

## TPSA Pesticide and Ag Plastic Stewardship Conference

Hyatt Regency Savannah—2 West Bay St, Savannah Georgia USA 31402

**February 21-23, 2010**

DRAFT **PROGRAM** DRAFT

**Breakfasts (incl. roundtables), Lunches, Posters & Displays—all located in Harborside East on the lower level.  
Posters will be on display during the entire Conference.**

**CEU credits approved by Florida, Georgia, North Carolina, South Carolina**

SUNDAY - FEBRUARY 21, 2010		
2-3:30p	<b>TPSA Board Meeting (all are welcome)</b>	<i>Location: Scarbrough 3 (lobby level)</i>
4-6p	<p><b>Plenary: New Directions for Pesticides and Product Stewardship</b></p> <p><i>Moderator: Kevin Neal, Pesticide Investigator, Office of the Indiana State Chemist, and President, TPSA</i></p> <ul style="list-style-type: none"> <li>• TPSA President's Welcome</li> <li>• <b>Keynote: New Directions at EPA for Pesticides and Product Stewardship</b> Steve Owens, US EPA Assistant Administrator for the Office of Prevention, Pesticides and Toxic Substances (OPPTS)</li> <li>• <b>Panel Discussion: Pesticides and Product Stewardship</b> <ul style="list-style-type: none"> <li>• Jim Burnette, Director, Structural Pest Control and Pesticide Division, North Carolina Department of Agriculture and Consumer Services, and President-Elect, American Association of Pesticide Control Officials (AAPCO)</li> <li>• Tamsin Ettefagh, Vice President, Envision Plastics</li> <li>• Liza Fleeson, Program Manager, Office of Pesticide Services, Virginia Department of Agriculture and Consumer Services (VDACS)</li> <li>• Dave Scott, Pesticide Program Administration Manager, Office of the Indiana State Chemist</li> </ul> </li> </ul>	<i>Location: Harborside East (lower level)</i>
6-8:30p	<b>Opening Reception</b>	<i>Location: Windows (lobby level)</i>

MONDAY - FEBRUARY 22, 2010		
7-7:45a	<b>Breakfast</b>	<i>Location Harborside East (lower level)</i>
7-7:45a	<p><b>Breakfast Roundtable with the TPSA Communication Committee</b></p> <p>Facilitated by Nancy Fitz, US EPA Office of Pesticide Programs, and Chair, TPSA Communication Committee</p>	<i>Location Harborside East (lower level)</i>
8-9:30a	<p><b>Plenary: Green Chemistry in Pesticide Development and Degradation</b></p> <p><i>Moderator: Rob Denny, Arrowchase Environmental Project Management</i></p> <ul style="list-style-type: none"> <li>• <b>Keynote: Green Chemistry in Pesticide Development and Degradation</b> Terry Collins, Director, Institute for Green Chemistry, Carnegie Mellon University</li> <li>• <b>Green Chemistry Initiatives in the Pesticide Industry: Respondent Panel</b> Andrew J. Goetz, Regulatory Stewardship and Strategy, BASF Corporation</li> </ul>	<i>Location: Harborside East (lower level)</i>
9:30-9:45a	<b>Break</b>	

<b>Concurrent Session 1</b> 9:45-11:15a	<b>1A. Pesticides: Emerging Regulatory Issues</b> <span style="float: right;"><i>Location: Scarbrough 1 (lobby level)</i></span> <b>(i) National Pollutant Discharge Elimination System (NPDES)</b> <i>Moderator: Cary Hamilton, Pesticide Registration &amp; Endangered Species Specialist, New Mexico Department of Agriculture</i> <ul style="list-style-type: none"> <li>• How State Pesticide Programs Can Support NPDES – Steve Cole, Georgia Department of Agriculture, Pesticide Section</li> <li>• NPDES Permitting System – Jay Ellenberger, Associate Division Director, US EPA Office of Pesticide Programs</li> </ul> <b>(ii) Overview of Seed Treatment Issues</b> <i>Moderator: Allan Hovis, Stewardship Issues, Bayer CropScience</i> <ul style="list-style-type: none"> <li>• Seed Treatment: Innovation Driven, Environmental Friendly, Committed to Plant Health – Jennifer Riggs, Product Development Manager, Bayer CropScience</li> </ul>
	<b>1B. Emerging End-Markets for Recycled Ag Films – Poster Presentations</b> <span style="float: right;"><i>Location: Harborside East (lower level)</i></span> <i>Moderator, Annie Macmillan, Toxicologist, Vermont Agency of Agriculture</i> <ul style="list-style-type: none"> <li>• EkoRoof Tiles</li> <li>• Rubber Sidewalks/Terrewalks</li> <li>• Think Plastics/Baleboard</li> <li>• Tiger Bullets (poster)</li> <li>• Ultimate Recycled Plastics</li> </ul>
11:15a	<b>Break</b>
11:30a-1p	<b>Awards Lunch &amp; Member Meeting</b> <span style="float: right;"><i>Location Harborside East (lower level)</i></span>
1-1:15p	<b>Break before afternoon sessions</b>
<b>Concurrent Session 2</b> 1:15-2:45p	<p style="text-align: center;"><b>SESSIONS 2A-8A: WORKSHOP – MINIMIZING SPRAY DRIFT: IMPROVING APPLICATION EFFICACY &amp; COMMUNICATION</b>  <i>→ All Spray Drift Workshop Sessions are located in Scarbrough 1 (lobby level)</i></p> <b>2A. Spray Drift Mitigation Label Statement: Recognizing Base Principles</b> <i>Moderator: Carol Ramsay, Washington State University</i> <ul style="list-style-type: none"> <li>• Empirical Data Used for Label Statements – Scott Jackson, BASF</li> <li>• Efficacy and Drift: Recognizing the Conflicts – Scott Bretthauer, University of Illinois</li> <li>• Revising the ASABE S-572 Droplet Standard and Its Practical Use – Bob Wolf, Extension Specialist, Application Technology, Biological and Agricultural Engineering, Kansas State University</li> </ul>
	<b>2B. Communicating Stewardship: A Mini-Workshop on Visual Communication of Pesticide Risk</b> <span style="float: right;"><i>Location: Scarbrough 2 (lobby level)</i></span> <i>Moderator: Lois Levitan, Department of Communication, Cornell University</i> <ul style="list-style-type: none"> <li>• Visual Communication of Pesticide Risk: A Mini Workshop – Cliff Scherer, Professor of Communication, Department of Communication, Cornell University</li> <li>• Communicating Local Pesticide Disposal Program Information to Consumers – Sandra Keil, Earth 911</li> <li>• TPSA International Project on Pesticide Container Disposal in Developing Countries – Don Mullins, Professor of Entomology, Virginia Tech</li> <li>• The Need and Approach for Visual Media in Support of Pesticide Container Stewardship – Rob Denny, Arrowchase Environmental Project Management</li> </ul> <div style="text-align: center; border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>Joint session of Pesticide Disposal and Recycling tracks</b> </div>

2:45-3p	<b>Break</b>	
Concurrent Session 3 3-4:30p	<b>3A. Spray Drift Management: Application Technologies and Realities</b> <i>Moderator: Bob Wolf, Kansas State University</i> <ul style="list-style-type: none"> <li>Decision-Making Challenges for Aerial Application – Randy Hale, Hale Dusting Services</li> <li>Where Applicators Really Get Their Weather Information – Dennis Gardisser, WRK of Arkansas</li> <li>Air-Assisted Electrostatic Crop Spraying Halves Pesticide Total Environmental Load – S. Edward Law, Applied Electrostatics Laboratory, Driftmier Engineering Center, University of Georgia, Athens GA</li> </ul>	<i>Location: Scarbrough 1 (lobby level)</i>
	<b>3B. Organizing and Implementing Ag Film Collection Programs</b> <i>Moderator: Lois Levitan, NYS Recycling Ag Plastics Project, Cornell University</i> <ul style="list-style-type: none"> <li>Collection and Processing of Waste Agricultural Film Mulch: A Case Study from Florida – Eugene B. Jones, Southern Waste Information eXchange</li> <li>The BigFoot Baler for Ag Plastics – Dennis Sutton, DLS Inc.</li> <li>Think Plastics Ag Film Collection Program in Ontario, Canada – Chuck Sparks, President, Think Plastics</li> </ul>	<i>Location: Scarbrough 2 (lobby level)</i>
	<b>3C. Disposing of Obsolete Pesticides: Update from the States</b> <i>Moderator: Kevin Neal, Pesticide Investigator, Office of the Indiana State Chemist</i> <ul style="list-style-type: none"> <li>Larry Boyleston, South Carolina</li> <li>Tony Cofer, Alabama</li> <li>Steve Cole, Georgia</li> <li>Dale Dubberly, Florida</li> </ul>	<i>Location: Scarbrough 3 (lobby level)</i>
4:30-4:45	<b>Break</b>	
Concurrent Session 4 4:45-6:15p	<b>4A. Spray Drift: Current Regulatory Activity</b> <i>Moderator: Dave Scott, Pesticide Program Administration Manager, Office of the Indiana State Chemist</i> <ul style="list-style-type: none"> <li>Overview of EPA's PRN Notice for Pesticide Drift – Cathryn O'Connell, Team Leader, US EPA Office of Pesticide Programs</li> </ul>	<i>Location: Scarbrough 1 (lobby level)</i>
	<b>4B-C. Recycling Mini-bulk Containers: What's Happening and What Needs to Happen</b> <i>Moderated by Nancy Fitz, Chemical Engineer, U.S. EPA Office of Pesticide Programs</i> <i>Panelists:</i> <ul style="list-style-type: none"> <li>Managing Mini-bulks Made Obsolete in 2011 – Marty Fitzpatrick, Manager Product Stewardship, BASF Crop Protection</li> <li>ACRC's Involvement with Mini-bulk Recycling – J.D. Fish, Application Technology Manager, Bayer CropScience</li> <li>Pesticide Containers: Solving the IBC Handling and Recycling Puzzle – Steve Wiest, U.S. Market Segment Manager, Crop Production Services, Inc.</li> <li>North Carolina's Experience with Mini-bulk Recycling – Derrick Bell, LG, CHMM, Pesticide Disposal Assistance Program, North Carolina Department of Agriculture and Consumer Services</li> <li>Overview of EPA Project: Pilot Program to Collect and Recycle Non-Compliant Mini-bulk Containers – Margaret L. Jones, Environmental Scientist, Pesticides Section, US EPA Region 5</li> </ul>	<i>Location: Scarbrough 2 (lobby level)</i>
	<b>Joint session of pesticide disposal and recycling tracks</b>	
7-10p	<b>Grand Reception for Participants and Guests</b>	<i>Location: Windows (lobby level)</i>

TUESDAY - FEBRUARY 23, 2010		
7-8:15a	<b>Breakfast</b>	<i>Location Harborside East (lower level)</i>
7:15-8:15a	<b>Breakfast Roundtables</b> <b>Ag Container Recycling Council (ACRC) Pesticide Container Collection Services in East Coast States</b> Facilitated by Ron Perkins, Executive Director, ACRC, and Sam Gibson, USAg Recycling, ACRC Contractor <b>International Participation in TPSA</b> Facilitated by Don Mullins, Professor of Entomology, Virginia Tech and Rob Denny, Arrowchase Environmental Project Management	<i>Location Harborside East (lower level)</i>
7:30, 7:50, 8:20a	<b>Golf Course Pesticide Stewardship and IPM – transportation to Sessions 5-7D, 8:30a-2:45p</b> <i>Transportation provided from the hotel to The Club at Savannah Harbor via water taxi, leaving 7:30, 7:50 and 8:20a from the harbor.</i>	
<b>Concurrent Session 5</b> 8:30-10a	<b>5A. Spray Drift: Current Mitigation Measures</b> <i>Moderator: Scott Jackson, BASF</i> <ul style="list-style-type: none"> <li>• Aerial Application Optimization: <a href="https://agsync.com/">https://agsync.com/</a> – Jim Gaffney, BASF</li> <li>• Operation S.A.F.E for Spray Quality Performance/Web-based Decision-making – Dennis Gardisser, WRK of Arkansas</li> <li>• Drift Watch – Dave Scott, Pesticide Program Administration Manager, Office of the Indiana State Chemist</li> </ul>	<i>Location: Scarbrough 1 (lobby level)</i>
	<b>5B. Plastics to Oil and Fuel: Emerging Technologies, Regulatory and Economic Issues</b> <i>(Session 1 of 2—all presentations listed in the 5B timeslot, in alphabetic order by group or product name)</i> <i>Moderators, Roger Springman, WI Department of Agriculture, and Jim Garthe, Pennsylvania State University</i> These sessions will explore emerging technologies for converting waste plastic to crude oil, fuel and energy: the processes and applicability for handling dirty, wet ag plastic film, scale of operations, status of commercialization and implementation, regulatory and economic issues. <ul style="list-style-type: none"> <li>• Agri-Plas to Crude: Progress, Trials and Tribulations in Commercializing this Technology to Convert Ag Plastic Waste to Plastic Resins – Mary Sue Gilliland, VP for Development, Agri-Plas, Kizer OR</li> <li>• Balcones Fuel Technology Plastic-derived Fuel – Randy Wolf, VP L&amp;S Demolition Recycling and Business Development Manager-East, Balcones Fuel Technology, Conshohocken, PA</li> <li>• Plastofuel: Automating and Commercializing this WtE Process – James Garthe, Agricultural Engineer and Instructor, Department of Agricultural and Biological Engineering, Pennsylvania State University</li> <li>• <b>XXXTITLEXXX</b>– Eugene B. Jones, Southern Waste Information eXchange</li> <li>• Wood Residuals Solutions: Using Ag Plastic as a Bio-Fuel Enhancer – Tom Talbot, President, Glen Oak Lumber and Wood Residual Solutions, Montello, WI</li> </ul>	<i>Location: Scarbrough 2 (lobby level)</i>
	<b>5C. Emerging Technologies for Destruction of Obsolete Pesticides and Residues</b> <i>(Session 1 of 2—all presentations listed in the 5C timeslot)</i> <i>Moderator, Rob Denny, Arrowchase Environmental Project Management</i> <u>Introduction</u> <ul style="list-style-type: none"> <li>• The Mandate for Sustainable, Local Treatment and Destruction Technologies for Pesticides and other Persistent Organic Pollutants – Rob Denny, Arrowchase Environmental Project Management</li> </ul> <u>In Situ Residue Treatments</u> <ul style="list-style-type: none"> <li>• Enzyme Enabled Remediation of Pesticide Residues – Cameron Begley, CSIRO Entomology, Canberra, Australia</li> <li>• Total Degradation of Pure and Formulated Organophosphorous Pesticides by Catalytic Oxidation with FeIII-TAML and H2O2 – Soumen Kundu, Carnegie Mellon University, USA</li> </ul>	<i>Location: Scarbrough 3 (lobby level)</i>

	<ul style="list-style-type: none"> <li>• Remediation of Soils Impacted by Organochlorine Pesticides Using the DARAMEND® Technology – Andrzej Przepiora, Senior Hydrogeologist, EnviroMetal Technologies Inc., an Adventus Company</li> </ul> <p><u>Extraction and Destruction Technologies</u></p> <ul style="list-style-type: none"> <li>• Practical Aspects of Phytoextraction: Six Years of Field Studies at Sites Historically Contaminated with Persistent Organic Pollutants (POPs) – Barbara A. Zeeb, Royal Military College of Canada</li> <li>• The Fralma Mobile Unit for the Destruction of Pesticides and PCB-Contaminated Oil – Norah Pierdant and Rene Cornellier, FRALMA Technologie Inc., Quebec and BC, Canada</li> <li>• Radicalplanet® Technology (RPT): Alternative Technology for Destruction of Obsolete Pesticides – Kaoru Shimme, President, Radicalplanet Technology Research Institute Co. Ltd., Nagoya-City, Japan</li> </ul>
	<p><b>5D. Golf Course Pesticide Stewardship and IPM</b> <span style="float: right;"><i>Location: The Club at Savannah Harbor, access via water taxi</i></span>  <i>(Session 1 of 3, including lunch—all presentations listed in the 5D timeslot)</i>  Moderator, Kevin Neal, Office of the Indiana State Chemist.</p> <ul style="list-style-type: none"> <li>• Perceptions and Reality: Pesticide Use on Golf Courses – Dr. Clint Waltz, University of Georgia Turf Grass Management</li> <li>• Pesticide Law Enforcement, Indiana Golf Course Case Study – Joe Becovitz, Pesticide Program Specialist, Office of Indiana State Chemist</li> <li>• Golf Course Pesticide Application Practices and Use; Highlights from GCSAA's Golf Course Environmental Profile – Dr. Clark Throssell, GCSAA Director of Research</li> <li>• Pesticides and the Pros Preparing for PGA Event, IPM in the USGA – Lynn Childress, Course Superintendent, The Club at Savannah Harbor. After lunch, Lynn will lead a tour of the facility</li> </ul>
10-10:15a	<b>Break</b>
<b>Concurrent Session 6</b> 10:15-11:45a	<p><b>6A. Constructing Desirable and Practical Label Statements for Spray Drift Mitigation – a Facilitated Discussion</b> <span style="float: right;"><i>Location: Scarbrough 1 (lobby level)</i></span>  Moderator: Jay Ellenberger, US EPA</p> <ol style="list-style-type: none"> <li>Wind Direction and Speed – Dave Scott, Pesticide Program Administration Manager, Office of the Indiana State Chemist</li> <li>Temperature Inversions – Carol Ramsay, Washington State University</li> <li>Buffers and No Spray Zones – Gail Amos, Washington State Department of Agriculture</li> </ol>
	<p><b>6B. Plastics to Oil and Fuel: Emerging Technologies, Regulatory and Economic Issues</b> <span style="float: right;"><i>Location: Scarbrough 2 (lobby level)</i></span>  <i>(continuation of Session 5B)</i></p>
	<p><b>6C. Emerging Technologies for Destruction of Obsolete Pesticides and Residues</b> <span style="float: right;"><i>Location: Scarbrough 3 (lobby level)</i></span>  <i>(continuation of Session 5C)</i></p>
	<p><b>6D. Golf Course Pesticide Stewardship and IPM</b> <span style="float: right;"><i>Location: The Club at Savannah Harbor, access via water taxi</i></span>  <i>(continuation of Session 5D)</i></p>
11:45-noon	<b>Break</b>
Noon-1p	<b>Lunch</b> <span style="float: right;"><i>Location Harborside East (lower level) or at the Club at Savannah Harbor</i></span>
1-1:15p	<b>Break</b>

<b>Concurrent Session 7</b> 1:15-2:45p	<b>7A. Obtaining Efficacy and Drift Reduction</b> <span style="float: right;"><i>Location: Scarbrough 1 (lobby level)</i></span> <i>Moderator: Gail Amos, Washington State Department of Agriculture</i> <u>Applicator Tools for Optimizing Coverage, Minimizing Drift</u> <ul style="list-style-type: none"> <li>• Carolyn Baecker, CP Products</li> <li>• Will Smart, Greenleaf Technologies</li> </ul> <u>EPA's Drift Reduction Technology: Status of Process</u> – Jay Ellenberger, Associate Division Director, US EPA Office of Pesticide Programs
	<b>7B. Industry-Driven Product Stewardship: How Could It Work?</b> <span style="float: right;"><i>Location: Scarbrough 2 (lobby level)</i></span> <i>Moderator: Lois Levitan, Recycling Ag Plastics Project, Cornell University</i> <ul style="list-style-type: none"> <li>• Integrated Horticultural Alliance: Recycling Nursery Containers – Joe Farinacci, IHA</li> <li>• Industry Engagement in the Earth 911 Product Stewardship Model – Sandra Keil, Earth 911</li> <li>• Perspective of the Plastic Mulch Manufacturing Industry -- Dennis Sutton, Filmtek subsidiary of the Sigma Plastics Group</li> <li>• Perspective of a Plastics Recycler – Tamsin Ettefagh, Vice President, Envision Plastics</li> </ul>
	<b>7D. Golf Course Pesticide Stewardship and IPM</b> <span style="float: right;"><i>Location: The Club at Savannah Harbor, access via water taxi</i></span> <i>(continuation of Session 5D)</i>
2:45-3p	<b>Break</b>
<b>Concurrent Session 8</b> 3-4:30p	<b>8A. Roundtable: Action Plan to Move Ahead on Spray Drift Mitigation</b> <span style="float: right;"><i>Location: Scarbrough 1 (lobby level)</i></span> <i>Facilitator: Carol Ramsay, WSU</i>
	<b>8B. “TPSA Approved”: The Role of Standards/Certification and Green Purchasing in Moving Ag Plastic Markets Forward –</b> <span style="float: right;"><i>Location: Scarbrough 2 (lobby level)</i></span> <i>Roundtable facilitated by Roger Springman</i>
	<b>8C. Update on Implementing US EPA's Pesticide Container-Containment Regulations</b> <span style="float: right;"><i>Location: Scarbrough 3 (lobby level)</i></span> <i>Panel discussion moderated by Liza Fleeson, Program Manager, Office of Pesticide Services, Virginia Department of Agriculture and Consumer Services (VDACS)</i>  <u>Introduction</u> <ul style="list-style-type: none"> <li>• EPA's Pesticide Container-Containment Regulations – Nancy Fitz, Chemical Engineer, US EPA Office of Pesticide Programs</li> </ul> <u>Implementing the Pesticide Containment Regulations: Presentation and Discussion</u> <ul style="list-style-type: none"> <li>• Implementation of the New Pesticide Containment Regulations in Virginia – Jeff Rogers, Environmental Program Planner, Virginia Department of Agriculture and Consumer Services (VDACS)</li> </ul> <u>Implementing the Pesticide Container Regulations: Presentations and Discussion</u> <ul style="list-style-type: none"> <li>• Responsible Registrants Working via CopLife America to Implement the Container-Containment Rule – Marty Fitzpatrick, Manager Product Stewardship, BASF Crop Protection</li> <li>• Revising Repackaging Agreements to Comply with the Container-Containment Regulations – J.D. Fish, Application Technology Manager, Bayer CropScience</li> <li>• Container-Containment “Rules to Reality” for Retail Dealerships – Ed Cranson, Environmental, Health and Safety Manager, J.R. Simplot Company</li> </ul>
5p onwards	<b>Off-site event at Paula Dean's restaurant, “The Lady &amp; Sons” at the corner of Congress and Whittaker Streets</b>