



## **33<sup>rd</sup> National Agricultural Plastics Congress**

*presented by the American Society for Plasticulture*

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### *Papers to be Presented (as of October 24, 2006)*

#### **Session #1 – Friday, November 3 – 1:00 pm to 2:40 pm – Moderator: Jim Meeker Mulch Film Technology (4)**

1:00 pm – 1:20 pm Advances in High Performance Mulch Barrier Films

*Sam Sabbagh*

1:20 pm – 1:40 pm An Auto-Dibbling Machine for Plastic Mulch

*Matthew J. Lawrence, Dennis R. Buckmaster, William J. Lamont, Jr.*

1:40 pm – 2:00 pm Bell Pepper and Melon Production on Biodegradable Mulch

*Michael D. Orzolek and Bruce Dye*

2:00 pm – 2:20 pm Mulch Transfer Technology in Central Mexico

*Josefina Martinez S., Tomas Medina C., Marco A. Vuelvas C., Tomas Martinez S.*

#### **Ornamental Crop Production (2)**

2:20 pm – 2:40 pm Performance of Zinnia and Sunflower Cultivars Raised on Black Plastic Mulch for Cut Flower Production

*Jenny S. Carleo, Peter J. Nitzsche, Nicholas Polanin, Pedro Perdomo, George Wulster, Andy Wyenandt, Ann Brooks Gould*

2:40 pm – 3:00 pm Edible Flowers for Fresh Markets

*Ginny Rosenkranz*

#### **Session # 2 – Friday, November 3 – 1:00 pm to 2:40 pm – Moderator: Wesley Kline Plastics Technology (5)**

1:00 pm – 1:20 pm Update of the High Tunnel Research and Education Facility at Penn State University

*M.D. Orzolek, W.J. Lamont and C. Rasmussen*

1:20 pm – 1:40 pm A New Look at Making Plastic-Derived Fuel -- the Plastofuel 500

*M.J. Lawrence, James W. Garthe, Dennis R. Buckmaster*

1:40 pm – 2:00 pm Air Emissions from Fuel Made of Used Agricultural Plastics

*James W. Garthe, Bruce G. Miller, William J. Lamont, Michael D. Orzolek*

2:00 pm – 2:20 pm Florida Extension Programs Help Vegetable Growers Using Plasticulture to Improve Water and Nutrient Management

*R. C. Hochmuth, G. J. Hochmuth, E. H. Simonne, D. W. Studstill,  
J. H. Chandler, A. B. Tyree*

2:20 pm – 2:40 pm 5) Adopting New Plasticulture Techniques to Grow Organic Herbs in Florida Greenhouses

*R. C. Hochmuth, G. J. Hochmuth, R. K. Sprenkel, E. H. Simonne,  
D. D. Treadwell, L. S. Osborne, T. W. Olczyk and Y. C. Li*

**Session # 3 – Saturday, November 4 – 9:00 am to 10:20 am – Moderator: Bob Hochmuth  
Crop Production Systems (4)**

9:00 am – 9:20 am Broccoli (*Brassica oleracea* (Plenck) var. *italica*) Growth and Yield as Affected by Colored Mulches

*Juan C. Díaz-Pérez and John Silvoy*

9:20 am – 9:40 am Plastic-Covered Rainshelters for Vegetable Production in the Tropics

*Bernard A. Kratky*

9:40am – 10:00am Training Greenhouse Professionals: How a Non Profit Trade Development Center and State University have Teamed to Overcome Training Deficit in Food Crop Industry

*Le Craven, Ron J. Richman, Gene A. Giacomelli*

10:00am-10:20 am Use of Row Covers to Reduce Insect Damage in Crisphead Lettuce

*S. Jenni, D. Rekika , G. Boivin, and K. A. Stewart*

**Session # 4 – Saturday, November 4 – 11:00 am to 12:00 noon – Moderator: Dave Martin  
High Tunnels (3)**

11:00 am – 11:20 am Comparative Studies of Vegetable Production and Quality in Organic and Conventional High Tunnel and Open Field Plots in Kansas

*Ted Carey, Xin Zhao and Sharon Knewton*

11:20 am – 11:40 am Grower High Tunnel Modifications for Early Tomato Production

*William H. Tietjen*

11:40 am- 12:00 noon Comparative Small Fruit and Vegetable Production Studies Using a Multi-Bay (Haygrove) High Tunnel and Open Field Plots in Kansas

*Ted Carey and Sharon Knewton*

**Session # 5 – Saturday, November 4 – 1:00 pm to 2:40 pm – Moderator: Peter Nitzsche  
Fruit and Vegetable Production (5)**

1:00 pm – 1:20 pm Evaluation of Petiole Sap Testing for Plasticulture Strawberry Nutrient Monitoring in Pennsylvania

*K. Demchak, T. Elkner, S. Bogash, G. Perry, S. Guiser, and T. Butzler*

1:20 pm – 1:40 pm Alternatives to Plastic Mulch in Vegetable Production Systems

*Carol Miles, Kathryn Kolker, Jenn Reed and Gail Becker*

1:40 am- 2:00 pm Photosynthesis, Soil Temperature and Yield of Cucumber on Plastic Mulch Colors  
*Luis Ibarra-Jiménez, Alejandro Zermeño-González, Juan Munguía-López, Ma. Rosario Quezada-Martín and Boanerges Cedeño Rubalcava*

2:00 pm – 2:20 pm The Effect of Short-Term Soil Solarization with the Integration of Sodium Azide on Nematodes Disease (PRATYLENCHUS SPP.), and Growth Responses of 'King Arthur' Bell Pepper  
*C. Stevens, V. A. Khan, R. Rodríguez-Kábana , A. E. Fyffe, James E. Brown, and C. Denard Jr*

2:20 pm – 2:40 pm Fertilization of Fresh Market Tomatoes Produced Under High Tunnels  
*Ron Goldy, Virginia Wendzel and Darryl Warncke*

**Session # 6 – Saturday, November 4 – 3:00 pm to 4:00 pm –  
Moderator: Ginny Rosenkranz  
Drip Irrigation (3)**

3:00 pm – 3:20 pm Pressure Compensating Drip Tape Provides Increased Uniformity and Savings Over Traditional Drip Tapes  
*Bill Wolfram*

3:20 pm – 3:40 pm Irrigation Scheduling for Optimum Sweet Bell Pepper Production  
*H. G. Taber and V. Lawson*

3:40 pm – 4:00 pm Plasticulture Strategies to Improve Timing of N Availability to Shade Grown Tobacco  
*Tom Rathier and Merwin Brown*