



FORUM PROGRAM*

As of 11/23/05

2005 National Fusarium Head Blight Forum

Hilton Milwaukee City Center

Milwaukee, WI

December 11-13, 2005

Sunday, December 11th

9:00 a.m. – 5:00 p.m. – REGISTRATION (*Location: The Crystal Ballroom Foyer near the marble staircase, 5th Floor*)

9:30 a.m. – 12:45 p.m. – Authors set up posters (*Location: Wright Ballroom, 4th Floor*)

1:00 p.m. – **Opening Remarks** – Tom Anderson, Co-chair, USWBSI

SESSION 1: HOST PLANT RESISTANCE AND VARIETY DEVELOPMENT (HPR/VD) SESSION

(*Location: Empire Ballroom, 5th Floor*)

CHAIRPERSON: Paul Murphy, North Carolina State University, Raleigh, NC, USA

1:05 p.m. – Mike Davis, American Malting Barley Association, Milwaukee, WI, USA
Impact of Fusarium Head Blight (Scab) on the Midwest Malting Barley Industry.

1:25 p.m. – Kevin Smith, Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN, USA
Evaluation of Breeding Strategies for Enhancing FHB Resistance in Barley.

1:45 p.m. – Anne McKendry, Department of Agronomy, University of Missouri, Columbia, MO, USA
Sources of Fusarium Head Blight Resistance in Wheat: Diversity and Utilization.

* Oral Presentations will take place in the Crystal Ballroom. Poster presentations will be held in the Wright Ballroom.

Sunday, December 11th (cont.)

2:05 p.m. – Carl Griffey, Dept. of Crop & Soil Environmental Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Identification and Incorporation of FHB Resistance in Winter Wheat -- An Overview of Progress and Strategies.

2:25 p.m. – Xiwen Cai, Dept. of Plant Sciences, North Dakota State University, Fargo, ND, USA

The Alien Gene could be one of the ‘Fighters’ against Fusarium Head Blight in Wheat.

2:45 p.m. – Mohamed Mergoum, North Dakota State University, Fargo, ND, USA

Enhancing Fusarium Head Blight Resistance in Spring Wheat: A Glance into Success and Challenges.

3:05 p.m. – Tomohiro Ban, CIMMYT, MEXICO

CIMMYT’s Challenges for Global Communication and Germplasm Enhancement for FHB Resistance in Durum and Bread Wheat.

3:25 p.m. – Elias Elias, Department of Plant Sciences, North Dakota State University, Fargo, ND, USA

Breeding Efforts to Develop Fusarium Head Blight Resistant Durum Wheat in North Dakota.

3:45 p.m. – BREAK (*Location: Crystal Ballroom Foyer*)

4:00 – 6:15 p.m. – HPR/VD and GET Poster Session¹ (*Location: Wright Ballroom, 4th Floor*)
(Authors are asked to be at their posters.)

5:45 p.m. – RECEPTION (*Location: The Crystal Ballroom Foyer and the Regency Ballroom*)
Sponsored by Miller Brewing Company, Anheuser-Busch, Sierra Nevada, Sygenta and Westbred, LLC.

6:45 p.m. – DINNER (*Location: The Crystal Ballroom, 5th Floor*)
Sponsored by Bayer CropScience

8:00 p.m. – Breakout Session for EEDF Research Area (*Location: Mitchell, 4th Floor*)
Topic: FHB Disease Forecasting Models.

8:00 p.m. – Breakout Session for Research Technicians and Graduate Student (*Location: Walker, 4th Floor*)
Topic: Procedures in FHB Research: an informal exchange of ideas and protocols for technicians & graduate students.

¹ This pertains only to authors with posters assigned to research area session.

Sunday, December 11th (cont.)

8:00 p.m. – Breakout Session for PGG Research Area (*Location: Juneau, 5th Floor*)

Topic: Genes, Genome, and Functional Genomics of *F. graminearum*.

Monday, December 12th

6:00 – 8:00 a.m. – BREAKFAST– Continental Buffet (*Location: The Regency Ballroom*)

9:00 a.m. –5:00 p.m. – REGISTRATION (*Location: The Crystal Ballroom Foyer near the marble staircase, 5th Floor*)

SESSION 2: GENETIC ENGINEERING AND TRANSFORMATION (GET) SESSION (*Location: The Crystal Ballroom, 5th Floor*)

CHAIRPERSON: Ron Skadsen, USDA-ARS, Madison, WI, USA

8:00 – 9:00 a.m. – HPR/VD and GET Poster Session (*Location: Wright Ballroom, 4th Floor*)
(**Authors are asked to be at their posters.**)

9:05 a.m. – Nilgun Tumer, Biotech Center, Rutgers University, New Brunswick, NJ, USA
Modification of Ribosomal Protein L3 Confers Resistance to Deoxynivalenol.

9:30 a.m. – Jyoti Shah, Division of Biology, Kansas State University, Manhattan, KS, USA
Engineering Scab Resistance in Wheat with Plant Defense Signaling Genes.

9:55 a.m. – Steve Scofield, Crop Production and Pest Control Unit, USDA-ARS, Peoria, IL, USA
A Virus-Induced Gene Silencing System for Analysis of Gene Function in Hexaploid Wheat.

10:20 a.m. – BREAK (*Location: The Crystal Ballroom Foyer, 5th Floor, and outside Wright Ballroom near Escalators, 4th Floor*)

SESSION 3: ETIOLOGY, EPIDEMIOLOGY AND DISEASE FORECASTING (EEDF) SESSION (*Location: The Crystal Ballroom, 5th Floor*)

CHAIRPERSON: Ruth Dill-Macky, University of Minnesota, St. Paul, MN, USA

10:35 a.m. – Erick De Wolf, Department of Plant Pathology, The Pennsylvania State University, University Park, PA, USA
Future Directions in the Development and Application of Risk Assessment Models for Fusarium Head Blight.

Monday, December 12th (cont.)

- 11:10 a.m. – Pierce Paul, Department of Plant Pathology, Ohio State University, Wooster, OH, USA
Relationship between FHB Index and DON: A Quantitative Synthesis of Eight Years of Research.
- 11:35 a.m. – Stephen Neate, Department of Plant Pathology, North Dakota State University, Fargo, ND, USA
Impact of Preharvest Management Strategies in Barley on FHB, Seed Colonization and DON.
- 12:00 p.m. – LUNCH (*Location: The Regency Ballroom*)
- 1:15 – 3:40 p.m. – EEDF/PGG Poster Session (*Location: Wright Ballroom, 4th Floor*)
(Authors are asked to be at their posters.)
- 3:25 p.m. – BREAK (*Location: The Crystal Ballroom Foyer, 5th Floor, and outside Wright Ballroom near Escalators, 4th Floor*)
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SESSION 4: PATHOGEN GENETICS AND GENOMICS (PGG) **SESSION** (*Location: The Crystal Ballroom, 5th Floor*)

CHAIRPERSON: Frances Trail, Michigan State University, East Lansing, MI, USA

- 3:45 p.m. – Jin-Rong Xu, Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN, USA
Functional Genomic studies of Pathogenicity in Fusarium graminearum.
- 4:20 p.m. – Nancy P. Keller, Department of Plant Pathology, University of Wisconsin, Madison, WI, USA
Strategies to Control Scab using RNAi Technology: Progress and Obstacles.
- 4:45 p.m. – John Leslie, Department of Plant Pathology, Kansas State University, Manhattan, KS, USA
Field Populations of Gibberella zeae.
- 5:10 p.m. – Session Adjourns
- 7:00 – 9:30 p.m. – Breakout Session: Genotyping Centers (*Location: Walker, 4th Floor*)
Contact Networking & Facilitation Office for details.
scabusa@scabusa.org
- 8:00 – 10:00 p.m. – Breakout Session for CCBC Research Area (*Location: Mitchell, 4th Floor*)
Topic: Uniform Trials and Integrated Control

Tuesday, December 13th

6:00 – 8:00 a.m. – BREAKFAST – Continental Buffet (*Location: The Regency Ballroom*)

7:45 – 9:15 a.m. – FSTU/CBCC Poster Session (*Location: Wright Ballroom, 4th Floor*)
(Authors are asked to be at their posters.)

SESSION 5: FOOD SAFETY, TOXICOLOGY AND UTILIZATION OF MYCOTOXIN-CONTAMINATED GRAIN (FSTU) SESSION

(*Location: The Crystal Ballroom, 5th Floor*)

CHAIRPERSON: Stephen Neate, North Dakota State University, Fargo, ND, USA

9:15 a.m. – Samuel Page, formerly with World Health Organization, Geneva, Switzerland
Perspectives on the Risk Assessment of the Trichothecene Mycotoxins.

9:55 a.m. – Susan McCormick, Mycotoxin Research Center, USDA-ARS, Peoria, IL, USA
The Trichothecene Triangle: Toxins, Genes, and Populations.

10:20 a.m. – BREAK (*Location: The Orchard Ballroom Foyer*)

SESSION 6: CHEMICAL, BIOLOGICAL AND CULTURAL CONTROL (CBCC) SESSION

CHAIRPERSON: Marty Draper, South Dakota State University, Brookings, SD, USA

10:40 a.m. – Marcia McMullen, Department of Plant Pathology, North Dakota State University, Fargo, ND, USA
Real World Results in FHB Management.

11:05 a.m. – David Schisler, USDA-ARS, Peoria, IL, USA
Fermentation and Formulation: Crucial Focus Areas for Expediting the Development of Biocontrol Products.

11:30 a.m. – David Hooker, Ridgetown College, University of Guelph, Ridgetown, ON, CANADA
Evolution of Spray Application Systems for Controlling Fusarium Head Blight in Ontario.

11:55 a.m. - 12:05 p.m. – Tom Anderson/Rick Ward
Update on the U.S. Wheat & Barley Scab Initiative