

PLASTICULTURE 2002

30th National Agricultural Plastics Congress
February 23 – 26, 2002
DoubleTree Hotel Mission Valley, San Diego, California

*List of Papers presented (43) sorted by session categories
(* denotes presenter)*

CROP PRODUCTION SYSTEMS WITH PLASTICULTURE (12)

AA+Mulch System -- A Procedure for Mulching Immature Oil Palm
*Quah Yin Thye**, *Reventhiran, N.*, *Thomas Thomas*, and *Soh Aik Chin*

Advances in Nutrition Using a Full-Bed Plastic Mulch
*C. M. Geraldson**

Effect of NutriPak Fertilizer on Yield of Potatoes in Missouri
*M.A. Wilson**, *Derald A. Harp*, *V.A. Khan*, and *C. Stevens*

Effect of Plastic Mulch on Crop Production in North America, A Review of Six Sites
*Jon C. Conroy** and *Sarah B. Owens*

High Technology and Simple Bucket Kits That Help Feed a Hungry World
*R.D. Chapin**, *W.J. Roberts*, and *O.S. Wells*

Multi-cropping Plasticulture in the Mid-Atlantic Area
*H. E. Hohlt**

PEPP and Green Roof Research
*David J. Beattie** and *Robert Berghage*

Plastic Mulch Effect on Durability and Crop Response in California's Central San Joaquin Valley
*Don May**, *Richard Molinar*, *Sebastian Guillen*, and *Michael Yang*

Productive Performance of Four Varieties of Husk Tomato (*Physalis ixocarpa* Brot.) with Pressurized Irrigation in Dry Tropics
*J.F. Radillo**, *G.G. Jara*, and *L.J. Farias*

Resurfacing Semi-permanent Raised Plastic-Covered Beds for Multiple Cropping
*M. Newell** and *R. Rouse*

Selective Filtration of the Solar Radiation by Colored Shade Nets for Improved Fruit Maturation and Quality in Fruit Tree Orchards
*Y. Shahak**

Using Plastic Mulch for Successive Crops
*R.L. Parish**, *R.P. Bracy*, and *R.M. Rosendale*

ORNAMENTALS PRODUCTION (3)

Double Crop Cut Flowers for Direct Markets
*V.L. Rosenkranz** and *R. Rouse*

Influence of Plastic Mulch on Biomass Accumulation and Flowering in Daylily (*Heemerocallis*) Seedlings
*Charles W. Heuser, Jr.**, *William J. Lamont, Jr.*, *Michael D. Orzolek*, and *Jay Young*

Preliminary Evaluation of the Effects of Colored Plastic Mulch on Lisianthus Cut Flower Production
*David A. Martin**, *Stanton Gill*, and *Suzanne Klick*

GREENHOUSES AND CONTROLLED ENVIRONMENT AGRICULTURE (6)

Controlled Environment Agriculture Center (CEAC): Program of High Technology Agriculture in the Desert Southwest United States

*Gene A. Giacomelli**

Deep Flow Hydroponics — Past, Present, and Future

*Merle H. Jensen**

Potential for Greenhouse Aeroponic Cultivation of Medicinal Root Crops

Christopher L. Pagliarulo and Anita L. Hayden*

Production Procedures for Greenhouse Tomatoes in Arizona With a Focus on Nutrition in Hot Climates

Patricia A. Rorabaugh, Merle H. Jensen, and Gene A. Giacomelli*

Shading and Periodic Replacement of Nutrient Solution Improves Production of Hydroponically-grown Watercress

B.A. Kratky, G.T. Maehira, and R.J. Cupples*

Solar Radiation Availability for Plant Growth in Arizona Controlled Environment Agriculture Systems

Stephen Kania and Gene Giacomelli,*

PLASTICS TECHNOLOGY AND RECYCLING OF PLASTICS (8)

Baling Used Agricultural Plastic Using a Round Hay Baler

Ron Goldy and Steve Evans*

Converting Waste Agricultural Plastics to Boiler Fuel

*James W. Garthe**

Evaluation of Sedimentation in Plasticulture Production

S.B. Sterrett, H.E. Hohlt, and C.P. Savage, Jr.*

Factors Affecting the Stability of Agricultural Plastics

*Abe Mor**

Latest Developments in Stabilization and "Functionalization" of Agricultural Plastics

D. Horsey, N. Lelli, and R. King (presenter: Jay Ghosh)

Light Stabilization of Agricultural Films

*Ivan Vulic, Denise Ungar, and John M. Zenner**

Plastic Covering in Ontario Greenhouse Vegetable Industry

*Shalin Khosla**

Plastic Mulch Film -- Why Now?

*Victor J. Mimeault**

ROW COVERS, LOW TUNNELS, AND HIGH TUNNELS (4)

Mini-Tunnels as Tools to Reduce Bolting in Celery

*J.C. Cote, S. Jenni, and K.A. Stewart**

Production of Horticultural Crops in High Tunnels

W.J. Lamont, Jr., M.D. Orzolek, E.J. Holcomb, K.Demchak, E. Burkhart, L.D. White, and B. Dye*

Row Cover Microclimate on Peach Production in Northern Utah

*Dawn Gatherum**

Yield of Grafted and Non-Grafted Tomato Under Plastic Rain Shelters During the Hot-Wet Season in Taiwan

L.L. Black, M.C. Palada, and Y.C. Roan*

SMALL FRUIT PRODUCTION (2)

Environmental Modifications Using a Web-based Forecasting Service for the Production of Annual Plasticulture Strawberries

Michael Newell, Robert Rouse, and Dr. John Bouwkamp*

Forcing Strawberries for Thanksgiving/Christmas Holiday Season in Coastal South Carolina With Rowcovers

Robert J. Dufault, Richard L. Hassell, Brian K. Ward, Ty Phillips, and James Ballington*

SOLARIZATION AND FUMIGATION (2)

Effect of Solarized Soil Amended With or Without Furfural Mixture or Urea on Foliage Diseases of Pole Snapbeans

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

Effect of Summer Soil Solarization on Fall-Planted Lettuce

*Julio E. Hasing and Carl E. Motsenbocker**

VEGETABLE PRODUCTION (6)

Effect of Colored Mulch and Spunbonded Polyester Row Cover in Watermelon Production

*Ramon A. Arancibia and Carl E. Motsenbocker**

Effect of Different Colored Plastic in the Growth and Yield of Two Cultivars of Eggplant (*Solanum melongena* L.) in the Occident of Mexico

Valdez-Fields, F., R. Radillo-Juarez, and J. Farias-Larios*

Effect of Mulch Color on Muskmelon Production

M.D. Orzolek, W.J. Lamont, and L. Otjen*

Field Evaluation of Watermelon Grown on Paper/Polymerized Vegetable Oil Mulches

R.L. Shogren and R.C. Hochmuth*

New Mulching Types for Whitefly Management (*Bemisa tabaci* Gennadius) and Commercial Production of Watermelon (*Citrullus vulgaris* Schard) in Western Mexico

*Enrique Martínez Delgadillo, Javier Farias Larios, and José Gerardo López Aguirre**

Plant Growth and Yield of Tomato Grown Under Colored Mulches as Affected by the Time of Appearance of Symptoms of Tomato Spotted Wilt Virus

Juan C. Diaz-Perez, Darbie Granberry, Bikash Mandal, Denne Bertrand, and David Giddings*