



21st Annual Tomato Disease Workshop November 9-10, 2006

North Carolina State University, Mountain Horticultural Crops Research & Extension Center, 455 Research Drive, Fletcher, NC 28732; (828) 684-3562

AGENDA

Wednesday, November 8th

7:30 p.m. Hors D'oeuvre Reception & Cash Bar, Holiday Inn Asheville Airport.

Thursday, November 9th

7:15 a.m. Shuttle vans arrive at hotel (Holiday Inn Asheville Airport).
(Wait in lobby at 7:15 am sharp if you need a ride to the research center).

Registration and Continental Breakfast at the Mountain Horticultural Crops Research & Extension Center.

8:35 a.m. **Welcome-** Dr. James Moyer, Department Head, Dept. Plant Pathology, NC State University.

Oral Presentations

8:45 a.m. Tomato Diseases: Lessons Learned in the North Carolina Mountains.
Paul B. Shoemaker, Professor Emeritus, North Carolina State University, Fletcher, NC.

9:20 a.m. Genetics and Adaptation of Tomato Spotted Wilt Virus to Single Gene Resistance.
James Moyer, North Carolina State University, Raleigh, NC.

9:40 a.m. Sources of Resistance to Pepino Mosaic Virus in *Solanum habrochaites*.
Kai-Shu Ling¹ and John W. Scott², ¹USDA-ARS, Charleston, SC, and ²University of Florida, Wimauma, FL.

10:00 a.m. Mapping of New Late Blight Resistance Genes in Tomato.
Majid R. Foolad, Heather Merk, Hamid Ashrafi, Chitta Kole and Matthew Kinkade, The Pennsylvania State University, University Park, PA.

10:20 a.m. Coffee Break.

10:50 a.m. Update on Breeding for Resistance to Late Blight and Bacterial Spot in North Carolina.
Randy Gardner, North Carolina State University, Fletcher, NC.

- 11:10 a.m. Evaluation of Resistance to Bacterial Canker of Tomato Transplants.
Yael Rekah, The Hebrew University of Jerusalem, Israel.
- 11:30 a.m. Effectiveness of Genetic Resistance and Lite Fungicides for Disease Control in Tomato.
Martha Mutschler and Thomas A. Zitter, Cornell University, Ithaca, NY.
- 11:50 a.m. Grafting: An Integrated Approach for Soilborne Disease Management.
Cary Rivard and Frank Louws, North Carolina State University, Raleigh, NC.
- 12:10 p.m. Lunch (provided by Laurey's Catering).**
- 1:10 p.m. Evaluation of Rootstock-Scion Performance under Organic and Conventional Field Production Systems.
David Francis¹, Alba McIntyre¹, Matt Kleinhenz², Sally Miller², ¹Dept. of Horticulture and Crop Science, Ohio State University; ²Dept. of Plant Pathology, Ohio State University.
- 1:30 p.m. Methyl Bromide Alternatives in Tomato Production.
Frank J. Louws, Rob Welker, Jim Driver, Katie Jennings and David Monks, North Carolina State University, Raleigh, NC.
- 1:50 p.m. Efficacy of Fungicides for Early Blight and Late Blight Control.
Thomas A. Zitter, Cornell University, Ithaca, NY.
- 2:10 p.m. Recent Research on Bacterial Canker in Greenhouse Tomatoes.
David M. Ingram, Mississippi State University, Raymond, MS.
- 2:30 p.m. Factors Which Affect Bacteriophage Survival on Leaf Surfaces.
Jeff B. Jones, University of Florida, Gainesville, FL.
- 2:50 p.m. Coffee and Snack Break.**
- 3:20 p.m. Leveraging Nature to Fight Bacteria with AgriPhage.
Randy Scott and Brett Jackman, OmniLytics, Inc., Salt Lake City, UT.
- 3:40 p.m. Kasumin- Vegetable Trial Data Review of a New Antibiotic.
Layne Wade, Arysta LifeScience, Technical Service- Western U.S.
- 4:00 p.m. Evaluation of Products for Control of Bacterial Spot on Tomato.
Kelly L. Ivors, Dreama Milks, Jordana Chalnick, and Chris Holmberg, North Carolina State University, Fletcher, NC.
- 4:20 p.m. Effects of Spray Applications on Epiphytic Populations and Disease Development of Bacterial Canker.
Chandra Howard, Ray Hammerschmidt and Mary Hausbeck, Michigan State University, East Lansing, MI.

- 4:40 p.m. Tomato Bacterial Soft Rot; Effect of Time Interval from Harvest on Fruit Water Uptake, and Diallel Analysis of Stem Scar Water Uptake. Sarah M, Smith, John W. Scott, and J.A. Bartz, University of Florida, Wimauma, FL.
- 5:00 p.m. Presentations end for the day.
- 7:00 p.m. Optional trip to downtown Asheville (vans leave from hotel). Limited seating. Sign up at registration desk.

Friday, November 10th

- 7:30 a.m. Shuttle vans arrive at hotel (Holiday Inn Asheville Airport).
(Wait in lobby at 7:30 am sharp if you need a ride to the research center).
- Continental Breakfast at the Mountain Horticultural Crops Research & Extension Center.
- 8:45 a.m. Web Blight: A New Foliar Disease of Tomato.
Kelly L. Ivors¹, Dreama Milks¹, Marc Cubeta², and Mark Lancaster³. ¹North Carolina State University, Fletcher, NC, ²North Carolina State University, Raleigh, NC, and ³United Ag Products, Hendersonville, NC.
- 9:05 a.m. Effect of Transition Strategy and Production System on Disease Development in Organic Tomatoes.
Sally Miller, Fulya Baysal-Tustas, Brian McSpadden-Gardener, John Cardina and Matthew Kleinhenz, Ohio State University - OARDC, Wooster, OH.
- 9:25 a.m. Coppers 101.
Bond McInnes, DuPont Crop Protection, Hahira, GA.
- 9:55 a.m. The North American Greenhouse Tomato Industry.
Michael E. Bledsoe, Village Farms, Heathrow, FL.
- 10:15 a.m. Coffee Break.**
- 10:40 a.m. Karin Tifft, Eurofresh Farms, Willcox, AZ.
- 11:00 a.m. Progress Report on Benefits of Winter-Grown Triticale Cover Crop for Tomato Production.
T.K. Hartz and Gene Miyao, Plant Sciences Department, UC Davis and UC Cooperative Extension, Yolo, Solano & Sacramento counties, CA.
- 11:20 a.m. Group Discussion on Post-Harvest Sour Rot.
Led by Jerry Bartz, University of Florida, Gainesville, FL.
- 11:45 p.m. Meeting Wrap-up and Assignment of Next Workshop Place and Time.
- 1:00 p.m. Optional Tour: MHCREC Greenhouses and Flavor 1st, a Local Re-packing Operation in Mills River, NC.**

POSTERS

An Advance in Copper Fungicide Formulation from DuPont.

A. Marcon, R. Williams, B. McInnes, R. Armstrong, L. Gaultney, T. Zaucha, C. Shepherd, R. Geddens and M. Martin. DuPont Agriculture and Nutrition, Newark, DE.

Evaluation of Products for Control of Late Blight on Tomato.

Kelly L. Ivors, Dreama Milks, Jordana Chalnack, and Chris Holmberg, North Carolina State University, Fletcher, NC.

Monarda as a Biological Control for *Pythium myriotylum*.

M. M. Clark, Kimberly D. Gwinn, and Bonnie H. Ownley. Department of Entomology and Plant Pathology, University of Tennessee, Knoxville, TN.

Biological Control of *Pythium myriotylum*.

M. M. Clark, Kimberly D. Gwinn, and Bonnie H. Ownley. Department of Entomology and Plant Pathology, University of Tennessee, Knoxville, TN.