

# **FORUM PROGRAM**



**2011 National Fusarium Head Blight Forum**  
**Hyatt Regency St. Louis at the Arch**  
**St. Louis, Missouri, USA**  
**December 4-6, 2011**





U.S. Wheat & Barley  
Scab Initiative

## **Welcome to the 2011 National Fusarium Head Blight Forum!**

### **Forum Packet**

The following items are included in the Forum packet:

- ✓ Forum Program;
- ✓ Name Badge (Serves as ticket for meals, receptions and refreshment breaks; please wear at all times);
- ✓ Coupons for Breakfast at Red Kitchen; one for 12/5 and one for 12/6.
- ✓ List of Forum Participants;
- ✓ List of submitted posters sorted by research session and poster number.
- ✓ List of submitted posters sorted by corresponding author and proceeding page number;
- ✓ Poster Room Layout
- ✓ Layout of meeting space
- ✓ Announcement for 2012 National FHB Forum; and
- ✓ Suggestion Form

### **Meals & Refreshment Breaks**

The following meals are covered by the registration fee:

- ❖ Tuesday, 12/4:
  - PM Refreshment Break
  - Reception: Complimentary beer, wine and non-alcoholic beverages; cash bar for well drinks
  - Dinner - 6:30-8:00 pm
- ❖ Wednesday, 12/5:
  - Breakfast – Red Kitchen (present coupon to waiter; coupon includes gratuity)
  - Lunch – 12:15-1:30 pm
  - AM and PM Refreshment Breaks
  - Reception: Complimentary beer, wine and non-alcoholic beverages; cash bar for mixed drinks
- ❖ Thursday, 12/6:
  - Breakfast – Red Kitchen (present coupon to waiter; coupon includes gratuity)
  - AM Refreshment Break

# Proceedings

You should have received a copy of the proceedings when you checked in at the registration desk. If you did not receive a copy, please contact a staff member. Additional copies may be purchased for \$18.00.

## Posters

Authors may set up their posters in Regency Ballrooms A/B from 9:00 am – 12:45 pm on Sunday, December 4<sup>th</sup>. Posters must be setup prior to poster session. Although there are designated poster sessions (see below), posters should remain up throughout the duration of the Forum.

### Poster Sessions

### Time

VD-HPR

Sunday, Dec. 4<sup>th</sup>, 4:30-6:00 pm

Authors should be at their posters 4:45-5:30 pm

PBG and GDER

Monday, Dec. 5<sup>th</sup>, 11:00 am.-12:15 pm

Authors should be at their posters 11:15 am-12:00 pm

MGMT, FSTU  
& Other Papers

Monday, Dec. 5<sup>th</sup>, 4:30-6:00 pm

Authors should be at their posters 4:45-5:30 pm

## Hotel Amenities/Info

- Check-in: 3:00 PM; Check-out: 12:00 pm
- Free High Speed Internet access in guest rooms and meeting space
- Business Center/WiFi in public areas
- 24 hour Fitness Center – Stay Fit Health Club
- ATM
- Onsite Restaurants: Red Kitchen and Bar; Ruth's Chris Steakhouse, Brewhouse and Starbucks
- Hotel's address: 315 Chestnut Street., St. Louis, MO 63102

## Important Phone Numbers

Forum Office: (517) 290-5023

Hyatt Regency St. Louis at the Arch: (314) 655-1234

If you have any questions or need assistance, please ask any Forum staff member (look for blue ribbon on name badge).



# PROGRAM

## 2011 National Fusarium Head Blight Forum\*

Hyatt Regency St. Louis at the Arch

St. Louis, Missouri USA

December 4-6, 2011

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### FORUM Begins

#### Sunday, December 4<sup>th</sup>

8:30 am-5:00 pm	REGISTRATION <i>Location: Regency Ballroom Prefunction –outside of Regency B</i>
9:00 am-12:45 pm	Authors set up posters <i>Location: Regency Ballroom A/B</i>
1:00-1:35 pm	<b>Welcome and Keynote Speaker</b> <i>Location: Regency Ballroom C/D</i>  <b>Welcome</b> Dave Van Sanford, University of Kentucky, Lexington, KY, USA Co-Chair, U.S. Wheat & Barley Scab Initiative  <i>What is Happening to Barley, the Soul of Beer?</i> Ralph A. Judd III, ABInBev, St. Louis, MO, USA
1:40-4:30 pm	<b>SESSION 1: VARIETY DEVELOPMENT AND HOST PLANT RESISTANCE (VD-HPR)</b> <b>CO-CHAIRPERSONS:</b> Rich Horsley, North Dakota State University and Steven Xu, USDA-ARS, Fargo, ND <i>Location: Regency Ballroom C/D</i>  <i>New Sources of Resistance to FHB and Indicators of their Action</i> George Fedak, Agriculture and Agri-Food Canada, Ottawa, Ontario, Canada

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\*All speaker sessions will be held in Regency Ballroom C/D. All poster sessions will be held in Regency Ballroom A/B. Forum Office is located in Sterling 6.

**Sunday, December 4<sup>th</sup>** (*cont.*)

1:40-4:30 pm	<p><b>SESSION 1: VARIETY DEVELOPMENT AND HOST PLANT RESISTANCE</b> (<i>cont.</i>)</p> <p><i>FHB Resistance in Durum Wheat – Progress and Challenge</i> Xiwen Cai, North Dakota State University, Fargo, ND, USA</p> <p><i>Breeding for Scab Resistant Hard Winter Wheat: The Thrill of Victory and the Agony of Defeat</i> P. Stephen Baenziger, University of Nebraska, Lincoln, NE, USA</p> <p><i>Using Marker-Assisted Selection to Improve FHB Resistance in Hard Winter Wheat</i> Guihua Bai, USDA-ARS, Manhattan, KS, USA</p> <p><i>Genomic Selection for Fusarium Head Blight Resistance in Barley</i> Kevin Smith, University of Minnesota, St. Paul, MN, USA</p>
3:00-3:20 pm	<p><b>BREAK</b></p> <p><i>Location: Regency Ballroom Foyer</i></p>
4:30-6:00 pm	<p><b>VD-HPR Poster Session</b> (Authors with posters in this poster session should be at their posters from 4:45-5:30 p.m.)</p> <p><i>Location: Regency Ballroom A/B</i></p>
5:30-6:30 pm	<p><b>RECEPTION</b></p> <p><i>Location: Inside Regency Ballroom B and Regency Ballroom Foyer</i></p>
6:30-8:00 pm	<p><b>DINNER</b></p> <p><i>Location: Regency Ballroom E/F</i></p>

**Monday, December 5<sup>th</sup>**

6:30-8:15 am	<p><b>BREAKFAST</b> – Full Breakfast Buffet</p> <p><i>Location: Red Kitchen, Hotel Lobby</i></p>
8:00 am-4:30 pm	<p><b>REGISTRATION</b></p> <p><i>Location: Forum Office – Sterling 6</i></p>
8:00-9:15 am	<p><b>SESSION 2: PATHOGEN BIOLOGY AND GENETICS (PBG)</b></p> <p><b>CHAIRPERSON:</b> Ivan Rayment, University of Wisconsin</p> <p><i>Location: Regency Ballroom C/D</i></p> <p><i>Microbial Detoxifications of Deoxynivalenol (DON) and Their Potential Applications in Mitigating Mycotoxin Contaminations</i> Ting Zhou, Agriculture and Agri-Food Canada, Guelph, Ontario, Canada</p>

**Monday, December 5<sup>th</sup>** *(cont.)*

8:00-9:15 am	<b>SESSION 2: PATHOGEN BIOLOGY AND GENETICS</b> <i>(cont.)</i>  <i>Vegetative Compatibility - A Native Fungal Mechanism for Inducing Death in G. zeae</i> John Leslie, Kansas State University, Manhattan, KS, USA
9:15-9:40 am	<b>SESSION 3: GENE DISCOVERY AND ENGINEERING RESISTANCE (GDER)</b> <b>CHAIRPERSON:</b> Nilgun Tumer, Rutgers University <i>Location: Regency Ballroom C/D</i>  <b>Can Brachypodium Provide Insight into FHB?</b> Paul Nicholson, John Innes Center, Norwich, Norfolk, United Kingdom
9:40 am	<b>BREAK</b> <i>Location: Regency Ballroom Foyer</i>
9:55-11:00 am	<b>SESSION 3: GENE DISCOVERY AND ENGINEERING RESISTANCE</b> <i>(cont.)</i> <i>Location: Regency Ballroom C/D</i>  <b>Identification of Candidate Genes for Head Blight and Deoxynivalenol Resistance</b> Fiona Doohan, University College Dublin, Dublin, Ireland  <b>An Overview of Wheat Transformation at Kansas State University</b> Harold Trick, Kansas State University, Manhattan, KS, USA  <b>Ethylene-Signaling in Wheat is Essential for Type I and II Resistance to Fusarium graminearum and Tolerance to Deoxynivalenol</b> Megan Gillespie, Purdue University, West Lafayette, IN, USA
11:00 am-12:15 pm	<b>PBG and GDER Poster Session</b> (Authors with posters in this poster session should be at their posters from 11:15 am-12:00 pm) <i>Location: Regency Ballroom A/B</i>
12:15-1:30 pm	<b>LUNCH</b> <i>Location: Regency Ballroom E/F</i>
1:30-2:30 pm	<b>FOCUSED GROUP DISCUSSIONS</b>  <ul style="list-style-type: none"> <li>❖ <b>FHB Management (MGMT)</b>  <i>Location: Sterling 9</i>  <b>Facilitator:</b> Christina Cowger</li> <li>❖ <b>Food Safety, Toxicology &amp; Utilization of Mycotoxin-contaminated Grain (FSTU)</b>  <i>Location: Sterling 4</i>  <b>Facilitator:</b> Paul Schwarz</li> </ul>

**Monday, December 5<sup>th</sup>** (cont.)

1:30-2:30 pm	<p><b>FOCUSED GROUP DISCUSSIONS</b> (cont.)</p> <ul style="list-style-type: none"> <li>❖ <b>Gene Discovery &amp; Engineering Resistance (GDER)</b> <i>Location: Mills 6 (fourth floor – directly above Forum Office)</i> <b>Facilitator:</b> Steve Scofield</li> <li>❖ <b>Pathogen Biology &amp; Genetics (PBG)</b> <i>Location: Sterling 2</i> <b>Facilitator:</b> Frances Trail</li> <li>❖ <b>Variety Development and Host Resistance (VDHR) – Northern Soft Winter Wheat (NWW)</b> <i>Location: Regency C/D</i> <b>Facilitator:</b> Clay Sneller</li> <li>❖ <b>VDHR – Southern Soft Red Winter Wheat (SWW)</b> <i>Location: Regency C/D</i> <b>Facilitator:</b> Jose Costa</li> <li>❖ <b>VDHR – Spring Wheat Coordinated Project (SPR)</b> <i>Location: Mills 1 (fourth floor – directly above Sterling 1)</i> <b>Facilitator:</b> Karl Glover</li> </ul>
2:30-4:00 pm	<p><b>FOCUSED GROUP DISCUSSIONS – Research Areas and VDHR-Spring Wheat will continue their group discussions along with the following:</b></p> <ul style="list-style-type: none"> <li>❖ <b>Barley Coordinated Project (BAR-CP)</b> <i>Location: Sterling 7</i> <b>Facilitator:</b> Kevin Smith</li> <li>❖ <b>Durum Coordinated Project (DUR-CP)</b> <i>Location: Sterling 8</i> <b>Facilitators:</b> Brad Miller and Steven Xu</li> <li>❖ <b>Hard Winter Wheat Coordinated Project (HWW-CP)</b> <i>Location: Sterling 3</i> <b>Facilitator:</b> Bill Berzonsky</li> <li>❖ <b>VDHR –Soft Winter Wheat Coordinated Projects Joint Meeting</b> <i>Location: Regency C/D</i> <b>Facilitators:</b> Clay Sneller and Jose Costa</li> </ul>
4:00-4:15 pm	<p><b>BREAK</b> <i>Location: Regency Ballroom Foyer</i></p>
4:15-6:00 pm	<p><b>MGMT, FSTU and Other Papers Poster Session</b> (Authors with posters in this poster session should be at their posters from 4:30-5:15 pm) <i>Location: Regency Ballroom A/B</i></p>



**Monday, December 5<sup>th</sup>** *(cont.)*

5:00-6:00 pm	<b>RECEPTION</b> <i>Location: Inside Regency Ballroom A and Regency Ballroom Foyer</i>
6:00 pm	<b>Session Adjourns</b> <i>Participants are on their own for dinner</i>
7:30-9:00 pm	<b>Evening Breakout Meeting</b> ❖ <b>Biological Control: Development and Uniform Trials</b> <i>Location: Sterling 9</i>

**Tuesday, December 6<sup>th</sup>**

6:30-8:15 am	<b>BREAKFAST – Full Breakfast Buffet</b> <i>Location: Red Kitchen, Hotel Lobby</i>
8:30-9:30 am	<b>SESSION 4: FOOD SAFETY, TOXICOLOGY AND UTILIZATION OF MYCOTOXIN-CONTAMINATED GRAIN</b> <b>CHAIRPERSON:</b> David Kendra, PepsiCo - Quaker Oats, Barrington, IL <i>Location: Regency Ballroom C/D</i>  <i>The Economics of Mycotoxin Contamination to the Milling Industry and Consumers</i> Don Sullins, ADM Milling Company, Overland Park, KS, USA  <i>A New Understanding of DON's Mechanisms of Action</i> Jim Pestka, Michigan State University, East Lansing, MI, USA
9:30-10:00 am	<b>SESSION 5: FHB MANAGEMENT</b> <b>CO-CHAIRPERSONS:</b> Larry Madden, Ohio State University and Stephen Wegulo, University of Nebraska <i>Location: Regency Ballroom C/D</i>  <i>Management of Mycotoxins in Grain: The Ontario Experience</i> Art Schaafsma, University of Guelph, Ridgetown, Ontario, Canada
10:00-10:25 am	<b>BREAK</b> <i>Location: Regency Ballroom Foyer</i>
10:25-11:55 am	<b>SESSION 5: FHB MANAGEMENT (cont.)</b> <i>Location: Regency Ballroom C/D</i>  <i>A Time Course of Scab in Developing Field-Grown Wheat Spikes</i> Christina Cowger, USDA-ARS, Raleigh, NC, USA  <i>Barley Scab: Forecasting to Management</i> Pravin Gautam, South Dakota State University, Brookings, SD, USA

**Tuesday, December 6<sup>th</sup> (cont.)**

<b>10:25-11:55 am</b>	<b>SESSION 5: FHB MANAGEMENT (cont.)</b> <i>Location: Regency Ballroom C/D</i>  <i>Assessing the Best Fungicide Application Timing for Fusarium Head Blight and Mycotoxin Management</i> Carl Bradley, University of Illinois, Urbana, IL, USA
<b>11:55 am</b>	<b>TAKING CARE OF BUSINESS AND CLOSING REMARKS</b> Art Brandli, Co-Chair, U.S. Wheat & Barley Scab Initiative Warroad, MN, USA
<b>12:00 pm</b>	<b>FORUM ADJOURNS</b>

**POST FORUM MEETINGS**

<b>1:00-4:30 pm</b>	<b>USWBSI Steering Committee (SC) Meeting (Closed meeting - SC members only)</b> <i>Location: Regency E/F</i>
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**Wednesday, December 7<sup>th</sup>**

<b>8:00 am-5:00 pm</b>	<b>National Wheat Improvement Committee (NWIC) Meeting</b> <i>Location: Regency A</i> <i>Contact: Brett Carver, Oklahoma State University</i>
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**Organized by:**



**U.S. Wheat & Barley  
Scab Initiative**