

# **PLASTICULTURE 2003**

**August 16 – 19, 2003**

**Crowne Plaza, Grand Rapids, Michigan, USA**

**Papers to be presented as of July 18, 2003**

**\* denotes presenter (Sorted by session categories)**

## **Crop Production Systems with Plasticulture**

Controlling Thrips on *Gladiolus* with Silver Colored Plastic

*Virginia L. Rosenkranz\**

Plasticulture Production of Calabaza in New Jersey

*Peter J. Nitzsche\*, William Sciarappa, and Pedro Perdomo*

Plastic Mulch Film Performance- Durability and Yield

*Braionna M. Barber\*, Jonathan C. Conroy, and Sarah B. Owens*

## **Drip Irrigation/Chemigation**

New Pressure Compensating Drip Tape Provides Increased Emission Uniformity Over Traditional Drip Tape

*Perry Continentine\**

## **Greenhouses and Controlled Environments**

Advances in Liquid Radiation Filter Greenhouses

*Joseph Gale\*, R. Kopel, and A. Mosly*

Effects of Interference Pigments in Shading Paint For Greenhouses

*Burkhard von Elsner\* and Junrong Xie*

Environmental and Plant Growth Experiences in a Retractable Roof Greenhouse

*Gene Giacomelli\*, Armando Suarez, Merle Jensen, and Stephen Kania*

Study of Infinite Cultivation of Tomato in Solar Greenhouse

*Yuanxin Li\*, Wei Liu, Diankui Chen*

UV Stabilization of Greenhouse Film Covers- Experiences from an Additive Supplier

*Patricia Ruiz, Ivan Vulic, Brent Sanders\*, and John M. Zenner*

## **Mulch Film Technology**

Biodegradable Polymers – Mulch Films

*Michael Stephens\**

Evaluation of the Effects of Colored Plastic Mulch on *Lisianthus* and Snap Dragon Cut Flowers

*Charles Schuster, David A. Martin\*, Stanton Gill, and Suzanne Klick*

Light Transmission Through Colored Polyethylene Mulches Affects Weed Populations  
*Mathieu Ngouadio\**

New Biodegradable Mulches Support Melon Yields Similar to Black Plastic  
*Anusuya Rangarajan\* and Betsy Ingall*

Use of Mater-Bi Biodegradable Mulch Film in Europe  
*Marco Versari\* and Sara Guerrini*

What's New in Biodegradable Plastics  
*Tony Gioffre\**

### **Plastics Technology and Recycling of Plastics**

Broadening of Performance Window of Agrofilms Via New Additives Development  
*Jay Ghosh\*, Nicola Lelli, and David De Corte*

Used Agricultural Plastic as a Coal Fuel Supplement  
*James W. Garthe\*, B. G. Miller, R. S. Wasco, W. J. Lamont, and M. D. Orzolek - View photos*

### **Row Covers, Low Tunnels, and High Tunnels**

Design Factors For UV-Stabilized Non-Woven Fabrics for Agricultural Applications  
*Shannon Radcliffe\*, Ebrahim Mor, and Mark Jordan*

Developing a Successful High Tunnel Tomato Cropping System in the Central Great Plains  
*Lewis Jett\* and Andrew Read*

Effects of Woven, Black Plastic Mulch and Row Cover on Winter Squash and Pepper Production  
*George Dickerson\*, Steve Guldan, L. Michael English, and Patrick Torres*

High Tunnel Bramble Production  
*Kathleen Demchak, William J. Lamont\*, Michael D. Orzolek, and L. D. White*

High Tunnel Research and Extension for the Central Great Plains, USA  
*Edward E. Carey\*, D. Coltrain, L. Hodges, R. Janke, L. Jett, S. Kadir, D. Nagengast, J. Nechols, N. Tisserat, and K. Williams*

Intercropping Tomatoes with Cool Season Vegetables Within High Tunnels  
*J. S. Chism, Lewis W. Jett\*, and R. A. Read*

Predicting Temperatures in High Tunnels Using a Mathematical Model  
*Anil K Jayaprakash\*, Laurie Hodges, Kent Eskridge, and Daryl Travnicek*

Production of Alliums in High Tunnels  
*Michael D Orzolek\*, William J. Lamont, and Lisa White*

Production System for Vegetable Crops Grown in Penn State High Tunnels  
*William Lamont\*, Michael D. Orzolek, Lisa White, and Bruce Dye*

**Solarization Alternatives for Methyl Bromide**

Effect of Solarized Soil Amended with or Without Furfural Mixture or Urea on Damping Off of Pole Snapbeans

*Clauzell Stevens\*, V. A. Khan, R. Rodriguez-Kabana, M.A. Wilson, J.E. Brown, D. J. Collins, and A. E. Fyffe*

**Vegetable Production**

Availability of Mineralized N to Shade Tobacco Fertilized With Organic Meals Under Plasticulture

*Thomas Rathier\**

Effect of Color Plastic Mulch on Photosynthesis Growth and Yield of Potato

*Luis Ibarra-Jiménez\*, M.R. Quezada, J. Munguia, and B. Cedeño*

Effect of Colored Polyethylene Mulches on Fresh Market Tomato Growth and Yield

*Mathieu Ngouadio\*, Ronald Goldy, Sieglinde Snapp, and Bernard H. Zandstra*

Ethnic Eggplant Variety Trials on Black Plastic Mulch in New Jersey

*Michelle Infante-Casella\*, William Sciarappa, and Wesley Kline*

Influence of NutriPak Fertilizer on Yield of 'Better Boy' Tomatoes in Southeast Missouri

*M. A. Wilson\*, C. Stevens, D. Harp, and V.A. Khan*

Napropamide Effect on Newly Transplanted Tomato in Plastic Mulch

*Andrea Frost and Henry G. Taber\**

Peppers, Plastic, and Phytophthora Blight

*William H. Tietjen\*. Peter J. Nitzsche, and Wesley Kline*

Plastic Film Mulches as a Means to Modify Root Zone Temperature and Delay the

Appearance of Tomato Spotted Wilt Virus in Tomato

*Juan C. Díaz-Pérez*

7/18/03 peh