

# 2014 NOA / NATIONAL ALLIUM RESEARCH CONFERENCE {Draft}

Scottsdale, Arizona – Scottsdale Conference Center

## Wednesday, December 3 - Arrival

6:00 – 8:30 pm      NOA / NARC Registration & Reception  
NARC Poster Setup

## Thursday, December 4 – NOA / NARC Meetings

7:30 – 8:15 am      NOA / NARC Breakfast & Introduction to Merged Event  
7:30 am – noon      NOA / NARC Conference Registration – continued  
8:15 am – noon      NOA Committees; Break; Board of Trustee Meeting

### NARC Session I

8:15 – 8:45 am

Moderator: Howard Schwartz, Colorado State University

***Factors Critical to the Development of Bacterial Rots of Onion: A Strategy.***  
Jean M. Bonasera, Jo Ann E. Asselin and **Steven V. Beer**; Section of Plant Pathology and Plant-Microbe Biology, School of Integrative Plant Science, Cornell University, Ithaca NY

8:45 – 9:15 am

***Foliar Bacterial Disease Severity and Its Use as a Threshold to Time Sweet Onion Harvest.*** Emily E. Pfeufer and **Beth K. Gugino**; The Department of Plant Pathology and Environmental Microbiology, The Pennsylvania State University, University Park, PA

9:15 – 9:45 am

***Survey of Bacterial Diseases in Onion in Michigan and Identification.***

**Kim Eang Tho**<sup>1</sup>, Prissana Wiriyaitsomboon<sup>1</sup>, Jan M. Byrne<sup>2</sup>, and Mary K. Hausbeck<sup>1</sup>; <sup>1</sup>Department of Plant, Soil and Microbial Sciences, Michigan State University, <sup>2</sup>Diagnostic Services at Michigan State University, East Lansing, MI

9:45 – 10:00 am

BREAK

10:00 – 10:30 am

***Interactions between Tobacco Thrips (*Frankliniella fusca* (Hinds) and *Pantoea ananatis* ((Serrano) Mergaert et al.), Causal Agent of Center Rot of Onion.*** **Bhabesh Dutta**, Dept. of Plant Pathology, Univ. of Georgia; Apurba Barman, Dept. of Entomology, Texas A&M Univ.; Rajagopalbabu Srinivasan, Dept. of Entomology, Univ. of Georgia; Ronald Gitaitis, Dept. of Plant Pathology, Univ. of Georgia; Diane Ullman, Dept. of Entomology & Nematology, UC Davis; David Langston, Tidewater Agr. Res. & Ext. Ctr, Virginia Tech. Univ.

10:30 – 11:00 am

***Survival of *Escherichia coli* on Dry Bulb Onions during Field Curing and Packout.*** **Stuart Reitz**, Malheur County Extension, Oregon State University, Ontario, OR; Clinton C. Shock, Malheur Experiment Station, Oregon State

University, Ontario, OR; Rocco Roncarati, Malheur County Extension, Oregon State University, Ontario, OR; Harry Kreeft, Western Laboratories, Parma, ID

11:00 – 11:45 am ***Micronutrient Effects on Sour Skin Severity.*** **Anna Selph**, Department of Plant Pathology, University of Georgia, Tifton, GA; **Ron Gitaitis**, Department of Plant Pathology, University of Georgia, Tifton, GA; Bhabesh Dutta, Department of Plant Pathology, University of Georgia, Tifton, GA; David Burrell, National Onion Labs, Inc., Collins, GA

11:45 – 12:00 pm Open Discussion

LUNCH NOA / NARC participants

**NOA / NARC Session II** Moderator: Juan Carlos Brevis, Bayer Crop Science

1:30 – 2:30 pm NOA Presentations  
***Manager's Report: U.S. Onion Situation.*** Wayne Mininger, NOA

***Consumer Perceptions About Food & Agriculture.*** Kim Reddin, NOA

2:30 – 3:15 pm ***FSMA / FDA Supplementals and Implications for the Onion Industry.*** Joy Waite-Cusic, Oregon Dept. of Agriculture / Oregon State Univ.

3:15 – 3:45 pm BREAK

3:45 – 4:15 pm ***Varietal Differences in Phenolic Content and Anti-Cancer Potential of Western Long-Day Onions.*** **Michael Bartolo**<sup>1</sup>, Thaddeus Gourd<sup>2</sup>, Timothy Waters<sup>3</sup>, Carrie Wohleb<sup>3</sup>, Zongjian Zhu<sup>4</sup>, Weiqin Jiang<sup>4</sup> and Henry Thompson<sup>4</sup>.  
<sup>1</sup>Colorado State University, Arkansas Valley Research Center; <sup>2</sup>Colorado State University, Extension; <sup>3</sup>Washington State University, Extension; <sup>4</sup>Colorado State University, Cancer Prevention Laboratory

4:15 – 4:45 pm ***Forty Years of Onion Variety Trials.*** **Erik Feibert**, Clint Shock, Lamont Saunders. Malheur Experiment Station, Ontario, OR

4:45 – 5:00 pm Open Discussion

6:30 pm NOA / NARC Reception / POSTER Session / Dinner Buffet

## Friday, December 5 – NOA / NARC Meetings

7:00 – 8:00 am NOA / NARC Breakfast

NARC Session III Moderator: Mark Uchanski, New Mexico State University

8:00 – 8:30 am *Phylogeography of Iris yellow spot virus (Tospovirus: Bunyaviridae).*  
**H.R. Pappu**, Department of Plant Pathology, Washington State University,  
Pullman, WA

8:30 – 9:00 am *Effect of Potassium on IYSV Incidence and Symptom Expression in Onion.*  
**Claudia Nischwitz**, Utah State University, Dept. of Biology, Logan, UT; and  
Howard Schwartz, Colorado State University, Dept. of Bioagricultural Sciences  
and Pest Management, Fort Collins, CO

9:00 – 9:30 am *Epicuticular Waxes on Onion Leaves and Associated Resistance to Onion  
Thrips.* Steven J. Damon, Russell L. Groves, Departments of Horticulture,  
Entomology; and **Michael J. Havey**, USDA-ARS, University of Wisconsin,  
Madison, WI

9:30 – 10:00 am BREAK

10:00 – 10:30 am *Incorporating Host Plant Resistance into an IPM Program for Onion Thrips.*  
**Brian A. Nault**, Dept. of Entomology, Cornell University, New York State  
Agricultural Experiment Station, Geneva, NY

10:30 – 11:00 am *Thrips Control Strategies for Dry Bulb Onions in Washington State.*  
**Tim Waters**, Washington State University Extension Franklin and Benton  
Counties, Pasco, WA

11:00 – 11:30 am *Management of Perennial Sow Thistle (Sonchus arvensis) in Onions in New  
York.* **Christine Hoeping** and Elizabeth Buck, Cornell Cooperative Extension  
Regional Vegetable Program, Albion, NY

11:30 – 12:00 pm Open Discussion

LUNCH NARC participants

NARC Session IV Moderator: Tim Waters, Washington State University

1:00 – 1:30 pm *Characterization of Setophoma terrestris Populations in Michigan Onion  
Fields and Fungicide Testing.* **Prissana Wiriyajitsomboon** and M.K.  
Hausbeck, Department of Plant, Soil and Microbial Sciences, Michigan State  
University, East Lansing, MI

1:30 – 2:00 pm *Fungicides and Spray Timing for the Management of Stemphylium Leaf Blight  
of Onion.* **Mary Ruth McDonald**, Michael Tesfaendrias and Kevin Vander  
Kooi. Dept. of Plant Agriculture, University of Guelph, Guelph, ON

- 2:00 – 2:30 pm *Peroxycompounds - An Overview of Chemistry and their Applications in Onion Disease Management.* **Vijay Kumar Choppakatla**, Biosafe Systems, East Hartford, CT
- 2:30 – 3:00 pm BREAK
- 3:00 – 3:30 pm *Does Furrow or Drip Irrigation Qualify as an Indirect Method to Irrigate Onions?* **Clinton C. Shock**, Stuart R. Reitz, Rocco A. Roncarati, Jose M. Pinto, T.A. Laubacher, R.D. Ross, A.C. Mahony, H. Kreeft, and Byron M. Shock; Oregon State University Malheur Experiment Station, Ontario, OR
- 3:30 – 4:00 pm *Evaluation of Arbuscular Mycorrhizal Fungi in Onion Production in the Columbia Basin of Washington and Oregon.* Lindsey du Toit, Jenny Knerr, Dipak Sharma-Poudyal, and Tim Paulitz, Washington State Univ., USDA-ARS
- 4:00 – 4:30 pm *Should Onion Storage in Wooden Totes be Abandoned and the Totes Replaced by Plastic Bins?* **Clinton C. Shock**, Stuart R. Reitz, Rocco A. Roncarati, Jose M. Pinto, H. Kreeft, and Byron M. Shock; Oregon State University Malheur Experiment Station, Ontario, OR
- 4:30 – 5:00 pm Open Discussion
- 6:30 pm NOA / NARC Reception / POSTER Session
- 7:30 pm Dinner Banquet

### **Saturday, December 6 – NOA / W2008 / Other Meetings**

- 7:30 – 8:30 am NOA / NARC / W2008 Breakfast
- 8:30 – 9:30 am NOA Crop Reports
- 9:30 am - noon **W2008 Research & Extension Committee Reports** (open to all)
- Noon – 1:00 pm Lunch (on your own)
- 1:00 – 3:00 pm Onion & Garlic **Germplasm Subcommittee** (open to all)
- 3:00 – 5:00 pm Specialty Crop Research Initiative **Grant Planning** (open to all)

**LIST OF NARC POSTER AUTHORS AND TITLES** {Poster Size = 36" by 36"}

Gourd, Schwartz, Hammond, Moore, Sakata	Colorado State Univ	Poster 1	A comparison of <i>Fusarium oxysporum</i> tolerance among forty onion varieties under field growing conditions
Mandal & Cramer	New Mexico State Univ.	Poster 2	Selection progress for <i>Fusarium</i> basal rot resistance in onions
D'Angelo, Goldman	U of Wisconsin	Poster 3	Vernalization, dormancy, and the annualization of onion ( <i>Allium cepa</i> ) for breeding
Havey, Khrustaleva	U. of Wisc., USDA	Poster 4	Why are there so many molecular markers tagging the <i>Ms</i> locus of onion?
Duangjit, Welsh, Wise, Havey	Thailand, CA, WI, USDA	Poster 5	Genetic analyses of anthocyanin concentrations and the intensity of red color in onion
Drost, Alston, Nischwitz, Reeve	Utah State University	Poster 6	Assessment of on-farm practices and their influences on thrips, IYSV and productivity
Dutta, Gitaitis, Courtinho, Langston	U of GA, South Africa, Virg Tech	Poster 7	A novel pathovar of <i>Pseudomonas coronafaciens</i> (pv. <i>morsceparum nov.</i> ), responsible for yellow bud of onion
Bonsera, Asselin, Beer	Cornell	Poster 8	Bacterial rots of onion in New York and novel techniques to identify the culprits
Schroeder	U of Idaho	Poster 9	Bacterial diseases ? {Tentative}
Vander Kooi, McDonald	Univ. of Guelph	Poster 10	Influence of surfactants on control of onion thrips and <i>Stemphylium</i> leaf blight of onions in Ontario, Canada
Gregg, Hernandez, Alabi	Texas A&M	Poster 11	Incidence and distribution of foliar pathogens of onions in the Lower Rio Grande Valley of South Texas
Schwartz, VanKirk	CSU, NCSU	Poster 12	Onion <i>ipm</i> PIPE: A coordinated effort to improve the management of onion thrips and <i>Iris yellow spot virus</i> for the U.S. onion

			industry
Velasquez, Pappu, et al.	Wash. State Univ, Mexico	Poster 13	Identification and molecular characterization of <i>Iris yellow spot virus</i> ( <i>Tospovirus: Bunyaviridae</i> ) in onion nurseries in Zacatecas, Mexico
Cramer	New Mexico State U	Poster 14	Progress for reduced thrips number and Iris Yellow Spot in onions
Vander Kooi, McDonald	Univ. of Guelph	Poster 15	Insecticide control of onion maggot and seed corn maggot in onions in Ontario, Canada
Hoeping	Cornell	Poster 16	Cornell onion thrips management program for New York onion growers valued at one million per year