

**Symposium on
Strategic Monitoring for Ecological Impacts from
Crops with Plant Incorporated Protectants**

**August 3 – 5, 2004
Washington, DC**

Schedule

Welcome		8:30
I. Opening Session:	Title/Topic	
Bob Frederick (<i>EPA/ORD</i>)	<i>Strategic Monitoring; Connections to Regulatory Oversight</i>	9:00
Philip Dale (<i>John Innes Center</i>)	<i>Current Thinking in Biotechnology Monitoring</i>	9:35
	<i>Coffee Break</i>	10:10
Greg Jaffe (<i>CSPI</i>)	<i>Public Interest Need to Monitor</i>	10:30
Thomas Nickson (<i>Monsanto Co.</i>)	<i>Industry Perspective on Strategic Monitoring</i>	11:05
	<i>Lunch</i>	11:40
II. Insect Resistance Development: A Monitoring Paradigm		
Sharlene Matten (<i>EPA/OPP</i>)	EPA Requirements for Monitoring of Insect Resistance to Bt (<i>Bacillus thuringiensis</i>) Toxins Expressed in Corn and Cotton	1:00
Bruce Tabashnik (<i>U. Arizona</i>)	Monitoring Insect Resistance to Bt Crops: What We've Learned So Far	1:35
Carlos Blanco (<i>USDA/ARS</i>)	Development of Strategic Monitoring Programs For Ecological Impact from PIPs: Tobacco Budworm/Bollworm from Cotton Areas	2:10
Tony Shelton (<i>Cornell U.</i>)	Insect Resistance Management in Bt Crops: Past, Present and Future	2:45
	<i>Coffee Break</i>	3:20
PANEL DISCUSSION	(Questions under consideration)	3:40
	<i>Lessons from IRM Monitoring</i>	
	<i>Purpose of Monitoring (Why, what, how)</i>	
	<i>How will Monitoring Data be Used</i>	
	<i>End Day 1</i>	5:00

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III. Monitoring for Ecological Effects

Jeff Wolt (<i>Iowa State U.</i>)	Stressor Monitoring for PIPs	8:30
Rick Hellmich (<i>USDA/ARS</i>)	Challenges for Field Research on Non-target Effects of Bt Crops	9:05
Janice Thies (<i>Cornell U.</i>)	<i>Soil ecosystems</i>	9:40
<i>Coffee Break</i>		10:15
L. LaReesa Wolfenbarger (<i>U. Nebraska</i>)	<i>Ecosystem monitoring/Trophic Levels</i>	10:30
Klaus Ammann (<i>Berne Botanical Gardens</i>)	<i>Biodiversity connections; Finding meaning in change; What does long term mean?</i>	11:05
Robyn Rose (<i>USDA/APHIS</i>)	Field Monitoring: A Regulatory Perspective	11:40
<i>Lunch</i>		12:15

IV. New Methodology/New Strategies

Neal Stewart (<i>U. Tennessee</i>)	Preharvest Monitoring of Plant Transgene Presence and Expression	1:15
Jay Reichman (<i>EPA/ORD</i>)	<i>Molecular methodologies</i>	1:50
Uwe Stolz (<i>EPA/ORD</i>)	Molecular Genetic Approaches to Pest and Nontarget Population Monitoring	2:25
<i>Coffee Break</i>		3:00
Wayne Parrott (<i>U. Georgia</i>)	Framing the Questions	3:20
BREAK-OUT DISCUSSIONS (Questions under consideration)		3:55
<i>Post-Monitoring Actions; Future Product Issues</i>		
<i>Designing Monitoring Plans, Impact of Gene Flow</i>		
<i>Monitoring Responsibility; Monitoring: Risk Assessment/Management Tool</i>		
<i>End Day 2</i>		5:00

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V. Informing Monitoring Design through Modeling

Michelle Marvier *Modeling and Monitoring Design* **8:30**
(*Santa Clara U.*)

Steve Bartell **Strategic Monitoring for Ecological Impacts from** **9:05**
(*Cadmus Group.*) **Crops with Plant Incorporated Protectants:**
 Realism and Relevance of Ecological Models

Coffee Break **9:40**

Terry Hurley **What can economists contribute to a strategic ecological** **10:00**
(*U. Minnesota*) **monitoring program for plant-incorporated-protectants?**

BREAK-OUT DISCUSSIONS (Questions under consideration) **10:35**

Evaluating Models
Statistics in Monitoring
Designing Monitoring Plans
New Technologies

VI. SUMMARY/CONCLUDING REMARKS **11:35**

Close Meeting **12:30**