

# **FORUM PROGRAM**



**2015 National Fusarium Head Blight Forum**  
**Hyatt Regency St. Louis at the Arch**  
**St. Louis, Missouri, USA**  
**December 6-8, 2015**





U.S. Wheat & Barley  
Scab Initiative

# Welcome to the 2015 National Fusarium Head Blight Forum!



U.S. Wheat & Barley  
Scab Initiative

## What's in your Packet?

The following items are included in the Forum packet:

- ✓ Forum Program;
- ✓ Name Badge (Serves as ticket for 12/6 Dinner and 12/7 Lunch, receptions and refreshment breaks; please wear at all times);
- ✓ Coupons for breakfast buffet in Red Kitchen restaurant; one for 12/7 and one for 12/8.  
**NOTE:** Coupons are ONLY valid for the **breakfast buffet**.
- ✓ Forum Proceedings – Printed Table of Contents and full proceedings on USB drive;
- ✓ List of Forum Participants;
- ✓ Flash & Dash Presentations by Session;
- ✓ Posters sorted by Poster Session and Poster Number;
- ✓ Poster Room Layout;
- ✓ Meeting Space Layout;
- ✓ Announcement for 2016 National FHB Forum; and
- ✓ Suggestion Form

## Meals & Refreshment Breaks

The following meals are covered by the registration fee:

- ❖ Sunday, 12/6:
  - PM Refreshment Break
  - Reception: Complimentary beer and non-alcoholic beverages; cash bar for wine and cocktails/mixed drinks
  - Dinner - 6:30-8:00 pm
- ❖ Monday, 12/7:
  - Breakfast – Red Kitchen (present coupon to waiter; coupon includes gratuity and is valid ONLY for the breakfast buffet)
  - Lunch – 12:15-1:15 pm
  - AM and PM Refreshment Breaks
  - Reception: Hors d'oeuvres, complimentary beer, and non-alcoholic beverages; cash bar for wine and cocktails/mixed drinks
- ❖ Tuesday, 12/8:
  - Breakfast – Red Kitchen (present coupon to waiter; coupon includes gratuity and is valid ONLY for the breakfast buffet)
  - AM Refreshment Break

## Flash & Dash Presentations

The two sessions for the Flash & Dash (F&D) presentations will be held in the Regency C/D Ballroom.

### Sessions

Associated with Even Numbered Posters

Associated with Odd Numbered Posters

### Time

Sunday, Dec. 6<sup>th</sup>, 4:00-4:35 pm

Monday, Dec. 7<sup>th</sup>, 4:00-4:30 pm

## Poster Sessions

Authors may set up their posters in Regency Ballroom A/B from 9:30 am – 12:45 pm on Sunday, December 7<sup>th</sup>. Posters must be setup prior to the first poster session (see below). Posters should remain up throughout the duration of the Forum.

### Sessions

Even Numbered Posters

Odd Numbered Posters

### Time

Sunday, December 6<sup>th</sup>, 4:35-6:05 pm

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

Monday, December 7<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 (located in Sterling 6): 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

## 2015 National Fusarium Head Blight Forum\*

Hyatt Regency St. Louis at the Arch  
St. Louis, Missouri USA  
December 6-8, 2015

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### Pre Forum Events/Meetings

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#### Sunday, December 6<sup>th</sup>

8:30 am-5:00 pm	REGISTRATION <i>Location: Regency Ballroom Prefunction –outside of Regency B</i>
9:00 am-12:00 pm	Wheat Blast Workshop <i>Location: Regency E</i> <b>Facilitator:</b> Erick De Wolf
9:00 am-12:45 pm	Authors set up posters <i>Location: Regency Ballroom A/B</i>

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### FORUM Begins

1:00-1:40 pm	<b>Welcome and Keynote Speaker</b> <i>Location: Regency Ballroom C/D</i>  <b>Welcome</b> Art Brandli, Co-Chair, U.S. Wheat & Barley Scab Initiative Warroad, MN, USA
1:05-1:40 pm	<b><i>Managing Mycotoxin Issues in Corn and Small Grains: Parallels and Contrasts</i></b> Gary Munkvold, Iowa State University, Ames, IA, USA

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\*General Sessions and Flash and Dash Session will be held in Regency C/D. All poster sessions will be held in Regency Ballroom A/B. Forum Office is located in Sterling 6.

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

<b>1:40-2:45 pm</b>	<b>GENERAL SESSION I - CHAIRPERSON:</b> Todd Ward <i>Location: Regency Ballroom C/D</i>
1:40-2:00	<i>Utilizing Genomic Selection to Accelerate the Pace of Developing Resistant Varieties</i> Antonio Cabrera, The Ohio State University, Wooster, OH, USA
2:00-2:45	<i>Interaction Between 3-ADON and 15-ADON <i>F. graminearum</i> Isolates</i> Gopal Subramaniam, Agriculture and Agri-Food Canada, Ottawa, ON, CANADA
<b>2:45:-3:10 pm</b>	<b>BREAK</b> <i>Location: Regency Ballroom Foyer</i>
<b>3:10-4:00 pm</b>	<b>GENERAL SESSION I - CHAIRPERSON:</b> Jeff Stein
3:10-3:35	<i>Crop Genome Editing and Precision Breeding with CRISPR-Cas9</i> Yinong Yang, Pennsylvania State University, College Park, PA, USA
3:35-4:00	<i>New FHB Predictions Models</i> Erick De Wolf, Kansas State University, Manhattan, KS, USA
<b>4:00-4:35 pm</b>	<b>FLASH &amp; DASH SESSION 1:</b> Mini Oral Presentations associated with Even Numbered Posters <i>Location: Regency Ballroom C/D</i>
<b>4:35-6:05 pm</b>	<b>POSTER SESSION 1: Even Numbered Posters</b> (Authors with posters in this poster session should be at their posters from 4:45-5:30 pm) <i>Location: Regency Ballroom A/B</i>
<b>5:30-6:30 pm</b>	<b>RECEPTION</b> <i>Location: Inside Regency Ballroom B and Regency Ballroom Foyer</i>
<b>6:30-8:00 pm</b>	<b>DINNER</b> <i>Location: Regency Ballroom E/F</i>
<b>8:00-9:30 pm</b>	<b>Evening Breakout Meetings</b>  ❖ <b>Ug99 Stem Rust Breeding in Wheat and Barley Update.</b> <i>Location: Grand B (4<sup>th</sup> Floor)</i> <b>Facilitator:</b> Jose Costa, USDA-ARS, Beltsville, MD

**Monday, December 7<sup>th</sup>**

6:30-8:15 am	<b>BREAKFAST</b> – Full Breakfast Buffet <i>Location: Red Kitchen, Hotel Lobby</i>
8:00 am-4:30 pm	<b>REGISTRATION</b> <i>Location: Regency Ballroom Prefunction –outside of Regency B</i>

**BREAKOUT MEETINGS****8:15 am-12:15 pm***All Participants are welcome to attend any breakout.*

<b>8:15-9:30 am</b>	<b>NUTS AND BOLTS: FHB METHODS</b> – This breakout is targeted for Graduate Students, Post Docs and Technicians, but anyone interested is welcome to attend. <i>Location: Grand C (4<sup>th</sup> Floor)</i> <b>Facilitators:</b> Anthony Clark and Kay Ruden
<b>8:15-8:30 am</b>	<b>VARIETY DEVELOPMENT AND HOST RESISTANCE (VDHR) AND FHB MANAGEMENT (MGMT)</b> - Joint sessions for breeders and pathologists <i>Location: Regency C/D</i> <b>Facilitator:</b> Dave Van Sanford
<b>8:30-9:30 am</b>	<b>VDHR-MGMT</b> Joint sessions for breeders and pathologists by Market Class/Region.  ❖ <b>Hard Winter Wheat</b> <i>Location: Sterling 4</i> <b>Facilitators:</b> Bill Berzonsky and Stephen Wegulo  ❖ <b>Spring Wheat/Barley/Durum</b> <i>Location: Mills 3 (4<sup>th</sup> Floor)</i> <b>Facilitators:</b> Ruth Dill-Macky and Karl Glover  ❖ <b>Northern Soft Winter Wheat</b> <i>Location: Mills 6 (4<sup>th</sup> Floor)</i> <b>Facilitators:</b> Carl Bradley and Dave Van Sanford  ❖ <b>Southern Soft Winter Wheat</b> <i>Location: Sterling 2</i> <b>Facilitators:</b> Christina Cowger and Steve Harrison
<b>8:30-9:30 am</b>	<b>GDER AND PBG BREAKOUT</b> <i>Location: Grand B (4<sup>th</sup> Floor)</i> <b>Facilitators:</b> Nilgun Tumer and JinRong Xu

**Monday, December 7<sup>th</sup> (cont.)**

<b>9:30-10:15 am</b>	<p><b>RESEARCH AREA BASED BREAKOUTS</b></p> <ul style="list-style-type: none"> <li>❖ <b>FHB Management (MGMT)</b> <i>Location: Grand F (4<sup>th</sup> Floor)</i> <b>Facilitator:</b> Erick De Wolf</li> <li>❖ <b>Food Safety &amp; Toxicology (FST)</b> <i>Location: Sterling 4</i> <b>Facilitator:</b> Jim Pestka</li> <li>❖ <b>Gene Discovery &amp; Engineering Resistance (GDER)</b> <i>Location: Grand B (4<sup>th</sup> Floor)</i> <b>Facilitator:</b> Nilgun Tumer</li> <li>❖ <b>Pathogen Biology &amp; Genetics (PBG)</b> <i>Location: Sterling 2</i> <b>Facilitator:</b> JinRong Xu</li> <li>❖ <b>Variety Development &amp; Host Resistance (VDHR)</b> <i>Location: Grand C (4<sup>th</sup> Floor)</i> <b>Facilitator:</b> Dave Van Sanford</li> </ul>
<b>10:15-10:45 am</b>	<p><b>BREAK</b> <i>Location: Regency Ballroom Foyer</i></p>
<b>10:45 am-11:15 pm</b>	<p><b>VDHR Northern and Southern Soft Winter Wheat Joint Meeting</b> <i>Location: Grand C</i> <b>Facilitator:</b> Eric Olson and Esten Mason</p> <p><b>NOTE:</b> At 11:15, groups will break and begin meeting on own as indicated below.</p>
<b>10:45 am-12:15 pm</b>	<p><b>COORDINATED PROJECT BREAKOUTS – Research Areas may continue their group discussions if needed.</b></p> <ul style="list-style-type: none"> <li>❖ <b>Barley Coordinated Project (BAR-CP)</b> <i>Location: Grand A (4<sup>th</sup> Floor)</i> <b>Facilitator:</b> Phil Bregitzer</li> <li>❖ <b>Durum Coordinated Project (DUR-CP)</b> <i>Location: Sterling 3</i> <b>Facilitators:</b> Shaobin Zhong</li> <li>❖ <b>Hard Winter Wheat Coordinated Project (HWW-CP)</b> <i>Location: Mills 3 (4<sup>th</sup> Floor)</i> <b>Facilitator:</b> Bill Berzonsky</li> </ul>



**Monday, December 7<sup>th</sup>** (*cont.*)

<b>10:45 am-12:15 pm</b>	<b>COORDINATED PROJECT BREAKOUTS</b> ( <i>cont.</i> ) <ul style="list-style-type: none"> <li>❖ <b>Variety Development and Host Resistance – Spring Wheat Region Coordinated Project (VDHR-SPR CP)</b> <i>Location: Sterling 1</i> <b>Facilitator:</b> Jochum Wiersma</li> <li>❖ <b>Variety Development and Host Resistance – Northern Soft Winter Wheat Coordinated Project (VDHR-NWW CP)</b> <i>Location: Grand C (4<sup>th</sup> Floor)</i> <b>Facilitator:</b> Eric Olson</li> <li>❖ <b>Variety Development and Host Resistance – Southern Soft Red Winter Wheat Coordinated Project (VDHR-SWW CP)</b> <i>Location: Sterling 5</i> <b>Facilitator:</b> Esten Mason</li> </ul>
12:15-1:15 pm	<b>LUNCH</b> <i>Location: Regency Ballroom E/F</i>
<b>1:15-2:25 pm</b>  1:15-1:40  1:40-2:25	<b>GENERAL SESSION II - CHAIRPERSON:</b> Paul Schwarz <i>Location: Regency Ballroom C/D</i>  <b><i>FHB/DON in the Soft Winter Wheat Region in 2015.</i></b> Don Mennel, Mennel Milling Co., Fostoria, OH, USA Carl Schwinke, Siemer Milling Co., Teutopolis, IL, USA  <b><i>State of the Art in Multi-Mycotoxin Determination by LC-(HR)-MS/MS</i></b> Elisabeth Varga, University of Natural Resources and Life Sciences, Vienna (BOKU), Tulln, Austria
2:25-2:55 pm	<b>BREAK</b> <i>Location: Regency Ballroom Foyer</i>
<b>2:55-4:00 pm</b>  2:55-3:25  3:25-4:00	<b>GENERAL SESSION II</b> ( <i>cont.</i> ) - <b>CHAIRPERSON:</b> Eric Olson  <b><i>20 years of Best Management Practices for FHB: Then and Now</i></b> David Hooker, University of Guelph, Ridgetown, Ontario, Canada  <b><i>Genomic Predictions to Advance Breeding for FHB Resistance in Barley</i></b> Kevin Smith, University of Minnesota, St. Paul, MN, USA

**Monday, December 7<sup>th</sup>** (cont.)

<b>4:00-4:30 pm</b>	<b>FLASH &amp; DASH SESSION 2:</b> Mini Oral Presentations associated with Odd Numbered Posters <i>Location: Regency Ballroom C/D</i>
<b>4:30-6:00 pm</b>	<b>Poster Session 2: Odd Numbered Posters</b> (Authors with posters in this poster session should be at their posters from 4:45-5:30 pm) <i>Location: Regency Ballroom A/B</i>
5:30-6:30 pm	<b>RECEPTION</b> <i>Location: Inside Regency Ballroom A and Regency Ballroom Foyer</i>
6:30 pm	<b>Session Adjourns</b> <i>Participants are on their own for dinner</i>

**Tuesday, December 8<sup>th</sup>**

6:30-8:15 am	<b>BREAKFAST</b> – Full Breakfast Buffet <i>Location: Red Kitchen, Hotel Lobby</i>
<b>8:15-9:45 am</b>	<b>GENERAL SESSION III - CHAIRPERSON:</b> Jyoti Shah <i>Location: Regency Ballroom C/D</i>
8:15-8:40	<i>National Survey of Wheat &amp; Barley Producers</i> Christina Cowger, USDA-ARS, Raleigh, NC, USA
8:40-9:00	<i>Development of Elite Durum Wheat Germplasm with Improved Resistance to Fusarium Head Blight</i> Steven Xu, USDA-ARS, Fargo, ND, USA
9:00-9:45	<i>Host-induced Silencing of Fungal Genes to Promote Resistance against Fusarium Head Blight in Wheat</i> Yu-Cai Liao, Huazhong Agricultural University, Wuhan, Hubei, CHINA
9:45-10:10 am	<b>BREAK</b> <i>Location: Regency Ballroom Foyer</i>
<b>10:10-11:55 am</b>	<b>GENERAL SESSION III (cont.) - CHAIRPERSON:</b> Sunish Sehgal
10:10-10:30	<i>Map Based Cloning of Fhb1 Gene in Wheat</i> Nidhi Rawat, Kansas State University, Manhattan, KS, USA
10:30-10:55	<i>Past, Present, and Future of Fungicides for FHB</i> Randy Myers, Bayer CropScience, Research Triangle Park, NC, USA

**Tuesday, December 8<sup>th</sup> (cont.)**

<b>10:10-11:55 am</b>	<b>GENERAL SESSION III (cont.) - CHAIRPERSON:</b> Sunish Sehgal
10:55-11:20	<i>Trichothecene Chemotypes of the FHB Fungus in the United States</i> Corby Kistler, USDA-ARS, St. Paul, MN, USA
11:20-11:55	<i>Exploration of Genomic Selection Strategies to Complement Wheat FHB Resistance Breeding</i> Jim Anderson, University of Minnesota, St. Paul, MN, USA
<b>11:55 am</b>	<b>TAKING CARE OF BUSINESS AND CLOSING REMARKS</b>  Dave Van Sanford, University of Kentucky, Lexington, KY, USA Co-Chair, U.S. Wheat & Barley Scab Initiative
<b>12:00 pm</b>	<b>FORUM ADJOURNS</b>

**POST FORUM MEETINGS**

12:00-1:00 pm	Lunch for USWBSI Steering Committee (SC) <i>Location: Regency F</i>
1:00-4:30 pm	USWBSI Steering Committee Meeting (Closed meeting - SC members only) <i>Location: Regency E</i>

**Wednesday, December 9<sup>th</sup>**

8:00 am-5:00 pm	National Wheat Improvement Committee (NWIC) Meeting <i>Location: Regency B</i> <b>Facilitator:</b> Paul Murphy, North Carolina State University
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**Organized by:**



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