37th Symposium on Pesticide Formulation and Delivery Systems:
"Formulations with Ingredients on the EPA List of Minimal Concern"

Sponsored by ASTM Committee E35 on Pesticides, Antimicrobials, and Alternative Control Agents

October 25-27, 2016
Renaissance Orlando at Sea World
Orlando, FL

Symposium Chair: James S. Namnath, Ph.D.

This symposium will provide a forum for the presentation and discussion of pesticide, adjuvant, fertilizer, and related agrichemical formulations. Particular attention will be given to the ingredients listed by the US EPA as "Inert Ingredients of Minimal Concern", otherwise known as List 4. The symposium will also focus on the chemistry and physical properties of chemicals used to manufacture such formulations, regulatory specialists on the current status of the list and how the list is applied to other standards. Although the symposium deals with the formulation and application of Pesticides and is targeting the use of minimal impact inerts and formulations containing the same, papers dealing with general formulation topics are also welcomed.

Topics for this event include:
- Innovative uses of List 4 ingredients
- Current status of List 4 Ingredients
- The future of "Inert Ingredients of Minimal Concern"
- Regulatory Environment for Inert Ingredients
- International lists and standards pesticide ingredients
- Modifying spray properties of products using List 4 ingredients
TUESDAY, OCTOBER 25, 2016

1:00 PM
Opening Remarks Dedication of Symposium to V.R. Roskam
James S. Namnath, Ph.D., Symposium Chairman

KEYNOTE SPEAKER

1:30 PM
Minimum Concern Inerts, What are They? Where do they come from? And, What Impact will they have on the Pesticide Industry?
R. Scott Tann, Huntsman Performance Products, The Woodlands, TX, USA

GENERAL SESSION

2:30 PM
Minerals on the EPA 25(b) List, an Overview
George Goss, Oil-Dri, Vernon Hills, IL, USA

3:00 PM    BREAK

3:30 PM
Determining Water Sensitive Card Spread Factors for Real World Tank Mixes
Clint Hoffman, USDA-ARS-Aerial Application Technology Research, College Station, TX, USA

4:00 PM
Performance Studies on Glyphosate Adjuvants
Priscila Castelani, Oxiteno, Maua SP Brazil

4:30 PM
Closing Remarks and Adjournment for the Day
James S. Namnath, Ph.D., Symposium Chairman
WEDNESDAY, OCTOBER 26, 2016

8:15 AM
Opening Remarks
James S. Namnath, Ph.D., Symposium Chairman

8:30 AM
Are High Surfactant Oil Concentrate Adjuvants Created Equal?
Devin Wirth, North Dakota State University, Fargo, ND, USA

9:00 AM
The Impact of Spray Adjuvants on Solution Physical Properties and Spray Droplet Size
Bradley Frilz, USDA ARS, College Station, TX, USA

9:30 AM
Characterization of a Novel Polymeric Drift Control Agent in Vertically Oriented Wind Tunnel Apparatus
Logan Dempsey, Croda Inc., New Castle, DE, USA

10:00 AM
BREAK

10:30 AM
Clays in Biological Formulations
Grorge Goss, Oil-Dri, Vernon Hills, IL USA

11:00 AM
Lignin-Based Chemicals as Green Dispersants for Granulated Formulations. Focus on Multi-Active Combination Products.
Tiffany McQueen, Borregaard Ligno Tech, Houston, TX, USA

11:30 AM
Evaluation of Urea Treatment using a Micro X-Ray Fluorescence Technique
Sze-Sze Ng, Dow Chemical Company, Midland, MI, USA

12:00 PM
LUNCH (on your own)

1:30 PM
Evaluation of Pyrimisulfan Efficacy and Turfgrass Safety
Jeff Marvin, PBI-Gordon Corp, Overland Park, KS, USA

2:00 PM
New Organosilicon and Lecithin Based Adjuvant: Effect of Lecithin HLB on Penetration, Adhesion and Drift Reduction
Jeferson Naue, Momentive Performance Materials, Tarrytown, NY, USA
2:30 PM
**Can EPTC Simulate Adjuvant Effects with POST herbicides**
Jason Adams, North Dakota State University, Fargo, ND, USA

3:00 PM  BREAK

3:30 PM
**Factors Affecting Growth Regulator Herbicide Volatility**
Donald Penner, Michigan State University, East Lansing, MI, USA

4:00 PM
**Development of Formulation Premixes Containing ArylexTM Herbicide**
Ke Min, Dow Agro Sciences, Indianapolis, IN, USA

4:30 PM
**Foam Control of Trisiloxane Alkoxylate Superspreaders with Modified Trisiloxane Alkoxylates a Mechanistic Study**
Kalman Koczko, Momentive Performance Materials, Tarrytown, NY, USA

5:00 PM
**Closing Remarks and Adjournment for the Day**
James S. Namnath, Ph.D., Symposium Chairman

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**THURSDAY, OCTOBER 27, 2016**

8:15 AM
**Opening Remarks**
James S. Namnath, Ph.D., Symposium Chairman

8:30 AM
**The Effect of Spray Solution Physical Properties on the Volatility of Auxinic Herbicides**
Mei Li, Ph.D, Dow AgroSciences LLC, Indianapolis, IN, USA

9:00 AM
**Styrene Maleic Anhydride based Dispersants: Structure and Function Relationships**
Alan J. Stern, Huntsman Performance Products, The Woodlands, TX, USA

9:30 AM
**Pyrimisulfan a Novel Broadleaf Herbicide for Use in the Turf Market**
Dale Sanson, PBI Group Corp, Kansas City, MO, USA
10:00 AM
Use of Quartz Crystal Microbalance with Dissipation and Ellipsometry to Predict Suspension Concentrate Stability
Alan Halecky, Ashland, Inc, Wilmington, DE USA

10:30 AM
Study of Silicon Dioxide/Dispersant Synergies and its Effect On Suspension Concentrate Stability
Saiid Mohammed, Evonik Corporation, Richmond, VA USA

11:00 AM
Final Closing Remarks
James S. Namnath, Ph.D., Symposium Chairman

11:15 AM  SYMPOSIUM ADJOURNS