
NW Small Fruit Notes

NORTHWEST CENTER FOR SMALL FRUITS RESEARCH

4845 B SW Dresden Ave, Corvallis, OR 97333
Phone: 541-758-4043 Fax: 541-758-4553 pnwa@comcast.net www.nwsmallfruits.org

Fall 2005

2005 Annual Conference in Portland

The Northwest Center for Small Fruits Research (NCSFR) Annual Conference will be held at the Doubletree Hotel Lloyd Center, 1000 NE Multnomah, Portland, Oregon.

1) Registration (Registration Form Enclosed)

Due to the increasing hotel costs for putting on the NCSFR Annual Conference, we are asking everyone who plans to attend to contact us at your earliest convenience. Please feel free to fax us your registration form ahead of time - your registration fee can arrive separately. We need a headcount for attendance and would appreciate hearing from you as soon as possible. Thanks!

2) Hotel Accommodations 800-996-0510

or 503-281-6111 Hotel reservations at the DoubleTree Hotel Lloyd Center must be made by **November 16th**, to receive a special conference rate. Be sure to tell them you are attending the *Northwest Center for Small Fruits Research Conference*.

3) Main Conference Day - Thursday, December 1st (Draft Schedule Enclosed)

- Technical Working Group Meetings
- Commodity Priority Review/Setting
- Oregon Wine Tasting/Reception
- Dinner & Keynote Speaker

Attendees of the NCSFR Annual Conference will have the opportunity to hear research presentations and reports from five technical

working groups (Genetics, Berry & Grape Processing, Wine Processing, Production/Physiology, and Pest Management), participate in round table discussions, and help set research priorities for the Center, which will be used for special research grant considerations next year.

4) Research Priorities - Commodity Groups

During the Annual Conference, time is set aside to revisit the research priorities. Please review these priorities within your commodity groups prior to the conference and come prepared for discussion. To ensure balanced outcomes, we strongly encourage small fruit industry members to attend and participate in these research priority discussions. You can find copies of the most recent priorities at www.nwsmallfruits.org.

5) Committee Meetings - Friday, Dec. 2nd

- Advisory Council – 8:00 am
- Liaison Committee – 9:00 am
- Coordinating Committee – 10:30 am

6) Pesticide Recertification

Once again, we will be offering pesticide recertification credits for Oregon, Washington and Idaho for this year's conference.

RESEARCHER REPORTING INFO INSIDE ➔

Thomas Bewick to Give Keynote Address

Dr. Tom Bewick is the National Program Leader for Horticulture with the USDA's Cooperative Research, Education and Extension Service (CSREES). CSREES is the federal partner in the land-grant university system. Tom received his B.S. degree from the University of California - Davis in Olericulture and his M.S. and Ph.D. in Horticulture from the University of Wisconsin - Madison. He served on the faculty of the Horticultural Sciences Department at the University of Florida from 1987 to the end of 1996. From 1997 until 2000 he served as the Director of the University of Massachusetts Cranberry Experiment Station. Since moving to the USDA in 2000, Tom has directed competitive grant programs in a variety of areas and managed an extensive portfolio of

Thomas Bewick Continued From Page 1

base program and non-competitive grants related to a broad array of horticultural crops.

During his academic career, Tom taught in the classroom extensively and directed the programs of numerous graduate students and post-doctoral associates. His research centered on the management of weeds using indigenous plant pathogens and he holds two U.S. patents for that purpose. One of his discoveries, *Alternaria destruens*, has recently been approved by EPA for use in the control of dodder. The product is to be marketed under



the name Smolder®.

Tom lives with his wife, Elizabeth, and two sons in rural King George County, Virginia, where his hobbies include landscaping, gardening, bird watching, fishing and golf with his family.

Tom's presentation is titled: *From Minor Crops to Specialty Crops: a Change in Attitude in Horticulture*. Tom will update the audience on recent legislation related to small fruits and national efforts to develop a strategic research and extension plan for Horticulture.

NCSFR Welcomes Jungmin Lee

The Northwest Center for Small Fruits Research welcomes it's newest scientist Jungmin Lee. In October 2004, she joined the USDA-ARS Horticultural Crops Research Unit as a Research Food Technologist at the Parma Research and Extension Center of the University of Idaho. In her new position, Jungmin is developing a research program evaluating the influence of horticultural and enological practices on the quality of wine produced from grapes grown in the inland Pacific Northwest.

Jungmin received her Ph.D. in Food Science and Technology from Oregon State University in January 2004, working with Ron Wrolstad on phenolic compounds influencing quality of processed blueberry products. After receiving her Ph.D., she developed analytical methods for characterizing secondary metabolites present in food products, as a postdoctoral scientist with the USDA-ARS in Beltsville, Maryland. She has exceptional expertise in the area of analytical approaches for assessing the chemical composition of food products, with a focus on those factors influencing product quality.

Jungmin's initial efforts are concentrated on establishing a working food chemistry laboratory, and understanding what problems affect Idaho wine grapes and wine, and what

unique qualities they may have as well. She is interested in all components of wine grapes and wine from a food chemist's standpoint.

Initially, she will be analyzing commercially available Idaho wines. She also plans to analyze grapes, must, and wine from vineyards and wineries within Idaho's proposed Snake River appellation, and then compare those results with samples obtained from established wine growing regions with similar geographic and climatic conditions (such as eastern Washington, parts of Australia, Spain, and South Africa.)

Her program will examine the biochemical components in wine grapes, must, and wine that are indicators of fruit, and fruit product, quality from a food chemistry standpoint. She will also establish a functional laboratory for routine analysis of anthocyanins, phenolics, amino acids, antioxidants, and color measurement. She is collaborating with viticulturists and horticulturists to extend their projects to understand how fruit and wine qualities are influenced by the various field treatments.

From her work she expects to obtain a baseline of where the industry is currently and eventually apply different wine making processes to enhance the final product. She also expects to determine economical, quick, and simple analysis methods that small wineries could implement.

Tom Walters, New Small Fruit Horticulturist at WSU

Tom Walters has joined the staff of WSU's Mount Vernon Northwest Washington Research and Extension Center in the new position of small fruit horticulturist. He began August 1st.

Tom is no stranger to the challenges of small fruit horticulture in Northwest Washington. For the past seven years he has worked in the field for Sakuma Brothers Farms, Inc. in Burlington, Wash. While with Sakuma Brothers, he was responsible for research supporting nursery and fruit production on more than 500 acres in Washington state, and for strawberry nursery production of 180 million plants annually in California.

"We're pleased to have Tom joining our research and extension staff, particularly since he's already familiar with the region and knows many of the area's small fruit growers," says NWREC interim director Debbie Inglis. "Filling this new position is a major step in the expansion of the center and its mission to serve agriculture in Northwest Washington and across the state."

One exciting aspect of the position is that he will be working with small fruit growers statewide. "I've gotten to know the industry in the northwest part of the state, but growing conditions vary widely across the state so I'm excited about gaining a statewide perspective," says Tom.

Tom is interested in improving plant physiology, particularly in raspberries and blueberries, to make them more suitable for mechanical harvest, which will reduce production costs for growers. His research will also focus on ways to extend the growing season through growing techniques and introducing new varieties, and in improving yields and quality through better irrigation management.

Tom earned his Ph.D. from Cornell University with an emphasis on field plant breeding, and holds a B.A. in biology from Reed College in Portland, Oregon.

Call for Oregon Wines for the Annual Conference

Every year the NCSFR annual conference holds a wine tasting/reception in the evening. As is the tradition, the winemakers of the hosting state provide the wine for the event. So, we are putting out a formal request to the Oregon wineries to please let us know if you can bring some of your latest and greatest vintages to share with our members. A mix of reds and whites would be greatly appreciated. Thanks!



Doubletree Hotel Lloyd Center

1000 NE Multnomah, Portland 503-281-6111

From Airport: Follow Airport way to I-205 South. Then take I-84 West, go approximately 5 miles to exit 1 Lloyd Blvd. Go to the second light off of the exit and take a right. Go 1 and 1/2 blocks and Lloyd Center is on the left.

From the North (on I-5): Take Rose Quarter-City center exit 302A. Take a left at the second light (Weidler). Go to 9th Avenue and take a right. Go to the second light and the hotel is on the left.

From the South (on I-5): Take Rose Quarter-City center exit 302A. At the first light, take a right on Weidler. Go to 9th Avenue and take a right. Go to the second light and the hotel is on the left.

Airport Transportation: MAX light rail system. Take the Red Line from Portland International Airport to the Lloyd Center/NE 11th Ave MAX Station. (No hotel shuttle service is available)

Northwest Small Fruit Notes is a publication of the Northwest Center for Small Fruits Research 4845 B SW Dresden Ave, Corvallis, OR 97333 Phone: 541-758-4043

NORTHWEST CENTER FOR SMALL FRUITS RESEARCH

4845 B SW Dresden Ave. • Corvallis, Oregon 97333
Voice 541-758-4043 • Fax 541-758-4553 • E-mail pnwa@comcast.net • www.nwsmallfruits.org

REGISTRATION FORM 2005 ANNUAL CONFERENCE

DOUBLETREE HOTEL PORTLAND-LLOYD CENTER

1000 NE Multnomah, Portland, OR 97232 Information: 503-281-6111 Reservations: 800-996-0510
Thursday – 12/1 MAIN CONFERENCE DAY Friday – 12/2 COMMITTEE MEETINGS

NOTE: If you plan to attend, please contact us at your earliest convenience. Feel free to fax us your registration form ahead of time - your registration fee can arrive separately. We need a headcount for attendance and would appreciate hearing from you as soon as possible. Thanks!

Conference Registration Fee Includes: All sessions, lunch, evening reception, and conference proceedings that will be mailed when published after the conference.

EARLY REGISTRATION DEADLINE: FRIDAY, NOVEMBER 4TH

For registration refund, cancellation must be made by Friday, November 18th

Name(s): _____

Institute or Agency: _____

Department or Business Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ E-mail: _____

Please check if you would like vegetarian meals for lunch & dinner

	Conference Fee	Number Attending	Totals
Pre-Registration	\$ 85		\$
Late Registration	\$ 95		\$
Student/Grad-Student Rate <i>Salaried technicians do not qualify for this rate.</i>	\$ 45		\$
Dinner/reception for non-attending spouse/guest	\$ 30		\$
Total			\$

Make Check Payable To: Pacific Northwest Administration (We do not take VISA)

Participant's Name	Notes
<input type="checkbox"/> Cash <input type="checkbox"/> Check# _____ Date paid ___/___/___	_____
OFFICE USE For Checks: <input type="checkbox"/> Institution <input type="checkbox"/> Business <input type="checkbox"/> Personal Name on check _____	_____
Total Payment: Individual \$ _____ Group \$ _____	_____

NORTHWEST CENTER FOR SMALL FRUITS RESEARCH

2005 ANNUAL CONFERENCE SCHEDULE OF EVENTS

Portland, Oregon

DRAFT

Thursday, December 1st

❖ **7:00 am - 8:00 am** **TWG Breakfast Briefing** *Portland*
 Technical Working Group officers only please

❖ **7:15 am - 12:00 pm** **Registration** *Cascade Foyer*

❖ **8:00 am - 9:00 am** **General Session** *Mt. Hood/Mt. St. Helens*

❖ **9:15 am - 12:00 pm** **Technical Working Group Meetings**

Pest Management TWG
Sisters – Ryan Brown, Chair

Berry/Grape Processing TWG
Mt. Bachelor – Yanyun Zhao, Chair

Production/Physiology TWG
Mt. Hood - Dale Jeffers, Chair

❖ **12:00 pm** **Lunch & Informal Discussion**
(Pick up box lunch from Foyer and attend TWG discussion of your choice)

Pest Management
Sisters

Berry/Grape Proc
Mt. Bachelor

Wine
Wiedler

Genetics
Broadway

Production/Phys
Mt. Hood

❖ **1:30 pm - 4:30 pm** **Technical Working Group Meetings**

Pest Management contd.
Sisters - Ryan Brown, Chair

Genetics TWG
Broadway – Gary Moulton, Chair

Wine TWG
Wiedler – Chuck Devlin, Chair

Production/Phys contd.
Mt. Hood - Dale Jeffers, Chair

❖ **4:30 pm - 5:30 pm** **Priority Setting**

**Blueberry
Cranberry**
Sisters
 Ryan Brown, Chair

**Raspberry
Blackberry**
Mt. Bachelor
 Yanyun Zhao, Chair

**Strawberry
Minor Crop**
Broadway
 Gary Moulton, Chair

Wine Processing
Wiedler
 Chuck Devlin, Chair

Grape Viticulture
Mt. Hood
 Dale Jeffers, Chair

❖ **6:00 pm** **Oregon Wine Tasting**
 ❖ **6:45 pm - 9:00 pm** **Dinner & Keynote Address** *PNW Ballroom*

Friday, December 2nd

❖ **7:00 am – 8:00 am** ❖ **Advisory Council Meeting** *Alaska*

❖ **8:00 am - 9:30 am** ❖ **Liaison Committee Breakfast Meeting** *Idaho*
 Breakfast provided

❖ **9:30 am - 11:00 am** ❖ **Coordinating Committee Meeting** *Idaho*

Research Reporting Information

2003 Peer Reviewed, 2004 Funded, 2005 Reporting

Researchers who were awarded funds last year will be our presenters at the conference and be required to submit progress reports (see below for details and deadlines). However, if you received funds this year and have useful information to report at the conference, we will try to make room for you as well.

Required From All Researchers Who Received NCSFR Competitive Grant Funding Last Year

- 1) Abstract for Pre-Proceedings:** Prepare a 1/3 page abstract in non-scientist/layperson language briefly summarizing your work to date.
- 2) Progress Report for Proceedings:** Prepare a one-two page summary of your work to date. Report should include: title, principal investigator and cooperators, objectives, brief statement of procedures, results, discussion of accomplishments (comparison of actual results with the original goals), potential significance to industry, and funding sources. Note: A final report is required the following year if the work is not finished and reported on in time for a progress report.
- 3) Research Impact Statements/Success Stories:** Prepare one-two paragraphs outlining the economic, health, food safety or environmental impact your project has made or has the potential to make. Some of these will be selected to present to the United States Congress.
- 4) Scientific Citations:** Provide a list of all scientific citations and papers that have been published as a result of the funding you received from the NCSFR.

DEADLINE FOR ABOVE: Please E-Mail to us no later than Friday, October 14th

- 5) Prepare an Oral Progress Report for the Annual Conference:** See the enclosed list of research projects. (Please Note: If you are unable to attend, please designate someone else to present your progress report)

Required From All Researchers Who Received NCSFR Funding for the Small Fruits Initiative - Plant Improvement

- 1) Report for Pre-Proceedings:** Prepare a one page report of your work to date in non-scientist/layperson language briefly summarizing your Small Fruits Initiative funded work to date. **DEADLINE: Please E-Mail to us no later than Friday, October 14th**
- 2) Posters:** Bring a poster/display to the NCSFR Annual Conference that provides an overview of your work. These posters will be displayed in the Technical Working Group rooms.

Posters for the Annual Conference - All Researchers (Optional)

All researchers are invited to show their current small fruits research posters/displays at the Annual Conference. They will be displayed during the wine reception and dinner.

Northwest Center for Small Fruits Research Projects: 2003 Peer Reviewed, 2004 Funded, 2005 Conference Reporting

Important Note to Researchers:

Please check this list to see if your project is listed. If so, we will need the following from you:

- 1) Abstract for Pre-Proceedings
- 2) Progress Report for Proceedings
- 3) Research Impact Statements/Success Stories
- 4) Scientific Citations

See newsletter for details and due date

5) Oral report at the Annual Conference in December. The chair for your technical working group (e.g., Genetics, Pest Management, etc.) is listed with his/her contact info. They will be contacting you to put you on the agenda – please feel free to contact them as well.

Berry Grape Processing – Yanyun Zhao 541-737-9151 yanyun.zhao@oregonstate.edu

Berry Grape Processing	Jerry Exon, Todd Taruscio	The Bioavailability and Effects of Polyphenolics in Vaccinium sp on Colon Cancer and Immune Function in Rats	U of I
Berry Grape Processing	Mark A. Daeschel	Can Salmonella & E. Coli Contaminate Harvested Berries & Do They Survive in Fresh & Frozen Berry Juices/Purees	OSU

Pest Management – Ryan Brown 503-739-6002 503-547-0813 greggfarm@comcast.net

Pest Management	Robert M. Martin	Differentiation and Detection of Blueberry Scorch Strains	USDA-ARS
Pest Management	Wei Qiang Yang, Tom Peerbolt	Evaluation of Northwest Incidence & Lifecycle of Blueberry Gall Midge (BGM) <i>Dasineura oxycoccana</i> Johnson in Blueberries	OSU
Pest Management	Kim Patten, P Bristow	Applications of New Pest Strategies in Cranberries	WSU
Pest Management	Peter R. Bristow	Soil Solarization as a Component of an Integrated Program to Control Phytophthora Root Rot of Red Raspberry	WSU
Pest Management	Lynell K. Tanigoshi	Further Evaluation of Control Strategies for Root Weevils in Strawberries & Red Raspberries	WSU
Pest Management	James Fisher, Rebecca Chitkowski	The Interactions of Irrigation, Fertilization and Soil on the Expression of Symptoms and Damage in Winegrape Infested with Grape Phyllozera (<i>Daktulospira vitifoliae</i> [fitch])	USDA-ARS
Pest Management	David G. James	Biology and Management of Cutworms in Washington Vineyards	WSU
Pest Management	Ekaterini Riga, Jack Pinkerton	Epidemiology and Management of Plant-Parasitic Nematodes in Winegrapes	WSU

Wine Processing – Chuck Devlin 208-453-7841 chuckd@stechapelle.com

Wine	C. G. Edwards	Limiting Reductive Character Formation in Wines from the Pacific Northwest	WSU
Wine	C. G. Edwards	Inducement of Malolactic Fermentation in Musts from the Pacific Northwest	WSU
Wine	Sara Spayd	Rootstock and Scion Influences on Grape and Wine Composition and Quality	WSU
Wine	Michael Qian	Characterization and Formation of Off-Flavors in Oregon Wines	OSU
Wine	James A. Kennedy	Characterization of Tannin Isolated from Red Wine During Maceration	OSU
Wine	James A. Kennedy, Jessica Cortell	Wine Quality Improvement Using Precision Viticulture Tools	OSU
Wine	Moris Silber	A New Double Wave Length Colorimetric Differential Tannin	WSU

Northwest Center for Small Fruits Research Projects: 2003 Peer Reviewed, 2004 Funded, 2005 Conference Reporting

Production/Physiology – Dale Jeffers 208-880-1888 djeffers1@mindspring.com

Production/Physiology	Yanyun Zhao, Mina McDaniel, B. Strik	Improving Fruit Quality and Storage Life of the Hardy Kiwifruit	OSU
Production/Physiology	Bernadine Strik	Fertility and Soil Management in Newly Established Blueberry Fields	OSU
Production/Physiology	Bart Eleveld, David Hamlin, B. Strik	Increasing Economic Efficiency in the Strawberry Industry Through Analysis of Production and Marketing Systems	OSU
Production/Physiology	Julie Tarara, J. Pena	Using Whole-Vine Photosynthesis to Understand the Effects of Water Stress on Premium Wine Grapes	USDA-ARS
Production/Physiology	Krista Shellie	Water Management for Optimizing Canopy, Yield, and Quality of 'Cabernet Sauvignon'	USDA-ARS
Production/Physiology	Robert G. Stevens, Joan R. Davenport	Cover Crops for N Supply for Organic Grape Production	WSU
Production/Physiology	R. Paul Schreiner	Identifying Optimal Nutrient Concentrations for Premium Winegrape Production Based on Physiological Needs and Fruit Quality	USDA-ARS
Production/Physiology	Carmo Vasconcelos	Evaluation of Rootstocks for the Cultivars Pinot Noir, Chardonnay, Pinot Gris, and Merlot	OSU
Production/Physiology	Joan R. Davenport, Robert G. Stevens	Developing Tissue Nutrient Standards for Irrigated Wine Grape in the Pacific Northwest	WSU
Production/Physiology	Esmail Fallahi	Table Grape Variety Evaluation for Adaptability and Improving Berry Quality, Yield, and Storage Life Under Desert Conditions in the Pacific Northwest	U of I
Production/Physiology	R. Paul Schreiner, Rebecca Sweet	Water and Nutrient Competition with Cover Crops in Willamette Valley Vineyards	USDA
Production/Physiology	Markus Keller	Rootstock and Varietal Effects on the Variability in Cluster Initiation and Development	WSU
Production/Physiology	Markus Keller	Dynamics of Grape Berry Growth and Physiology of Fruit Volume Change	WSU

Genetics – Gary Moulton 360-848-6131 gamoulton@wsu.edu

Genetics	Danny L. Barney	Domestication of Western Huckleberries	U of I
Genetics	Chad Finn, Andrew Thomas, P. Byers	Genotype X Environment Interaction in Elderberry (<i>Sambucus</i> sp.) Cultivars and Selections Grown in Oregon and Missouri	USDA-ARS
Genetics	Michael Qian	Objective Characterization of 'Marion' Blackberry Flavor and Comparison with Thornless Advanced Selections	OSU
Genetics	Michael Qian	Fruit Quality Evaluation of Transgenic 'Meeker' and Major Cultivars of Red Raspberry Grown in the Pacific Northwest	OSU
Genetics	Maxine Thompson, Danny Barney	Edible-Fruited Honeysuckle, <i>Lonicera caerulea</i> L., Germplasm Evaluation and Cultivar Development	OSU
Genetics	Nahla Bassil, Kim Hummer	Identifying Blueberry Diversity Using DNA Fingerprints	USDA-ARS
Genetics	Mina R. McDaniel	Descriptive Sensory Analysis of Thornless Blackberry Selections to Determine Sensory Similarity to Marionberry Flavor	OSU
Genetics	Gary A. Moulton	Evaluation of Wine Grape Cultivars and Selections for a Cool Maritime Climate	WSU
Genetics	Chad Finn	Inheritance of Vegetative and Reproductive Traits in Black Raspberry (<i>R. occidentalis</i>)	USDA