

Bosphorus 2008—Connecting Cereal Science and Industry Where the Continents Meet

HAMIT KÖKSEL¹ AND ARZU BASMAN²

ICC International Conference: Bosphorus 2008 was organized by the International Association for Cereal Science and Technology (ICC) and Hacettepe University (ICC's national representation) and held on April 24–26, 2008, in Istanbul, Turkey. Bosphorus 2008 was planned to connect the East and West in Istanbul, right at the crossroad of different continents and cultures. It was the first major scientific event jointly organized by ICC in Turkey and surrounding countries. The conference was endorsed by MoiniQA, Healthgrain, AACC International, and Cereals & Europe (C&E).

Bosphorus 2008 had more than 300 participants from 30 countries, addressing researchers, manufacturers, policymakers, regulatory bodies, industries, SMEs, as well as students and professionals who would like to get up-to-date with modern technology and establish international collaborations. Areas of interest included food production, grain/crop breeding and growing, milling, baking, and food processing. The event was an excellent opportunity for networking and extending cooperation.

The focus of this international conference was the marketing and development of innovative cereal products meeting society's and consumers' needs in convenience, taste, nutrition, health, safety, and security. Topics included exploiting new raw materials and new technologies, producing functional foods in a legal framework of health claims, new ingredients, and elements for fortification. The total number of oral presentations was 70 (24 invited, 27 oral, and 19 short oral presentations), and more than 100 posters were available for viewing.

The Organizing Committee consisted of Roland E. Poms (ICC, Austria), Hamit Köksel (Hacettepe University, Turkey), Ümran Uygun (Hacettepe University, Turkey), Arzu Basman (Hacettepe University, Turkey), and Anita Habershuber (ICC, Austria).

The following Scientific Committee members attended the conference: Joel Abecassis (France), M. Hikmet Boyacioglu (Turkey), Stanley Cauvain (UK), Sueda Celik (Turkey), James E. Dexter (Canada), Adem Elgun (Turkey), (Fatih Ertugay, Turkey), Wang Fengcheng (China), Senol Ibanoglu (Turkey), Jan Willem van der Kamp (Holland), Ahmet Kaya (Turkey), Hamit Köksel (Turkey), Meinolf G. Lindhauer (Germany), Perry K.W. Ng (USA), Dilek Sivri Özay (Turkey), Özen Özboy Özbas (Turkey), Maria Papageorgiou (Greece), Roberto Javier Pena (Mexico), Roland E. Poms (Austria), Serpil Sahin (Turkey), Gulum

Sumnu (Turkey), Sandor Tömösközi (Hungary), and Sezgin Unal (Turkey).

Opening Ceremony and Plenary Lectures

During the opening ceremony, Hamit Köksel and Roland E. Poms (ICC, Austria) welcomed the participants. The plenary lecture was given by James E. Dexter (Canadian Grain Commission, Canada) who spoke about "Recent durum wheat research at the Canadian Grain Commission," and an invited lecture was given by Jan Willem van der Kamp (TNO, the Netherlands) entitled "The growing success of (whole) grain products endorsed by nutrition and health claims."

Session I—New Markets & International Trade for Cereal Products

Session I was co-chaired by Roland Poms and Wolfgang Kneifel. Hans-Joachim Braun (CIMMYT, Mexico), Pekka Lehtinen (VTT, Finland), Edip H. Aktas (Flour Millers Association, Turkey), and Nevzat Artık (Ministry of Agriculture & Rural Affairs, Turkey) discussed wheat quality improvement, healthy cereal foods, new markets, international trade, and legal aspects of cereal products.

Session II—Food Safety

Session II was chaired by Jan Willem van der Kamp. Roland E. Poms (Austria), Gerhard Schiefer (University of Bonn, Germany), and Wolfgang Kneifel (BOKU, Austria) discussed various aspects of food safety and risk management.

Session IIIa—Functional Cereal Foods, Developing New Ingredients

Session IIIa was co-chaired by Rob Hamer and Radomir Laszty. Vincenzo Fogliano (University of Napoli "Frederico II," Italy), Vural Gokmen (Hacettepe University, Turkey), Meinolf G. Lindhauer (Fed. Res. Inst. for Nutr & Food, Germany), and Dilek Austin (Texas A&M University, USA) discussed dietary fiber and antioxidative properties of various cereals.

Session IIIb—Quality Control/Assessment of Cereals and Milling Products

Session IIIb was co-chaired by Jim Dexter and Roberto J. Pena. Perry K.W. Ng (Michigan State University, USA), Sandor Tomoskozi (Budapest University of Technology and Economics, Hungary), Murat Olgun, (Kocatepe University, Turkey), and Ghassan H. El-Khayat (University of Damascus, Syria) discussed different issues in the evaluation of cereal quality.

Session IVa—Fortification and Biofortification

Session IVa was co-chaired by Joel Abecassis and Dilek Boyacioglu. Paul Finglas (IFR, UK), Roberto J. Pena (CIMMYT, Mexico), İsmail Çakmak (Sabanci University, Turkey), and Vilma Tyler (Emory University, USA) discussed fortification, biofortification, and mineral availability.

¹ Member, ICC International Conference Bosphorus 2008 Organizing and Scientific Committees, Hacettepe University, Turkey.

² Member, ICC International Conference Bosphorus 2008 Organizing Committee, Hacettepe University, Turkey.

Session IVb—New Trends in Cereal Breeding and Agronomic Practices

Session IVb was co-chaired by Hans-Joachim Braun and Adem Elgün. Ravindra N. Chibbar (University of Saskatchewan, Canada), Domenico Lafiandra (University of Tuscia, Italy), Alexey Morgounov (CIMMYT, Turkey), and Hikmet Budak (Sabanci University, Turkey) discussed new approaches in cereal breeding and agronomy.

Session Va—Quality Evaluation of Cereal Products

Session Va was co-chaired by Domenico Lafiandra and Hamit Köksel. Rob Hamer (WCFS, the Netherlands), Bruce R. Hamaker (Purdue University, USA), Alexandrina Sirbu (Constantin Brancoveanu University, Romania), Ismail S. Dogan (Yuzuncu Yil University, Turkey), and Emin Dönmez (Field Crops Research Institute, Turkey) covered crispness, gluten-free bread, reduced-fat cake, whole wheat bread, and the role of phospholipase in breadmaking.

Session Vb—New Technologies in Cereal Processing and Analysis

Session Vb was co-chaired by Ravi Chibbar and Hikmet Boyacıoğlu. Joel Abecassis (INRA, France), Vanessa Jury (Nantes Atlantique Universités, France), S. H. Peighambari (University of Tabriz, Iran), Hiro Nakamura (Tohoku National Agricultural Experiment Station, Japan), and A. J. van der Goot (Wageningen University, the Netherlands) discussed new technologies in cereal processing (milling, baking, gluten separation) and analysis.

Session VIa—New Analytical Methods

Session VIa was co-chaired by Vincenzo Fogliano and Meinolf G. Lindhauer. Hans Mol (RIKILT Institute of Food Safety, the Netherlands), Martin Scanlon (University of Manitoba, Canada), Małgorzata Szulc (EC JRC, Belgium), and David L. Wetzel (Kansas State University, USA) discussed advances in instrumental analysis of food, ultrasonic techniques, two-dimensional differential gel electrophoresis, infrared microspectroscopy, and imaging in cereal research.

Session VIb—Technical Session

Session VIb was co-chaired by Noyan Erik and Ergin Ünver. Jens Dreisoerner (Brabender GmbH & Co, Germany), Jürgen Möller (Foss, Sweden), Aybek Kali (Altintas-Obial, Turkey), Okçul Barlık (Ugur Group, Turkey), and Gunnar Nilsson (Perten, Sweden) presented on their products and applications.

Session VII—Food Safety: Regulations and EU Funding

Session VII was chaired by Martin Scanlon. Frans Verstraete (EC, Belgium) and Petek Ataman (Chamber of Food Engineers, Turkey) discussed food safety and related regulations. Peter Ashby (Cereal Partners Worldwide, UK) gave a presentation on acrylamide in cereal products.

Session VIII—International Research and Collaboration

Session VIII was co-chaired by Bruce R. Hamaker and Sandor Tomoskozi. Stephen Webb (RTD Services, Austria), Rob Hamer (AACC Intl., C&E), and Radomir Lasztity (BUTE, Hungary) discussed the EC Seventh Framework Programme and roles of ICC and AACC Intl. in international collaboration.

Presentation Sessions

The first presentation session was co-chaired by Perry K.W. Ng and Arzu Basman, and moderated by Behiç Mert and Dilek Austin. Aysen Yumurtaci (TUBITAK-MAM, Turkey), Serpil Öztürk (Hacettepe University, Turkey), Ayşe Özbey (Hacettepe University, Turkey), Filiz Köksel (Middle East Technical University, Turkey), Özge Çetinkaya Açar (Hacettepe University, Turkey),

Tugrul Masatçıoğlu (Hacettepe University, Turkey), Arda Serpen (Hacettepe University, Turkey), and Asuman Kaplan Evlice (Central Research Institute for Field Crops, Turkey) gave short presentations on their research projects.

The second session was co-chaired by Fahrettin Gögüs and Özen Özboy Özbay and moderated by Erkan Yalçın. Mehmet Köten (Harran University, Turkey), Burçe Ataç (Hacettepe University, Turkey), Gül Akillioglu (Ege University, Turkey), Ay-tunga Arik (Hacettepe University, Turkey), and S. Özge Keskin Özkoç (TUBITAK-MAM, Turkey) gave short presentations on their research projects.

The third session was co-chaired by Gülüm Sumnu and Senol Ibanoglu and moderated by Dilara Nilüfer Erdil and Duygu Göçmen. Esen Sokullu (Hacettepe University, Turkey), Özlem Çagindi (Ege University, Turkey), Seçil Türksöy (Ankara University, Turkey), and E. Burçin Özvural (Hacettepe University, Turkey) gave short presentations on their research projects.

Awards

The ICC Oscar Award was given to Norman E. Borlaug (CIMMYT, Mexico). Hans-Joachim Braun (CIMMYT, Mexico) accepted the award on behalf of Borlaug. Walter Bushuk (University of Manitoba, Canada), Radomir Lásztity (Technical University, Hungary), Helmut Glattes (Former General Secretary/CEO of ICC, Austria), and Kamil Yakar (Central Research Institute for Field Crops, Turkey) received distinguished achievement awards from ICC and Hacettepe University.

Best Poster Awards

Posters were evaluated by the following committee members: Meinolf G. Lindhauer (Germany), Sueda Celik (Turkey), Ravindra N. Chibbar (Canada), Paul Finglas (UK), Vincenzo Fogliano (Italy), Roberto J. Pena (Mexico), and Serpil Sahin (Turkey).

Five, equally rated best poster awards were given to the following presenters: A. Mihhalevski, Competence Center of Food and Fermentation Technologies, Tallinn, Estonia (“Study of rye bread staling”); N. Yilmaz, Department of Food Engineering, Canakkale Onsekiz Mart University, Canakkale, Turkey (“Alternative technologies to maize drying”); A. Altan, Department of Food Engineering, University of Gaziantep, Gaziantep, Turkey (“Production of healthy extruded snacks from composite of barley and fruit by-products”); F. Basinci, Department of Food Engineering, Hacettepe University, Beytepe, Turkey (“Utilization of resistant starch preparations in reduced fat cakes”); and E. Yalcin, Department of Food Engineering, Abant İzzet Baysal University, Golkoy, Bolu, Turkey (“Resistant starch and β -glucan contents of hullless barley flour incorporated corn extrudates”).

The awardees received books presented by Rob Hamer, Radomir Lasztity, Jan Willem van der Kamp, and Jim Dexter. In addition, they also received free attendance certificates for the next ICC conference.

Sponsors and Student Supporters

The Organizing Committee gratefully acknowledged the platinum sponsors (Obial, Ugur Machine, Ulker, Turkish Grain Board, and TUBITAK), gold sponsors (Duru Bulgur, Arbel), silver sponsors (Doruk, Brabender, Chopin, Perten), and bronze sponsors (Anamed, Bastak, TAB, Yenar, Integro) for their financial support of this event. The Organizing Committee also gratefully acknowledged Hacettepe University students who greatly contributed to the success of the meeting. Twenty-seven companies supported approximately 100 students by covering their registration fees. The major contributors included DSM, FOSS, and Istanbul and Ankara Metropolitan Municipality Bread Factories.