-213 with the hopes that they will remain engaged in NC-213 for years to come.

The Awards portion of the meeting was chaired by Gretchen Mosher, Iowa State University as they presented the winner of the 2018 Andersons Cereals and Oilseeds Early-in-Career Award of Excellence. The winner of this award was Dr. Anton Bekkerman, Montana State University.

In preparation for the meeting, the NC-213 Administrative Advisor's Office updated two publications; "History of NC-213" and "2017 Annual Progress Reports from Participating Stations." NC-213 would like to extend a special; "Thank you" to Dave Green, Executive Vice President – Wheat Quality Council for his willingness to engage his Industry members in these efforts. (See accompanying pictures.)



The Andersons Research Grant Program – Regular Competition 2017 Winning Proposals Announced!

In June 2017, the NC-213 Administrative Advisor's Office released the Request for Proposals (RFP) for The Andersons Research Grant Program – Regular Competition 2017. Eight proposals were submitted and reviewed for possible funding. The review committee reviewed, offered comments, and scored all of the proposals and two were selected to be funded for a two year period. The proposals selected for funding are:

"Wireless Sensors for Quality Monitoring and Management of Stored Grain Inventories."
Dirk E. Maier, Iowa State University

"Role of Worker Decision Making in Effective Food Safety Modernization Act (F.S.M.A.) Implementation."
Gretchen Mosher, Iowa State University

Please offer your congratulations to Dr. Maier and to Dr. Mosher!

Corn Processing Workshops – West Milling – May 8-9, 2018

Corn Wet Milling Workshop
May 8-9, 2018
University of Illinois at Urbana-Champaign
College of ACES Library, Urbana, Illinois

This is a save the date notice for an additional Corn Wet Milling workshop to be held May 8-9. Our registration page will open soon, and an email will be sent out when it becomes available. Seating is limited to 40 persons, first come, first served (no reservations accepted). Registration will be about \$995 per person. The corn wet milling workshop provides a fundamental understanding of the technology and science associated with corn wet milling and allied industries. We will cover topics from the whole kernel to finished starch products, discuss industry trends and provide laboratory demonstrations. The workshop is designed for a broad audience and is taught by experts from industry, academia and federal research agencies. This is for the wet milling workshop only; we plan to offer wet milling and ethanol production workshops in early 2019.

Venue: College of ACES Library, Urbana, IL

How: website to allow registration in late February or early March

Who: Professionals interested in learning the fundamentals of the corn wet milling process. Workshop will be led by speakers from industry, academia and federal research agencies. The event will serve representatives from the grain, milling and allied industries. Seating is limited to 40.

Please let me know if you have any questions. If you would like to be removed from this list, please reply and I'll take you off.

Sincerely,

Kent Rausch, Associate Professor, University of Illinois, Agricultural and Biological Engineering

NC-213 Researcher Shares His Publications

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Danso, J. K., E. A. Osekre, N. Manu, G. P. Opit, P. Armstrong, F. H. Arthur, J. F. Campbell, G. Mbata. 2017. Moisture content, insect pests and mycotoxin levels of maize at harvest and post-harvest in the middle melt of Ghana. *J. Stored Prod. Res.* 74: 46-55.

Scheff, D. M., Bh. Subramanyan, and F. H. Arthur. 2017. Susceptibility of *Tribolium castaneum* and *Trogoderma variabile* larvae and adults exposed to methoprene-treated woven packaging material. *J. Stored Prod. Res.* 73: 142-150.

Tilley, D. R., M. E. Casada, M. R. Langemeier, Bh. Subramanyam, and F. H. Arthur. 2017. Temporal changes in stored-product insect populations associated with boot, pit, and load-out areas of grain elevators and feed mills. *J. Stored Prod. Res.* 73: 62-73.

Su, L., B. Adam, J. Lusk, and F. H. Arthur. 2017. Auction vs. Choice: An Application to consumer willingness to pay for rice with improved storage management. *J. of Agric. and Resource Econ.* 42: 255-274.

Paudyal, S., G. P. Opit, E. A. Osekre, F. H. Arthur, G. V. Bingham, M. E. Payton, J. K. Danso, N. Manu, and E. P. Nsiah. 2017. Effectiveness of the ZeroFly® Storage Bag fabric against stored-product insects. *J. Stored Prod. Res. J. Stored Prod. Res.* 73: 87-97.

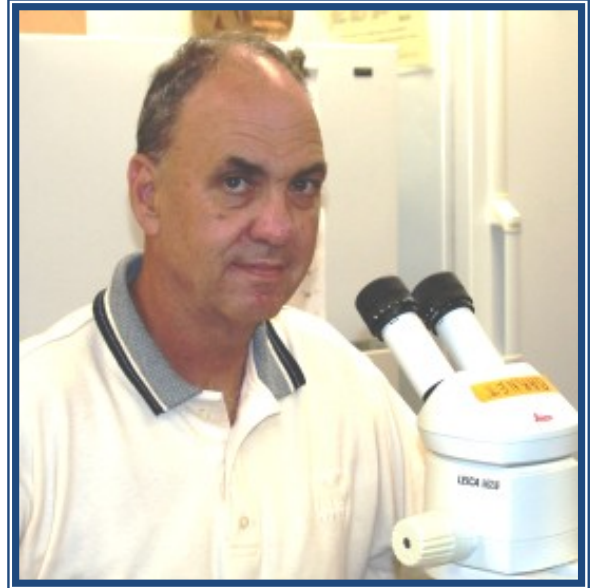
Yang, Y., L. T. Wilson, F. H. Arthur, J. Wang, and C. Jia. 2017. Regional analysis of bin aeration as an alternative to insecticidal control for post-harvest management of *Sitophilus oryzae* (L.) and *Rhyzopertha dominica* (F.). *Ecol. Modeling* 359: 165-181.

Arthur, F. H., J. F. Campbell, and J. E. Donaldson. 2017. Laboratory evaluation of particle size, food contamination, and residual efficacy of pyrethrin + methoprene aerosol. *J. Stored Prod. Res.* 72: 100-110.

McKay, T. J., A. L. White, L. Starkus, F. H. Arthur, and J. F. Campbell. 2017. Seasonal patterns of stored-product insects at a rice mill. *J. Econ. Entomol.* 110: 1366-1376.

Arthur, F. H., K. H. Hartzler, and J. E. Throne. 2017. Response of psocid life stages to cold temperature. *J. Stored Prod. Res.* 72: 166-172.

Ghimire, M. N., F. H. Arthur, S. W. Myers, and T. W. Phillips. 2017. Susceptibility of *Trogoderma granarium* (Everts) and *Trogoderma inclusum* LeConte to residual contact insecticides. *J. Stored Prod. Res.* 72: 75-82.



Paudyal, S., G. P. Opit, E. A. Osekre, F. H. Arthur, G. V. Bingham, M. E. Payton, J. K. Danso, N. Manu, and E. P. Nsiah. 2017. Field evaluation of the long-lasting treated storage bag, deltamethrin incorporated, (ZeroFly® Storage Bag) as a barrier to insect pest infestation. *J. Stored Prod. Res.* 70: 44-52.

International Calendar of Events

March 2018

March 1 – 2:

“IAOM Wheat State, Texoma and Central Districts’ Joint Meeting”.

Hyatt Place Fort Worth Historic Stockyards, Fort Worth, TX, USA. Contact: IAOM, International Association of Operative Millers. 12351 W. 96th Terrace, Suite 100 Lenexa, Kansas 66215, USA. Tel: +1 (913) 338 3377, Fax: +1 (913) 338 3553, E-mail: info@iaom.info, Web: www.iaom.info.

March 7 – 9:

“INTL FCStone Global Markets Outlook Conference”.

Hard Rock Hotel and Casino. Las Vegas, NV, USA. Contact: INTL FCStone Inc. Web: <http://www6.intlfcstone.com/global-markets-outlook-conference-2018/>

March 8 – 11:

“Turkish Flour Industrialists’ Federation, 14th International Congress and Exhibition”.

Kaya Palozzo Golf Resort. Antalya, Turkey. Contact: Turkish Flour Industrialists’ Federation, TFIF. Üniversiteler Mahallesi 1598. Cadde A3 Plaza No: 33. Bilkent Plaza Bilkent, 06800, Ankara Tel: +90 (312) 440 0454, 440 0923, 440 0948, Faks: +90 (312) 440 0364, E-mail: bilgi@tusaf.org, Web: <http://tusaf2017.org/>, www.tusaf.org. or Serenas Uluslararası Turizm Kongre Organizasyon A.Ş.

Başöğretmen Caddesi Mor Orkide Sokak No: 3. Küçükbakkalköy, Ataşehir, İstanbul, Turkey. Tel: +90 (216) 594 5826, Fax: +90 (216) 594 5799, E-mail: info@tusaf2017.org, www.serenas.com.tr.

March 11 – 14:

“4th Latin America Cereals Conference, LACC4”.

Mexico City, Mexico. Contact: ICC - International Association for Cereal Science and Technology. Marxergasse 2, A-1030 Vienna, Austria. Tel: +43 1 707 72020, Fax: +43 1 707 72040, E-mail: office@icc.or.at, Web: <http://cereals2018.cimmyt.org/>, www.icc.or.at, www.icc.or.at/events/lacc4.

March 12 – 15:

“Modern Bakery Moscow 2018.

International Trade Fair for Bakery and Confectionery”. Expocentre Fairgrounds. Moscow, Russia. Contact: Anna Goncharova, Show Director. Tel: +7 495 649 87 75/121, Fax: +7 495 649 87 85, E-mail: anna.goncharova@russia.messefrankfurt.com, Web: <https://modern-bakery-moscow.ru.messefrankfurt.com/moscow/en/>.

March 14 – 17:

“CIMMYT - International Gluten Workshop”.

Mexico City, Mexico. Contact: ICC - International Association for Cereal Science and Technology. Marxergasse 2, A-1030 Vienna, Austria. Tel: +43 1 707 72020, Fax: +43 1 707 72040, E-mail: office@icc.or.at, Web: www.icc.or.at, www.icc.or.at/node/2871.

March 19 – 22:

“CIMMYT - Obregon Visitors' Week”.

Obregon, Mexico. Contact: ICC - International Association for Cereal Science and Technology. Marxergasse 2, A-1030 Vienna, Austria. Tel: +43 1 707 72020, Fax: +43 1 707 72040, E-mail: office@icc.or.at, Web: www.icc.or.at, www.icc.or.at/node/2870.

March 20 – 23:

“Anuga FoodTec”.

Cologne, Germany. Contact: Koelnmesse GmbH. Messeplatz 1, 50679 Cologne, Germany. Tel: +49 1806 578 866, Fax: +49 221 821 99-1020, E-mail: aft@visitor.koelnmesse.de, Web: www.anugafoodtec.com.

March 24 – 27:

“GEAPS Exchange 2018, Grain Elevator and Processing Society Annual Conference”.

Colorado Convention Center. Denver, CO, USA. Contact: The Grain Elevator and Processing Society, GEAPS. 4800 Memorial Highway, Golden Valley, MN 55422, USA. Tel: +1 (763) 999 4300, Fax: +1 (763) 710 5328, E-mail: info@geaps.com, Web: www.geaps.com.

March 24 – 27:

“North American Millers' Association, NAMA 2018 Spring Conference”.

Naples Grand Breach Resort. Naples, FL, USA. Contact: Christopher Clark, North American Millers' Association. 1400 Crystal Drive, Suite 650, Arlington VA 22202, USA. Tel: + 1 (202) 484 2200 ext. 2, E-mail: cclark@namamillers.org, Web: www.namamillers.org.

March 26 – 28:

“Canadian Global Crops Symposium: “Canada’s Reputation: Reliability, Innovation, Trust”.

Westin Harbour Castle. Toronto, ON, Canada. Contact: Canada Grains Council. Tel: +1 (613) 422-0166, E-mail: office@canadagrainscouncil.ca, Web: www.CanadaGrainsCouncil.ca.

March 27 – 28:

“IAOM MEA Maghreb Regional Forum”.

The Pearl Resort & Spa Sousse, Tunisia. Contact: IAOM MEA Region, PO Box 106, Al Khuwair, PC 136, Sultanate of Oman. Tel: +968 2439 8767, E-mail: info@iaom-mea.com, Web: www.iaom-mea.com.

March 27 – 29:

“FIAAP/VICTAM/GRAPAS Asia 2018, International Exhibitions & Conferences for the Animal Feed, Biomass & Grain Processing Industries”.

Bangkok International Trade & Exhibition Centre, BITEC. Bangkok, Thailand. Contact: Patricia Heimgartner, Exhibition Manager. Victam International BV. P.O. Box 197 3860 AD Nijkerk, The Netherlands. Tel: +31 33 246 4404, Fax: +31 33 246 4706, E-mail: patriciaheimgartner@victam.com, Web: www.victam.com.

March 29 – April 1:

“World Mill Tech 2018,

World Milling Machinery Technologies and Side Industry Fair”. TÜYAP Fair and Congress Center. Büyükçekmece, Istanbul, Turkey. Contact: Arzu Fırat Özener, Project Group Director. Tuyap Fairs Inc. E-5 Karayolu Üzeri, Cumhuriyet Mahallesi, Eski Hadımköy Yolu Caddesi 9/1, 34500 Büyükçekmece, İstanbul, Turkey. Tel: +90 (212) 867 1119, Fax: +90 (212) 886 6737, E-mail: arzufirat@tuyap.com.tr, Web: www.worldmilltech.net, www.tuyap.com.tr.

April 2018

April 8 – 09:

“Atlantic Bakery Expo”.

Atlantic City Convention Center. Atlantic City, NJ, USA. Contact: Web: www.atlanticbakeryexpo.com.

April 9 – 12:

“International Sorghum Conference, “Sorghum in the 21st Century””.

Cape Town, South Africa. Contact: Email: Kira Everhart-Valentin (kevalentin@ksu.edu), Timothy Dalton (tdalton@ksu.edu), John Taylor (john.taylor@up.ac.za), info@21centurysorghum.com, Web: <https://21centurysorghum.com>.

April 9 – 13:

“122st Annual IAOM, International Association of Operative Millers,

Conference & Expo”. Renaissance Atlanta Waverly Hotel & Convention Center. Atlanta, GA, USA. Contact: IAOM, International Association of Operative Millers. 12351 W. 96th Terrace, Suite 100 Lenexa, Kansas 66215, USA. Tel: +1 (913) 338 3377, Fax: +1 (913) 338 3553, E-mail: info@iaom.info, Web: www.iaom.info.

April 12 – 15:

“IBATECH 2018,

12th International Trade Fair for Bakery, Patisserie Machinery, Ice Cream, Chocolate and Technologies”. Istanbul Fair Center, CNR Expo. Yeşilköy, Istanbul, Turkey. Contact: Emel Kılınç, International Project Director. Messe Stuttgart Ares Fuarçılık Ltd. Şti. Tekstil Kent A11 Blok No: 51 Esenler 34235 İstanbul, Turkey. Tel: +90 (212) 284 1110, Fax: +90 (212) 284 1001, E-mail: emel.kilinc@messe-stuttgart.com.tr, info@messe-stuttgart.com.tr, Web: www.messe-stuttgart.com.tr, www.ibatech.com.tr.

April 9-12

“International Sorghum Conference, "Sorghum in the 21st Century"”.

Cape Town, South Africa.

Contact: Email: Kira Valentin-Everhart (kevalentin@ksu.edu) or John Taylor, (john.taylor@up.ac.za), Web: <https://21centurysorghum.com>

April 9-13

“122st Annual IAOM, International Association of Operative Millers, Conference & Expo”.

Renaissance Atlanta Waverly Hotel & Convention Center.

Atlanta, GA, USA.

Contact: IAOM, International Association of Operative Millers.

12351 W. 96th Terrace, Suite 100 Lenexa, Kansas 66215, USA.

Tel: +1 (913) 338 3377, Fax: +1 (913) 338 3553,

E-mail: info@iaom.info, Web: www.iaom.info

April 12-15

“IBATECH 2018,

11th International Trade Fair for Bakery, Patisserie Machinery, Ice Cream, Chocolate and Technologies”.

Istanbul Fair Center, CNR Expo. Yeşilköy, Istanbul, Turkey.

Contact: Ms. Funda Kunduz. Messe Stuttgart Ares Fuarçılık Ltd. Şti.

Tekstilkent A 11 Blok No: 51 Esenler 34235 İstanbul, Turkey.

Tel: +90 (212) 284 1110, Fax: +90 (212) 284 1001,

E-mail: funda.kunduz@messe-stuttgart.com.tr, info@messe-stuttgart.com.tr,

Web: www.messe-stuttgart.com.tr, www.ibatech.com.tr

April 19-21

“The 4th International Symposium on “Traditional Foods from Adriatic to Caucasus”.

Kyrenia, TRNC.

Contact: Email: tf2018@traditionalfoods2018.com,

Web: <http://traditionalfoods2018.com/>

April 25-28

“World Mill Tech 2018,

World Milling Machinery Technologies and Side Industry Fair”.

TÜYAP Fair and Congress Center. Büyükçekmece, Istanbul, Turkey.

Contact: Arzu Fırat Özener, Project Group Director. Tuyap Fairs Inc.

E-5 Karayolu Üzeri, Cumhuriyet Mahallesi, Eski Hadımköy Yolu Caddesi 9/1,

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Pictures from the NC-213 Annual Meeting 2018

