TPSA 2011

Agricultural Plastics Stewardship Conference

Summary of What Happened and What's Next

Lois Levitan Recycling Agricultural Plastics Project

Dept Communication • Cornell University • Ithaca NY • envrisk@cornell.edu http://environmentalrisk.cornell.eduu/AgPlastics

http://tpsalliance.org

Cornell University

Prepared for the Great Lakes Commission Atmospheric Toxics Webinar Series, March 31, 2011



February 13-15, 2011

The Westin Riverwalk Hotel 420 West Market Street San Antonio, Texas USA 78205

http://tpsalliance.org

Pesticide and Agricultural Plastics Stewardship

11th Annual Conference

The Pesticide Stewardship Alliance (TPSA) is a non-profit organization that brings together technical experts, researchers, pesticide applicators, regulators, educators, crop protection industry, hazardous waste industry, agricultural plastic recyclers, environmental and public health constituents, students, and others to promote and support improvements in stewardship of pesticides and agricultural plastics in the United States and internationally.



1B and 1C. Current Minibulk Pesticide Container Recycling

- ACRC/AAI Minibulk Recycling Pilot Program
- Pilot Project in California to Recycle Minibulk Containers
- IFCA 2009 Illinois Mini-Bulk Recycling Project
- An Ongoing Minibulk Collection an Recycling Program
- Clean Tide Containers Ongoing Pesticide Container Collection and Recycling Program

Moderator: Cam Davreux, Vice President, CropLife Canada



Network with Stakeholders in Agricultural Plastics Production and Stewardship

Participants were given 5 minutes to tell the group:

- name and company/organization affiliation
- products or services company/organization provides
- resources and contacts needed to move plastics stewardship mission to the next level

Moderators: Mark Jordan, VP Sales & Marketing, Techmer PM, and James Garthe, Agricultural Engineer, Dept. Agricultural and Biological Engineering, Pennsylvania State University



The Backstory on Insecticide-Impregnated Netting Used for Vector Control

- Material and chemical composition of nets and packaging materials
- Life cycle of insecticide-impregnated netting
- Quantity used and thrown away
- Disposal plans and challenges
- Avenues and impediments for better stewardship
- Possible exposure points for humans/environment in reverse distribution

Panel coordinated by Robert L. Denny II, Arrowchase, Inc., Environmental Project Management, Vilnius, Lithuania



Product Stewardship of Agricultural Films

- What's happening?
- What's possible?
- What's needed to move forward?

Forum with agricultural plastics product manufacturers and distributors.

Moderators: Mark Jordan, VP Sales and Marketing, Techmer PM, and Barry Friesen, General Manager, CleanFARMS[™] Inc.



Completing the Circle: Promoting Purchase of Products Made from Recycled Agricultural Plastics

- Discussion of proposal for a campaign to identify, brand, and promote these products
- Consider creating an ecolabel for finished products that use recycled agricultural plastic as feedstock
- Discuss how these products and the ecolabel will be publicized and gain traction
- Proposal and background: Lois Levitan, Program Leader, Recycling Agricultural Plastics Project, Cornell University



Cement Kiln Fuel: Potential, Reality, and Constraints of Agricultural Plastics as a Fuel Alternative to Coal

- Agricultural Film Management in Florida Eugene B Jones, CEO, Southern Waste Information eXchange, Tallahassee, FL
- Alternative Energy Sourcing in the Portland Cement
 Production Industry Max Lee, Principal Engineer, Koogler Assoc
- Waste Agricultural Plastics as Fuel in Production of Cement in Guatemala – Keith Williamson, VP, Guardian Agricultural Plastics
- A New Look at an Old Technology: Cement Kilns and the Challenges Remaining for Destruction of Pesticide-Tainted Resins – Robert L Denny II, Arrowchase Inc, Vilnius, Lithuania

Organized by Eugene Jones and Keith Williamson



Getting Agricultural Plastics to the Marketplace: In-Field & In-Plant Equipment/Process Options

- Shredders and Granulators for Agricultural Plastics Scott White, Sales Manager, GranuTech Saturn Systems, Grand Prarie TX
- Collecting and Processing Agricultural Plastics Richard Marberger, Marketing Director, USAg Recycling, Waller TX
- Some Experiences with On-Farm Handling of Silo Film in WI Brian Holmes, Prof Biological Systems Engineering, U Wisconsin

 Survey of Compaction Equipment Commercially Available for On-Farm Baling of Dairy and Horticultural Film – Keith
 Williamson, VP, Guardian Agricultural Plastics, and Lois Levitan,
 Program Leader, Recycling Agricultural Plastics Projects, Cornell U

Organized by Roger Springman, Ag Plastics Management Consultant



8C. **Roundtable: What's Next for TPSA's Agricultural Plastics Stakeholder Group?**



What's Next for TPSA's Agricultural Plastics Workgroup

TASKS & PROJECTS

- Update/Expand TPSA Website
- Cement Kiln Fuel Standards
- Recycling Markets Database
- Promote Recycled Products
- Netting Experiments
- "Manual" for Agricultural Plastics Recycling Programs
- Workgroup Communication Plan

Update/Expand TPSA Website

Revise TPSA Website, adding language and visuals to better showcase the agricultural plastics arena.

 Project contacts: Roger Springman <hotpeppers2@frontier.com> and Lois Levitan <lcl3@cornell.edu>, TPSA Communication Committee

Cement Kiln Fuel Standards

Develop standards to support classification of agricultural plastics as a commodity, per EPA definition. *Objective*: Be able to use mulch film and other very difficult-to-recycle plastics as fuel alternative to coal in cement kilns.

 Sub-committee contacts: Gene Jones <gene@swix.ws> and Max Lee <mlee@kooglerassociates.com>

Recycling Markets Database

Develop a means to publicize recycling/manufacturing markets that will accept agricultural plastics. Begin by surveying potential markets to assess willingness, readiness and terms.

 Project contacts: Lois Levitan <lcl3@cornell.edu> and Gene Jones <gene@swix.ws> What's Next for TPSA's Agricultural Plastics Workgroup

Promote Products Made from Recycled Agricultural Plastics

Explore options and create means to identify, brand and promote products made from recycled agricultural plastics. Consider creating an ecolabel for these products.

 Sub-committee contact: Lois Levitan <lcl3@cornell.edu>. Members: Heather Barr, DAF Greenwood; Sandra Keil, Earth 911; Maria Mirsky, Mirsky Associates. Others welcome!

Netting Experiments

Work with processors to gain understanding of any issues/ difficulties in processing plastic netting (*e.g.*, hay and cotton bale nets, mosquito nets, grape vine netting, 'secure covers', etc.) and learn/disseminate information about equipment and processes that work (or don't).

 Project leaders: Roger Springman <hotpeppers2@frontier.com> and Brian Holmes <bjholmes@wisc.edu> What's Next for TPSA's Agricultural Plastics Workgroup

"Manual" for Setting Up Agricultural Plastics Recycling Programs

Collect and codify the information and experience that a number of workgroup members have gained. Develop a 'manual' comprised of decision points and the various approaches/models being taken.

Project contact: Lois Levitan <LCL3@cprnell.edu>

Workgroup Communication Plan

Objectives: • continue networking between conferences

- tangible progress on projects and tasks
- learn and disseminate information relevant to the field

To add your name to the group list, contact Lois Levitan <LCL3@cprnell.edu>

