

32nd NATIONAL AGRICULTURAL PLASTICS CONGRESS

LIST OF CONTRIBUTED PAPERS

CROP PRODUCTION SYSTEMS WITH PLASTICULTURE

Plastic Covering is a Powerful Means to Reduce Fruit Decay in Sweet Cherry

Jorunn Borve, Arne Stensvand, and Mekjell Meland

Production of Early/Specialty Potatoes Using Plasticulture

William James Lamont, Jr., Michael D. Orzolek, and Bruce Dye

Seeded Bermudagrass Fall Color Retention Improved by Plastic Mulches

F.J. Valverde, D.D. Minner, and H.G. Taber

Use of Artificial Substrates in the Production of Freshwater Prawn

Macrobrachium rosenbergii

David Yasharian

DRIP IRRIGATION/CHEMIGATION

Application of Agrichemicals Through Drip Tape for Pest Control in Vegetable Plasticulture Systems

Alex Csinos and Johan Deseager

Change in Mineral Composition of Forage Formulated with Four Feed Ingredients During Storage

Bilewu Iyiola Olalekan

Effects of Saline Irrigation and Plastic Mulch on Physiology and Yield of Bell Peppers

Dagobiet Morales-Garcia and Katrine Stewart

Irrigation Scheduling in a Drip System

Ron Goldy

Non-Circulating Hydroponic Methods for Growing Tomatoes

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

Response of Tomato to Drip Irrigation Initiated at Different Growth Stages

Mathieu Mgouajio and Ronald Goldy

GREENHOUSES AND CONTROLLED ENVIRONMENTS

Developing a Production System for Growing Organic Herbs Using Soilless Culture in a Greenhouse

Robert Hochmuth, Lei Lani Davis, Wanda Laughlin, Eric Simmone, and Richard Sprenkel

Modifying Fruit Quality in Greenhouse Tomato Cultivars with NaCl Additions

C.D. Harlow, M.M. Peet, and E.S. Larrea

Plastics in Controlled Environments for Exotic Applications

Gene Giacomelli, Phil Sadler, Lane Patterson, Stephen Kania, Merle Jensen, and Chieri Kubota

Selecting Substrates for Organic Transplant Production

E.S. Larrea, M.M. Peet, and C.D. Harlow

Tree-like Cultivation of Tomato for Sightseeing in Greenhouse

Yuanxin Li and Diankui Chen

MULCH FILM TECHNOLOGY

Effect of IRT Mulch and NutriPak Fertilizer on Yield of ‘Atlantic’ Potatoes in Southwest Missouri

M.A. Wilson, C. Stevens, and V. A. Khan

Effects of Color and Reflective Mulches on Insect Damage of Summer Squash

J. E. Brown, G. Gordon, H. Owens, C. Stevens, V. A. Khan, J. E. Burkett, M.A. Wilson, and A. E. Fyffe

Effects of Weathering on Plastic Mulch Properties and Performance

Mathieu Ngouajio and Jeremy Ernest

Evaluation of Reflective Mulch and White Inter-row Mulch for Increasing Yields of Bell Pepper

Mark G. Hutton, David T. Handley, and Tori L. Jackson

Flora Film – The Insect Repellent Mulch: A New Technique that Uses Plastic Mulch to Repel Insects and Protect Agricultural Crops

Earl H. Tryon

Improved UV Light Stabilizer Systems for Mulch and Solarization Films

Patricia Ruiz, Ivan Vucic, and John Zenner

Integrated Technology for Saving Energy, Water, and Fertilizer by Application of Drag-Reducing Polymers

Ram Prakash Singh, Kamlesh Narayan Tiwari, Pubali Adhikary and Ganesh Chandra Padhi

Role of Innovation in Additives Technology to Meet New Demands of Agricultural Plastics

Jay Ghosh

Thrips Control on Gladiolus with Silver Colored Plastic

V.L. Rosenkranz

TPU (Thermoplastic Polyurethane) Films for Soil Solar Disinfestations and Other Thermic Agricultural Applications

Uri Peled and Edoardo Saporiti

PLASTICS TECHNOLOGY AND RECYCLING OF PLASTICS

Agricultural Mulch Film – Performance and Affects

Jon Conroy, Braionna Barber, and Sarah Owens

First Analyses of Northeastern US Pilot Infrastructure for the Recovery & Recycling of HDPE Pesticide Containers and Other Rural Plastics

Robert L. Denny II

Plastic-Derived Fuel – Clean Heat Without Black Smoke

James W. Garthe, William J. Lamont, and Michael D. Orzolek

ROW COVERS, LOW TUNNELS, AND HIGH TUNNELS

Comparing Greenhouse Tomatoes in a New York high Tunnel

Judson Reid, Helene Dillard, Ann Cobb, and Howard Hoover

Evaluation of a High Tunnel Production System as a Means of Enhancing Market Opportunities for Alabama Growers

Phillip Sanders, J.M. Kemble, W. Foshee, and D. Fields

High Tunnel Tomato Production in New Jersey

W. L. Kline, A. J. Both, S. A. Garrison, J. F. Sudal, and E. E. Reiss

Summer Production of Cool Season Greens in Shaded High Tunnels

E.E. Carey, K. Kelly, R. Hail, and X. Zhao

Use of Biological Controls for Insect Management in High Tunnels

M.D. Orzolek, L. White, and W.J. Lamont, Jr.

SMALL FRUIT PRODUCTION

Observations from the Use of Reflective Plastic Mulch on Selected Wine
Grape Environment and Maturation Criteria

Joseph A. Fiola and David A. Martin

Two Years of Field Trials in North Carolina with Iodomethane (Midas) as a Pre-Plant
Fumigant

E. Barclay Poling and R. D. Schiavone

VEGETABLE PRODUCTION

Fresh Market Tomato Production with Red Plastic Mulch

H. G. Taber, V. Lawson, B. Smith, and R. Gansemer

Heirloom vs Hybrid Tomatoes on Plastic Mulch

William H. Tietjen, Peter J. Nitzsche, and W.L. Kline

Plastic Color and Composition Effect on Earliness, Yield, and Quality of Cantaloupe and
Bell Peppers in Central California

Don May, Blaine Hanson, and Richard Molinar

Tomatillo (*Physalis ixocarpa* Brot. Ex Hornem) Plant Growth and Fruit Yield as Affected
by Colored Plastic Film Mulches

Juan C. Diaz-Perez, Sharad C. Phatak, David Giddings, and Denne Bertrand

NON-PRESENTED PAPERS

Cropping System for Garlic (*Allium Sativum L.*) Using Plastic Mulch and Drip Irrigation

Josefina Martinez Saldana, Tomas Medina Cazares,

Marco A. Vuelvas C., and Tomas Martinez S.

Tomato and Strawberry Trials: Interim Report: Determinant vs Indeterminant Varieties in
Vertical Towers

Tim Carpenter

PLENARY PRESENTATION

Worldwide Changes in Food Marketing Affect Fresh Fruits and Vegetables:
Implications For Plasticulture

Roberta Cook