THE NORTHEASTERN PLANT, PEST, AND SOILS CONFERENCE

2019

A joint meeting of:

Hunt Valley, MD; January 8-10, 2018
The Delta Hotel Baltimore
Hunt Valley, MD
Northeastern Weed Science Society (Host Society)

Northeastern Regional Branch of American Society of Agronomy, Crop Science Society of America, & Soil Science Society of America

American Society of Horticultural Science - Northeast Division

Sustaining Members

The societies comprising the NEPPSC would like to thank the individuals and organizations that help sustain our operations.

Sustaining Members for each society are displayed at the registration desk.

If you would like more information about a sustaining member, click on any of the logos on the “Sponsors” page at:

https://www.newss.org/about/sustaining-members/
Meeting Location

The Delta Hotel Baltimore
245 Shawan Rd.
Hunt Valley, MD 21031

https://www.marriott.com/hotels/travel/bwidh-delta-hotels-baltimore-hunt-valley/?app=resvlink

Directions and Transportation

From the South: Take I-95 N, merge onto I-695 W via exit 49B toward Towson. Stay on I-695W for 17 miles then merge onto I-83N via exit 24, stay on I-83 for 5.5 miles then take exit 20A for Shawan Rd. East, Stay in the far right lane while exiting. The hotel entrance will be immediately on the right coming off the exit ramp.

From the west, follow I-70 East to I-695 North and follow directions above.

From the North take I-95 South to exit 64, and Merge onto I-695 W toward Towson. Stay on I-695W for 10 miles then merge onto I-83N via exit 24. Stay on I-83 for 5.5 miles then take exit 20A for Shawan Rd. East, Stay in the far right lane while exiting. The hotel entrance will be immediately on the right coming off the exit ramp.

From the North taking I-83, follow I-83 south to exit 20A for Shawan Rd. East, Stay in the far right lane while exiting. The hotel entrance will be immediately on the right coming off the exit ramp

Parking: Complimentary on-site parking

Subway Station, Hunt Valley Light Rail only 0.3 miles N from Hotel

Complimentary shuttle service, within a 3-mile radius available Monday to Friday, 6:30am to 9pm. Call: 410-785-7000

Hotel Floor Plan
Hotel Floor Plan
SOCIETY PRESIDENTS

Carroll Moseley, NEWSS President
carroll.moseley@syngenta.com

Karen Gartley, NE-ASA/CSSA/SSSA President
kgartley@udel.edu

Matt Taylor, NE-ASHS President
mtaylor@longwoodgardens.org

NEPPSC PROGRAM COMMITTEE

Daniel Kunkel, Program Chair & NEWSS Rep.
daniel.kunkel@Rrutgers.edu

kgartley@udel.edu

Matt Taylor, NE-ASHS President
mtaylor@longwoodgardens.org

COMMITTEE MEETINGS

For a schedule of individual society committee meetings, please visit http://neppsc.org/
CONDENSED PROGRAM

MONDAY, JANUARY 7, 2019

3:00 p.m. - 4:30 p.m. NEWSS Board Meeting (Salon A)
4:30 p.m. - 5:00 p.m. NEPPSC Program Committee Meeting (Salon A)
5:00 p.m. - 5:30 p.m. NEPPSC Program Committee & Session Chairs Meeting (Salon A)
8:00 p.m. - 10:00 p.m. College Football Championship Game Social (Garden Room)

TUESDAY, JANUARY 8, 2019

10:00 a.m. - 12:00 p.m. Committee Meetings: Awards/Nominations (Salon CD), Weed Contest/Endowment (Salon EF)
10:30 a.m. - 4:00 p.m. Registration (Hunt Valley Registration)
1:00 p.m. - 2:00 p.m. Industry and Extension Roundtable Discussions
Agronomic Crops & Soils, led by John Wallace and Dwight Lingenfelter, Penn State. (Salon CD)
Fruit, Veg., and Tree Crops, led by Wes Kline, Rutgers (Salon EF)
Turf & Ornamental, led by Shawn Askew, VT (Salon A)
2:00 p.m. - 3:00 p.m. Glyphosate: Get the Facts (Hunt Ballroom)
3:00 p.m. - 3:15 p.m. Break
3:15 p.m. - 5:15 p.m. **NEPPSC Opening Ceremony** (Hunt Ballroom)

3:15 p.m. Welcome Carroll Moseley, NEWSS; Karen Schilke-Gartley, NE-Tri-Societies; Matt Taylor, NE-ASHS

4:00 p.m. - 5:00 p.m. **Featured Speaker:** Dr. Barbara Glenn, CEO National Association of State Departments of Ag.

5:00 p.m. - 5:15 pm Announcements/Closed out Opening Ceremony

5:30 p.m. - 7:30 p.m. **NEPPSC Social Mixer & Grad Student Quiz Bowl** (Valley Ballroom)

8:00 p.m. - 10:00 p.m. **Poster Setup (Valley Ballroom)**

8:00 p.m. - 10:00 p.m. **Commercial Display Setup (Valley Ballroom)**

**WEDNESDAY, JANUARY 9, 2019**

7:00 a.m. - 8:30 a.m. **NEPPSC Posters – authors present** (including student posters) (Valley Ballroom)

7:30 a.m. - 4:00 p.m. **Registration (Hunt Valley Registration)**

8:45 a.m. - 10:00 am. **Student Oral Presentations:** (Salon CD)

10:00 a.m. - 10:15 a.m. **Break**

10:15 a.m. - 11:45 am. **Student Oral Presentations:** (Salon CD)

11:45 a.m. - 1:15 p.m. **Lunch Break**

11:50 a.m. - 1:00 p.m. **Grad Student Luncheon** (Garden room)

1:15 p.m. -2:45 p.m. **Student Oral Presentations:**
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:45 p.m. - 3:00 p.m.</td>
<td>Break</td>
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<tr>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Symposium: The Art and Science of Science Communication (Hunt Ballroom)</td>
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<tr>
<td>5:15 p.m. - 6:30 p.m.</td>
<td>NEWSS Awards (Hunt Ballroom)</td>
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<td>5:15 p.m. - 6:30 p.m.</td>
<td>NE-ASHS Business Meeting (Salon EF)</td>
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<tr>
<td>9:00 p.m. - 11:00 p.m.</td>
<td>Industry Dessert Social and Special Interaction Activity Sponsored by BASF, Bayer, and Syngenta (Valley Ballroom)</td>
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**THURSDAY, JANUARY 10, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m. - 8:30 a.m.</td>
<td>NEWSS Past Presidents' Breakfast (Garden Room)</td>
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<tr>
<td>7:30 a.m. - 3:00 p.m.</td>
<td>Registration (Hunt Valley Registration)</td>
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<tr>
<td>8:15 a.m. - 10:00 a.m.</td>
<td>Fruit, Veg., &amp; Tree Crops (Salon CD)</td>
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<td>8:30 a.m. - 10:00 a.m.</td>
<td>Agronomic Crops (Salon A)</td>
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<tr>
<td>8:45 a.m. - 10:00 a.m.</td>
<td>Turf and Ornamentals (Salon EF)</td>
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<tr>
<td>10:00 a.m. - 10:15 a.m.</td>
<td>Break</td>
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<tr>
<td>10:15 a.m. - 12:00 p.m.</td>
<td>Fruit, Veg., &amp; Tree Crops (Salon CD)</td>
</tr>
<tr>
<td>10:15 a.m. - 12:00 p.m.</td>
<td>Agronomic Crops (Salon A)</td>
</tr>
<tr>
<td>10:15 a.m. - 11:45 a.m.</td>
<td>Turf and Ornamentals (Salon EF)</td>
</tr>
<tr>
<td>12:00 p.m. - 1:15 p.m.</td>
<td>Lunch Break</td>
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</table>
1:15 p.m. - 2:45 p.m. Turf and Ornaments (Salon EF)
1:15 p.m. - 2:45 p.m. Veg. Mgt. and Restoration (Salon CD)
2:45 p.m. - 3:00 p.m. Break
3:00 p.m. - 5:00 p.m. SYMPOSIUM: The Benefits and Challenges of Participatory Research (Salon EF)
3:00 p.m.-5:00 p.m. Workshop: Weed Management in Pollinator Plantings (Salon CD)
3:00 p.m. - 5:00 p.m. Tour:
5:00 p.m. - 6:30 p.m. NEWSS Business Meeting (Hunt Ballroom)
5:00 p.m. - 6:30 p.m. NE-ASA/CSSA/SSSA Business Meeting (Salon E/F)
3:15 p.m. - 6:30 p.m. Poster & Commercial Display Removal (Valley Ballroom)
6:30 p.m. - 7:00 p.m. NEPPSC Organizing Committee (Salon EF)

FRIDAY, JANUARY 11, 2019
8:30 a.m. - 10:30 a.m. NEWSS Board Meeting (Tack Room)
!! IMPORTANT !!

Deadline for Uploading Presentations

Sunday, January 6, 2019

All presentations* must be uploaded before this deadline to

http://www.wssaabstracts.com

Questions regarding presentation upload or special formatting should be directed to the respective section moderator.

*Note to students: A 10-point penalty will be assessed in contest scoring for late submissions.
PROGRAM

WEDNESDAY MORNING  JANUARY 9

Student Contest Poster (Authors Present)

LOCATION:     Valley Ballroom
TIME:         7:00 AM - 8:30 AM
CHAIR:        Katelyn Venner
              BASF
              Raleigh, NC
MODERATOR:    Katelyn Venner
              BASF
              Raleigh, NC

*PRESENTER † STUDENT POSTER CONTEST

†Evaluation of Weed Size and Water Carrier pH on Suppress Herbicide Efficacy. D.G. Lewis*, M.A. Cutulle, T. Campbell, and D. Jeffris, Clemson, Clemson, SC (1)

†Utilizing UAVs and Spectral Imaging to Distinguish Select Weed Species in a Field Environment. E.A. Jones*, J.T. Sanders, W.J. Everman, D.J. Contreras, and M.A. Granadino, North Carolina State University, Raleigh, NC (2)

†Bulbous Bluegrass: A Weed of Ornamental Turf. J. Brewer* and S.D. Askew, Virginia Tech, Blacksburg, VA (3)

†Dicamba Injury Varies with Soybean Variety and Maturity Group. M.A. Granadino*, W.J. Everman, J.T. Sanders, D.J. Contreras, and E.A. Jones, North Carolina State University, Raleigh, NC (4)

†Critical Period of Weed Control for Ryegrass in Wheat. D.J. Contreras* and W.J. Everman, North Carolina State University, Raleigh, NC (5)

†Modeling Palmer Amaranth (Amaranthus palmeri) Emergence Using Chronological, Thermal, and

†Confirming Glyphosate Resistance in Horseweed Through Seed Germination and Whole Plant Assay Evaluation. C.S. Jennings* and A. Witcher, Tennessee State University, McMinnville, TN (7)


†Evaluating Weed Control and Crop Response to Preemergence Herbicide Options in Tigernut (Cyperus esculentus). L. Black*, B.L. Carr, A. Ayeni, and T.E. Besançon, Rutgers University, New Brunswick, NJ (9)

†Common Ragweed (Ambrosia artemisiifolia) Survival and Fecundity After Various Herbicide Treatments and Application Timings. E.B. Scruggs* and M.L. Flessner, Virginia Tech, Blacksburg, VA (10)


†Establishing a Core Collection of Corylus americana from Wild Germplasm for Hazelnut Breeding and Pollenizer Efforts. A. Mayberry*, J. Capik, and T.J. Molnar, Rutgers University, New Brunswick, NJ (12)

†Tarping Duration and Tillage Treatment Effects on Weed Species Composition and Biomass. C. Verrill*, M.S. Kifer, N. Rowley, and M.G. Hutton, University of Maine, Orono, ME (13)

†Impact of Tarping Duration and Tillage Intensity on Beet Stand and Yield. M.S. Kifer*, C. Verrill, N. Rowley, and M.G. Hutton, Bowdoin College, Brunswick, ME (14)

†Delineating Precision Agriculture Management Zones Using Satellite imagery, Web Soil Survey, and Machine Learning. C. Ferhatoglu*, Raleigh, NC (15)
WEDNESDAY MORNING    JANUARY 9

Research Poster (Authors Present)
LOCATION:    Valley Ballroom
TIME:    7:00 AM - 8:30 AM
CHAIR:    Katelyn Venner
BASF
Raleigh, NC
MODERATOR:    Katelyn Venner
BASF
Raleigh, NC

*PRESENTER


Soil Health After 25 Years of Vegetable, Cover Crop, and Leaf Mulching Rotations. M.L. Infante-Casella*, Rutgers NJAES Cooperative Extension, Clarksboro, NJ (18)

Exploring the Link Between the Soil Microbial Community and Differential Weed Species Response to High Carbon Soil Amendments. M.A. Gannett*, A. DiTommaso, and J. Kao-Kniffin, Cornell University, Ithaca, NY (19)


High Tunnel Colored Bell Pepper Variety Evaluations in SE Pennsylvania. T. Elkner*, Penn State Extension, Lancaster, PA (21)

Use of Drone Imaging for Assessing Weed Control and Disease Pressure in Highbush Blueberry. M.G. Mars, D.C. Nuhn, B.L. Carr*, T.E. Besançon, and P.V. Oudemans, Rutgers University, Chatsworth, NJ (23)

Cranberry Response to Rate and Application Timing with Flumioxazin and Sulfentrazone. B.L. Carr* and T.E. Besançon, Rutgers University, CHATSWORTH, NJ (24)

Control of Bittercress and Oxalis with Preemergence Herbicides Over Time. J. Altland*, USDA-ARS, Wooster, OH (25)

Preemergence Herbicide Safety to Sedum rupestre and Sedum acre. C. Harlow* and J. Neal, North Carolina State University, Raleigh, NC (26)


Japanese stiltgrass (Microstegium vimineum) Management in a Pasture: Using a GDD Model to Apply Pendimethalin. R.S. Chandran*, D. Shipman, and B.M. Loyd, West Virginia University, Morgantown, WV (29)

Role of N-Fertilization and Herbicides in Integrated Management of Mugwort (Artemisia vulgaris L.) in a Cool-Season Grass Pasture. J.S. Aulakh*, The Connecticut Agricultural Experiment Station, Windsor, CT (30)

WEDNESDAY MORNING JANUARY 9

Student Contest Oral Presentations
LOCATION: Salon CD  
TIME: 8:45 AM - 11:45 AM  
CHAIR: Shawn Askew  
Virginia Tech  
Blacksburg, VA  
MODERATOR: Shawn Askew  
Virginia Tech  
Blacksburg, VA

*SPEAKER † STUDENT CONTEST

8:45 †Understanding the Interaction of Crop Management System and Crop Identity on Biologically-mediated Plant-soil Feedbacks. U.D. Menalled*, T. Seipel, and F.D. Menalled, Cornell University, Ithaca, NY (1)

9:00 †Interaction of Organic Herbicides and Cover Crops on Weed Suppression and Insect Dynamics in No Till Systems. D.G. Lewis*, M.A. Cutulle, R. Schmidt-Jeffris, C. Blubaugh, T. Campbell, and J. Coffey, Clemson University, Clemson, SC (2)


9:45 †Annual Bluegrass Weevil (Listronotus maculicollis) and Paclobutrazol for Annual Bluegrass (Poa annua) Control in Fairways. K. Diehl*, M. Elmore, A. Koppenhöfer, J. Murphy, D.P. Tuck, and O. Kostromytska, Rutgers University, New Brunswick, NJ (5)

10:00 Break

10:15 †Effect of Planting Dates on Soybean Response to Dicamba. M.A. Granadino*, W.J. Everman, J.T. Sanders, D.J. Contreras,
10:30  †Triclopyr Amine Basal Bark Treatments Can Replace Oil-based Stem Treatments in Aquatic Settings. E. Weaver* and A. Gover, Penn State University, University Park, PA (7)

10:45  †Critical Period of Weed Control for Grass Species in Grain Sorghum. D.J. Contreras* and W.J. Everman, North Carolina State University, Raleigh, NC (8)

11:00  †Determining Sorgoleone Efficacy on Select Wheat (Triticum aestivum ssp.) Cultivars and Weed Species. E.A. Jones*, M. Bansel, W.J. Everman, J.T. Sanders, D.J. Contreras, and M.A. Granadino, North Carolina State University, Raleigh, NC (9)

11:15  †Weed Control Response and Crop Tolerance to Fluridone in Pumpkin. F. DAmico*, B.L. Carr, and T.E. Besançon, University of Delaware, Georgetown, DE (10)


**WEDNESDAY AFTERNOON JANUARY 9**

**Student Contest Oral Presentations**

LOCATION: Salon CD
TIME: 1:15 AM - 2:45 AM
CHAIR: Shawn Askew Virginia Tech
MODERATOR: Shawn Askew
Virginia Tech
Blacksburg, VA

*SPEAKER † STUDENT CONTEST


1:30 †Improving the Quality of the Pineapple (Ananas comosus var. comosus) Reference Genome. A.G. Yow*, North Carolina State University, Raleigh, NC (13)


2:00 †Effects of Harvest Date on Chemical Quality Metrics of Hops. M. Black*, Rutgers University, New Brunswick, NJ (15)

2:15 †Using Stable Water Isotopes to Characterize Pathways of Subsurface P Loss in a Ditch-drained Field. L. Mosesso*, A. Shober, A. Collick, T. Buda, and C. Kennedy, University of Delaware, Newark, DE (16)


2:45 Break

WEDNESDAY AFTERNOON JANUARY 9
Symposium: The Art and Science of Science Communication.

LOCATION: Hunt Ballroom
TIME: 3:00 PM - 5:00 PM
MODERATOR: Art Gover

3:00 Introductory Remarks, A. Gover

The symposium is in two parts, an Oxford-style debate followed by a panel session analyzing the rhetoric and content of the debate. The debate consists of a pre-debate audience yes/no vote on the resolution; opening statements, open questions from the audience, and closing statement from the debate panels; concluded with a post-debate audience vote. The side that changes their vote most positively wins; the following panel will analyze the rhetorical approaches and execution of the debaters.

3:05 Oxford-style Debate on the resolution:
“Weed Seed Bank Management is More Effective Than Critical Period Management in Non-herbicide Production Systems”

Debate Panelists For:
Eric Jones, North Carolina State
Eugene Law, Cornell

Debate Panelists Against:
John Brewer, Virginia Tech
Uriel Menalled, Cornell

3:55 Break

4:10 Panel – How Well was the Science Communicated?
Margaret Michels
Assistant Head and Teaching Professor
Department of Communication Arts and Sciences, Penn State University

Dustin Greenwalt
Assistant Teaching Professor
Department of Communications Arts and Sciences, Penn State University
Fruit, Vegetable and Herb Crops

LOCATION: Salon CD
TIME: 8:15 AM - 12:00 PM
CHAIR: Ramon Arancibia
Virginia Tech
Painter, VA
MODERATOR: Ramon Arancibia
Virginia Tech
Painter, VA

*SPEAKER


8:45 Use of Particle Film Technologies for Stress Management in Vegetable Crops. G.C. Johnson*, University of Delaware, Georgetown, DE (20)

9:00 Assessing Cover Crop Impact on Weed Emergence and Vegetative Growth in Cabbage Production. B.L. Carr*, T.E. Besançon, and J. Heckman, Rutgers University, Chatsworth, NJ (21)

9:15 Overlapping S-metolachlor Treatments in Lima Bean. K.M. Vollmer*, M.J. VanGessel, Q.R. Johnson, and B.A. Scott, University of Delaware, Georgetown, DE (22)
9:30 Snap Bean Variety Trials to Assess Heat Tolerance. E.G. Ernest*, University of Delaware, Georgetown, DE (23)


10:00 Break


10:45 Moss Impacts and Control Efforts in Cranberry. K.M. Ghantous* and H.A. Sandler, UMass Cranberry Station, East Wareham, MA (27)

11:00 How Trends and Events Shape the Acquisition of New Management Tools for Cranberries. H.A. Sandler* and K.M. Ghantous, UMass Cranberry Station, East Wareham, MA (28)

11:15 Effect of Environmental Factors on Vegetative Growth and Rhizome Production of Carolina Redroot (Lachnanthes caroliniana). B.L. Carr and T.E. Besançon*, Rutgers University, Chatsworth, NJ (29)

11:30 Implementing the On Farm Readiness Review in New Jersey: What Do Growers Need to Become Compliant with the FSMA Produce Safety Rule. M.V. Melendez*, W.L. Kline, and J. Matthews, Rutgers Cooperative Extension, Trenton, NJ (30)

**Turf & Ornamentals**

**LOCATION:** Salon EF  
**TIME:** 8:45 AM - 11:45 AM  
**CHAIR:** Matthew Elmore  
Rutgers University  
New Brunswick, NJ  
**CO-CHAIR:** Jatinder Aulakh  
The Connecticut Agricultural Experiment Station  
Windsor, CT  
**MODERATOR:** Matthew Elmore  
Rutgers University  
New Brunswick, NJ

*SPEAKER*

8:45  **Sod Removal, Spot Treatment, and Selective Herbicides for Roughstalk Bluegrass Control in Cool-season Turf.**  
J. Brewer* and S.D. Askew, Virginia Tech, Blacksburg, VA (32)

9:00  **Green Kyllinga (Kyllinga brevifolia) Control with Post-emergent Herbicide Treatments in Cool Season Turf.**  
J.M. Craft*, S.D. Askew, and J. Brewer, Virginia Tech, Blacksburg, VA (33)

9:15  **False-green Kyllinga (Kyllinga gracillima) Control with Autumn Herbicide Applications.**  
M.T. Elmore*, D.P. Tuck, and K. Diehl, Rutgers University, New Brunswick, NJ (34)

9:30  **Weed Control Options During Four Methods of Zoysiagrass Establishment.**  
S. Askew* and M. Goatley, Virginia Tech, Blacksburg, VA (35)

Break

Dimethenamid Leaching in Pine Bark versus Field Soil. J. Derr* and L. Robertson, Virginia Tech, Virginia Beach, VA (37)

Postemergence Options for Managing Horsetail (*Equisetum* spp.). A. Senesac* and D. Barcel, Cornell Cooperative Extension, Riverhead, NY (38)

Evaluation of Liquid Over-the-Top Herbicide Application for Field Grown Herbaceous Perennial Soon After Planting. H.M. Mathers*, Mathers Environmental Science Services, LLC, Gahanna, OH (39)

Evaluation of Current Herbicides for Phytotoxicity and Efficacy on Five Herbaceous Perennial Species in Containers. H.M. Mathers*, Mathers Environmental Science Services, LLC, Gahanna, OH (40)

Controlling Glyphosate-tolerant *Conyza* in NC Fraser Fir Production. J. Neal*, C. Harlow, and J. Owen, North Carolina State University, Raleigh, NC (41)

Short-term Effects of Basal Stem Glyphosate Applications to Nursery Trees. A. Witcher*, Tennessee State University, McMinnville, TN (42)
Agronomic Crops

LOCATION: Salon A
TIME: 8:30 AM - 12:00 PM
CHAIR: Larissa Smith
Syngenta
King Ferry, NY
MODERATOR: Larissa Smith
Syngenta
King Ferry, NY

*SPEAKER


9:00 Effect of Cover Crops on Potato Yield and Quality. J.M. Jemison*, University of Maine, Orono, ME (45)


9:30 Palmer Amaranth Control in Alfalfa/Grass Mix: Any Herbicide Options? D. Lingenfelter*, Penn State, University Park, PA (47)


10:00 Break
10:15  Palmer Amaranth Control in Grain Sorghum Or Soybeans: Does It Matter?  
M.J. VanGessel*, Q.R. Johnson, and B.A. Scott, University of Delaware, Georgetown, DE (49)

10:30  Evaluation of Population and Growth Rate of Palmer Amaranth following Various Pre-emergent Residual Herbicides in Soybeans.  
B. Beale*, University of Maryland, Leonardtown, MD (50)

10:45  Tavium™ Plus VaporGrip™ Technology - A Tool for Weed Management in Conventional and No-Till Dicamba Tolerant Soybeans.  
L. Smith*, A. Franssen, B. Miller, T. Beckett, and D. Porter, Syngenta, King Ferry, NY (51)

11:00  Horseweed (Conyza canadensis) Control with Pre-Plant Herbicides after Mechanical Injury from Small Grain Harvest.  
M.L. Flessner* and K.B. Pittman, Virginia Tech, Blacksburg, VA (52)

11:15  Gramoxone Magnum: A New Option for Burndown and Residual Weed Control.  
E. Hitchner*, D. Bowers, R. Lins, A. Moses, and M. Saini, Syngenta, 08098, NJ (53)

11:30  Harness® MAX Herbicide: A Flexible Product for Weed Management in Corn.  
R.A. Recker*, D.J. Mayonado, R.F. Montgomery, C.M. Mayo, and G.G. Camargo, Bayer Crop Sciences, St. Louis, MO (54)
Turf & Ornamentals

LOCATION: Salon EF
TIME: 1:15 AM - 2:45 AM
CHAIR: Matthew Elmore
Rutgers University
New Brunswick, NJ
CO-CHAIR: Jatinder Aulakh
The Connecticut Agricultural Experiment Station
Windsor, CT
MODERATOR: Matthew Elmore
Rutgers University
New Brunswick, NJ

*SPEAKER

1:15  Banded and In-Furrow Activated Charcoal Improves Wildflower Tolerance to Preemergent Herbicides. S. Askew* and M. Shock, Virginia Tech, Blacksburg, VA (55)

1:30  Update on 2018 Weed Science Research in the IR-4 Environmental Horticulture Program. C. Palmer* and E. Vea, IR-4 Project, Princeton, NJ (56)

1:45  Living Acres: A Biodiversity Research Initiative That is Helping Landowners Create a Space for Monarch Butterflies. K.E. Kalmowitz* and H. Coble, BASF Corp, Raleigh, NC (57)

2:00  Growth and Quality of Selected Ornamentals Irrigated with Graywater Made with Conventional and Alternative Laundry Products. R.I. Cabrera*, Rutgers University, Bridgeton, NJ (58)

2:15  Utilizing Sticky Soil to Establish Moss on Rock Surfaces. M. Taylor*, A. Clayton, and R. Date, Longwood Gardens, Kennett square, PA (59)

2:30  Effects of Roadway Contaminants in Green Infrastructure Plantings Along Philadelphia's I-95 Corridor. S.W. Eisenman*, J.S. Caplan, A. Behbahani, A.
Vegetation Management and Restoration

**LOCATION:** Salon CD

**TIME:** 1:15 AM - 5:00 AM

**CHAIR:** Lane Heimer  
Maryland Department of Agriculture  
Annapolis, MD

**CO-CHAIR:** Arthur Gover  
Penn State University  
University Park, PA

**MODERATOR:** Lane Heimer  
Maryland Department of Agriculture  
Annapolis, MD

**SPEAKER**

1:15  **Invasive Vascular Plant Species at J.N. Ding Darling National Wildlife Refuge, Sanibel Island, Florida.**  
R. Stalter* and E. Lamont, St Johns University, Queens, NY (61)

1:30  **MDOT SHA Landscape Management Guide - A Performance Based Guide for Managing Green Assets Along Maryland Highways.**  
J.K. Krouse*, MDOT - SHA, Baltimore, MD (62)

1:45  **Cooperative Weed Control Programs and Their Impact on Noxious and Invasive Weeds in Maryland.**  
L.K. Heimer*, Maryland Department of Agriculture, Annapolis, MD (63)
2:00  What is the Current Known Status of Wavyleaf Basketgrass (*Oplismenus undulatifolius*) in Pennsylvania? A. Gover*, E.B. Euker, and E.B. DePaulis, Penn State University, University Park, PA (64)


2:30  Is Indaziflam A Viable Alternative To Existing Herbicides for Japanese Stiltgrass (*Microstegium vimineum*) Management? A. Gover*, A.C. Causey, and M.L. Fuchs, Penn State University, University Park, PA (66)

2:45  Break
Symposium: The Benefits and Challenges of Participatory Research.

LOCATION: Salon EF
TIME: 3:00 PM - 5:00 PM
MODERATOR: Theresa A. Reinhardt-Piskackova

3:00  Introductory Remarks, Theresa A. Reinhardt-Piskackova

3:05  Panel Presentation:

Nicholas Polanin, Chair of Department of Agriculture and Natural Resources and County Agent II Rutgers Cooperative Extension of Somerset County.

Meredith Melendez, Agricultural Agent III Rutgers Cooperative Extension of Mercer County.

Alison Cawood, Citizen Science Coordinator at Smithsonian Environmental Research Center.

Steven Mirsky, Sustainable Agricultural Systems Laboratory Research Ecologist at Beltsville (tentative)

4:00  Discussion
Workshop: Weed Management in Pollinator Plantings
LOCATION: Salon CD
TIME: 3:00 PM - 5:00 PM
MODERATOR: Art Gover

3:00 Introductory Remarks, Art Gover, Moderator

3:05 Critical Elements of Pollinator Plantings. Harland Patch, Assistant Research Professor, Penn State University

3:25 NRCS Programs and Establishment Guidance. Steve Strano, State Biologist, USDA-NRCS, Maryland Critical Elements of Pollinator

3:40 Preliminary Results and Recommendations for Pollinator Habitat Establishment on Roadsides. Lisa Kuder, Graduate Research Assistant, University of Maryland

3:55 Plan ‘A’ Didn’t Work – Let’s Try it Again: Learning Pollinator Habitat Establishment the Hard Way. Brian McDonnell, Team Leader, NE Region Exotic Plant Management Team, National Park Service, Bushkill, PA

4:05 A Very Brief Overview of Selective Herbicide Approaches for Pollinator Habitat Establishment and Maintenance. Art Gover, Wildland Weed Management Program, Penn State University

4:20 Panel Discussion: Harland Patch, Penn State Steve Strano, USDA-NRCS, Maryland Lisa Kuder, University of Maryland Art Gover, Penn State Lane Heimer, MD Dept. of Agriculture John Krouse, MD State Highway Authority
**THURSDAY AFTERNOON JANUARY 10**

5:00 PM NEWSS Business Meeting – Valley Ballroom

5:00 PM NE ASA/CSSA/SSSA Business Meeting – SALON CD

6:45 PM NEPPSC Organizing Committee
SALON CD

**FRIDAY MORNING JANUARY 12**

8:30 AM NEWSS Board Meeting – Salon A

See you in Philadelphia in 2020!!!*

*tentative location