PROGRAM of the 2006 National Soybean Rust Symposium

November 29- December 1, 2006 • St. Louis, MO

Presented by

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Welcome to the 2006 National Soybean Rust Symposium

We are pleased to welcome you to St. Louis, Missouri for this important event. This year, in addition to the big issues covered in general sessions, we’ve added a wide range of topics in concurrent sessions which will allow you to tailor your symposium experience to your individual needs. There will also be ample time allotted to share your insights, network and develop collaborative relationships. Special thanks to all of our sponsors, advisory committee members, and technical committee members, who helped make this program possible. We look forward to your active participation. Thank you!

Don Hershman, University of Kentucky, 2006 National Soybean Rust Symposium Coordinator

Technical Program Committee — John Rupe (co-chair), University of Arkansas; Anne Dorrance (co-chair), The Ohio State University; Don Hershman, University of Kentucky; Scott Isard, Penn State University; Brian Diers, University of Illinois; Marty Wiglesworth, Arysta LifeScience; Marty Draper, USDA-CSREES; Glen Hartman, USDA-ARS; Rusty Smith, USDA-ARS; Bob Kemerait, University of Georgia; Carrie Harmon, University of Florida; Jim Marois, University of Florida; Robert Wolf, Kansas State University

2006 National Soybean Rust Symposium Program

Administrative Sponsors

Wednesday, November 29, 2006

5:00 PM  Registration Opens / Promenade Ballroom Foyer
6:00 PM  Poster Set-up
8:00 PM  Poster Viewing Reception / Promenade Ballroom D-F / sponsored by
10:00 PM Poster Viewing Closes

Thursday, November 30, 2006

6:30 AM  Registration Opens
6:30 AM  Continental Breakfast and Poster Viewing / Promenade Ballroom D-F / sponsored by
8:00 AM  Introduction: Purpose of Symposium / Promenade Ballroom C / Don Hershman, University of Kentucky
8:10 AM  Welcome / USDA Under Secretary, Gale Buchanan
8:20 AM  General Session: Soybean Rust in 2006 / Promenade Ballroom C
  Don Hershman, University of Kentucky - Session Coordinator/Moderator
  Laura Sweets, University of Missouri and Daren Mueller, Iowa State University - Recorders
  Overview of soybean rust in North America during 2006 (20 min)
  Loren Giesler, University of Nebraska
  Overview of soybean rust in South America during 2005-06 (20 min)
  Cláudia Godoy, EMBRAPA
  Overview of soybean rust in the Caribbean Basin during 2006 (20 min)
  Consuelo Estévez de Jensen, University of Puerto Rico
  Overview of soybean rust in Mexico during 2006 (20 min)
  Ing. Rigoberto González Gómez, Plant Health General Direction, Secretariat of Agriculture, Livestock, Rural Development, Fisheries and Food, Mexico
  Open Discussion/Q&A (20 min)
10:00 AM  Break / sponsored by
10:15 AM  General Session: Results from 2006 Soybean Rust Control Studies / Promenade Ballroom C
  Bob Kemerait, University of Georgia - Session Coordinator/Moderator
  Loren Giesler, University of Nebraska and Doug Jardine, Kansas State University - Recorders
  Results from fungicide efficacy trials, university data (20 min)
  Melvin Newman, University of Tennessee
  Results from industry efficacy trials (20 min)
  Gary Cloud, Ag Research Associates
  Is “when” more important than “what”: optimizing protection against soybean rust (20 min)
  Bob Kemerait, University of Georgia
  Open Discussion/Q&A (30 min)
11:45 PM  Lunch (Poster Viewing) / Promenade Ballroom D-F / sponsored by
1:00 PM  Concurrent Breakout Sessions
  Biology of soybean rust / Promenade Ballroom A / Rusty Smith, USDA-ARS - Session Coordinator/Moderator: Robert Mulrooney, University of Delaware and Wayne Jurick, University of Florida - Recorders
    Life cycle, spore germination, and survival (20 min)
    Dario F. Narváez, University of Florida
    Movement of spores (20 min)
    Paul Mumma, Louisiana State University
    Diversity—Typing populations/isolates (25 min)
Reid Frederick, USDA-ARS and Kerry Pedley, USDA-ARS

**Hosts and host-rust interactions (25 min)**
Mo Bonde, USDA-ARS and Herb Edwards, Western Illinois University

**Open Discussion/Q&A (30 min)**

**Economics & Policy** / Director’s Row 29 / Marty Wiglesworth, Arysta LifeScience - Session Coordinator/Moderator; Boyd Padgett, Louisiana State University - Recorder

- **Economic impact of soybean rust (25 min)**
  Robert Wisner, Iowa State University

- **Current policy perspectives from CSREES and APHIS (25 min)**
  Kitty Cardwell, USDA-CSREES

- **Crop insurance: Quality adjustment and sampling/grading for soybean rust (20 min)**
  Dave Bell, USDA-RMA

**Open Discussion/Q&A (60 min)**

**Epidemiology** / Director’s Row 26 / Glen Hartman, University of Illinois - Session Coordinator/Moderator; Dean Malvick, University of Minnesota - Recorder

- **Developing a yield loss prediction model for soybean rust - A crop physiology approach (25 min)**
  Saratha Kumudini, University of Kentucky

- **Spore deposition, micrometeorological data, and the spread of soybean rust (25 min)**
  Erick DeWolf, The Pennsylvania State University

- **Soybean rust progress curves under different environmental conditions (25 min)**
  James Marois, University of Florida

**Open Discussion/Q&A (45 min)**

3:00 PM  
**Enhanced Break** / sponsored by

3:15 PM  
**Concurrent Breakout Sessions**

**Application Technology** / Promenade Ballroom A / Bob Wolf, Kansas State University – Session Coordinator/Moderator; Carl Bradley, North Dakota State University - Recorder

- **General overview of application strategies for applying fungicides in the soybean canopy (10 min)**
  Bob Wolf, Kansas State University

- **Nozzle type considerations for improved soybean canopy penetration: A summary of the work done at Kansas State University (15 min)**
  Bob Wolf, Kansas State University

- **Nozzle and equipment considerations for improved coverage in the soybean canopy: A summary of the work done in Ohio (25 min)**
  Erdal Ozkan, The Ohio State University and Richard Derksen, USDA-ARS

- **Aerial application strategies for improved coverage in the soybean canopy: A summary of the work done in recent years (25 min)**
  Dennis Gardisser, University of Arkansas

**Open Discussion/Q&A (45 min)**

**Disease Assessment** / Promenade Ballroom B / Anne Dorrance, The Ohio State University - Session Coordinator/Moderator; Howard Schwartz, Colorado State University

- **Pros and cons of different disease assessment ratings (20 min)**
  Larry Madden, The Ohio State University

- **Rating systems used in Brazil for soybean rust assessment (20 min)**
  Cláudia Godoy, EMBRAPA

- **Industry rating systems used for fungicide assessments (20 min)**
  Gary Cloud, Ag Research Associates

**Open Discussion/Q&A (60 min)**

**Forecasting** / Director’s Row 26 / Scott Isard, The Pennsylvania State University - Session Coordinator; Erick DeWolf, The Pennsylvania State University – Moderator; Ray Schneider, Louisiana State University and Layla Sconyers, University of Georgia - Recorders

- **Ensemble approach to soybean rust forecasting for the 2006 PIPE (20 min)**
  Joseph Russo, ZedX, Inc.
Forecasting the spread of soybean rust using a nested climate model (20 min)
Zaitao Pan, St. Louis University

Forecasting the spread of soybean rust using an ensemble HYSPLIT modeling approach (20 min)
Joseph Petrovich, ZedX, Inc.

Application of the integrated aerobiology modeling system to soybean rust forecasting in 2006 (20 min)
Scott Isard, The Pennsylvania State University

Open Discussion/Q&A (40 min)

Monitoring / Director’s Row 29 / Carrie Harmon, University of Florida - Session Coordinator/Moderator; Ed Sikora, Auburn University - Recorder

Sentinel and mobile plots (20 min)
Jim Marois, University of Florida

Spore trapping (20 min)
John Rupe, University of Arkansas

Spore identification (20 min)
Sally Miller, The Ohio State University

USDA website - PIPE (20 min)
Julie Golod, The Pennsylvania State University

Open Discussion/Q&A (40 min)

5:30 PM Reception, Sponsor Table Top Displays and Poster Viewing / Promenade Ballroom D-F
Authors present at posters (5:30-6:30PM) / Dinner on your own

Friday, December 1, 2006

6:30 AM Continental Breakfast and Poster Viewing / Promenade Ballroom D-F / sponsored by Bayer CropScience

8:00 AM General Session: The Present Soybean Rust Situation / Promenade Ballroom C
John Rupe, University of Arkansas - Session Coordinator/Moderator
Albert Tenuta, Ontario Ministry of Agriculture and Diane Brown-Rytlewski, Michigan State University - Recorders

Summary of soybean rust communication activities in North America (25 min)
Greg Shaner, Purdue University

Section 18 recap and future perspective (10 min)
Martin Draper, USDA-CSREES

Economic impact of soybean rust in North America (20 min)
Robert Wisner, Iowa State University

Economic Value of Plant Disease Early-Warning Systems: A Case Study of USDA’s SBR coordinated Framework (20 min)
Utpal Vasavada, USDA-RRED-ERS

Open Discussion/Q&A (15 min)

9:45 AM Enhanced Break / sponsored by Syngenta

10:00 AM General Session: Long-term Perspectives on Soybean Rust / Promenade Ballroom C
Jim Marois, University of Florida - Session Coordinator/Moderator
Clayton Hollier, Louisiana State University - Recorder

What will PIPE look like in five years (20 min)
Joe Russo, ZedX, Inc.

What can we learn after five years of sentinel plots and should we keep going (20 min)
Layla Sconyers, University of Georgia

Long term impact of soybean rust on Midwest corn/soybean rotation system (also considering cost of N and soydiesel) (20 min)
Gary Munkvold, Iowa State University

Long term impact of soybean rust on chemical industry (20 min)
Jim Barrentine, Cheminova, Inc.

What will happen if soybean rust doesn’t happen? (20 min)
David Wright, North Central Soybean Research Program

Open Discussion/Q&A (20 min)

12:00 PM Closing Comments / Symposium Adjourns
Don Hershman, University of Kentucky

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