

Grain Quality Newsletter

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

Volume 39:1

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

NC-213 Annual Meeting/Technical Sessions/Poster Showing – People’s Choice Award in Review

At this year’s NC-213 Annual Meeting/Technical Sessions/Poster Showing – People’s Choice Award, participants enjoyed sharing research that was presented during the technical sessions held February 26-27, 2019 in Ames, Iowa. 23 Presentations were given by students, professors, members of industry and U.S.D.A. agencies. The meeting was held at the Gateway Hotel & Conference Center at Iowa State University.

This year’s Poster Showing – People’s Choice Award yielded 18 posters and resulted in a “tie” in voting. The winning posters were presented by Ruben Chavez, University of Illinois-Urbana and Guy Roger Aby, Iowa State University. This year was the second year that Students who registered paid a nominal fee that included all the benefits of a two-day registration fee. We began this “Student” registration 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. This year’s registration numbers were the highest in 20 years with 57 registrations. NC-213 Chair, Anton Bekkerman, Montana State University, announced the People’s Choice Award winners.

The Andersons Awards portion of the meeting was chaired by NC-213 Past Chair, Sam McNeill, University of Kentucky, who presented the winner of the 2019 Andersons Cereals and Oilseeds Award of Excellence. The winner of this award was Frank Arthur, Professor, USDA, GMPRC, Manhattan, Kansas.

NC-213 Objective Co-Chair, Gretchen Mosher, Iowa State University, orchestrated a tour of facilities at ISU. Here are the tour highlights:

On the morning of Tuesday, February 26, the Campus tour started at 8:30AM. The first tour stop was the Grain Quality Lab – National Swine Research Institute (NSRIC). From there, the group visited the Center for Crops Utilization Research (CCUR) - Food Science Building. The tour’s last stop was the Feed Technology Lab - Sukup Hall.

Chuck Hill, NC-213 Industry Advisory Committee, AgriGold, along with Hayes Charles, Iowa Corn Processors and Mark Macrander, Ingredion, were on the Annual Industry Panel sharing beneficial discussion between Industry and Land Grant Institutions.

In preparation for the meeting, the NC-213 Administrative Advisor’s Office updated two publications; “History of NC-213” and “2018 Annual Progress Reports from Participating Stations.” NC-213 would like to extend a special; “Thank you” to Gretchen Mosher and her Students who hosted the meeting.

Pictured:

Frank Arthur, 2019 Andersons Cereals and Oilseeds Award of Excellence

Guy Roger Aby and Ruben Chavez, People’s Choice Awardees

Anton Bekkerman, NC-213 Chair

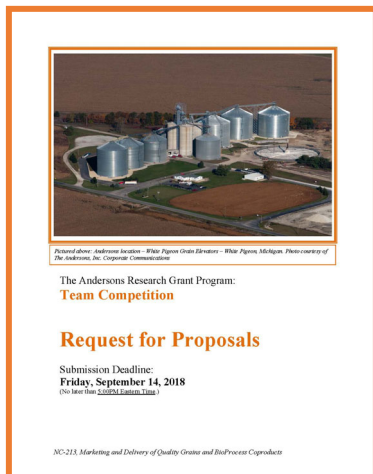
Griffiths Atungulu, In coming NC-213 Chair



Issued February 2019

Visit the NC-213 website at: nc213.org

The Andersons Research Grant Program – Team Competition 2018 Winning Proposals Announced!



Title: "Characterizing Protein Digestibility and Celiac Antigenicity of Historical and Modern Wheats."

Project Contact – Lead Principal Investigator:

Devin Rose, Department of Food Science & Technology, University of Nebraska-Lincoln.

Team Principal Investigators and Institutions:

Stephen Baenziger, University of Nebraska-Lincoln, along with Kaustav Majumder and Melanie Downs.

Senay Simsek, North Dakota State University, along with Andrew Green.

Please join the NC-213 Administrator Advisor/Coordinator, David A. Benfield, in congratulating these individuals and their proposals.

NC-213 Researcher Shares Publications

Dr. Frank Arthur
Research Entomologist
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Manhattan, KS 66502

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www.ars.usda.gov/pa/cgahr/spieru/arthur

USDA-ARS-CGAHR-SPIERU
ATTN: Frank Arthur

Telephone: 785.776.2783

This list of publications includes papers where Frank Arthur was junior author as well. D. Scheff is their post-doc, W. Rob Morrison is a relatively new scientist at their Center, both attended our NC-213 Annual Meeting/Technical Sessions 2018.

Relevant Publications

Morrison III, W. R., R. V. Wilkins, A. Gerken, D. S. Scheff, K. Y. Zhu, F. H. Arthur, and J. F. Campbell. 2018. Movement and dispersal of adult *Tribolium castaneum* (Coleoptera: Tenebrionidae) and *Rhyzopertha dominica* (Coleoptera: Bostrichidae) after exposure to long-lasting insecticide netting. J. Econ. Entomol. 111: 2443-2453.

Scheff, D. S., F. H. Arthur, and J. F. Campbell. 2018. Aerosol dispersal patterns and the effect on *Tribolium confusum* adult knockdown and mortality. J. Econ. Entomol. 115: 2435-2442.

Athanassiou, C. G., F. H. Arthur, N. G. Kavallieratos, and K. L. Hartzler. 2018. Susceptibility of different life stage of *Tribolium confusum* and *Oryzaephilus surinamensis* to cold treatment. J. Econ Entomol. 111: 1481-1485.

Scheff, D. S., B. Subramanyam, F. H. Arthur, and H. Dogan. 2018 *Plodia interpunctella* and *Trogoderma variabile* larval penetration and invasion of methoprene-treated packaging. J. Stored Prod. Res. 78: 74-82.

Arthur, F. H., M. Ghimire, S. E. Myers, and T. W. Phillips. 2018. Evaluation of pyrethroid insecticides and insect growth regulators applied to different surfaces for control of *Trogoderma granarium* Everts the khapra beetle. J. Econ. Entomol. 111: 612-619.

Athanassiou, C. G., F. H. Arthur, and K. Hartzler. 2018. Efficacy of low temperatures against all life stages of *Plodia interpunctella* (Hubner) (Coleoptera: Pyralidae) and *Liposcelis bostrychophila* Badonnel (Psocoptera: Liposcelididae). J. Pest. Science 91: 1363-1369.

Arthur, F. H., J. F. Campbell, D. Brabec, G. R. Ducatte, and J. E. Donaldson. 2018. Aerosol insecticide distribution inside a flour mill: Assessment using droplet measurements and bioassays. J. Stored Prod. Res. 77: 26-33.

Scheff, D., S., F. H. Arthur, and J. F. Campbell. 2018. Fecundity of *Tribolium castaneum* and *Tribolium confusum* adults after exposure to deltamethrin packaging. J. Pest. Sci. 91: 717-725.

Wijayaratne, L. K. W., F. H. Arthur, and S. Whyard. 2018. Methoprene and control of stored- product insects. J. Stored Prod. Res. 76: 161-169.

Arthur, F. H. 2018. Residual efficacy of deltamethrin as assessed by rapidity of knockdown of *Tribolium castaneum* on a treated surface: temperature and seasonal effects. J. Stored Prod. Res. 76: 151-160.

Arthur, F. H. and K. Hartzler. 2018. Susceptibility of selected stored product insects to a combination treatment of pyriproxyfen + novaluron. J. Pest Sci. 91: 699-705.



International Calendar of Events

March 2019

March 20 – 23

“IDMA 2019 - 8th International Flour, Semolina, Rice, Corn, Bulghur, Feed Milling Machinery and Pulse, Pasta, Biscuit Technologies Exhibition”. Istanbul Expo Center (CNR Expo) / Halls 9-10-11. Yeşilköy, Istanbul, Turkey.

Contact: PARANTEZ Uluslararası Fuar A.Ş. Gökevler Mah. 2312 Sok. Ginza Corner Plaza, No: 16/37 Esenyurt, Istanbul, Turkey. Tel: +90 (212) 347 3164 (PBX), Fax: +90 (212) 212 0204, E-mail: info@idma.com.tr, Web: www.idma.com.tr

March 26 – 27

“Gluten Free and Free From Conference”. Campden BRI. Station Rd, Chipping Campden, Gloucestershire, UK. GL55 6LD.

Contact: Training Department, Campden BRI. Tel: +44 1386 842000, E-mail: training@campdenbri.co.uk, Web: www.campdenbri.co.uk

March 26 – 28

“ProFood Tech, The Processing Event for Food & Beverage”. McCormick Place. Chicago, IL, USA.

Contact: PMMI, The Association for Packaging and Processing Technologies. 11911 Freedom Drive, Suite 600, Reston, VA 20190, USA. Tel: +1 (571) 612 3200, E-mail: expo@pmmi.org, Web: www.profoodtech.com

March 27 – 28

“Trends and Innovations – A Sosland Publishing Seminar”. McCormick Place. Chicago, IL, USA.

Contact: Christina Sullivan, Event Coordinator. Sosland Publishing Company. 4801 Main St., Suite 650, Kansas City, MO 64112-2513, USA. Tel: +1 (816) 756 1000/871, E-mail: csullivan@sosland.com, Web: http://www.soslandtrends.com

March 31 – April 02

“SNAXPO 2019”. Gaylord Palms Resort and Convention Center. Orlando, FL, USA.

Contact: Abby Valentino, SNAC International. Tel: +1 (703) 836-4500 ext. 201, E-mail: avalentino@snacintl.org, Web: www.snaxpo.com

April 2019

April 1 – 3 April

“Global AgInvesting 2019 Conference”. Grand Hyatt New York. New York City, NY, USA.

Contact: Kate Westfall, HighQuest Group. 300 Rosewood Drive, Suite 260, Danvers, MA 01923, USA. Tel: +1 (978) 887 8800, E-mail: kwestfall@globalaginvesting.com, Web: www.globalaginvesting.com

April 3 – 6

“2nd International Biscuit People Conference”. Pula, Croatia.

Contact: Biscuit People Platform. Web: <https://conference.biscuitpeople.com/>

April 7 – 10

“2019 ABA, American Baker’s Association, Convention”. The Ritz-Carlton Naples. Naples, FL, USA.

Contact: The American Baker’s Association, ABA. 601 Pennsylvania Ave., NW, Suite 230, Washington, D.C. 20004, USA. Tel: +1 (202) 789 0300, E-mail: info@americanbakers.org, Web: www.americanbakers.org

April 10 – 11

“XVI. International Conference “Black Sea Grain-2019’. Intercontinental Hotel. Kyiv, Ukraine.

Contact: UkrAgroConsult. Tel/Fax +38 (044) 364-55-85, E-mail: conference@ukragroconsult.org, Web: www.ukragroconsult.com/bsg/2019/en/conference

April 15 – 17

“18th European Young Cereal Scientists and Technologists Workshop”. University of Camerino. San Benedetto del Tronto, Italy.

Contact: E-mail: cerealsandeuropa@scisoc.org, fatma.boukid@unipr.it Web:

<http://www.aaccnet.org/membership/sections/CerealsandEurope/EYCSTW/Pages/18thEYCSTW.aspx>

April 15 – 19

“123rd Annual IAOM, International Association of Operative Millers, Conference & Expo”. Hilton Denver City Center. Denver, CO, USA.

Contact: International Association of Operative Millers, IAOM. 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 17 – 19

“2019 AACCI Milling & Baking Division Spring Technical Conference”. Holiday Inn Town Lake. Austin, TX, USA.

Contact: E-mail: aacc@scisoc.org, Web: www.aaccnet.org

April 22 – 24

“3rd Edition of International Conference on 2nd Food Technology: “Advancing the biotechniques and scientific research into Food Technology”. Athens, Greece.

Contact: Maryam Nicolas, Meeting Producer. EuroSciCon. London, UK. Tel: +44-2033182512, E-mail: foodtechnology@eurosciconconferences.com, Web: <https://food-technology.euroscicon.com/>

April 24 – 25

“19th ICC Conference – Science meets Technology”. BOKU University. Vienna, Austria.

Contact: ICC - International Association for Cereal Science and Technology. General Secretariat. Marxergasse 2 A-1030 Vienna, Austria. Tel: +43 1 7077202 271, Fax: +43 1 7077202 300, E-mail: office@icc.or.at, Web: www.icc.or.at, www.icc.or.at/events/16-icc-symposium

April 24 – 28

“5th International Poultry Meat Congress”. Starlight Convention Center & Sunrise Park Resort. Antalya, Turkey.

Contact: Papyon Event Agency. Tel: +90 (216) 349 5062, Fax: +90 (216) 349 5047, E-mail: congress@poultrymeatcongress.com, Web: www.poultrymeatcongress.com

April 25 – 28

“Turkish Flour Industrialists’ Federation, 15th International Congress and Exhibition”. Sueno Deluxe Hotel Belek. Antalya, Turkey.

Contact: Turkish Flour Industrialists’ Federation, TFIF. Üniversiteler Mahallesi 1598. Cadde A3 Plaza No: 33 Bilkent Plaza Bilkent, 06800, Ankara, Turkey. Tel: +90 (312) 440 0454, 440 0923, 440 0948, Fax: +90 (312) 440 0364, E-mail: bilgi@tusaf.org, Web: http://tusaf2019.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@tusaf2019.org, www.serenas.com.tr

April 29 April – May 1 May

“Global Grain MENA” JW Marriott Marquis Dubai. Dubai, UAE.

Contact: Euromoney Institutional Investor PLC. Tel: + 44 (0) 20 7779 7222, E-mail: info@ggrain.com, registration@ggrain.com, Web: www.globalgrainevents.com

May 2019

May 10 – 11

“Tortilla Industry Association, T.I.A. Annual Convention”. Mandalay Bay Resort. Las Vegas, NV, USA.

Contact: Tortilla Industry Association. 1400 North 14th Street, Arlington, VA 22209, USA. Tel: +1 (301) 367 8200, Fax: +1 (800) 944 6177, E-mail: info@Tortilla-Info.com, Web: www.tortilla-info.com

May 15 – 18

“Ecology Izmir Fair”. Fuar İzmir - Gaziemir International Fair Area. Izmir, Turkey.

Contact: Suleyman Demir, Sales & Marketing. IZFAS. Tel: +90 (232) 497 1297, Fax: +90 (232) 497 1022, E-mail: suleyman.demir@izmirfair.com.tr, Web: http://ekolojiizmir.izfas.com.tr

May 16 – 18

“Biofach China”. Shanghai, China.

Contact: E-mail: info@biofach-world.com, Web: www.biofach-china.com

May 30 – June 2 June

“36th A.I.B.I. Congress”. Manchester, United Kingdom.

Contact: Mrs. Susanne Döring, Secretary General. AIBI – International Association of Plant Bakers – aisbl. Grand Place 10, B-1000 Brussels, Belgium. Tel: 0032-2-361 1900, Fax: 0032-2-381 1800, E-mail: sd@aibi.eu, Web: www.aibi.eu

June 2019

June 2 – 5

“Institute of Food Technologists Annual Meeting and Food Expo”. New Orleans Morial Convention Center. New Orleans, LA, USA.

Contact: IFT. 221 N. LaSalle St. Suite 300, Chicago, IL 60601–1291, USA. Tel: +1 (312) 782 8424, Fax: +1 (312) 782 0045, E-mail: info@ift.org, Web: www.ift.org

June 4 – 7

“XX International Grain Round “Grain Market — yesterday, today, tomorrow”. Gelendzhik, Russia.

Contact: Russian Grain Union. Tel: +7 (495) 369-44-53, E-mail: tag@grun.ru, tds@grun.ru; Web: www.grun.ru/en

June 5 – 8 June

“Biofach America Latina, Bio Brazil Fair”. Sao Paulo, Brasilia.

Contact: E-mail: info@biofach-world.com, Web: www.biofach-americalatina.com

June 9 – 11

“42th Annual Sosland Purchasing Seminar”. Palmer House Hilton. Chicago, IL, USA.

Contact: Christina Sullivan, Event Coordinator. Sosland Publishing Company. 4801 Main St., Suite 650, Kansas City, MO 64112-2513, USA. Tel: +1 (816) 756 1000/871, E-mail: csullivan@sosland.com, Web: www.purchasingseminar.com

NC-213 Objective Co-Chair Self-Nominations Being Accepted!

NC-213 is looking to fill a vacancy for the position of Objective 2 Co-Chair; “To improve management and operational systems to increase efficiency, retain quality, enhance value, and preserve food safety in the farm-to-user supply chain.” Each Objective has two Co-Chairs, so the newly appointed Co-Chair will have a “mentor” to help in learning the ropes!

Below is a list of Responsibilities for each Objective Co-Chair:

- Each Objective is chaired by two Co-Chairs. Each co-chair is elected for a two-year term. Co-Chairs can be reelected for consecutive terms.
- Organize and moderate oral reporting sessions for their objectives at the Annual meeting.
- Facilitate revisions to their objectives in NC-213 five-year work plan.
- Serve on Executive Committee.
- Coordinate communications between administrators and members of that Objective team.
- Participate in Executive Committee meetings, contributing to decisions involving organizational, policy, and meeting topics (Annual meeting).
- Forward newsworthy items identified by researchers at their respective stations to the Administrative Advisor/Coordinator.
- Each Objective Co-Chair will provide at least one item per year for the newsletter, either their own work or a report from someone else within the Objective.
- Serve on the Andersons Grant Review Committee unless a conflict of interest exists.

This is an excellent opportunity for a Member of NC-213 (Must be on the Appendix E) to gain more involvement in the project and to learn and grow, possibly leading to the position of Chair.

Questions? Please contact Bill Koshar, NC-213 Administrative Support