

*PROGRAM*  
*of the*  
**2006 National Soybean  
Rust Symposium**

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

*Presented by*



*Healthy Plants • Healthy World*

*In cooperation with*

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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 Wigglesworth, 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)**



### Thursday Audio Visual Sponsor



10:00 AM **Break** / sponsored by  **CHEMINOVA**  
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)**

- ▶ **Host Response** / Promenade Ballroom B / *Brian Diers, University of Illinois - Session Coordinator/Moderator; Anne Dorrance, The Ohio State University - Recorder*

**Evaluation of the soybean germplasm collection for resistance to soybean rust (20 min)**

Monte Miles, USDA-ARS

**Evaluation of resistance to soybean rust in field and greenhouse tests in Georgia (20 min)**

Roger Boerma, University of Georgia

**Breeding for rust resistance in Brazil (30 min)**

José Francisco Ferraz de Toledo, EMBRAPA, Brazil

**Open Discussion/Q&A (50 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

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



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*



Bayer CropScience

**Friday  
Audio Visual Sponsor**

**syngenta**

**Symposium Proceedings**

Proceedings of the National Soybean Rust Symposium presentations and posters will be hosted shortly after the meeting by the PLANT MANAGEMENT NETWORK in the publicly available Soybean Rust Info Center at [www.plantmanagementnetwork.org/infocenter/topic/soybeanrust](http://www.plantmanagementnetwork.org/infocenter/topic/soybeanrust)

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