



34th National Agricultural Plastics Congress

presented by the American Society for Plasticulture

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Papers to be Presented *(as of February 28, 2008)*

Session #1 – Sunday, March 9 – 9:00 am -- 10:20 am – Moderator: Jim Meeker Mulch Film Technology (4)

- 9:00 am – 9:20 am A New Use for Metalized Mulch Film in Managing Greenhouse Pests
R. C. Hochmuth, W. L. Laughlin, R. K. Sprengel, and K. S. Smith
- 9:20 am – 9:40 am Effect of Mulch Color and Spinosad Sprays on Thrips Population, Size and Quality of Sweet Onion
Timothy E. Elkner and Shelby Fleischer
- 9:40 am – 10:00 am Eggplant (*Solanum melongena*) Growth and Yield as Influenced by Colored Plastic Film Mulches
Juan C. Díaz-Pérez and John Silvoy
- 10:00 am – 10:20 am Reflective Plastic Mulch increases Onion Bulb Yield and Repels Thrips
J. Reid, C. Hoepfing, K. Paneck

Session # 2 – Sunday March 9 – 9:00 am -- 10:20 am – Moderator: Peter Nitzsche Protected Crop Production (Tunnel / Greenhouse) (4)

- 9:00 am – 9:20 am Effect of planting date and row cover on high tunnel strawberry production
Daniel L. Ward, C. Andrew Wyenandt, Wesley L. Kline, June F. Sudal
- 9:20 am – 9:40 am High Tunnel Production of Greenhouse Cucumbers
J. Reid, N. Hoover
- 9:40 am – 10:00 am High Tunnel Yields Differ Among 20 Tomato Cultivars
Dr. Ron Goldy
- 10:00 am – 10:20 am Overview of Current High Tunnel Production, Research, Demonstration and Educational Activities in Oklahoma
Steve Upson

**Session # 3 – Sunday March 9 – 10:40 am -- 12:00 Noon – Moderator: Jon Conroy
Mulch Film Technology (4)**

- 10:40 am – 11:00 am Development of New Biodegradable Mulch Films: Chemical, Mechanical and Optical Properties
Thitisilp Kijchavengkul, Rafael Auras, Maria Rubino, Mathieu Ngouajio, R. Thomas Fernandez
- 11:00 am – 11:20 am Development of New Biodegradable Mulch Films: Field Performance with Tomato Production
M. Ngouajio, R. Auras, R. T. Fernandez, M. Rubino, J. Count, T. Kijchavengkul
- 11:20 am – 11:40 am Mirel: Compostable Biobased Plastics for a Sustainable Future
Peter Kelly
- 11:40 am- 12:00 noon Fumigation for Control of common Scab (*Streptomyces scabies*) in the potato variety EVA grown using Black Plastic Mulch and Drip Irrigation
William J. Lamont Jr., Michael D. Orzolek, and Bruce Dye

**Session # 4 – Sunday March 9 – 10:40 am -- 12:00 Noon – Moderator: Steve Upson
Crop Production Technologies (4)**

- 10:40 am – 11:00 am Growing Lettuce by a Float-Support Non-Circulating Hydroponic Method in Hawaii and Pennsylvania
B.A. Kratky, G.T. Maehira, E.J. Magno, M.D. Orzolek and W. J. Lamont
- 11:00 am – 11:20 am Improvement in Leaf Quality of Shade Grown Tobacco with Supplemental Applications of Soluble N under Plasticulture
Tom Rathier and Merwin Brown
- 11:20 am – 11:40 am Growing Bell Peppers in Soil-less Culture under Open Shade Structures
R. C. Hochmuth, D. D. Treadwell, E. H. Simonne, L.B. Landrum, W L. Laughlin and L.L. Davis
- 11:40 am- 12:00 noon Air Emissions from High-Temperature Combustion of Dirty Agricultural Plastics
James W. Garthe, P.E. and Stephen R. Turns

**Session # 5 – Sunday, March 9 – 1:00 pm -- 3:00 pm – Moderator: Judson Reid
Protected Crop Production (Tunnel / Greenhouse) (6)**

- 1:00 pm – 1:20 pm Production of High Tunnel Specialty Crops in Pennsylvania
B.A. Kratky, M.D. Orzolek, and W.J. Lamont
- 1:20 pm – 1:40 pm Evaluation of Strawberry Plug Plants Grown from Greenhouse Tips Versus Field Grown Tips
Peter Nitzsche, David Specca, Eugene Reiss, and Kathryn Homa
- 1:40 pm – 2:00 pm High Tunnel Bell Pepper Production Profitable for Iowa Growers?
Henry G. Taber

- 2:00 pm – 2:20 pm Sequence Plant High Tunnel and Field Tomatoes for Profit
Susannah Stoefer and Henry Taber
- 2:20 pm – 2:40 pm Plastic Covered Structures for Vegetable Production in Asia, Along with an Update on
New Technology for Heat Reduction in Greenhouse Structures
Anthony Chang and Mark Jordan
- 2:40 pm – 3:00 pm Greenhouse Protected Agriculture of Vegetable Crops at the University of Florida: An
Overview
Nicole L Shaw and Daniel J. Cantliffe

**Session # 6 – Sunday, March 9 – 1:00 pm -- 2:40 pm – Moderator: Tim Elkner
Crop Production Technologies (5)**

- 1:00 pm – 1:20 pm New Jersey's Agricultural Plastics Recycling Program Update
Dennis DeMatte, Jr., Karen Kritz and Wesley L. Kline
- 1:20 pm – 1:40 pm Comparison of N Fertigation Programs for Grape Tomato Grown with Plasticulture
A Gazula, E.H. Simonne, R.C. Hochmuth, J.H. Chandler, and D.W. Studstill
- 1:40 pm – 2:00 pm Splitting Drip Irrigation on a Sandy Soil Does Not Affect the Depth and Width of the
Wetted Zone
E. H. Simonne, R.C. Hochmuth, A. Gazula and D.W. Studstill
- 2:00 pm – 2:20 pm Edible Flowers for Fresh Market Growers
Ginny Rosenkranz
- 2:20 pm – 2:40 pm Hot Water Immersion of Nursery Plant Cuttings for Non-Chemical Control of Insects
and Mite Pests
Ginny Rosenkranz