



2015 North American Raspberry & Blackberry Conference

February 24-27, 2015

The Chancellor Hotel – Fayetteville, Arkansas

CONFERENCE SCHEDULE

TUESDAY, FEBRUARY 24

1:00-8:00 pm **Registration**, *Chancellor Hotel lobby*

Pre-Conference Tours (ask at registration if you wish to join a tour)

Meet in hotel lobby 15 minutes before tour.

- 2:00-3:00 University of Arkansas NanoScience Building Tour
- 2:00-4:30 University of Arkansas Research Farm & Food Science Labs Tour

2:00-4:00 NABG Research Foundation Meeting *Lost Bridges Board Room*

4:00-6:00 NARBA Executive Council Meeting *Lost Bridges Board Room*

7:00-9:30 **Opening Reception** *White River Room* "Arkansas Fruits – John Clark and Curt Rom" – John Clark, Curt Rom, University of Arkansas Dept. of Horticulture

WEDNESDAY, FEBRUARY 25

Breakfast on your own.

7:00-7:45 am **Registration** *Chancellor Hotel lobby*

7:45 am Buses load for Tour *Chancellor Hotel lobby*

8:00 am-5:00 pm **CONFERENCE TOUR** Visits Boston Mountain Nursery, Mountainburg, AR; Fruit Research Station, Clarksville, AR; Post Familie Vineyard, Altus, AR. *Please dress appropriately for weather and walking.*

6:00 pm– Dinner on your own. To join other conference attendees for a "Meet Up Dinner" at a local restaurant, sign up at registration or on the tour.

7:30 – Hospitality Room *Alumni Suite, Room 1408, 14th floor* Gather with other attendees for informal discussion & refreshments.

THURSDAY, FEBRUARY 26

7:30-9:00 am **Registration, Continental Breakfast** *Atrium, 2nd Floor*

Exhibit Area and Posters open all day. *Atrium, 2nd Floor*

8:00-9:00 Raspberry & Blackberry Production 101 Session 1. *Bella Vista Room*

9:00-11:00 **General Session** *Eureka Springs Ballroom AB*

- Grower Spotlight - *Chris Eckert, Eckert Farm, Belleville, Illinois*
- Growing for Health: How berries protect against the radicals that plague our bodies daily - *Ron Prior, University of Arkansas Dept. of Food Science*
- Focus on SWD: *Mark Bolda, University of California Extension, Santa Cruz; Donn Johnson, University of Arkansas; Julie Schedeen, Schedeen's Farm/Oregon Raspberry & Blackberry Commission*

PROCEEDINGS of the 2015 North American Raspberry & Blackberry Conference will be posted online in the "Members Only" section of the NARBA website. Copies of the Proceedings on CD are also available on request. Contact the NARBA office or place your request at the NARBA table.

The sessions of the Raspberry & Blackberry Production 101 workshop are open to workshop registrants only.

A special thanks to our Host Sponsor, Naturipe Farms. The support of sponsors helps make this conference possible and supports NARBA's activities and programs. See all sponsors on the back page of this program. Contact information of sponsors and exhibitors is on page 7.



THURSDAY, FEBRUARY 26

11:10-12:00 Concurrent Breakout Sessions (attend the session of your choice)			
	Eureka Springs C	Eureka Springs D	Bella Vista Room
	A Closer Look at SWD – <i>Mark Bolda, University of CA Extension; Donn Johnson, University of Arkansas; Bob Hays, Hays Berry Farm</i>	Getting consumers, processors, chefs, food writers, and foodies to choose our berries <i>Panel discussion – Ron Prior & Luke Howard, University of Arkansas Food Science; Kat Robinson, food writer, Little Rock, AR; Julie Schedeen, Schedeen’s Farm/ORBC</i>	High Tunnel Raspberry Production in Central VA: Four Varieties, Two Harvests – <i>Reza Rafie, Virginia State University</i> Live and Learn: Experiences with high tunnel organic berry production – <i>Curt Rom, University of Arkansas</i>
12:00-1:45 Lunch and NARBA Annual Meeting <i>White River Room (1st floor) Berries donated by Walmart.</i> Lunch is included in registration for all attendees except student registrations. The NARBA Annual Meeting will include Board of Directors elections and NARBA’s Distinguished Service Award presentation.			
1:45-3:40 Concurrent Breakout Sessions (attend the session of your choice)			
	Eureka Springs C	Eureka Springs D	Bella Vista Room
1:45-2:45	Experiences with Rotating Cross-Arm Trellis: Panel discussion – <i>Chris Eckert, Belleville, IL; Bill Jacobs, Owasso, OK, Fumiomi Takeda, USDA-ARS Kearneysville, WV</i>	Safeguarding the caneberry industry from virus diseases: A systems-based approach – <i>Ioannis Tzanetakis, University of Arkansas</i> New Developments with Rubus Viruses on the West Coast – <i>Bob Martin, USDA-ARS Corvallis, OR</i>	<i>Blackberry and Raspberry Production 101 Workshop continues – Patrick Byers, University of Missouri; Elena Garcia, University of Arkansas, others.</i>
2:50-3:40	Winter-injury Experiences and Research – <i>Fumiomi Takeda, USDA-ARS Kearneysville, WV; Gina Fernandez, NC State University</i>	How nematodes and soil borne diseases work together to wreak havoc on caneberries – <i>Inga Zasada, USDA-ARS Corvallis, OR</i>	<i>Registered workshop participants only</i>
3:40-4:10 Poster Session and Break <i>2nd floor Atrium</i>			
1:45-3:40 Concurrent Breakout Sessions (attend the session of your choice)			
	Eureka Springs C	Eureka Springs D	Bella Vista Room
4:10-5:00	Arkansas Blackberry Breeding Program: Investigating the Physical, Composition, and Sensory Attributes of Blackberries – <i>Alejandra Salgado, Renee Threlfall & John Clark, University of Arkansas</i>	Developing the Genomic Infrastructure for Black Raspberry Breeding Improvement: An Update – <i>Jill Bushakra, National Clonal Germplasm Center</i> Challenges Black Raspberry Growers Face – <i>Robert Agung, The Ohio State University</i>	Follow the Money: New Interactive Raspberry & Blackberry Budgets – <i>Rafael Soares, University of Arkansas</i>

5:00-6:00 **R&P Discussion:** Should NARBA restart efforts to create a USDA Research & Promotion Program for blackberries? *Chancellor Hotel 64/94 Bistro (1st floor, back section)*

6:00 **Dinner on your own.** To join other conference attendees for a Meet Up Dinner” at a local restaurant, sign up at registration or Thursday morning.

7:30 – **Roundtable Discussion:** Grant seeking/writing to fund new farm enterprises. With Candace Pollock, Southern SARE, and Margo Hale, ATTRA. Facilitated by Julie Schedeen, Schedeen’s Farm. *Petit Jean Room (1st floor)*

7:30 – **Hospitality Room** *Alumni Suite, Room 1408, 14th floor* Gather with other attendees for informal discussion & refreshments.

THANK YOU!!

To our Conference Planning Committee: Fred Finney (chair), Blake Smith, John Clark, Julie Schedeen, Luke Howard, Patrick Byers, Pierson Geyer, and Debby Wechsler.
And to all our tour hosts and many helpers and student volunteers.

Carpooling to the Airport

Share your rental cars or a cab! There will be a sheet at the NARBA table to list yourself and find others leaving around the same time. And/or call Green Cab Company at 479-966-4111. They are helping us coordinate taxi carpooling.

FRIDAY, FEBRUARY 27

7:00-8:45 am Registration, **Continental Breakfast** *Atrium, 2nd Floor*

Exhibit Area and Posters open all morning.

8:45-10:15 **General Session** *Eureka Springs Ballroom AB*

- Grower Spotlight – *Robert Hays, Hays Berry Farm, Dumus, MS*
- Filling the Retail Shelves: The U.S. Caneberry Supply – *Mike Thomsen, University of Arkansas, Ag Economics*
- FSMA Update for Produce Growers – *Elizabeth Bihn, Cornell University, National GAPs Program*

10:30-12:00 Concurrent Breakout Sessions (attend the sessions of your choice)			
	Eureka Springs C	Eureka Springs D	Bella Vista Room
10:30-11:15	Weed Control for Caneberries – <i>Doug Doohan, The Ohio State University</i>	Practical Tools for Meeting FSMA requirements & Market Demand for Produce Safety – <i>Elizabeth Bihn, Cornell University, National GAPs Program</i>	On-Farm innovation and decision-making – <i>Jack Jacobs, Jacobs Family Berry Farm, and roundtable discussion</i>
11:15-12:00	Mites in Caneberries – <i>Donn Johnson, University of Arkansas, Mark Bolda, UC Cooperative Extension</i>	Crisis Management for your farm and for the Caneberry Industry – <i>Debby Wechsler, NARBA; Betsy Bihn, Cornell University, National GAPs Program</i>	Blackberry and Raspberry Production 101 Concluding session.

12:00-12:30 Closing General Session *The Berry Breeders' Crystal Ball – Gina Fernandez, NC State University; Chad Finn, USDA-ARS, Corvallis, OR; and John Clark, University of Arkansas*

Post-Conference Tours *Additional spaces may be available, please check at registration.*

- 2:00-4:30 University of Arkansas Research Farm & Food Science Labs Tour
- 2:00-5:00 Crystal Bridges Art Museum (Bentonville)
- 2:30-3:30 University of Arkansas NanoScience Building Tour

Have a safe trip home!



The North American Raspberry & Blackberry Association (NARBA) is pleased to welcome the many new members attending this conference. A brief introduction:

NARBA is a membership organization dedicated to the advancement of the raspberry and blackberry industry.

It is the only national organization representing the bramble industry. Members are growers, nurseries, marketers, processors, researchers, breeders, extension, suppliers, and state and regional affiliate organizations. NARBA has members in 35 states, 7 Canadian provinces, and 5 countries.

NARBA's activities include

- educational conferences and meetings
- promoting raspberries and blackberries to the public and the media
- funding raspberry and blackberry research, through the North American Bramble Growers Research Foundation
- speaking out on policy issues for the raspberry and blackberry industry
- providing resources and information to growers and others

Benefits of membership include:

- NARBA's quarterly newsletter, *The Bramble*
- Discounted conference registration and publications.

- A Members-Only E-Forum for sharing questions, comments and ideas.
- Raspberry and blackberry recipe brochures (pick up a sample or order at the conference) and printable recipe and health benefit cards.
- Proceedings of the annual conference, a membership directory, and listing of member farms and industry services on the NARBA website.

NARBA is governed by an Executive Council made up of eight Regional Representatives, and two At-Large Representatives, elected by the membership. You will meet most of these at this conference. It is managed by an Executive Secretary (office address below). Please contact the NARBA office to become more involved in the association's activities, help build membership in your area, ask questions, send items for the newsletter, or more

NOT A MEMBER? If you didn't join with your conference registration, NARBA invites you to join at this meeting or to contact:

North American Raspberry & Blackberry Association
1138 Rock Rest Rd. Pittsboro, NC 27312
phone 919-542-4037 fax 866-511-6660
info@raspberryblackberry.com
www.raspberryblackberry.com

CONFERENCE PRESENTERS

Robert Agunga - Dept. of Agricultural Communication, Education, and Leadership, The Ohio State University, 201 Agricultural Administration Bldg., Columbus, OH 43210, 614-292-8751, agunga.1@osu.edu

Elizabeth Bihn - Dept. of Food Science, Cornell University, NYSAES, Hedrick Hall. 630 W. North St., Geneva, NY 14456, 315-787-2625, eab38@cornell.edu, www.gaps.cornell.edu

Mark Bolda - University of California Co-op Extension, Santa Cruz, 1432 Freedom Blvd, Watsonville, CA 95076, 831-763-8025, mpbolda@ucdavis.edu

Jill Bushakra - National Clonal Germplasm Repository, 33447 Peoria Rd, Corvallis, OR 97333, 541-738-4219, Jill.Bushakra@ars.usda.gov

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John R. Clark - Dept. of Horticulture, 316 Plant Science Bldg., U of Arkansas, Fayetteville, AR 72701, 479-575-2810, jrclark@uark.edu

Doug Doohan - Dept. of Horticulture and Crop Science, The Ohio State University, 205 Gourley Hall, Wooster, OH 44691, 330-202-3593, doohan.1@osu.edu

Chris Eckert - Eckert's Inc., 951 South Greenmount Road, Belleville, IL 62220, 618-779-8646, eckert@eckerts.com, www.eckerts.com

Gina Fernandez - Dept. of Horticultural Science, North Carolina State University, Box 7609, Raleigh, NC 27695, 919-513-7416, Gina_Fernandez@ncsu.edu

Chad Finn - USDA ARS Horticultural Crops Research, 3420 NW Orchard Ave, Corvallis, OR 97330, 541-738-4037, finnc@hort.oregonstate.edu

Elena Garcia - Dept. of Horticulture, 316 Plant Science Bldg., University of Arkansas, Fayetteville, AR 72701, 479-575-2790, megarcia@uark.edu

Margo Hale - ATTRA SE Regional Office, 207 West Center Street, PO Box 3657, Fayetteville, AR 72701, 866-442-6085, margoh@ncat.org, www.attra.ncat.org

Robert Hays - Hays Berry Farms, 1041 CR 182, Dumus, MS 38625, 662-538-2899, robert@haysberryfarms.com

Luke Howard - Dept. of Food Science, 2650 N Young Ave., N-206, University of Arkansas, Fayetteville, AR 72704, 479-575-2978, lukeh@uark.edu

Bill Jacobs - Owasso Christmas Tree and Berry Farm, 11039 N 129th East Ave, Owasso, OK 74055, 918-272-9445, owassotreefarm@cox.net, www.owassotreefarm.com

Jack Jacobs - Jacobs Family Berry Farm, P.O. Box 217, Gardnerville, NV 89410, 775-782-3023, jack.jacobs.45@gmail.com, www.jacobsberries.com

Donn Johnson - Dept. of Entomology, 319 Agriculture Bldg., University of Arkansas, Fayetteville, AR 72701, 479-575-2501, dtjohnso@uark.edu

Bob Martin - USDA-ARS, 3420 NW Orchard Avenue, Corvallis, OR 97330, 541) 738-4041, bob.martin@ars.usda.gov

Candace Pollock - Southern SARE, University of Georgia Griffin Campus, 1109 Experiment St., Rm 207, Stuckey Bldg., Griffin, GA 30223, 770-412-4786, cpollock@uga.edu, www.southernsare.org

Ron Prior - Dept. of Food Science, University of Arkansas, 214 Lakeshore Drive, Searcy, AR 72143, 501-743-8949, rprior10@gmail.com

Reza Rafie - Virginia State University, 13213 Castlewellan Drive, Chester, VA 23836, 804-712-4600, arafie@vsu.edu

The North American Bramble Growers Research Foundation

The North American Bramble Growers Research Foundation (NABGRF) was chartered in 1998 to receive donations and make grants to fund raspberry and blackberry research. Twenty five percent of all NARBA grower dues go directly to this foundation. The main source of funds since 2007 has been a voluntary Nursery Contribution Program. Participating nurseries are encouraged to make a voluntary self-assessment of \$.01 for each plant they sell (\$1.00 for each 100 plants). This program has dramatically increased funds available for grants.

Since 1999, NABGRF has funded a total of 76 proposals totaling \$184,572. The Foundation's Research Committee, which meets at this conference, will be evaluating 8 proposals for potential funding.

If you would like to be involved in the Foundation's work or make a donation, contact Gina Fernandez, Research Committee co-chair, at this meeting or at gina_fernandez@ncsu.edu.

Thank you to these major funders of the Research Foundation for 2014-2015

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Rafael Soares - Dept. of Agricultural Economics and Agribusiness, University of Arkansas, 217 Agriculture Bldg., Fayetteville, AR 72701

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VIRGINIA FEBRUARY 2016

Plan to be there for next year's
North American Raspberry & Blackberry Conference!
Contact the NARBA office if you would like to be part of the planning committee or an early sponsor of the meeting.



**October 13-15, 2015
Madison, Wisconsin**

Leading researchers present the latest information on berry health benefits at this biennial event sponsored by the National Berry Crops Initiative. Includes a half-day session for industry on how to communicate berry health benefits, as well as a tour of the Wisconsin cranberry industry. Visit <http://berryhealth.org/> for more information.

NARBA is a member of NBCI and a sponsor of this event.



XIth International Rubus and Ribes Symposium ***June 21 – 24, 2015 * Asheville, NC, USA***



Make your plans to join us!

This is the first time this international meeting for Rubus (raspberries and blackberries) and Ribes (currants and gooseberries) has been held in the U.S. for more than 30 years.

This ISHS Symposium attracts researchers from around the world who work in aspects of Rubus and Ribes research, teaching, extension, business, and public services. Don't miss this opportunity!!

Pre-symposium tour – June 18-20, 2015 in the Charlotte, NC area

Symposium – June 21-24, 2015 in Asheville, NC

Sponsorship and exhibiting opportunities are available. Sponsors and exhibitors have a significant presence at the conference and contribute to inspiring further research in this critical area.

For more information and to register visit

www.rubusribes2015.com

POSTERS DISPLAYED AT THE CONFERENCE

Posters are alphabetized below by the name of the first author. A contact email is included for each poster. Abstracts for all posters and pdf images of many of them will be included in the Proceedings. Additional posters may be displayed that are not listed here.

Phenotypic Evaluations of Heat Tolerance and Fruit Quality Traits in Segregating Black Raspberry (*Rubus Occidentalis L.*) Populations in North Carolina

Christine M. Bradish, Gina E. Fernandez, North Carolina State University – Department of Horticulture; Jill M. Bushakra, Nahla V. Bassil, USDA-ARS National Clonal Germplasm Repository, Corvallis, OR; Penelope Perkins-Weazie, NC State University Plants for Human Health Institute; Michael Dossett, Agriculture and Agri-Food Canada - Pacific Agri-Food Research Centre; Chad E. Finn, USDA-ARS-Horticultural Crops Research Unit, Corvallis, OR. cmbradis@ncsu.edu

Organic Fruit Production; an Internship and Apprenticeship for Sustainable Horticulture

Olivia Caillouet, Curt Rom, Jason McAfee, Luke Freeman, and Heather Friedrich, Department of Horticulture, University of Arkansas, Fayetteville, AR. crom@uark.edu

XIth International Rubus and Ribes Symposium: Who, What, When, Where, Why and How

Gina Fernandez, NC State University, Raleigh, NC. gina_fernandez@ncsu.edu

Response of Blackberry Cultivars to Fertilizer Source During Establishment in an Organic Fresh Market Production System

Javier Fernandez-Salvador and Bernadine C. Strik, Department of Horticulture, Oregon State University, Corvallis, OR; David R. Bryla, USDA/ARS Horticultural Crop Research Unit, Corvallis, OR. Bernadine.Strik@oregonstate.edu

The National Strawberry Sustainability Initiative: Phase I Accomplishments and Phase II Initiation

Heather Friedrich, Curt Rom, Ron Rainey, Luke Freeman, Jennie Popp and Jun Zhu, University of Arkansas System Division of Agriculture, Center for Agricultural and Rural Sustainability. Heatherf@uark.edu

Weed Management Practices for Organic Production of Trailing Blackberry. I. Plant Growth and Early Fruit Production

Renee H. Harkins and Bernadine C. Strik, Department of Horticulture, Oregon State University, Corvallis, OR; David R. Bryla USDA/ARS Horticultural Crop Research Unit, Corvallis, OR. Bernadine.Strik@oregonstate.edu

Sensory Comparison of an Extremely Firm Fresh-Market Blackberry Selection to Industry Cultivars

Olivia S. Hines¹, John R. Clark¹, and Renee T. Threlfall², ¹Department of Horticulture, University of Arkansas, ²Institute of Food Science and Engineering, University of Arkansas. ohines@email.uark.edu

Rednecked Cane Borer and Broad Mite Monitoring and Management

Donn Johnson, Soo-Hoon Kim, and Barbara Lewis, Department of Entomology, University of Arkansas. dtjohnso@uark.edu

Raspberry Demonstration and Distillation at the Missouri State University Fruit Experiment Station

Marilyn Odneal and Dr. Karl Wilker, R Missouri State University, Darr School of Agriculture, Fruit Experiment Station, Mtn. Grove, MO. MarilynOdneal@missouristate.edu

Innovative Packaging Technologies to Enhance the Safety and the Quality of Fresh Raspberry

Jeanne S. Peters¹, Ariane Vasilatis¹, Thomas J. Gianfagna¹ and Kit L. Yam², ¹Plant Biology and ²Food Science Departments, Rutgers–The State University of New Jersey, New Brunswick, NJ. gianfagna@AESOP.Rutgers.edu

Extending the Market Season with High Tunnel Technology for Organic Blackberry and Raspberry Production

Curt R. Rom¹, Jason McAfee¹, Luke Freeman¹, Heather Friedrich¹, Donn T. Johnson², and M. Elena Garcia¹. ¹Department of Horticulture, Center for Agricultural and Rural Sustainability, University of Arkansas, ²Department of Entomology, University of Arkansas. crom@uark.edu

Characterization of Crispy Selections of the Arkansas Blackberry Breeding Program

Alejandra A. Salgado and John R. Clark, Department of Horticulture, University of Arkansas, Fayetteville, AR. asalgado@email.uark.edu

Prime-Ark® 45 in California: Best Practices for Cane Management and Color Reversion Prevention

Ellen Thompson, Pacific Berry Breeding, Salinas, CA, and John R. Clark, Department of Horticulture, University of Arkansas, Fayetteville, AR. ellen@pacificberrybreeding.com



CONFERENCE SPONSORS AND EXHIBITORS

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ATTRA

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Berries Unlimited

Hare Stuart, 807 Cedar Lane, Prairie Grove, AR 72753, 479-846-6030, info@berries-unlimited.com, www.berriesunlimited.com

Cravo Equipment Ltd.

Benjamin Martin, 30 White Swan Rd, Brantford, ONT N3T-5L4, Canada, 905-317-3546, BenjaminM@cravo.com, www.cravo.com

Dole Berry Company

Jose Saca, P.O. Box 3036, Winter Haven, FL 33885, 863-294-8856, jose.saca@dole.com, www.dole.com

Fayetteville Visitors Bureau

Jeff Jeffus, 21 South Block Ave., Fayetteville, AR 72701 800-766-4626, www.experiencefayetteville.com

Flyaway Birdie

Fred Messner, 6120 S Hwy 169, St. Joseph, MO 64507, 816-596-3936, info@biodynamicsupply.com, www.biodynamicsupply.com

Gripple, Inc.

Payne Hall, 1611 Emily Lane, Aurora, IL 60502, 866-474-7753, E.Shortenhaus@gripple.com, www.gripple.com/us

Giumarra International Berry

Alan Abe, P.O. Box 861449, Los Angeles, CA 90086, 443-321-9978 aabe@giumarra.com, www.giumarra.com

Indiana Berry & Plant Co.

Sam Erwin, 2811 Michigan Rd., Plymouth, IN 46563, 800-295-2226, sales@superbhorticulture.com, www.indianaberry.com

Lassen Canyon Nursery

Curt Gaines, P.O. Box 992400, Redding, CA 96099, 530-223-1075, curt@lassencanyonnursery.com, www.lassencanyonnursery.com

Magnolia Gardens Nursery

Neil Marek, 18810 Turtle Creek Lane, Magnolia, TX 77447, 282-252-5094, neilm@magnoliagardens.com, <http://magnoliagardensnursery.com>

National Berry Crops Initiative

Cat McKenzie, 20481 Marval Place, Blodgett, OR 97326, cat@foodfirstmarketing.com, www.nationalberrycrops.org

Naturipe Farms

Scott Norman 1611 Bunker Hill Way, Suite 250, Salinas, CA 93906, 831-229-4126, snorman@naturipefarms.com, www.naturipefarms.com

North American Plants

Yongjian Chang, 3367 St. Joseph Rd., McMinnville, OR 97128, 503-474-1352, changy@naplants.com, www.naplants.com

Nourse Farms, Inc.

Nate Nourse, 41 River Rd., South Deerfield, MA 01373, 413-665-2658, nnourse@noursefarms.com, www.noursefarms.com

Oregon Raspberry & Blackberry Commission

Philip Gütt, 4845 B. SW Dresden Ave., Corvallis, OR 97333, 541-758-4043, berries@oregon-berries.com, www.oregon-berries.com

Southern Region Small Fruit Consortium

Tom Monaco, Box 7601, NC State University, Raleigh, NC 27695, 919-515-6963, tom_monaco@ncsu.edu, www.smallfruits.org

Southern SARE

Candace Pollock, 1109 Experiment St., Room 207, Stuckey Bldg, Griffin, GA 30223, 770-412-4786, cpollock@uga.edu, www.southernzare.org

Sun Belle, Inc.

Ken Hopps, 3810 Rose Street, Shiller Park, IL 60176, 708-343-4545, khopps@sun-belle.com, www.sun-belle.com

Trellis Growing Systems

Richard Barnes, 2427 S. Hadley Rd., Fort Wayne, IN 46804, 260-241-3128, rcbarnes@trellisgrowingsystems.com, www.trellisgrowingsystems.com

University of Arkansas Dale Bumpers College of Agriculture, Food and Life Sciences

Shannon Mason, PTSC 215, University of Arkansas, Fayetteville, AR 72701, 479-575-2645, shannonm@uark.edu, <http://bumperscollege.uark.edu/>



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