The 2012 Mid-Atlantic Fruit and Vegetable Convention program is held each year to provide the latest updates and important information to fruit and vegetable growers from Maryland, New Jersey, Pennsylvania, and surrounding states. The conference will be held at the Hershey Lodge and Convention Center in Hershey, PA on January 31-February 2, 2012.

The program will consist of six or more concurrent educational sessions offered during the three days. Sessions on tree fruits, small fruits, wine grapes, organic and general vegetables, pesticide safety, wholesale marketing, and too many others to mention.

This year, David M. Kohl will make the keynote presentation entitled, “Positioning Your Farm Business for the Future,” on the opening day. The full program is provided at the end of the newsletter.

As usual, there will be an extensive trade show, including displays of horticultural equipment, marketing merchandise, packaging, seed companies, fruit nurseries, as well as pesticides and other supplies and services for commercial growers. Pesticide applicator credits will be available for Maryland, Pennsylvania, and New Jersey growers attending the sessions. Please see the details included in this newsletter.

The program is jointly sponsored by Maryland State Horticultural Society, University of Maryland Extension, State Horticultural Association of Pennsylvania, Pennsylvania Vegetable Growers Association, Pennsylvania State University Cooperative Extension, New Jersey State Horticultural Society, and Rutgers Cooperative Extension.

Maryland growers are reminded to pre-register through the Maryland State Horticultural Society. Pesticide credits will be available at the meeting.

I look forward to seeing you in Hershey and I hope you find this newsletter informative!

Merry Christmas!

I became involved with the Brown Marmorated Stink Bug (BMSB) phenomenon during the summer of 2010. It seemed that the situation began as a nuisance and quickly progressed into a freight train out of control. Every week more insects appeared and caused more damage, no matter what we did. We continuously ramped up the spray mixtures and tightened the intervals, but what I heard early and often from growers was, “what are we doing to our 25 year old IPM program?” Growers have taken great pride in reducing the number of applications and targeting pests with pest-specific products that were gentle on “good bugs.”

It was unknown how the 2011 season would go or what would transpire. We knew we were dealing with a very large overwintering population and we had to be ready. Maryland is fortunate to have researchers at the USDA Agricultural Research Station (ARS) in Kearneysville, West Virginia, to provide information to growers. In
addition, USDA-ARS has taken a national leadership role in combating BMSB. Based on their 2011 pesticide trial work, we made the best decision possible with what we learned on, literally, a daily basis. We approached control very aggressively and certainly demonstrated that we could still produce fruit with this insect in our area. However, the most aggressive spray approach is not sustainable. I feel certain that more sustainable solutions are on their way, including biological control, trap and kill, and behavioral modification, but until those sustainable tactics are in place, we will have to use traditional methods to keep our fruit industry viable.

Having spent the 2011 season in the field and genuinely experiencing what it took to get through a year that turned out not to have the level of BMSB pressure as in 2010, I wanted to expand on some information that the USDA researchers presented last year. Based on lab data from lengthy trials, it was found that Surround mixed with Actara appeared to be somewhat effective in killing BMSB (Leskey et.al. 2010). Surround is an organically certified kaolin clay product that leaves a film on the surface of fruit and foliage that appears to create a tactile-deterrent. It can be mixed with insecticides and may present a better opportunity to control BMSB because of its nature to be highly mobile and move readily between specialty crops. A repellent or tactile deterrent could offer greater protection, particularly if used as a bridge treatment between or replacement for insecticide applications, or as part of a push-pull management strategy. It could be used possibly on edges or borders using an airblast sprayer, but this season we simply used it on the entire orchard.

I wanted to take this to the field to see how the lab data would translate, but there was reluctance from growers to spray their trees with the white chalky substance. They were concerned it would be difficult to remove the substance from the fruit and may concern a passerby when they saw the trees were white washed with chemical. As a result, it was determined that the University of Maryland Western Maryland Research and Education Center (WMREC) in Keedysville was an ideal location for the demonstration project. After a slightly late start, the first application of Surround was made on May 12. Thanks to Doug Price, WMREC Ag Technician, for working with me and trusting that the sprayer wouldn’t be ruined. Although we didn’t have a control, there was extensive season-long monitoring for BMSB on the 500-acre farm. Large populations were observed in sweet corn, field corn, soybeans, beach plums, raspberries, peaches, and in the borders and fence rows. An interesting observation was that, although traps nearby actually did collect BMSB, no egg masses or nymphs were ever detected in the blocks sprayed with Surround which were monitored weekly.

In Table 1, you will see the products selected and the intervals were the same as those used in 2010, except for Scorpion at the very end of the season. This was considerably different from what was done in many Central and Western Maryland commercial orchards. Surround was used season-long at half of the low label rate which did not interfere with normal sprayer operations. The Surround cost about $1.00 per pound and was used at 12.5 pounds per 100 gallons.

The goal of this project was to determine if the “soft” insecticides mixed with a very low rate of Surround, applied at what would be considered reasonable intervals, could hold off BMSB or reduce damage while preserving beneficial insects. The twist in this project was to have a fruit that would be acceptable to the public with regards to residue left on the fruit from the Surround applications.
The harvest sampling, data on the right does seem to indicate that, based on the extremely high level of damage in the WMREC orchard in 2010 with the same insecticides used in 2011 (except for the addition of Surround) damage levels appeared to be low enough to warrant further examination and expansion of this work next season. As for the chalky residue on the fruit, it was relatively easy to wipe or brush it off, but it resisted being washed off. It is still a concern, but I felt it is not an insurmountable issue. With either perimeter-only applications or possibly discontinuing its uses earlier in the season may help reduce concern regarding removal of the residue. We are holding some Pink Lady’s in storage at WMREC and if you would like to see what the residue looks like in person, let me know and I am certain we can make arrangements for you to take a look.

The University of Maryland and Delaware Cooperative Extension will conduct Annie’s Project during the winter of 2012 at sites in Maryland and Delaware. Annie’s Project focuses on the many aspects of farm management and is designed to empower women in overall farm decision making and to build local networks throughout the state. The target audience is farmwomen with a passion for business, agriculture and involvement in the farm operation. Topics for the sessions cover the five areas of Risk Management – Production, Marketing, Financial, Legal Risk, Human Resources. This course is open to anyone interested in farm management practices.

The course will be 8 sessions held at a variety of sites in Maryland and Delaware. Locations include: Carroll Community College, Westminster MD, Cecil County Main Library, Elkton MD, Chesapeake College, Wye Mills MD, HEAT Center, Aberdeen MD, Prince George’s County Extension, Clinton MD, University of Delaware Research and Education Center, Georgetown DE, Washington County Extension Office, Boonsboro MD*, Wor-Wic Community College, Salisbury MD. Classes will begin on January 25th.

The cost of the course including meals and materials is $75. Please register by January 18th - space is limited. For more information or to register, visit the website www.anniesproject.umd.edu or call 410-758-0166. If you require special assistance to attend the classes please contact the site at least two weeks prior.

Annie’s Project has been approved for FSA Borrower Training. If you require training through the FSA loan process you can attend Annie’s Project and complete a follow up workbook for your training requirement. There will be an additional $100.00 fee for the FSA Borrower Training. For more information, please contact your FSA loan officer.

The harvest sampling, data on the right does seem to indicate that, based on the extremely high level of damage in the WMREC orchard in 2010 with the same insecticides used in 2011 (except for the addition of Surround) damage levels appeared to be low enough to warrant further examination and expansion of this work next season. As for the chalky residue on the fruit, it was relatively easy to wipe or brush it off, but it resisted being washed off. It is still a concern, but I felt it is not an insurmountable issue. With either perimeter-only applications or possibly discontinuing its uses earlier in the season may help reduce concern regarding removal of the residue. We are holding some Pink Lady’s in storage at WMREC and if you would like to see what the residue looks like in person, let me know and I am certain we can make arrangements for you to take a look.
Virus resistant pumpkin cultivars

In order to benefit from the use of the new cultivars, growers will need to know what virus diseases are present in their area. However, identification of pumpkin virus diseases is difficult because the diseases cannot be identified reliably by their symptoms. PRSV-W, WMV ZYMV and CMV may exhibit different symptoms at times, and at other times have overlapping symptoms. Mixed infections also may yield unusual symptoms.

A survey was conducted in Maryland and Delaware in 2008 and 2009. The objective of the survey was to determine the prevalence of virus diseases on pumpkins in Maryland and Delaware to assist pumpkin growers in selection of cultivars with virus resistance for the region.

In both years, the most common virus disease was WMV. However, ZYMV was prevalent in 2008 and PRSV in 2009. Nearly one-fifth of the infected plants had multiple virus infection. So to benefit our region, cultivars should have had a minimum of WMV resistance. Pumpkin cultivars with WMV, ZYMV and PRSV resistance would be most beneficial in our region.

Until recently, there were no commercially available pumpkin cultivars with multiple virus resistance. Magician, is resistant only to ZYMV, and often develops severe virus symptoms. Recently, Hollar Seeds and Seigers have introduced 'Corvette' which has tolerance to WMV and ZYMV. Outstanding Seed Company, LLC has introduced 'Triumph', which has intermediate resistance to WMV, PRSV and ZYMV. ‘Orange Bulldog’, which was developed at the University of Georgia, is also available and has virus tolerance (virus not specified). These cultivars have not been fully tested in our region. However, in fields where virus infection occurs early and yield loss occurs, on-farm testing of a limited planting of pumpkins with multiple virus resistance is warranted. Ask your seed supplier about new pumpkin virus resistant cultivars for trial.

### Virus resistant pumpkin cultivars

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Size (lbs.)</th>
<th>Days to Maturity</th>
<th>Powdery Mildew Tolerance</th>
<th>Virus Resistance</th>
<th>Field Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corvette PMR</td>
<td>12-15</td>
<td>110</td>
<td>Yes</td>
<td>Tolerance to WMV and ZYMV</td>
<td>No</td>
</tr>
<tr>
<td>Triumph (Cucurbita maxima)</td>
<td>30-40</td>
<td>115</td>
<td>Yes</td>
<td>Intermediate resistance to WMV, ZYMV and PRSV</td>
<td>No</td>
</tr>
<tr>
<td>Magician</td>
<td>8-16</td>
<td>110</td>
<td>Yes</td>
<td>PM, Intermediate to ZYMV</td>
<td>Yes</td>
</tr>
<tr>
<td>Orange Bulldog (Cucurbita maxima)</td>
<td>10</td>
<td>110</td>
<td>Yes</td>
<td>Intermediate virus resistance (specific virus unknown)</td>
<td>No</td>
</tr>
</tbody>
</table>

*Not yet tested in the mid-Atlantic region.

### ARTHUR H. THOMPSON TRAVEL FELLOWSHIP

The purpose of the Thompson Travel Fellowship is to expose young people, working in the Maryland fruit industry, to ideas on fruit production in other areas of the world. In order to do this, the Maryland State Horticultural Society has established a fellowship of up to $1,000. This fellowship can be awarded annually to young people working in the fruit industry to promote leadership within the Society.

**Recipient:** The recipient will be a fruit grower or someone else associated with fruit production in Maryland, to be given to young persons aged 18 to 30, to encourage travel outside the state of Maryland. The recipient would be expected to make a short presentation to the membership at the annual meeting concerning the information learned in the travel.

**Application and Procedure:** To apply, a brief explanation of the proposed trip should be submitted in writing. The application letter should include the name, age, and potential trip being considered by the applicant. Applications should be submitted to Lynn Moore, Secretary, c/o MSHS Nominating and Awards Committee, 2415 Woodbine Road, Woodbine, MD 21797, 410-489-7034.

The Awards and Nominating Committee will consider the nominations and make its recommendation to the Executive Committee, which will make the final decision. The Thompson Fellowship will be presented at the Awards Banquet held during the Mid-Atlantic Fruit and Vegetable Convention in Hershey, PA.
This project was initiated in 1991 with an open pollination of McIntosh Wijick by Gala to produce an initial population of compact seedling trees. The goal was to incorporate the precocity of Gala into a short-statured, spur-type tree. Precocious seedlings from the original cross that were tolerant to late-spring freezes and showed field tolerance to Fire Blight were selected at Keedysville, MD. First generation trees were then hybridized with commercial cultivars such as Cripps Pink, Fuji, and Braeburn that are adapted to hot, humid climates. Seedlings from the crosses were germinated and initially sorted by phenotype. Approximately 90% of the wild-type trees were then removed, but all of the columnar trees were retained. Tree vigor, fireblight susceptibility, fruit size and fruit quality data have been evaluated annually since 2008. The data recorded for a representative sample of fruit from each tree to evaluate fruit quality and size include weight, height, width, soluble solids, firmness, ground color, red color, starch, and a taste test. Stink bug measurements were taken in 2010 but not in 2011 as the insect pressure was not as intense. Surround WP Kaolin Clay appeared to have been an effective treatment. Tree height, tree spread at breast height and trunk cross-sectional area will be taken this fall to estimate a percentage of dwarfing present in the columnar types.
By now most of you have heard about this new invasive pest of small fruit — how many of these things are out there? I have already done an article about the Spotted Wing Drosophila (SWD) and will not go into it again, suffice to say there is a Fact Sheet about how to manage the fly in small fruit in Maryland that you can look at or download found at my web site: www.mdvegetables.umd.edu. Look in the left hand column and click on “Spotted Wing Fly”.

I have been running traps for the fly over the summer and through the fall and will continue to do so until I do not trap any more (even after a couple of freezes SWD is still being trapped). SWD has been found in 6 counties in the state so far, which will change by next year: Howard, Montgomery, Anne Arundel, Prince Georges, Garrett, and Frederick. It has also been found just across the border in some Pennsylvania counties. I have caught SWD flies in traps that were located in: raspberries, blackberries, grapes, apple, beach plum, and old pumpkin fields (these were old rotting pumpkin fields and in amongst the many other species of Drosophila flies in the rotting pumpkins were SWD). This demonstrates that SWD can survive on rotting vegetation just as other Vinegar flies do, but once fresh fruit is available it will begin causing damage where other Drosophila species cannot. I have only found damage (and it was really bad) in blackberries and raspberries so far, but it has been found to cause serious damage in blueberries and cherries as well as other thin-skinned fruit. Most of the time growers did not realize they had the pest until it was well established. Spraying helps reduce damage, but it never stops the infestation. That is why I am emphasizing that next year growers monitor for the fly as soon as their fruit starts to flower. If you have strawberries, SWD may start with them as the adults will emerge in the early spring and begin laying eggs. Whether they lay eggs in our strawberry crop is not certain, as both Oregon and Michigan (both have had SWD for the last 2-3 years) have found little damage in their strawberry crop so far. We will need to see if that holds true for our area too. Later in the season (July-October) SWD will move into other small fruit. You should not allow the fly to establish itself on your farm. If it does you will probably never get rid of it (because of its ability to live and breed on many types of rotting vegetation). Therefore, if you monitor and do not catch any, you still need to be vigilant and watch for any early fruit damage. If you do catch any adults you need to start a spray program to reduce the SWD population. SWD traps and how to build or buy them are explained in my SWD Fact Sheet. Although the males have the characteristic spot on the end of each wing (Photo 1), and can be identified fairly confidently by these two marks, the females have no spot (Photo 2) and the ovipositor needs to be examined. Larvae are maggots and look just like any other Drosophila species (Photo 3). If you have any questions as to the proper identification of any of your trap catches please contact me: Phone: 301-627-8440 or jbrust@umd.edu or your county educator.
This year’s Summer Orchard Tour visited Baltimore County, Maryland. The tour explored four operations:

Richardson Farms, owned and operated by the Richardson family in White Marsh, MD. It is a very large wholesale and retail operation growing over 300 acres of vegetables: collards, kale, tomatoes, sweet corn, etc., chickens and turkeys. It is a complex vertically integrated operation involving several generations. They have a new 10,000 square foot retail farm market that is spectacular! The Farm Market Kitchen features chef Ben Simpkins, rotisserie chicken plus many other dishes made from farm fresh ingredients. We all enjoyed a delicious lunch of collards prepared by the Richardson family. Thanks!

Steve and Jo-Ann Weber have a farm market in Parkville and a pick your own farm in Glen Arm, Maryland. The farm market features a cider mill, bakery, and barnyard. They raise turkeys for Thanksgiving and Christmas. They are famous for their Baltimore style peach cake in season. Their farm in Glen Arm features peaches, blueberries and blackberries. It is a “boutique style” membership pick your own farm.

Boordy Vineyards in Hydes is Maryland’s oldest vineyard. It was purchased by the R. B. Deford family in 1980. They produce 97,000 gallons of wine annually. They feature many weekly events to promote their wine. It is a popular place to be! They need extra employees just to park cars on a Thursday night. They treated us to sampling of delicious wines, a tour of the market, the vineyards and the wine making facilities. It was a surprise to see large stainless steel vats surrounded in ice to maintain quality. The soil is a major concern to the quality of the wine. The plantings follow the soil types to assure the highest quality.

The Prigel Family Creamery is a fifth generation dairy farm with a creamery featuring homemade ice cream. It is a beautiful facility though not all in the neighborhood agree. It is always a shame to see hard working farmers struggling against the neighbors. It is inspiring to see a farm family working hard to educate the surrounding population and to update their operation to survive in a changing world. Trust me, the ice cream is well worth any inconvenience. The tour was well attended and enjoyed by all. Please join us next year. I know you will have a good time while learning something new!

Field studies to investigate BMSB population dynamics and feeding injury in selected crops were conducted in 2011 at three UM research farms (Keedysville-Washington County, Beltsville and Upper Marlboro-Prince George’s County), where significant infestations were present. Key field, fruit and vegetable crops were grown according to recommended commercial practices and not treated with insecticides, unless otherwise indicated. All crops were in close proximity with each other and close to woodlots. Whole fields, orchard blocks, or small plots, depending on the crop, were sampled weekly to assess population densities of BMSB adults, egg masses, and nymphs (recorded by size as small, medium, large). Vegetable crops were also harvested to measure and characterize cumulative fruit injury over the crop cycle. To monitor BMSB activity, pheromone and blacklight traps were operated at five research farms from May to late September and serviced either daily or three times weekly.

Figure 1. Blacklight trap captures of brown marmorated stink bug adults at five locations in Maryland during 2010 and 2011.
SUMMARY OF BROWN MARMORATED STINK BUG INFESTATIONS IN MARYLAND CROPS

Trap Monitoring. At Salisbury (Lower Shore), Queenstown (Mid Shore), Upper Marlboro (Southern MD), Beltsville (Lower Central MD), and Keedysville (Western MD), light trap captures averaged 0.7, 25, 77, 94, and 46 BMSB adults per night during July and August, respectively (Fig. 1). Activity at Keedysville was significantly less than captures in 2010, which averaged 108 adults per night during the same period. Traps at the other four farms captured 2.5 to 3 times more stink bugs than captures in 2010. Peak captures at Beltsville and Upper Marlboro exceeded 400 per night during the 3rd week of July. Both types of pheromone traps failed to capture stink bugs during the peak activity. Only a few adults and nymphs were captured later in the summer.

Apples, Grapes, and Peaches – Orchard blocks of apples and peaches were sampled weekly from early May to mid-September at the Keedysville farm. Sampling unit consisted of a visual search of the whole side of two apple and peach trees at two sites (orchard edge, interior). Grapes were sampled weekly at two sites (outer row, interior) by visual searching both sides of three consecutive plants of two varieties. Infestations were relatively low compared to the two previous years, because these crops were treated with combinations of insecticides plus Surround on a 10 day schedule. A few adults were detected, primarily at the orchard edge and mainly in peaches at the end of June, but there was no evidence of nymphal development. In grapes, most adults were observed on the outer row and in the variety Chambourcin.

Raspberries – A mixed-variety planting was monitored weekly at the Keedysville farm from early May to mid-September. Sampling unit consisted of a visual search of foliage and fruit along the side of a row (3 feet section). One section was searched on the outer row, and another on an interior row. Adults colonized plants during mid-June and sustained high populations to early September. Densities averaged 13.6 and 11.6 bugs per sampling unit in the outer and interior rows, respectively. Feeding caused severe fruit damage, rendering the crop unmarketable. Raspberries was undoubtedly a favorable food source for adult BMSB, but relatively few nymphs were present, accounting for only 5% of the total numbers recorded.

Pumpkins – An over-the-canopy visual search along the edge and interior rows was conducted weekly from late July to mid-September in a variety trial study at Keedysville. No adults or nymphs were present. Sampling pumpkin plants in an insecticide residue study and casual inspections of mixed winter squashes at Beltsville also revealed no evidence of feeding injury or nymphal development.

Tomatoes – At three farms, a plot of trellised tomato was sampled weekly from early July to mid-September by inspecting plants and examining harvested fruit for damage. No stinkbug activity was observed until ripe fruit appeared, but then consistently low numbers of adults (<0.5 per m²) and only a few nymphs were found relative to the level of subsequent fruit injury. Green and brown stinkbugs were abundant than BMSB (making up 85% of all detections) and may be more damaging. It is possible that stinkbug adults move in and out of tomatoes following a diurnal pattern, since numbers detected did not account for the fruit injury which ranged from 32 to 48% of the total number of fruit harvested.

Figure 5. Seasonal abundance of stink bug adults, egg masses and nymphs (all species combined) and resulting damage in tomato during 2011.

Figure 6. Seasonal abundance of stink bug adults, egg masses and nymphs (all species combined) and resulting damage in tomato during 2011.

1 This article, highlighting fruit and tomatoes, is taken from a 28 page manuscript by the authors that includes other vegetables and field crops, as well as pesticide studies on vegetables. To view the full manuscript, please visit my web site at:

Thanks, Joe
YOUR DUES DOLLARS AT WORK—FUNDING RESEARCH PROPOSALS  Lynn Moore, MSHS Secretary

Each year the Maryland State Horticulture Society funds research projects designed to improve the profitability of fruit producers, and support family farming in Maryland. Grants are awarded to projects that are relevant to the industry and will benefit Maryland growers. These grants are frequently used as seed money to attract other monies to fund the research projects.

These four projects were funded in 2011:

1. A continuation of “Alternative Crops Research and Demonstration Trial” by Dr. Joseph A. Fiola, Western Maryland Research and Education Center, University of Maryland.

2. “New Planting Block to Evaluate Alternative Apple Varieties for Processing” by Dr. Joseph A. Fiola. (Joe’s apple wine again won a medal at the AWS Wine Competition (see page 5). That brings the total to 16 medals in 8 years!)

3. A continuation of “Improving Apple Tree Architecture, Reducing Tree Stature and Promoting Apple Fruit Quality through Field Hybridization and Selection” by Dr. Christopher S. Walsh. Plant Science & Landscape Architecture, University of Maryland (see article on page 5)

4. “Nutrient Management in the Annual Strawberry Plasticulture System for Improved Fruit Quality” by Mike Newell, Wye Research and Education Center, University of Maryland.

Each scientist is happy to discuss their project with any grower. Project results are presented to the Maryland State Horticultural Society and are available on request.

Frequently projects are presented at Twilight tours put on by the University of Maryland. We were able to view work by Dr. Chris Walsh at The Fruit and Vegetable Twilight Tour at the Western Maryland Research and Education Center this past October. I was excited to hear that he may release a new apple variety soon. This meeting also summarized this year’s study of the Brown Marmorated Stink Bug by Bryan Butler and the USDA-ARS Appalachian Fruit Research Station in Kearneysville, West Virginia.

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Private Pesticide Certification and Recertification & Nutrient Management Voucher Training Calendar

1/09/12: MD PVT PESTICIDE APPLICATOR CERTIFICATION TRAINING
Time: 6 PM - 8PM, Location: Davidsonville Family Rec Center
Registration: UME-Arundel County (410) 222-6759

1/09/12: MD PRIVATE PESTICIDE APPLICATOR TEST REVIEW
Time: 7 PM - 9 PM, Location: UME-Garrett Co. 1916 Maryland Highway, Suite A, Mt. Lake Park, MD 21550, Registration: Willie Lantz 301-334-6960

1/12/12: PRIVATE PESTICIDE APPLICATOR TRAINING CLASS
Time: 7 PM - 9 PM, Location: UME-Kent Co., 709 Morgnec Road, Chestertown, MD 21620, Registration: 410-778-1661 or jdouthit@umd.edu

1/19/12: PRIVATE PESTICIDE APPLICATOR TRAINING EXAM
Time: 7 PM - 9 PM, Location: UME-Kent Co., 709 Morgnec Road, Chestertown, MD 21620, Registration: 410-778-1661 or jdouthit@umd.edu

1/23/12: MD PRIVATE PESTICIDE APPLICATOR TEST REVIEW
Time: 3:00 PM, Location: UME-Kent Co., 709 Morgnec Road, Chestertown, MD 21620, Registration: Willie Lantz 301-334-6960

1/23/12: MD PRIVATE PESTICIDE APPLICATOR CERTIFICATION EXAM
Time: 6 PM -8 PM, Location: Davidsonville Family Rec Center, Davidsonville, MD, Registration: UME-Arundel Co. (410) 222-6759

2/21/12: NEW CERTIFICATION TRAINING
Time: 9 AM - 11:30 AM, Location: UME-Baltimore Co.,1114 Shawan Road, Suite 2, Cockeysville, MD 21030, Registration: (410) 771-1761

2/21/12: RE-CERTIFICATION TRAINING
Time: 1 PM - 3:30 PM, Location: UME-Baltimore Co., 1114 Shawan Road, Suite 2, Cockeysville, MD 21030, Registration: (410) 771-1761

2/28/12: NEW CERTIFICATION EXAM
Time: 9 AM - 10:30 AM, Location: UME-Baltimore Co., 1114 Shawan Road, Suite 2, Cockeysville, MD 21030, Registration: (410) 771-1761

3/6/12: NEW PESTICIDE CERTIFICATION TRAINING
Time: 1 PM – 3 PM, Location: UME-Wicomico Co. Registration: (410) 749-6141

3/13/12: NEW PESTICIDE CERTIFICATION TEST
Time: 1 PM – 3 PM, Location: UME-Wicomico Co. Registration: (410) 749-6141

3/15/12: PVT APPLICATOR RECERT & NUTRIENT MGMT VOUCHER
Time: 6 PM – 9 PM, Location: Talbot County Ag Center on Hiners Lane, Easton MD, Registration: Shannon Dill 410-822-1244

4/13/12: ON-LINE NUTRIENT MGMT VOUCHER RECERTIFICATION
Time: 4 PM - 6 PM, Registration: UME-Anne Arundel Co. (410) 222-6759 (Deadline: April 11)

4/20/12: ON-LINE PVT PESTICIDE APPLICATOR RECERTIFICATION
Time: 4 PM - 6 PM, Registration: UME-Anne Arundel Co. (410) 222-6759 (Deadline: April 18)
## 2012 Calendar of Events

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-05-12 thru 1-08-12</td>
<td>Southeast Regional Fruit and Vegetable Conference, Savannah International Trade and Convention Center, Savannah, GA. <a href="http://www.seregionalconference.com/index.html">http://www.seregionalconference.com/index.html</a></td>
</tr>
<tr>
<td>1-08-12 thru 1-22-12</td>
<td>55th International Fruit Tree Association Annual Conference &amp; Field Tours, Santiago, Chile Conference January 8 -11; Field Tours: January 12-22 (Chile, Argentina, and Brazil) For more information go to: <a href="http://www.fruittree.org/">http://www.fruittree.org/</a></td>
</tr>
<tr>
<td>1-16-12 thru 1-18-12</td>
<td>Ohio Produce Growers and Marketing Association, Sandusky, OH. <a href="http://www.opgma.org/?q=congress">http://www.opgma.org/?q=congress</a></td>
</tr>
<tr>
<td>1-16-12 thru 1-18-12</td>
<td>2012 North American Raspberry &amp; Blackberry Conference (NARBA’s Annual Conference) In association with the Ohio Produce Growers and Marketers Association, Conference is located Sandusky, OH. For more information or registration go to: <a href="mailto:info@raspberryblackberry.com">info@raspberryblackberry.com</a> or 919-542-4037</td>
</tr>
<tr>
<td>1-24-12 thru 1-26-12</td>
<td>Empire State Fruit and Vegetable Expo &amp; Farmers’ Direct Marketing Conference, Oncenter Convention Center, Syracuse, NY. Information: <a href="https://nysvga.org/expo/">https://nysvga.org/expo/</a></td>
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<tr>
<td>1-27-12 8:00 AM to 3:30 PM</td>
<td>Central Maryland Vegetable Growers Meeting, Friendly Farm Inn, Foreston Road, Upperco, MD For more information or registration contact: 410-666-1024</td>
</tr>
<tr>
<td>1-31-12 thru 2-02-12</td>
<td>Mid-Atlantic Fruit and Vegetable Convention, Hershey Lodge &amp; Convention Center, Hershey, PA. <a href="http://www.mafvc.org/html">http://www.mafvc.org/html</a></td>
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<tr>
<td>2-08-12 8:00 AM to 4:00 PM</td>
<td>Southern Maryland Vegetable &amp; Fruit Production Meeting, Bowie Elks Lodge, Bowie, MD For more information: 410-222-6759 (Registration deadline Feb 6, 2012)</td>
</tr>
<tr>
<td>2-15-12 8:30 AM to 4:00 PM</td>
<td>Bay Area Fruit School, Wye Research and Education Center, Queenstown, MD For more information please go to: <a href="http://extension.umd.edu/local/Wye/index.cfm">http://extension.umd.edu/local/Wye/index.cfm</a></td>
</tr>
<tr>
<td>2-23-12 8:30 AM to 4:00 PM</td>
<td>Western Maryland Regional Fruit Meeting, Western Maryland Research &amp; Education Center, Keedysville, MD <a href="http://www.grapesandfruit.umd.edu/calendar.htm">http://www.grapesandfruit.umd.edu/calendar.htm</a> For more information or registration, please call (301) 432-2767 x301 or <a href="mailto:sbarnes6@umd.edu">sbarnes6@umd.edu</a></td>
</tr>
<tr>
<td>2/21/12 8:30 AM to 3:00 PM</td>
<td>Dorchester Eastern Shore Vegetable Meeting, Caroline County 4-H Park, 6314 Detour Road, Denton, MD 21629. For more information contact University of Maryland Extension—Dorchester Co. At 410-758-0166</td>
</tr>
<tr>
<td>2-25-12</td>
<td>MGGA/MWA/UME Annual Meeting, Clarion, Oxon Hill, MD For more information go to:</td>
</tr>
</tbody>
</table>

## Harry G. Black
### Distinguished Service Award

This award will be given, when deemed appropriate by the Executive Board, to a person who is a member of the Maryland State Horticultural Society making a significant contribution in the state of Maryland this year and in years past. The Award and Nominations Committee, consisting of three members appointed by the President, shall recommend to the Executive Board such an award.

Although primarily intended to be given to a fruit grower or those involved in fruit production, it may be given to a person in an allied industry such as processing, a state employee, a county agent, university personnel, or to any other person making a special contribution to the fruit industry. The committee will annually review the list of nominees, if any, to determine its recommendation to the Executive Board.

Previous recipients are:
- Lloyd Balderston III, 1976
- Dr. Castillo Graham, 1976
- Professor A. F. Veirheller, 1976
- S. Herman Todd, 1977
- William C. Main, 1978
- Theodore Stegmaier, 1978
- M. N. “Nick” Pope, 1979
- Dr. L. O. Weaver, 1980
- Dr. Ben L. Rogers, 1981
- Dr. Arthur Thompson, 1982
- Harry G. Black, 1985
- George H. Butler, Jr., 1986
- William M. Allenberg, 1996
- Dr. Paul W. Steiner, 2000
- I. Bruce Barr, 2005
- Allan Baugher, 2011
2012 MID-ATLANTIC FRUIT AND VEGETABLE CONVENTION

Schedule & Registration

This year Hershey Lodge is now offering online reservation for your convenience. To make your reservation you can go to:

https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=3825432

If you are unable to go online, you can contact Hershey Lodge at 1-800-HERSHEY (437-7439). Just let them know that you are attending the Mid-Atlantic Fruit & Vegetable Conference.

Hershey Lodge, an official Resort of Hersheypark - http://www.hersheylodge.com/

HERSHEY LODGE HOTEL RESERVATIONS ARE NOW ONLINE!

MARYLAND STATE HORTICULTURAL SOCIETY MEETINGS HELD AT CONVENTION

The Maryland State Horticultural Society will have the following meetings during the convention:

EXECUTIVE COMMITTEE MEETING
January 31, 2012 - 4:15 PM
Cocoa Suite #2

BUSINESS MEETING
February 1, 2012 - 4:30 PM
Tower Board Room

EDUCATIONAL PROGRAM (AS OF DEC 6, 2011 - UPDATES DAILY GO TO: WWW.MAFVC.ORG)

PRE-CONVENTION WORKSHOPS

MONDAY, JANUARY 30, 2012 (pre-registration is required)

GREENHOUSE BOOT CAMP WORKSHOP ($45.00 fee which includes lunch)
9:30 Registration
10:00 Market Potentials for Greenhouse Ornamentals - Thomas Ford, Penn State Univ. Extension
10:15 Selecting What to Grow; How Do you Choose with so Many Options - Alan Michael, Penn State Univ. Extension
11:00 Crop Scheduling - Sarah Mitchell, Syngenta Flowers
11:45 Lunch – included
1:45 Pest Control (Insects) - Thomas Ford, Penn State Extension
2:30 Break
2:45 Pest Control (Diseases) - Steven Bogash, Penn State Extension
3:45 Post Harvest Handling for Greenhouse Annuals - Alan Michael, Penn State Extension
4:15 Marketing Annuals into the Current Economy - Steven Bogash, Penn State Extension
4:30 Adjourn

MOBILE MARKETING OPPORTUNITIES & MANAGING FOOD BUSINESS RISKS ($60 fee which includes lunch)
10:00 AM to 4:30 PM (Registration form on page 19)

Morning Session: Using Social Media & Mobile Applications in Marketing
More and more consumers are using social media, such as Facebook and Twitter, and mobile phone applications, such as four-square or Google Places, to learn about businesses and products. Penn State’s Sarah Cornelisse and Jeffrey Hyde will lead a discussion of some of these tools in the context of a strategic marketing plan. Participants will leave with a strong sense of how the tools can be used collectively to promote the business to certain target audiences.

Afternoon Session: Managing Food Business Risks
In the past decade, interest in locally produced foods has grown substantially, in a great part due to consumer desire to know how and where their food is grown. Capitalizing on this interest in buying fresh, local foods, agricultural producers who direct market and add value have realized a larger portion of each food dollar remaining in the farm/orchard – but with increased receipts have come larger business risks, due to factors unique to businesses whose products are ingested. This Penn State Extension session led by Lynn Kime and Winifred McGee introduces five proactive strategies and tools that can be adopted by producers to lessen their liability while remaining in compliance with government regulations and consumer expectations for safe, quality food products. By attending this session, participants will be able to choose proactive strategies and take the first steps in engaging a customized risk management plan.

SEED HEAT TREATMENT WORKSHOP ($25.00 fee)
1:00 PM to 5:00 PM
This workshop will be a combination of formal PowerPoint presentations as well as hands-on demonstrations. Registration will be limited. Participants will be given the opportunity to treat their own seed however, we will also provide some seed to practice with for those who don't bring their own. Depending on the number registered, we may need to place a limit on the amount of seed each person can treat. We will set-up 3 to 4 workstations. Participants will also have the opportunity to make their own drying screens to take with them.

MAIN CONVENTION PROGRAM

TUESDAY MORNING, JANUARY 31, 2012

TREE FRUIT - Nigerian Room
9:00 Invocation - James Clarke
9:05 President’s Address - Ed Weaver, Weaver’s Orchard
9:15 **Making the Worker Protection Standard Work for You - James Harvey, Penn State Univ.
9:45 George Goodling Memorial Lecture - *Insect IPM Research in Pennsylvania Tree Fruits Over the Past 40 Years and A Glimpse into the Future - Dr. Larry Hull, Penn State Univ.
10:30 Adjourn to Keynote Session

Continued on page 12
2012 Mid Atlantic Fruit and Vegetable Convention Educational Programs  Continued from Page 11

FARMERS’ MARKETS - Trinidad Room
9:00  Community Interest, Volunteers and Events - Megan McBride, Easton Farmers’ Market
9:30  Industry Show and Tell
9:45  The Consumer and the Farmers’ Market: What Research Shows Us - Dr. Kathleen Kelley and Dr. Jeffrey Hyde, Penn State Extension
10:30 Adjourn to Keystone Session

VINE CROPS - Crystal Room
9:00  Heirloom Watermelons/Muskmelons - Aubrey Hanford, Samantha’s Heirlooms and Exotics
9:30  Industry Show and Tell
9:45  PA Winter Squash Variety Evaluation - Dr. Elsa Sanchez, Penn State Univ.; Dr. Timothy Elkner, Lee Silvers and Thomas Buztler, Penn State Extension
10:30 Adjourn to Keystone Session

BROWN MARMORATED STINK BUG AND OTHER INVASIVES - Magnolia Room AB
9:00  The Invasives - Dr. Shelby Fleischer, Penn State Univ.
9:30  Industry Show and Tell
9:45  Brown Marmorated Stink Bug in Vegetable Crops - Dr. Galen Dively, Univ. of Maryland
10:30 Adjourn to Keystone Session

GREENHOUSE PRODUCTION - Empire Room AB
9:00  Container Vegetables: Opportunities for New Products - Steven Bogash, Penn State Extension
9:30  Industry Show and Tell
9:45  Trial Gardens Flower Report: The Best from the PSU Flower Trials - Alan Michael, Penn Extension
10:30 Adjourn to Keystone Session

ASPARAGUS - Empire Room C
9:00  Optimum Fertility for Optimum Yields - Dr. Michael Orzolek, Penn State Univ.
9:30  Industry Show and Tell
9:45  Weed Management in Asparagus - Dr. Bradley Majek, Rutgers Univ.
10:30 Adjourn to Keystone Session

HOPS - Empire Room D
9:00  Producing Hops: Early Decisions - Rick Pedersen, Pedersen Farms
9:30  Industry Show and Tell
9:45  Growing Hops - Dr. Matthew Grieshop, Michigan State Univ.
10:30 Adjourn to Keystone Session

FEATURED GROWERS - Wild Rose Room
9:00  To Be Announced
9:30  Industry Show and Tell
9:45  To Be Announced
10:30 Adjourn to Keystone Session

KEYNOTE SESSION - Nigerian and Aztec Rooms
10:45  Mid-Atlantic Legislative Affairs Update - Gary Swan, Pennsylvania Farm Bureau
11:00  Keynote Presentation - Positioning Your Farm Business for the Future - Dr. David Kohl, Virginia Tech Univ.
12:00  Luncheon Buffet - Great Lobby and Confection Lobby (cash)

TUESDAY AFTERNOON, JANUARY 31, 2012

TREE FRUIT - Nigerian Room
1:30  Rootstock Scion Interactions - What Do We Know - Dr. Terence Robinson, Cornell Univ.
2:15  Industry Show & Tell

Special Session on Engineering Solutions for Specialty Crops

MARKETING - Trinidad Room
To Be Announced

PUMPKINS - Crystal Room
1:30  Virus Transmission in Pumpkins in the Mid-Atlantic - Dr. Gerald Brust, Univ. of Maryland
2:00  To Be Announced
2:30  No-Till Pumpkins - Sjoerd Duiker, Penn State Univ.
3:00  Industry Show and Tell
3:15  Pumpkin and Vine Crop Disease Control - Dr. Andrew Wyenandt, Rutgers Univ.
4:00  Pennsylvania Pumpkin Variety Trial - Dr. Timothy Elkner, Thomas Buztler, and Emily Swackhammer, Penn State Extension
4:30 Adjourn

IRRIGATION - Magnolia Room AB
1:30  Marcellus Shale Exploration - Effect on Water Quality - Bryan Swistock, Penn State Extension
2:00  Monitoring Soil Moisture - David Lankford, Earthech Solutions
2:30  Trends and Development in Drip Irrigation - William Wolfram, Toro Ag
3:00  Industry Show and Tell
3:15  Drip Chemigation for Vegetables - Dr. Gerry Ghidini, Rutgers Univ.
4:00  Fertilization - William Wolfram, Toro Ag
4:30 Adjourn

ORGANIC PRODUCTION - Magnolia Room CD
1:30  Methods Cultural - Fundamental to Successful Organic Pest Management - Brian Caldwell, Cornell Univ.
2:00  Biological Control of Insects in Vegetable Cropping Systems - Dr. Shelby Fleischer, Penn State Univ.
2:30  Organic Asparagus Production - Dr. Mark Hutton, Univ. of Maine
3:00  Industry Show and Tell
3:15  Organic Insecticides - What Works and What Doesn’t - Dr. Galen Dively, Univ. of Maryland
4:00  A Hybrid Mulch System for Organic Vegetable Production - Dr. Mark Hutton, Univ. of Maine
4:30 Adjourn

GREENHOUSE PRODUCTION - Empire Room AB
1:30  Stopping Root Diseases - Alan Michael, Penn State Extension
2:00  Fertilizing Annuals - Dr. Carl Peters, J.R. Peters Co.
2:30  Growing New Guinea Impatiens and Sunpattens - Dr. James Faust, Clemson Univ.
3:00  Industry Show and Tell
3:15  Fundamentals of Tank Mixing - Dr. Ray Cloyd, Kansas State Univ.
4:00  Greenhouse Light Management, Making the Most of Sunlight and Artificial Light - Dr. James Faust, Clemson Univ.
4:30 Adjourn

COLE CROPS - Empire Room C
1:30  Cauliflower Production and Marketing in PA - Jeffrey Stoltzfus, Eastern Lancaster Co. School District
2:00  Brussels Sprouts Production - Dr. Michael Orzolek, Penn State Univ.
2:30  Swede Midge Update - Christy Hoepfing, Cornell Coop. Extension
3:00  Industry Show and Tell
3:15  Insect Identification and Control in Cole Crops - Dr. Gerald Ghidini, Rutgers Univ.
4:00  Collards and Kale Production - Dr. Gerald Brust, Univ. of Maryland
4:30 Adjourn

LABOR/FARM MANAGEMENT - Empire Room D
1:30  Overview of Computerized Recordkeeping Systems for Farms - Keith Dickinson, Penn State Extension

Continued on page 13
2012 Mid Atlantic Fruit and Vegetable Convention Educational Programs

Continued from Page 12

2:00 To Be Announced
3:00 Industry Show and Tell
3:15 To Be Announced
4:00 To Be Announced
4:30 Adjourn

GENERAL VEGETABLES - Wild Rose Room
1:30 Managing Soilborne Pathogens in Snap Beans - Dr. Beth Gugino - Penn State Univ.
2:00 Edamame Production - Dr. Carl Sams, Plant Sciences Dept., Univ. of Tennessee
2:30 Innovative Equipment for Small Farms - Dr. John Witholt, Univ. of Kentucky
3:00 Industry Show and Tell
4:00 Sweet Spanish Onion Production - Dr. Michel Orzolek, Penn State Univ.
4:30 Adjourn

TUESDAY EVENING, JANUARY 31, 2012 - SOCIAL
6:00 Fruit and Vegetable Grower Reception - Chocolate Lobby
7:00 Fruit and Vegetable Growers Banquet - Aztec and Nigerian Rooms ($35 ticket required) - buffet dinner, recognitions and awards

WEDNESDAY MORNING, FEBRUARY 1, 2012

TREE FRUIT - Nigerion Room
9:00 *Brown Marmorated Stink Bug - One Year Later - Dr. Gregory Krawczyk, Penn State Univ.; Dr. Tracey Leskey, United States Dept. of Agriculture
9:45 *What Copper Formulations are Best for Tree Fruit Applications? - Dr. David Rosenberger, Cornell Univ.
10:30 Industry Show & Tell
10:45 Test Drive a High Density Sweet Cherry Orchard System - Dr. Greg Lang, Michigan State Univ.
11:30 Engineering of Machine-Assist Harvest Devices: Current and Future Activities - Dr. Paul Heinemann, Penn State Univ.
12:00 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

PEACHES - Trinidad Room
9:00 Mechanization in Peach Thinning - Dr. Tara Baugher, Penn State Extension
9:30 Peach Rootstocks Your Father Wished He Had - Dr. Gregory Reighard, Clemson Univ.
10:00 Industry Show & Tell
10:15 Peach Scab - Biology & Control - Dr. Norman Lalancette, Rutgers Univ.
10:45 Breeding for Different Flesh Types, Acidity Levels and Bacterial Spot Resistance - Dr. John Clark, Univ. of Arkansas
11:30 RosBREED Survey to Quantify Grower Priorities for New Peach Cultivars - Drs. Greg Reighard, Clemson Univ. and John Clark, Univ. of Arkansas
12:00 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

SWEET CORN - Crystal Room
9:00 Sweet Corn Insect Pest Control - What New and What Works - Dr. Galen Dively, Univ. of Maryland
9:45 No-Til Weed Control in Sweet Control - With and Without Atrazine - Dwight Lingenfelter, Penn State Univ.
10:15 Industry Show and Tell
10:30 Airblast Sprayers for Sweet Corn - Calibration and Adjustment - George Hamilton, Univ. of New Hampshire Extension
11:30 PVGA Annual Meeting
12:30 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

FARM RETAIL MARKETING - Magnolia Room AB
9:00 The Consumer and the On-Farm Market: What Research Shows Us - Dr. Kathleen Kelley and Dr. Jeffrey Hyde, Penn State Univ.
10:00 Industry Show and Tell
10:15 Custom Growing - Bob Russell, Bob Russell Custom Grower
11:00 Farm Product Branding - Lela Reichart, Pennsylvania Dept. of Agriculture
11:30 PVGA Annual Meeting - Crystal Room
12:30 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

SPANISH - Magnolia Room AB

9:00 Update from the United States Potato Board and the Pennsylvania Co-Operative Potato Growers - John Probasco, United States Potato Board and Roger Springer, Pennsylvania Co-Operative Potato Growers
9:30 Fertilizer Program for Potatoes in the Mid-Atlantic and Northeast - Dr. Donald Halseth, Cornell Univ.
10:00 Industry Show and Tell
10:15 What’s New in the Cornell Potato Breeding Program - Dr. Walter De Jong, Cornell Univ.
11:00 Update on Potato Diseases - Dr. Beth Gugino, Penn State Univ.
11:30 PVGA Annual Meeting - Crystal Room
12:30 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

GREENHOUSE ORNAMENTALS - Empire Room AB
9:00 Western Flower Thrips Management: Is the Game Over? - Dr. Raymond Cloyd, Kansas State Univ.
10:00 Industry Show and Tell
10:15 Energy Conservation for Greenhouses - Scott Sanford, Univ. of Wisconsin
11:00 Biomass Energy for Greenhouses - Scott Sanford, Univ. of Wisconsin
11:30 PVGA Annual Meeting - Crystal Room
12:30 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

PEPPERS - Empire Room C
9:00 High Tunnel Pepper Nutrient Management -Steve Bogash - Penn State Extension
9:30 Keeping it Safe: Tips for Producing and Packing Peppers in the World of Foodborne Illnesses - Dr. Wesley Kline, Rutgers Cooper. Ext.
10:00 Industry Show and Tell
10:15 Pepper Disease Management Update - Dr. Andrew Wyenandt, Rutgers Univ.
11:00 Plant Pathogens in Surface Irrigation Water - Lisa Jones - Cornell Univ.
11:30 PVGA Annual Meeting - Crystal Room
12:30 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

ROOT CROPS - Empire Room D
9:00 High Tunnel Beets and Carrots – David King, Harvest Valley Farms
9:30 Insect Control for Root Crops – Dr. Shelby Fiescher, Penn State Univ.
10:00 Industry Show and Tell
10:15 How I Grow Root Crops – Roy Brubaker, Village Acre Farm
11:00 Herbicides for Roots Crops – Dr. Bradley Majek, Rutgers Univ.
11:30 PVGA Annual Meeting - Crystal Room
12:30 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

WINE GRAPES - Wild Rose Room
9:00 Grape Disease Research Update: Bunch Rot, Black Rot and Phomopsis - Bryan Hed, Penn State Univ.
9:45 Soil Health and Nutrition and the Cornell Soil Health Program - Lee Stivers, Penn State Extension
10:15 Industry Show & Tell
10:30 Bird Management in Vineyards - Mark Chien, Penn State Extension
11:15 Powdery and Downy Mildew Research in a Trying Year - Dr. Noemi Halbrendt, Penn State Univ.
12:00 Lunch

WEDNESDAY AFTERNOON, FEBRUARY 1, 2012

TREE FRUIT - Nigerion Room
1:30 **Calibrating Air Blast Sprayers - George Hamilton, Univ. of Vermont
2:30 High Density Pear Systems - Dr. Terence Robinson, Cornell Univ.
3:15 Industry Show & Tell
3:30 Food Safety Issues and US Apple Association - Nancy Foster, U.S. Apple Association
4:00 Pennsylvania Apple Marketing Board Program Update - Karin Rodriguez, Penna. Apple Marketing Board
4:30 Adjourn
4:30 Maryland State Horticultural Society Business Meeting - Tower Board Room

PEACHES - Trinidad Room
1:30 Annual Business Meeting of the National Peach Council
1:45 Ernie Christ Memorial Lecture - *The Long View of Orchard Floor Management in Peaches - Dr. Bradley Majek, Rutgers Univ.

Continued on page 14

* Indicates topic expected to qualify for category pesticide credit ** Indicates topic expected to qualify for core pesticide credit *** Indicates topic is expected to qualify for fumigation pesticide credit
Continued from Page 13

2:30 Industry Show & Tell
2:45 Marketing Opportunities for the Peach Industry - Steve Lutz, The Perishables Group
3:45 What are my Favorite Peach Varieties & Why - Grower Panel - Jerry Fresco (moderator); Mark Bream, PA; Bob Black, MD; Bob Best, NJ; Jim Bennett, DE
4:30 Adjourn
4:30 Maryland State Horticultural Society Business Meeting - Tower Board Room

TOBITAS - Crystal Room
1:30 Tomato Breeding Update - Dr. Majid Foolad - Penn State Univ.
2:00 Focus on Tomato: A Webcast Training Resource for Growers and Other Practitioners - Phil Bogan - Communications Manager - Plant Management Network Int.
2:30 Chasing Potassium: Building High Yields and Great Tomatoes - Steve Bogash - Penn State Univ.
3:00 Industry Show and Tell
3:15 Tomato Disease Update: Looking Back and Then Forward to 2012 - Dr. Beth Gugino - Penn State Univ.
4:00Dicamba and 24-D Tolerant Crops in Tomato and Vegetable Rotations - David Mortensen Penn State Univ.
4:30 Adjourn

CSA MARKETING - Magnolia Room AB
1:30 Crop Planning - Tianna DuPont, Penn State Extension
2:15 The Business Side of CSA's - Joseph Stratton, Wynnmore Farm
3:00 Industry Show and Tell
3:15 To Be Announced
4:00 To Be Announced
4:30 Adjourn

SPANISH - Magnolia Room C

POTATOES - Magnolia Room D
1:30 Update on Insect Control in Potatoes - Dr. Gerald Ghidey, Rutgers Univ.
2:00 Thoughts on Storage of Potatoes - Todd Fosbury-Techmark, Inc.
2:30 Thoughts, Observations and Concerns from a Potato Chip Company Perspective- Mitch Keeney, Utz Potato Chip Company (tentative)
3:00 Industry Show and Tell
3:15 So You are Going to be a Potato Farmer-Now What? - Robert Leiby, Penn State Extension,
4:00 New Opportunities for Growing Potatoes in Pennsylvania - Keith Masser, Pennsylvania Co-operative Potato Growers Inc.

GREENHOUSE PERENNIALS - Empire Room AB
1:30 New Improved and Underutilized Perennials - Melanie Neff, Green Leaf Plants
2:00 Green Roof Plants - Paul Cook, Creekhill Nursery
2:30 Managing Foliar Diseases in the Greenhouse - Ruth Benner, Penn State Extension
3:00 Industry Show and Tell
3:15 Perennial Crop Scheduling and Vernalization Requirements - Melanie Neff, Green Leaf Plants
4:00 Marketing Mania; Perennials for Generation X & Yer’s - Thomas Ford, Penn State Extension
4:30 Adjourn

SMALL FRUIT - Empire Room CD
1:30 Raspberry Nutrition: The Foundation of Productivity - Dr. Eric Hanson, Michigan State Univ.
2:00 Opportunities in Blackberry Production and Marketing - Dr. John Clark, Univ. of Arkansas
2:30 New Season Extension Technologies for Strawberries - Dr. Kim Lewers, USDA-ARS.
3:00 Industry Show and Tell
3:15 Selecting Primocane-fruiting Raspberry Cultivars - Dr. Gail Nonnecke, Iowa State Univ.
4:00 Strawberries: Then, Now, and in the Future - Dr. Marvin Pitts, Cornell Univ.
4:30 Adjourn

WINE GRAPES - Wild Rose Room
1:30 Update on NE-1020 Wine Variety Trials - Dr. Robert Crassweller, Penn State Univ.
2:00 Observations on 2011 Vintage - Denise Gardner, Penn State Univ.
2:30 New Zealand Wine Industry and Relations with the U.S. - Dr. Kathleen Kelley, Penn State Univ.
3:15 To Be Announced
3:45 Impact of the Use of Phosphorous Acid Formulations - Dr. Joseph Fiola, Univ. of Maryland
4:15 Adjourn

WEDNESDAY EVENING, FEBRUARY 1, 2012

5:00 Reception for Pennsylvania Apple Growers - Cocoa Suites - hosted by the Pennsylvania Apple Marketing Board
7:00 Ice Cream Social for All Convention Attendees - Great Lobby - hosted by the Pennsylvania Vegetable Growers Association - ice cream served until 8:00 p.m.
7:00 Business Management Software
7:00 High Tunnel Biocontrol Workshop
- Principles for Successful Biocontrol - Dr. Cathy Thomas, Penna. Dept. of Agriculture
Using Guardian Plants in High Tunnel Biocontrol Program - Dr. Carol Glenister, IPM Laboratories
The Penn State High Tunnel Facility Biocontrol Program - Dr. Michael Orzolek, Penn State Univ.

THURSDAY MORNING, FEBRUARY 2, 2012

TREE FRUIT - Nigerian Room
9:00 *Disease Susceptibility of New Apple Cultivars - Dr. Keith Yoder, Virginia Tech Univ.
9:45 *Are Apple Tree Canker Diseases Impacted by Glyphosate Herbicide? - Dr. David Rosenberger, Cornell Univ.
10:15 Industry Show & Tell
10:30 *Apple Scab 101 - Dr. Henry Ngugi, Penn State Univ.
11:00 *Apogee for Control of Fire Blight and Shoot Growth - Dr. Keith Yoder, Virginia Tech Univ.
12:00 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

PEACHES - Trinidad Room
9:00 *Peach Scab - Biology & Control - Dr. Norman Lalancette, Rutgers Univ.
9:45 *Disease Susceptibility of New Apple Cultivars - Dr. Keith Yoder, Virginia Tech Univ.
10:00 Update on Peach System Trials in Pennsylvania - Dr. James Schupp, Penn State Univ.
10:45 National Peach Council Update - Kay Rentzel, National Peach Council
11:00 Handling Low Acid Peaches - Dr. Daniel Ward, Rutgers Univ.
11:30 California Peach Mechanization Discussion - Panel - Ajayab Dhaddy, CA Canning Peach Assoc.; Kevin Voss, CA Canning Peach Assoc.; Ranjit Davit, CA Canning Peach Assoc.
12:00 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

HIGH TUNNELS - Crystal Room
9:00 Marketing Using a Cooperative CSA Model* - Dr. Mitch Wapner, Paradox Farm/Firsthand Farmers
9:30 What Growers Need to Consider When Comparing High Tunnel Frames - Ed Person, Ledgewood Greenhouses
10:00 Industry Show and Tell
10:15 Trial Results for Cucumber, Chinese Cabbage and Potatoes in High Tunnels - Lewis Jett, West Virginia Univ.
11:00 Diseases and Their Control in High Tunnels - Dr. Meg McGrath, Cornell Univ.
11:30 Using Bio-Control Measures in High Tunnels - To Be Announced
12:00 Luncheon Buffet - Great Lobby and Confection Lobby (cash)

AGRITAINMENT - Magnolia Room AB
9:00 Consumer Demand for Agri-tourism - Sarah Comelisse, Penn State Extension
9:30 Networking With Your Regional Tourism Groups - Shireen Farr, Cumberland Valley Visitors Bureau
10:00 Industry Show and Tell
10:15 Our Small Diverse Farm and Thinking Outside the Box - Paul Stahlman, Paul's Pumpkin Patch

Continued on page 15

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2012 Mid Atlantic Fruit and Vegetable Convention Educational Programs  Continued from Page 14

11:00  Our Seasonal Suburban Market - Bruce Hellerick, Hellerick’s Family Farm
12:00  Luncheon Buffet - Great Lobby and Confection Lobby (cash)

CUT FLOWERS - Empire Room AB
9:00  New Varieties of Cut Flowers, Alicain Carlson, North Carolina State Univ.
9:30  Insect Management in Cut Flowers, Thomas Ford, Penn State Extension
10:00  Industry Show and Tell
10:15  Growing Cut Perennials in High Tunnels, Keith Cramer, Cramer’s Posie Patch
11:00  Post Harvest Handling of Cut Flowers, Alicain Carlson, North Carolina State Univ.
11:30  Great Woody Plants for Cut Flowers, Thomas Ford, Penn State Extension
12:00  Luncheon Buffet - Great Lobby and Confection Lobby (cash)

SMALL FRUIT - Empire Room CD
9:00  Experiences and Ideas in Marketing Berry Crops (grower panel) - Fred Koenigshof, K & K Farms; Bruce Hellerick, Hellerick’s Family Farm, Norm Schultz, Linvilla Orchards
9:30  Experiences and Ideas in Marketing Berry Crops (cont.) - Fred Koenigshof, K & K Farms; Bruce Hellerick, Hellerick’s Family Farm, Norm Schultz, Linvilla Orchards
10:00  Industry Show and Tell
11:00  Food-Borne Diseases and Berries: How to Stay Out of the News - Dr. Luke Laborde, Penn State Univ.
11:30  Profitable Strawberries after the Competition is Finished - Norm Schultz, Linvilla Orchards
12:00  Luncheon Buffet - Great Lobby and Confection Lobby (cash)

GENERAL VEGETABLES - Wild Rose Room
9:00  Food Safety Update - Dr. Luke LaBorde, Penn State Univ.
9:30  Soil Compaction - Dr. Sperd Duiker, Penn State Univ.
10:00  Industry Show and Tell
10:15  Food Safety Considerations When Using Manure and Composts - Wes Kline, Rutgers Extension
11:00  Grafted Watermelon and Tomato Production - Dr. Sanju Gu, Lincoln Univ., Missouri
11:30  Attempts at Strawberry Production in Greenhouses - Dr. Carl Sams, Univ. of Tennessee
12:00  Luncheon Buffet - Great Lobby and Confection Lobby (cash)

POST HARVEST - Magnolia Room CD
9:00  Post Harvest Handling of Sweet Corn - Brian Campbell, Brian Campbell Farms
9:30  Containers for Vegetables - Eric Menard, Agrinovation
10:00  Industry Show and Tell
10:15  Refrigeration: Cool Bot - John Wilhoit, Univ. of Tennessee
11:00  Post Harvest Food Safety - Lee Stivers, Penn State Extension
11:30  The Best Looking Vegetables - Arthur King, Harvest Valley Farms
12:00  Luncheon Buffet - Great Lobby and Confection Lobby (cash)

THURSDAY AFTERNOON, FEBRUARY 2, 2012

TREE FRUIT - Nigerian Room
1:30  "Core" Presentation
2:00  New Apple Rootstocks Available Now and On the Horizon - Dr. Robert Crassweller, Penn State Univ.
2:30  Rootstocks for Cherries: Not Your Father’s Oldsmobile - Dr. Gregory Lang, Michigan State Univ.
3:00  Perishable Agricultural Commodities Act - Travis Hubbs, USDA
3:30  To Be Announced
4:00  Adjourn

HIGH TUNNELS - Crystal Room
1:30  High Tunnel Bramble Production and Vegetable - Erik Gundacker, Grower Minnesota
2:00  New Ideas for High Tunnels - Todd Alexander, Tunnel Vision Hoops LLC
2:30  How High Tunnels are Used in My Farming Operation - Ed Person, Ledgewood Greenhouses
3:15  Capturing Rainfall Off a High Tunnel for Irrigation - Dr. Lewis Jett, West Virginia Univ.

3:45  High Tunnels in the Urban Environment of Philadelphia - Dr. William Lamont, Penn State Univ.
4:15  Adjourn

MARKETING THROUGH COMMUNICATION - Magnolia Room AB
1:30  Using the Web/Social Network Media for Marketing - Jenny Carleo, Rutgers Extension
2:00  Crisis Management: Dealing with the Media for Unexpected Situations - To Be Announced
2:30  Communicating the Benefits of Your Products - Luanne Huges, Rutgers Extension
3:15  Communicating Your Farm’s Vision - Stephen Komar, Rutgers Extension
3:45  How We Communicate the Benefits of Our Farm Customers and Community - Tracy Duffield, Duffield’s Family Farm
4:15  Adjourn

COVER CROPS - Magnolia Room CD
1:30  Evaluation of Cover Crops for Improving Root Health and Yield of Vegetables - Dr. Beth Gugino, Penn State Univ.
2:00  Making Winter Cover Crops Work for Early Spring Vegetable Production: Reducing Tillage, Enhancing Soil Health and Increasing Profitability - Natalie Lounsbury, Univ. of Maryland
2:30  The Link Between Cover Crops and Weed Suppression - Dr. William Curran, Penn State Univ.
3:15  Use of Roll Down Cover Crops in Vegetable Production Systems - Alison Grantham - Penn State Univ.
3:45  Roll Down Cover Crops Grower Panel Discussion - To Be Announced
4:15  Adjourn

GREENHOUSE NEW TECHNOLOGIES - Empire Room AB
1:30  Improving Sustainability: Using and Understanding Biocontainers, Matt Taylor, Horticulture Researcher, Longwood Gardens
2:00  Lighting Your Crops with LED's, Johann Buck, HortAmerica’s LLC
3:15  Virtual Grower Software Part 1, Jonathan Frantz, United States Dept. of Agriculture
4:15  Adjourn

SMALL FRUIT - Empire Room CD
1:30  Highbush Blueberry Cultural Issues and Solutions - Dr. David Handley, Univ. of Maine
2:00  What’s New in Blueberry Varieties? - Dr. Mark Enlenfeld, United States Dept. of Agriculture
2:30  Spotted Wing Drosophila: The Other New Fruit Pest - Dr. David Biddinger and Kathleen Demchak, Penn State Univ.
3:15  Calibration of Smaller Equipment - Lee Stivers, Penn State Univ.
3:45  Adjourn

SPECIALTY CROPS - Wild Rose Room
1:30  Ethnic Vegetables - Dr. Sanju Gu, Lincoln University, Missouri
2:00  Tomatillo and Cilantro Production - David Myers, Univ. of Maryland Extension
2:30  Garlic Production - Tony Hatfield-Nicholson, Juniata Stinking Rose
3:15  Rhubarb Production - Arthur King, Harvest Valley Farms
3:45  Baby Vegetables - Benjamin Beale, Univ. of Maryland Extension
4:15  Adjourn

* Indicates topic expected to qualify for category pesticide credit  ** Indicates topic expected to qualify for core pesticide credit  *** Indicates topic is expected to qualify for fumigation pesticide credit

HORTICULTURE TECHNOLOGY NEWSLETTER
Please list name (s) registering:

(Entries who are renewing MSHS membership or would like to become a member of the Maryland State Horticultural Society)

☐ ____________________________  ☐ ____________________________
☐ ____________________________  ☐ ____________________________
☐ ____________________________  ☐ ____________________________

Farm & Business Name:

Address: ____________________________  Email Address: ____________________________

City: __________________ State: ______ Zip Code: __________ Phone: ______________________

Please check the following:
☐ Add my name to the e-mail subscriber list (receive program information from MSHS & UME)
☐ I do not have e-mail and wish to receive program information via U.S. Mail

**Mid-Atlantic Fruit & Vegetable Registration Fees**

**Member’s Registration**

Advance Registration ..................              @ $60.00 =  __________
(Must be postmarked by January 20, 2012)

Walk In Registration (after Jan. 20, 2012)  @ $75.00 = __________

**Non-Member’s Registration (join MSHS save money and enjoy member benefits)**

One Day (at door) .......................              @ $100.00 = __________

Three Day (at door) ....................              @ $140.00 = __________

**2012 Fruit & Vegetable Growers Dinner**

Grower Reception - Door Prizes - Awards

Tues., Jan. 31, 2012 - Nigerian Room  @ $35.00 = __________

**Maryland State Horticultural Society Membership Dues**

2012 MSHS Dues  .........................              @ $30.00 = __________

TOTAL AMOUNT ENCLOSED ................................. $ __________

Please make your check payable to: MARYLAND STATE HORTICULTURAL SOCIETY

You may use one check for convention registration and your 2012 membership dues.

Mail check (payable MSHS) and registration form by JANUARY 20, 2012 to:

University of Maryland Extension — WMREC
Attention: Susan Barnes
18330 Keedysville Road
Keedysville, MD 21756

For more Information please call
Robert Black at 301-271-7491 or email HBGala@aol.com

Thank you for registering in advance!

☐ Your registration includes a FREE 1 yr. subscription to Country Folks Grower. Check box if you would like to receive publication.
Special Mid-Atlantic Fruit and Vegetable Convention Pre-Conference Workshop

Mobile Marketing Opportunities & Managing Food Business Risks

Penn State Extension, the Young Grower Alliance, and SHAP are jointly sponsoring two interactive educational sessions:
Monday, January 30, 10:00 a.m. - 4:30 p.m.
Hershey Lodge and Convention Center
Hershey, PA 17033

Morning Session: Using Social Media & Mobile Applications in Marketing
More and more consumers are using social media, such as Facebook and Twitter, and mobile phone applications, such as foursquare or Google Places, to learn about businesses and products. Penn State’s Sarah Cornelisse and Jeffrey Hyde will lead a discussion of some of these tools in the context of a strategic marketing plan. Participants will leave with a strong sense of how the tools can be used collectively to promote the business to certain target audiences.

Afternoon Session: Managing Food Business Risks
In the past decade, interest in locally produced foods has grown substantially, in a great part due to consumer desire to know how and where their food is grown. Capitalizing on this interest in buying fresh, local foods, agricultural producers who direct market and add value have realized a larger portion of each food dollar remaining in the farm/orchard – but with increased receipts have come larger business risks, due to factors unique to businesses whose products are ingested. This Penn State Extension session led by Lynn Kime and Winifred McGee introduces five proactive strategies and tools that can be adopted by producers to lessen their liability while remaining in compliance with government regulations and consumer expectations for safe, quality food products. By attending this session, participants will be able to choose proactive strategies and take the first steps in engaging a customized risk management plan.

Registration Form for MAFVC Pre-Conference Workshop

Registration Deadline — January 18, 2012; Space is Limited!

Name________________________________ Business:______________________________
List additional persons attending: _________________________________________________
Address_____________________________________________________________________
City________________________________ State________________ Zip____________________
Daytime Phone __________________________ Evening Phone _________________________
E-mail_____________________________________________________________________

Registration Fee: $60 (Includes lunch)
Total Enclosed: $60 x ________ = $_________

Please make checks payable to: State Horticultural Association of Pennsylvania

Please return registration form and payment to:
Maureen Irvin, Executive Secretary
State Horticultural Association of Pennsylvania
480 Mountain Road
Orrtanna, PA 17353
The Horticulture Technology Newsletter is published yearly by the Maryland State Horticultural Society in cooperation with the University of Maryland Extension.

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The sponsoring agencies’ programs are open to all citizens without regard to race, color, gender, disability, religion, age, sexual orientation, marital or parental status, or national origin.

UME AND MSHS INFORMATION BEING SENT ELECTRONICALLY!

Due to the rising costs for printing and mailing, we are sending the Horticultural Technology Newsletter and other program information from the Maryland State Horticultural Society and the University of Maryland Extension via email.

Of course, if you do not have online access, we will be happy to send you a hard copy.

A check box is provided on the Mid-Atlantic Fruit & Vegetable Convention Registration form to indicate your preference (email or snail mail).

If you are not attending the convention, we ask that you fill out your membership information, mailing preference, and send it back to:

Robert E. Black
15308 Kelbaugh Road
Thurmont, MD 21788

Please note, we are obligated to update our mailing list periodically. Please fill out and return the form to ensure you do not miss important information from the Maryland State Horticultural Society and the University of Maryland Extension.

If you have any questions about the change, please contact Robert E. Black at HBGala@aol.com (301-271-7491) or Susan Barnes at sbarnes6@umd.edu (301-432-2767 x301)