

# NEPPSC

NORTHEASTERN PLANT, PEST AND SOILS CONFERENCE



## THE NORTHEASTERN PLANT, PEST, AND SOILS CONFERENCE

*Conference Theme:*  
*Science Communication*  
**2022**

*A joint meeting of:*



**Gettysburg, PA; January 3-6, 2022**

**Wyndham Gettysburg**

# **IMPORTANT DEADLINES**

## **Slides Uploads:**

Upload your slides file to your submitted title page at [weedscimeetingabstract.com](http://weedscimeetingabstract.com)

Student Contest Oral Presentations:  
January 3, 2022 by 11:59 PM

Other Presentations:  
January 3, 2022 by 11:59 PM

## **Abstract Submission:**

Upload your abstract to your submitted title page at [weedscimeetingabstract.com](http://weedscimeetingabstract.com)

All Abstracts due January 3, 2022 by  
11:59 PM

## **Participating Societies:**

*Northeastern Weed Science Society  
(NEWSS)*

*Northeastern Regional Branch of  
American Society of Agronomy, Crop  
Science Society of America, & Soil  
Science Society of America (NEB-CSA)*

*American Society of Horticultural Science  
– Northern Region (NR-ASHS)*

## SUSTAINING MEMBERS 2022

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

### PLATINUM



### GOLD



### SILVER



## BRONZE



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

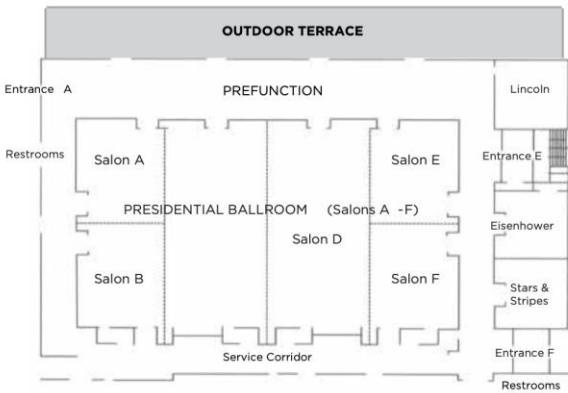
If you would like more information about a sustaining member, click on any of the logos on the "Sponsors" page at:

<http://www.neppsc.org>

## Meeting Location

**Wyndham Gettysburg**  
**95 Presidential Circle**  
**Gettysburg, PA 17325**  
**(717) 339-0020**

<https://www.wyndhamhotels.com/wyndham/gettysburg-pennsylvania/wyndham-gettysburg/overview>



# **SOCIETY EXECUTIVES**

## **NEWSS**

Caren Schmidt, President  
Jacob Barney, President-elect  
Wes Everman, Vice President  
Art Gover, Past President  
Larissa Smith, Treasurer

## **NE ASA/CSSA/SSSA**

Karen Gartley, President  
TBD, Past President  
TBD, Secretary/Treasurer  
TBD, Branch Director

## **NR-ASHS**

Rebecca Brown, President  
Brandon Miller, President-elect  
Adrienne Kleintop, Past President

# **NEPPSC PROGRAM COMMITTEE**

Jacob Barney, Program Chair, NEWSS  
Wes Everman, NEWSS  
Maria Gannett & Eric Jones, NEWSS  
Karen Gartley, NEB-CSA  
Rebecca Brown, NR-ASHS

# CONDENSED PROGRAM

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**MONDAY JANUARY 3**

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NEWSS Board and Program Committee	1:00PM - 2:00 PM	Salon E/F
NEWSS Board Meeting	2:00PM - 3:00 PM	Salon E/F
Mid- Atlantic Weed Guide	3:00 PM - 4:00 PM	Salon A/B
Weed Contest Committee	3:00PM - 4:00 PM	Eisenhower
Endowment Committee	3:00 PM - 3:30 PM	Stars & Stripes
Section Chair Committee	3:30 PM - 4:00 PM	Stars & Stripes
Awards Committee	3:30 PM - 4:00 PM	Salon E/F
Opening Session & Awards	4:00 PM - 6:00 PM	Salon C/D
Student Quiz Bowl	6:00 PM - 7:00 PM	Salon A/B
NEPPSC Social	6:00 PM - 8:00 PM	Ballroom Foyer

Football Social 8:00 PM - 10:00 PM Salon A/B

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**TUESDAY JANUARY 4**

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NEWSS Student Poster (Authors present) 7:30 AM - 9:00 AM Ballroom Foyer

NEB-CSA Student Poster (Authors present) 7:30 AM - 9:00 AM Ballroom Foyer

NR-ASHS Student Poster (Authors present) 7:30 AM - 9:00 AM Ballroom Foyer

General Posters (Authors present) 7:30 AM - 9:00 AM Ballroom Foyer

NEWSS Student Oral Presentation 9:00 AM - 10:30 AM Salon C/D

NEWSS Student Oral Presentation 10:45 AM - 12:15 PM Salon C/D

NEWSS Student Oral Presentation 1:45 PM - 2:45 PM Salon C/D



NEB-CSA 2:45 PM - 3:00 PM Salon  
 Student Oral C/D  
 Presentation

NR-ASHS 3:00 PM - 3:30 PM Salon  
 Student Oral C/D  
 Presentation

SYMPOSIUM – 4:00 PM - 6:00 PM Salon  
 Science C/D  
 Communication:  
 Connecting  
 Across  
 Difference

Happy 6:00 PM - 7:30 PM Ballroom  
 Hour & Foyer  
 Poster  
 Session

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**WEDNESDAY JANUARY 5**

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Fruit, 8:00 AM - 10:00 AM Salon  
 Vegetable, C/D  
 and Tree  
 Crops

Turf, 10:15 AM - 12:15 AM Salon  
 Ornamental, C/D  
 and Non-  
 Crop

WORKSHOP 12:15 PM - 1:30 PM Salon  
 - Grad A/B  
 Student  
 Lunch

Agronomic 1:30 PM - 3:30 PM Salon  
 Crops C/D

Fruit, 3:45 PM - 5:00 PM Salon B  
 Vegetable,  
 and Tree

Crops  
Roundtable

Turf, and Non-Crop - Roundtable 3:45 PM - 5:00 PM Salon E/F

Agronomic Crops Roundtable 3:45 PM - 5:00 PM Salon C/D

Ornamental /IR4 Roundtable 3:45PM - 5:00P M Eisenhower

NEWSS Business Meeting 5:15 PM - 6:30 PM Salon C/D

NR-ASHS Business Meeting 5:15 PM - 6:30 PM Salon A/B

NEB-CSA Business Meeting 5:15 PM - 6:30 PM Eisenhower

NEPPSC Endowment Social 7:00 PM - 10:00 PM TBD

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***THURSDAY JANUARY 6***

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Past President's Breakfast 7:00 AM - 8:00 AM Salon A/B

Fruit, Vegetable, and Tree Crops 8:00 AM - 8:45 AM Salon C/D

Turf, Ornamental, and Non-Crop 8:45 AM - 11:00 AM Salon C/D

Agronomic Crops 11:00 AM - 12:45 PM Salon C/D

NEWSS Board Meeting 12:45 PM - 3:00 PM Salon A/B

# EXPANDED PROGRAM

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*Monday Evening, January 3*

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## NEPPSC Opening Session

LOCATION: Salon C/D  
TIME: 4:00 PM - 6:00 PM  
Eastern Time  
MODERATOR: Jacob Barney  
Virginia Tech  
Blacksburg, VA

### ***Welcome and Keynote Address***

“Current Land Management Practices  
on the Battlefield”

Dafna Reiner  
Biologist, Gettysburg NMP/Eisenhower  
NHS

### ***Presidential Addresses***

Caren Schmidt, NEWSS  
Rebecca Brown, NR-ASHS  
Karen Gartley, NEB-CSA

### ***NEWSS Awards***

*NEWSS Fellow*

*Award of Merit*

*Outstanding Educator*

*Robert D. Sweet Outstanding Graduate  
Student - M.S.*

*Robert D. Sweet Outstanding Graduate  
Student - Ph.D.*

*M.Garry Schnappinger Award of  
Service*

## NEPPSC Social

LOCATION: Ballroom Foyer  
TIME: 6:00 PM - 8:00 PM  
Eastern Time

### **NEPPSC Football Social**

LOCATION: **Ballroom Foyer**  
TIME: 8:00 PM - 10:00 PM  
Eastern Time

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***TUESDAY MORNING JANUARY 4***

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### **POSTER - NEWSS Student Poster**

LOCATION: Ballroom Foyer  
TIME: 07:30 AM - 09:00 AM  
Eastern Time  
CHAIR: Katelyn Venner  
BASF  
Raleigh, NC

#### **\*PRESENTER † STUDENT CONTEST**

†*ALLARIA PETIOLATA* LOCAL ADAPTATION AND GROWTH IN DIFFERENT SOIL CONTENTS AS METHODS OF INVASION. Abby Walden\*; Princeton High School, Princeton, NJ (1)

†ESTABLISHMENT AND WINTER SURVIVAL OF *SORGHUM HALEPENSE* IN NEW YORK. Ryan P. O'Briant\*<sup>1</sup>, Antonio DiTommaso<sup>2</sup>, Lynn M. Sosnoskie<sup>3</sup>; <sup>1</sup>Cornell University - Soil and Crop Sciences, Brooktondale, NY, <sup>2</sup>Cornell University, Dryden, NY, <sup>3</sup>Cornell University, Geneva, NY (2)

†HERBICIDE TOLERANCE OF HEMP FOR CANNABIDIOL PRODUCTION. Matthew P. Spoth\*, Michael L. Flessner, Kevin W. Bamber, Wykle C. Greene, Cynthia Sias, Eli C. Russell; Virginia Tech, Blacksburg, VA (3)

†OPTIMIZATION OF HETEROGENEOUS PLANTING ARRANGEMENTS TO MAXIMIZE YIELD AND WEED SUPPRESSION. Sandra R. Ethridge\*<sup>1</sup>, Wesley Everman<sup>1</sup>, David L. Jordan<sup>1</sup>,

Anna M. Locke<sup>2</sup>, Ramon G. Leon<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>USDA, Raleigh, NC (4)

†TALL FESCUE SEEDING IMPROVES FALSE-GREEN KYLLINGA (*KYLLINGA GRACILLIMA*) CONTROL WITH HERBICIDES. Trevor S. Watson\*, Matthew T. Elmore, Daniel P. Tuck; Rutgers University, New Brunswick, NJ (5)

†WEEDS AND WARMING: DETERMINING HOW INCREASING TEMPERATURES WILL SHIFT WEED COMMUNITIES IN AN ALFALFA-ORCHARDGRASS FORAGE MIXTURE. Ashley N. Isaacson\*<sup>1</sup>, Christopher Stampelis<sup>2</sup>, Richard G. Smith<sup>3</sup>, Alexandra R. Contosta<sup>3</sup>, Carolyn J. Lowry<sup>2</sup>; <sup>1</sup>Penn State University, State College, PA, <sup>2</sup>Penn State University, University Park, PA, <sup>3</sup>University of New Hampshire, Durham, NH (6)

†STEAM DISINFESTATION OF SOIL WITH AND WITHOUT ACCELERANTS. Donald E. Fox\*<sup>1</sup>, Mark Hoffmann<sup>1</sup>, Emma Volk<sup>1</sup>, Steve Fennimore<sup>2</sup>, Joe C. Neal<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>University of California - Davis, Salinas, CA (7)

†CULTURAL PRACTICES FOR IMPROVING CEREAL RYE ESTABLISHMENT IN ORGANIC NO-TILL SOYBEAN. Laurel Wellman\*, John M. Wallace; Penn State University, University Park, PA (8)

†DOES COVER CROP ROOT COMPOSITION AFFECT WEED SUPPRESSION? Emma Rice\*, Carolyn J. Lowry; Penn State University, University Park, PA (9)

†FECUNDITY REDUCTIONS OF PALMER AMARANTH SURVIVING GLUFOSINATE TREATMENTS IN SOYBEANS. Eric A. Jones\*, Diego J. Contreras, Charlie W. Cahoon, Ramon G. Leon, Wesley Everman; North Carolina State University, Raleigh, NC (10)

†UNMANNED AERIAL SYSTEM BASED HERBICIDE APPLICATION FOR WEED MANAGEMENT IN ROW CROPS. Vipin Kumar\*<sup>1</sup>, Vijay Singh<sup>1</sup>, Dhiraj Srivastava<sup>1</sup>, William Reynolds<sup>2</sup>; <sup>1</sup>Virginia Tech, Painter, VA, <sup>2</sup>Leading Edge Aerial Technologies, New Smyrna Beach, FL (11)

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**TUESDAY MORNING JANUARY 4**

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**POSTER - NEB-CSA Student Poster**

LOCATION: Ballroom Foyer  
TIME: 07:30 AM - 09:00 AM  
Eastern Time  
CHAIR: Katelyn Venner  
BASF  
Raleigh, NC

**\*PRESENTER † STUDENT CONTEST**

† CONVOLUTIONAL NEURAL NETWORK  
APPROACH TO IDENTIFY ITALIAN RYEGRASS  
IN WHEAT. Dhiraj Srivastava\*, Vijay Singh;  
Virginia Tech, Painter, VA (12)

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**TUESDAY MORNING JANUARY 4**

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**POSTER - NR-ASHS Student Poster**

LOCATION: Ballroom Foyer  
TIME: 07:30 AM - 09:00 AM  
Eastern Time  
CHAIR: Katelyn Venner  
BASF  
Raleigh, NC

**\*PRESENTER † STUDENT CONTEST**

† INTROGRESSION OF TRAITS FROM A WILD  
SPECIES APPLE (*MALUS PRUNIFOLIA*) INTO  
THE DOMESTICATED BREEDING  
POPULATION. Andrew Scheldorf\*; Cornell,  
Ithaca, NY (13)

† ULTRASONIC IMAGING FOR MICROBIALLY-  
PRODUCED PESTICIDES AND  
ANTIMICROBIALS IN AGRICULTURE. Liang  
Cheng\*; Cornell University, Ithaca, NY (14)

†PHENOLOGY OF EUROPEAN, AMERICAN, AND INTERSPECIFIC HYBRID HAZELNUTS IN NEW JERSEY. David J. Hlubik\*<sup>1</sup>, John M. Capik<sup>2</sup>, Thomas J. Molnar<sup>2</sup>; <sup>1</sup>Rutgers University, Bordentown, NJ, <sup>2</sup>Rutgers University, New Brunswick, NJ (15)

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**TUESDAY MORNING JANUARY 4**

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**RESEARCH POSTERS**

LOCATION: Ballroom Foyer  
TIME: 07:30 AM - 09:00 AM  
Eastern Time  
CHAIR: Katelyn Venner  
BASF  
Raleigh, NC

**\*PRESENTER**

EFFECT OF PROHYDROJASMON, ABSCISIC ACID, AND 1-AMINOCYCLOPROPANE-1-CARBOXYLIC ACID ON FRUIT COLOR IN CRANBERRY. Giverson Mupambi\*; University of Massachusetts Amherst / Cranberry Station, East Wareham, MA (16)

SUPPLEMENTAL NICKEL CORRECTS MOUSE EAR DISORDER OF BITTERNUT HICKORY. Brandon M. Miller\*<sup>1</sup>, Nina L. Bassuk<sup>2</sup>; <sup>1</sup>University of Minnesota, St. Paul, MN, <sup>2</sup>Cornell University, Ithaca, NY (17)

THE PERFORMANCE OF HALAUXIFEN-METHYL + FLUROXYPYR + 2,4-D CHOLINE (GAMEONTM) IN GOLF NATIVE AREA WEED MANAGEMENT PROGRAMS. David E. Hillger\*<sup>1</sup>, Amy L. Agi<sup>2</sup>, Paul T. Marquardt<sup>3</sup>; <sup>1</sup>Corteva Agriscience, Thorntown, IN, <sup>2</sup>Corteva Agriscience, Brooks, GA, <sup>3</sup>Corteva Agriscience, San Diego, CA (18)

2021 SURVEY RESULTS FOR THE MOST COMMON AND TROUBLESOME WEEDS IN AQUATIC AND NON-CROP AREAS. Lee Van Wychen\*<sup>1</sup>, Devon E. Carroll<sup>2</sup>, Rebecca



Champagne<sup>3</sup>; <sup>1</sup>Weed Science Society of America, Alexandria, VA, <sup>2</sup>University of Tennessee, Knoxville, TN, <sup>3</sup>University of Maine, Orono, ME (19)

CONTROL OF LARGER HERBICIDE-RESISTANT COMMON RAGWEED IN SOYBEAN. Kurt M. Vollmer\*; University of Maryland, Queenstown, MD (20)

EVALUATING THE SAFETY OF ACETOCHLOR AND ACIFLUORFEN FOR USE IN TABLE BEETS IN NEW YORK. Elizabeth C. Maloney\*, Lynn M. Sosnoskie; Cornell University, Geneva, NY (21)

HERBICIDE RESISTANCE UPDATES FOR NEW YORK STATE. Lynn M. Sosnoskie\*, Elizabeth C. Maloney; Cornell University, Geneva, NY (22)

EFFICACY OF WEED MANAGEMENT TACTICS. Michael L. Flessner\*<sup>1</sup>, Mark VanGessel<sup>2</sup>, Kevin W. Bamber<sup>1</sup>, Thierry E. Besancon<sup>3</sup>, Rakesh S. Chandran<sup>4</sup>, Dwight Lingenfelter<sup>5</sup>, Claudio G. Rubione<sup>2</sup>, Lovreet S. Shergill<sup>6</sup>, Vijay Singh<sup>7</sup>, Kurt M. Vollmer<sup>8</sup>, John M. Wallace<sup>5</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>University of Delaware, Georgetown, DE, <sup>3</sup>Rutgers University, Chatsworth, NJ, <sup>4</sup>West Virginia University, Morgantown, WV, <sup>5</sup>Penn State University, University Park, PA, <sup>6</sup>Montana State University, Huntley, MT, <sup>7</sup>Virginia Tech, Painter, VA, <sup>8</sup>University of Maryland, Queenstown, MD (23)

IMPACT OF HERBICIDE PROGRAM INTENSITY ON WEED COMMUNITY DURING EIGHT YEARS IN A COTTON MONOCULTURE. Fernando H. Oreja\*<sup>1</sup>, Matthew Inman<sup>2</sup>, David L. Jordan<sup>1</sup>, Ramon G. Leon<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>NCSU, Raleigh, NC (24)

EFFECTS OF RELAY COVER CROPPING IN ORGANIC WINTER GRAIN PRODUCTION ON WEED SUPPRESSION AND COMMUNITY ASSEMBLY. Moriah Bilenky\*, John M. Wallace; Penn State University, University Park, PA, (25)

DO FORAGE GRASSES TOLERATE POST-GRASS HERBICIDES? Dwight Lingenfelter\*, John M. Wallace; Penn State University, University Park, PA (26)

SENSITIVITY OF SELECT MID-ATLANTIC VEGETABLES TO SUB-LETHAL DICAMBA RATES. Maggie H. Wasacz\*<sup>1</sup>, Baylee L. Carr<sup>2</sup>, Daniel L. Ward<sup>3</sup>, Thierry E. Besancon<sup>4</sup>; <sup>1</sup>Rutgers University, Wall Township, NJ, <sup>2</sup>Rutgers University - Weed Science, Chatsworth, NJ, <sup>3</sup>Rutgers University, Bridgeton, NJ, <sup>4</sup>Rutgers University, Chatsworth, NJ (27)

MAVERICK™: A NEW HERBICIDE PREMIX FOR PRE AND POST WEED CONTROL IN CORN. Garrison J. Gundy<sup>1</sup>, John Pawlak<sup>2</sup>, Lowell Sandell<sup>3</sup>, Eric Ott<sup>4</sup>, Trevor Isreal<sup>5</sup>, Ron Estes<sup>6</sup>, Jonathon Kohrt\*<sup>7</sup>; <sup>1</sup>Valent U.S.A LLC, Seymour, IL, <sup>2</sup>Valent USA Corporation, Lansing, MI, <sup>3</sup>Valent USA LLC, Ashland, NE, <sup>4</sup>Valent USA, Greenfield, IN, <sup>5</sup>Valent USA LLC, Sioux Falls, SD, <sup>6</sup>Valent USA LLC, Champaign, IL, <sup>7</sup>Valent USA LLC, West Des Moines, IA (28)

CONFIRMATION OF A FIVE-WAY HERBICIDE-RESISTANT WATERHEMP (*AMARANTHUS TUBERCULATUS*) POPULATION IN NORTH CAROLINA. Eric A. Jones\*<sup>1</sup>, Ryan J. Andres<sup>1</sup>, Diego J. Contreras<sup>1</sup>, Jeffrey C. Dunne<sup>1</sup>, Katherine M. Jennings<sup>1</sup>, Charles W. Cahoon<sup>2</sup>, Ramon G. Leon<sup>1</sup>, Wesley Everman<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>Virginia Tech, Painter, VA (29)

BUOYANCY OF COMMON NURSERY WEED SEEDS IN WATER. Alisha O. Ray\*<sup>1</sup>, Joe C. Neal<sup>1</sup>, Anthony LeBude<sup>2</sup>, James Altland<sup>3</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>NC State University, Mills River, NC, <sup>3</sup>USDA-ARS, Wooster, OH (30)

CAROLINA REDROOT: LONG TERM MANAGEMENT IN CRANBERRY CROP WITH OVERLAPPING RESIDUAL HERBICIDES. Thierry E. Besancon\*<sup>1</sup>, Baylee L. Carr<sup>2</sup>; <sup>1</sup>Rutgers University, Chatsworth, NJ, <sup>2</sup>Rutgers University - Weed Science, Chatsworth, NJ (31)

CHARACTERIZATION OF JAPANESE STILTGRASS (*MICROSTEGIUM VIMINEUM*) AND JOINT-HEAD ARTHRAXON (*ARTHRAOXON HISPIDUS*) GERMINATION. Rakesh S. Chandran\*, Whitney L. Dudding, Julia Bolin, Bruce Loyd, Debbie Friend, Georgette Plaughter, William Shockey, Jody Carpenter, Joshua Peplowski, Dave Seymour, David Snively, Alexandria Smith,

Brad Smith; West Virginia University, Morgantown, WV (32)

EVALUATION OF HERBICIDAL SPOT TREATMENT VERSUS HAND WEEDING IN POLLINATOR GARDENS AT VIRGINIA SAFETY REST AREAS. Clebson G. Goncalves\*, Shawn Askew; Virginia Tech, Blacksburg, VA (33)

NEW YORK WEED IDENTIFICATION NETWORK OUTCOMES. Caroline Marschner\*<sup>1</sup>, Antonio DiTommaso<sup>2</sup>, Sharon Bachman<sup>3</sup>; <sup>1</sup>Cornell University, Ithaca, NY, <sup>2</sup>Cornell University, Dryden, NY, <sup>3</sup>Cornell Cooperative Extension of Erie County, West Aurora, NY (34)

CAN COVER CROPS MEDIATE THE EFFECTS OF INTENSE PRECIPITATION ON RESIDUAL HERBICIDE EFFICACY? Carolyn J. Lowry\*<sup>1</sup>, John M. Wallace<sup>1</sup>, Erin Haramoto<sup>3</sup>; <sup>1</sup>Penn State University, University Park, PA, <sup>2</sup>University of Kentucky, Lexington, KY (35)

COVER CROP RESIDUE MANAGEMENT EFFECTS ON HERBICIDE DEPOSITION AND BIOAVAILABILITY. Jared S. Adam\*<sup>1</sup>, Tosh R. Mazzone<sup>2</sup>, Teala S. Ficks<sup>2</sup>, John M. Wallace<sup>2</sup>; <sup>1</sup>Pennsylvania State University, State College, PA, <sup>2</sup>Penn State University, University Park, PA (36)

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## ***TUESDAY MORNING JANUARY 4***

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### **NEWSS Student Oral Presentation**

LOCATION: Salon C/D  
TIME: 09:00 AM - 10:30 AM  
Eastern Time  
MODERATOR: Daniel Kunkel  
AMVAC  
Plainsboro, NJ  
CO-MODERATOR: Eric A. Jones  
North Carolina State  
University  
Raleigh, NC

**\*SPEAKER † STUDENT CONTEST**

- 09:00 AM** †MICROBIALLY-MEDIATED NITROGEN IMMOBILIZATION IN SOILS AMENDED WITH CARBON: A NEW TOOL FOR WEED MANAGEMENT? Jenny Kao-Kniffin<sup>1</sup>, Antonio DiTommaso<sup>2</sup>, Maria Gannett\*<sup>1</sup>; <sup>1</sup>Cornell University, Ithaca, NY, <sup>2</sup>Cornell University, Dryden, NY (37)
- 09:15 AM** †UTILIZATION OF ANAEROBIC SOIL DISINFESTATION (ASD) FOR WEED CONTROL IN SUSTAINABLE VEGETABLE PRODUCTION. Gursewak Singh\*, Matthew A. Cutulle; Clemson University, Charleston, SC (38)
- 09:30 AM** †CHAFF LINING FOR MANAGEMENT OF WEEDS IN WINTER WHEAT AND SOYBEAN. Matthew P. Spoth\*, Michael L. Flessner, Kevin W. Bamber, Wykle C. Greene, Cynthia Sias, Eli C. Russell, Vijay Singh<sup>2</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>Virginia Tech, Painter, VA (39)
- 09:45 AM** †RAPID CHANGES IN COMPETITIVE DYNAMICS OF VELVETLEAF (*ABUTILON THEOPHRASTI*) AND GIANT FOXTAIL (*SETARIA FABERI*). Sandra R. Ethridge\*<sup>1</sup>, David L. Jordan<sup>1</sup>, Wesley Everman<sup>1</sup>, Anna M. Locke<sup>2</sup>, Ramon G. Leon<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>USDA, Raleigh, NC (40)
- 10:00 AM** †EFFECTS OF POPULATION, PLANTING DEPTH, AND PLANTING DENSITY ON COMMON MILKWEED EMERGENCE AND EARLY GROWTH. Anna Sophia Westbrook\*<sup>1</sup>, John Losey<sup>1</sup>, Alan George Taylor<sup>1</sup>, Antonio DiTommaso<sup>2</sup>; <sup>1</sup>Cornell University, Ithaca, NY, <sup>2</sup>Cornell University, Dryden, NY (41)
- 10:15 AM** †VERTICAL TILLAGE IMPACTS ON PEST, SOIL AND CROP MANAGEMENT IN SOUTHEAST

PENNSYLVANIA. Andrew M. Lefever\*<sup>1</sup>, John M. Wallace<sup>2</sup>; <sup>1</sup>Penn State University, State College, PA, <sup>2</sup>Penn State University, University Park, PA (42)

**10:30 AM Break**

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**TUESDAY MORNING JANUARY 4**

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**NEWSS Student Oral Presentation**

LOCATION: Salon C/D  
TIME: 10:45 AM - 12:15 PM  
Eastern Time  
MODERATOR: Daniel Kunkel  
AMVAC  
Plainsboro, NJ  
CO-MODERATOR: Maria A. Gannett  
Cornell University  
Ithaca, NY

**\*SPEAKER † STUDENT CONTEST**

**10:45 AM** †UTILIZING PLANT GROWTH REGULATORS TO DIFFERENTIALLY SUPPRESS ANNUAL GRASS WEEDS IN TURFGRASS. John M. Peppers\*<sup>1</sup>, Joseph S. McElroy<sup>2</sup>, Shawn Askew<sup>1</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>Auburn University, Auburn, AL (43)

**11:00 AM** †FALSE-GREEN KYLLINGA (*KYLLINGA GRACILLIMA*) COMPETITIVENESS FROM SEED IN TURFGRASS. Trevor S. Watson\*, Matthew T. Elmore, Daniel P. Tuck; Rutgers University, New Brunswick, NJ (44)

**11:15 AM** †PHOSPHATE FERTILIZER AND SOIL PH AFFECTS ANNUAL BLUEGRASS AND CREEPING BENTGRASS TILLERS GROWN IN COMPETITION. Brandon C. McNally\*<sup>1</sup>, Matthew T. Elmore<sup>1</sup>,

Alexander R. Kowalewski<sup>2</sup>, James A. Murphy<sup>1</sup>, Stephanie L. Murphy<sup>1</sup>;  
<sup>1</sup>Rutgers University, New Brunswick, NJ, <sup>2</sup>Oregon State University, Corvallis, OR (45)

**11:30 AM** †TOLERANCE AND YIELD RESPONSE OF EGGPLANT (*SOLANUM MELONGENA*), CUCUMBER (*CUCUMIS SATIVUS*), AND SNAP BEAN (*PHASEOLUS VULGARIS*) TO SUB-LETHAL DICAMBA RATES. Maggie H. Wasacz\*<sup>1</sup>, Mark VanGessel<sup>2</sup>, Lynn M. Sosnoskie<sup>3</sup>, Thierry E. Besancon<sup>4</sup>;  
<sup>1</sup>Rutgers University, Wall Township, NJ, <sup>2</sup>University of Delaware, Georgetown, DE, <sup>3</sup>Cornell University, Geneva, NY, <sup>4</sup>Rutgers University, Chatsworth, NJ (46)

**11:45 AM** †GOOSEGRASS (*ELEUSINE INDICA*) RESISTANCE TO MITOTIC-INHIBITING HERBICIDES IN NEW JERSEY. Matthew T. Elmore<sup>1</sup>, Eric L. Patterson<sup>2</sup>, Rong Di<sup>1</sup>, Thierry E. Besancon<sup>3</sup>, Katherine H. Diehl\*<sup>1</sup>;  
<sup>1</sup>Rutgers University, New Brunswick, NJ, <sup>2</sup>Michigan State University, East Lansing, MI, <sup>3</sup>Rutgers University, Chatsworth, NJ (47)

**12:00 PM** †DEVELOPMENT OF AN ASSAY TO CONFIRM GLUFOSINATE RESISTANCE BEFORE WIDESPREAD EVOLUTION. Eric A. Jones\*, Jeffrey C. Dunne, Ramon G. Leon, Wesley Everman; North Carolina State University, Raleigh, NC (48)

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**TUESDAY AFTERNOON JANUARY 4**

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**NEWSS Student Oral Presentation**

LOCATION: Salon C/D  
TIME: 01:45 PM - 03:30 PM  
Eastern Time

**MODERATOR:** Daniel Kunkel  
AMVAC  
Plainsboro, NJ

**CO-MODERATOR:** Katherine Diehl  
Rutgers University  
New Brunswick, NJ

**\*SPEAKER † STUDENT CONTEST**

**01:45 PM** †CONTROL OF VOLUNTEER  
COVER CROP PLANTS IN CORN.  
Vipin Kumar\*<sup>1</sup>, Vijay Singh<sup>1</sup>, Michael  
L. Flessner<sup>2</sup>, Mark S. Reiter<sup>1</sup>, Steven  
Brian Mirsky<sup>3</sup>; <sup>1</sup>Virginia Tech, Painter,  
VA, <sup>2</sup>Virginia Tech, Blacksburg, VA,  
<sup>3</sup>USDA ARS, Beltsville, MD (49)

**02:00 PM** †INFLUENCE OF TALL FESCUE  
CANOPY ARCHITECTURE ON  
WEED EMERGENCE. Daewon Koo\*,  
Clebson G. Goncalves, Shawn  
Askew; Virginia Tech, Blacksburg, VA  
(50)

**02:15 PM** †SULFENTRAZONE EFFICACY AND  
SAFETY IN CABBAGE AND  
BROCCOLI. Laura Pineda-  
Bermudez\*<sup>1</sup>, Thierry E. Besancon<sup>2</sup>,  
Mark VanGessel<sup>3</sup>, Lynn M.  
Sosnoskie<sup>4</sup>; <sup>1</sup>Cornell University,  
Ithaca, NY, <sup>2</sup>Rutgers University,  
Chatsworth, NJ, <sup>3</sup>University of  
Delaware, Georgetown, DE, <sup>4</sup>Cornell  
University, Geneva, NY (51)

**02:30 PM** †WEED SEED MASS AFFECTS  
SEEDLING ESTABLISHMENT AND  
RESOURCE ALLOCATION  
PATTERNS ACROSS CEREAL RYE  
SURFACE RESIDUE GRADIENT.  
Teala S. Ficks\*, John M. Wallace,  
Carolyn J. Lowry; <sup>1</sup>Penn State  
University, University Park, PA (52)

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***TUESDAY AFTERNOON JANUARY 4***

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## **NEB-CSA Student Oral Presentation**

LOCATION: Salon C/D  
TIME: 02:45 PM - 03:00 PM  
Eastern Time  
MODERATOR: Daniel Kunkel  
AMVAC  
Plainsboro, NJ  
CO-MODERATOR: Katherine Diehl  
Rutgers University  
New Brunswick, NJ

**\*SPEAKER † STUDENT CONTEST**

**02:45 PM** †ENHANCING SUSTAINABLE WEED MANAGEMENT THROUGH MACHINE LEARNING TO EVALUATE HARVEST WEED SEED CONTROL (HWSC) IN SOYBEAN. Dhiraj Srivastava\*<sup>1</sup>, Vijay Singh<sup>1</sup>, Michael L. Flessner<sup>2</sup>, Kevin Kochersberger<sup>2</sup>, John McGee<sup>2</sup>; <sup>1</sup>Virginia Tech, Painter, VA, <sup>2</sup>Virginia Tech, Blacksburg, VA (53)

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***TUESDAY AFTERNOON JANUARY 4***

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## **NR-ASHS Student Oral Presentation**

LOCATION: Salon C/D  
TIME: 03:00 PM - 03:30 PM  
Eastern Time  
MODERATOR: Daniel Kunkel  
AMVAC  
Plainsboro, NJ  
CO-MODERATOR: Katherine Diehl  
Rutgers University  
New Brunswick, NJ

**\*SPEAKER † STUDENT CONTEST**

**03:00 PM** †INVESTIGATING BACTERIAL BLIGHT OF HAZELNUT IN NEW JERSEY. Ava N. Wait\*<sup>1</sup>, Thomas J.



Molnar<sup>1</sup>, Shawn Mehlenbacher<sup>2</sup>;  
<sup>1</sup>Rutgers University, New Brunswick,  
NJ, <sup>2</sup>Oregon State University,  
Corvallis, OR (54)

**03:15 PM** †DETERMINING THE HYBRID  
MAKEUP OF RUTGERS DOGWOOD  
BREEDING SELECTIONS USING  
SPECIES SPECIFIC SNP MAKERS.  
Erin Pfarr Moreau\*, Josh Honig,  
Thomas J. Molnar; Rutgers University,  
New Brunswick, NJ (55)

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***TUESDAY AFTERNOON JANUARY 4***

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**SYMPOSIUM - Connecting Across  
Difference: An Interactive Experience  
in Communicating Science to the  
Public**

LOCATION: Salon C/D  
TIME: 04:00 PM - 06:00 PM  
Eastern Time  
MODERATOR: Jacob Barney  
Virginia Tech  
Blacksburg, VA

**Patty Raun**, Director, Center for  
Communicating Science, Virginia Tech

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***WEDNESDAY MORNING JANUARY 5***

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**Fruit, Vegetable, and Tree Crops**

LOCATION: Salon C/D  
TIME: 08:00 AM - 10:00 AM  
Eastern Time  
MODERATOR: Kurt M. Vollmer  
University of  
Maryland  
Queenstown, MD  
CO-MODERATOR: Roger B. Batts

NCSU IR-4 Field  
Research Center  
Fremont, NC

**\*SPEAKER**

- 08:00 AM** IR-4 WEED SCIENCE UPDATE - FOOD CROPS. Roger B. Batts\*<sup>1</sup>, Jerry Baron<sup>2</sup>, Venkat Pedibhotla<sup>3</sup>; <sup>1</sup>IR-4 Project HQ, NC State University, Raleigh, NC, <sup>2</sup>IR-4 Project, Hillsborough, NJ, <sup>3</sup>IR-4 Project, Raleigh, NC (56)
- 08:15 AM** WEED CONTROL IN SPECIALTY CROPS USING BICYCLOPYRONE. Larissa L. Smith\*<sup>1</sup>, Cristin Weber<sup>2</sup>, Dan Wilkinson<sup>3</sup>, Tom H. Beckett<sup>4</sup>, Pete Eure<sup>5</sup>; <sup>1</sup>Syngenta, King Ferry, NY, <sup>2</sup>Syngenta Crop Protection, Normal, IL, <sup>3</sup>Syngenta, East Lansing, MI, <sup>4</sup>Syngenta Crop Protection, Greensboro, NC, <sup>5</sup>Syngenta, Greensboro, NC (57)
- 08:30 AM** ELECTRICAL WEEDING - OBSERVATIONS FROM ORGANIC FIELDS IN NEW YORK. Lynn M. Sosnoskie\*; Cornell University, Geneva, NY (58)
- 08:45 AM** COMBINING ANAEROBIC SOIL DISINFESTATION WITH GRAFTING IN TOMATO. Matthew A. Cutulle, Harrison T. Campbell\*; Clemson University, Charleston, SC (59)
- 09:00 AM** INTERCROPPING OF SAFFRON AND BASIL IN RHODE ISLAND. Rahmatallah Gheshm\*<sup>1</sup>, Rebecca N. Brown<sup>2</sup>; <sup>1</sup>The University of Rhode Island, Wakefield, RI, <sup>2</sup>University of Rhode Island, Kingston, RI (60)
- 09:15 AM** OPTIMIZING BEACH PLUM CUTTING PROPAGATION METHODS. Megan Muehlbauer\*<sup>1</sup>, Peter Nitzsche<sup>2</sup>, Andrea Martinez<sup>3</sup>, Elisabeth Wheelan<sup>3</sup>; <sup>1</sup>Rutgers University, Flemington, NJ, <sup>2</sup>Rutgers Cooperative Extension of Morris

County, Morristown, NJ, <sup>3</sup>Rutgers University, New Brunswick, NJ (61)

**09:30 AM** YIELD AND SUGAR COMPOSITION OF ROOTS OF YACON (*SMALLANTHUS SONCHIFOLIUS*) CULTIVARS GROWN AND STORED IN NEW JERSEY. Peter Nitzsche\*<sup>1</sup>, Thomas Gianfagna<sup>2</sup>, Meredith V. Melendez<sup>3</sup>, Rick VanVranken<sup>4</sup>, Jeanne Peters<sup>2</sup>; <sup>1</sup>Rutgers Cooperative Extension of Morris County, Morristown, NJ, <sup>2</sup>Rutgers University, New Brunswick, NJ, <sup>3</sup>Rutgers Cooperative Extension, Ewing, NJ, <sup>4</sup>Rutgers Cooperative Extension of Atlantic County, Mays Landing, NJ (62)

**09:45 AM** FREEZING CHARACTERISTIC OF BROCCOLI AND SPROUTING BROCCOLI FOR PROCESSING. Gordon C. Johnson\*; University of Delaware, Georgetown, DE (63)

**10:00 AM** Break

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***WEDNESDAY MORNING JANUARY 5***

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**Turf, Ornamental, and Non-Crop**

LOCATION: Salon C/D  
TIME: 10:15 AM - 12:15 AM  
Eastern Time  
MODERATOR: Matthew T. Elmore  
Rutgers University  
New Brunswick, NJ  
CO-MODERATOR: David E. Hillger  
Corteva Agriscience  
Thorntown, IN

**\*SPEAKER**

**10:15 AM** SOME OBSERVATIONS ON NON-NATIVE VASCULAR PLANT SPECIES OF THE EASTERN

- UNITED STATES, MAINE TO THE FLORIDA KEYS. Richard B. Stalter\*; St. John's University, Jamaica, NY (64)
- 10:30 AM** PERFORMANCE OF CONTAINER-GROWN HEMP UNDER DIFFERENTIAL IRRIGATION IN A GREENHOUSE ENVIRONMENT. Raul I. Cabrera\*, Eric Petit; Rutgers University, Bridgeton, NJ (65)
- 10:45 AM** GENOME-WIDE EVOLUTIONARY ANALYSIS OF PUTATIVE NON-SPECIFIC HERBICIDE RESISTANCE GENES AND COMPILATION OF CORE PROMOTERS BETWEEN MONOCOTS AND DICOTS. Saket Chandra\*, Ramon G. Leon; North Carolina State University, Raleigh, NC (66)
- 11:00 AM** HOW DO TWO, ONE, OR ZERO SEASONS OF SITE PREPARATION IMPACT RIPARIAN AFFORESTATION WITH AMERICAN SYCAMORE (*PLATANUS OCCIDENTALIS*) SEEDLINGS? Arthur E. Gover\*<sup>1</sup>, Emily N. Weaver<sup>2</sup>; <sup>1</sup>Fruittown Land Stewardship Services, Centre Hall, PA, <sup>2</sup>Penn State, University Park, PA (67)
- 11:15 AM** EFFICACY OF FOLIAR APPLICATIONS TO CONTROL AUTUMN OLIVE. Jeff C. Jodon, Jr.\*, Elizabeth Egan, Jim C. Sellmer; Penn State University, University Park, PA (68)
- 11:30 AM** COMPARISON OF THE EFFECTIVENESS OF FOLIAR HERBICIDE MIXES ON BRUSH HONEYSUCKLE SPECIES DURING FLOWERING. Jeff C. Jodon, Jr.\*, Elizabeth Egan, Jim C. Sellmer; Penn State University, University Park, PA (69)
- 11:45 AM** USING A HAND-HELD WEED WIPER TO CONTROL MUGWORT

(*ARTEMISIA VULGARIS*) IN  
CONTAINERS. Rakesh S.  
Chandran\*, Whitney L. Dudding,  
Andrea Landis; West Virginia  
University, Morgantown, WV (70)

**12:00 PM** USING A HAND-HELD WEED  
WIPER TO CONTROL MUGWORT  
(*ARTEMISIA VULGARIS*) IN A  
LANDSCAPE. Rakesh S. Chandran\*,  
Whitney L. Dudding, Andrea Landis;  
West Virginia University, Morgantown,  
WV (71)

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**WEDNESDAY AFTERNOON  
JANUARY 5**

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**WORKSHOP - Grad Student Lunch -  
Learning to Listen and Listening to  
Learn: An Experiential Workshop in  
Understanding**

LOCATION: Salon A/B  
TIME: 12:15 PM - 01:30 PM  
Eastern Time  
MODERATOR: Maria A. Gannett  
Cornell University  
Ithaca, NY  
CO-MODERATOR: Eric A. Jones  
North Carolina State  
University  
Raleigh, NC

**Patty Raun**, Director, Center for  
Communicating Science, Virginia Tech

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**WEDNESDAY AFTERNOON  
JANUARY 5**

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**Agronomic Crops**

LOCATION: Salon C/D  
TIME: 01:30 PM - 03:30 PM  
Eastern Time  
MODERATOR: Vijay Singh  
Virginia Tech  
Painter, VA  
CO-MODERATOR: Ramon G. Leon  
North Carolina State  
University  
Raleigh, NC

**\*SPEAKER**

- 01:30 PM** AGRICULTURALLY SIGNIFICANT WORMS OF SOUTHWEST NEW JERSEY: THE GOOD, THE BAD, THE UGLY. Melissa A. Bravo\*; Rutgers University, Dept. of Agriculture and Natural Resources, New Brunswick, NJ (72)
- 01:45 PM** COVER CROPS AS A WEED SEED BANK MANAGEMENT TOOL. Cynthia Sias<sup>1</sup>, Bethany R. Wolters<sup>2</sup>, Mark S. Reiter<sup>3</sup>, Michael L. Flessner\*<sup>1</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>University of Tennessee at Martin, Martin, TN, <sup>3</sup>Virginia Tech, Painter, VA (73)
- 02:00 PM** FLORAL HEMP EVALUATION UNDER FIELD FERTIGATED PLASTICULTURE. Raul I. Cabrera\*, Eric Petit; Rutgers University, Bridgeton, NJ (74)
- 02:15 PM** AGRICULTURALLY SIGNIFICANT WEEDS OF SOUTH-CENTRAL NEW JERSEY: THE GOOD, THE BAD, THE UGLY. Melissa A. Bravo\*; Rutgers University, Dept. of Agriculture and Natural Resources, New Brunswick, NJ (75)
- 02:30 PM** TENDOVO - SETTING THE STANDARD FOR SOYBEAN HERBICIDES. John R. Brewer\*<sup>1</sup>, Brett Miller<sup>2</sup>, Tom H. Beckett<sup>3</sup>, Peter Eure<sup>4</sup>; <sup>1</sup>Syngenta Crop Protection, Vero Beach, FL, <sup>2</sup>Syngenta Crop

Protection, Fargo, ND, <sup>3</sup>Syngenta Crop Protection, Greensboro, NC, <sup>4</sup>Syngenta Crop Protections, Greensboro, NC (76)

**02:45 PM** STRATEGIES FOR CONTROLLING HERBICIDE RESISTANT COMMON RAGWEED IN MARYLAND. Sarah M. Hirsh\*<sup>1</sup>, Kurt M. Vollmer<sup>2</sup>, Ben Beale<sup>3</sup>, Mark VanGessel<sup>4</sup>; <sup>1</sup>University of Maryland Extension, College Park, MD, <sup>2</sup>University of Maryland, Queenstown, MD, <sup>3</sup>University of Maryland, Leonardtown, MD, <sup>4</sup>University of Delaware, Georgetown, DE (77)

**03:00 PM** INTERSEEDING PRESCRIPTIONS: COVER CROP RELATIVE SENSITIVITY TO HPPD HERBICIDES. Tosh R. Mazzone\*, John M. Wallace; Penn State University, University Park, PA (78)

**03:15 PM** AGRICULTURALLY SIGNIFICANT PESTS OF SOUTH-CENTRAL NEW JERSEY: THE GOOD, THE BAD, THE UGLY. Melissa A. Bravo\*; Rutgers University, Dept. of Agriculture and Natural Resources, New Brunswick, NJ (79)

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***Wednesday Afternoon, January 5***

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**Turf and Non-Crop**

***Roundtable***

*Location* Salon E/F  
*Time* 3:45 – 5:00 PM  
*Moderator* Matt Elmore  
Rutgers University  
New Brunswick, NJ

**Agronomic Crops**

***Roundtable***

*Location* Salon C/D  
*Time* 3:45 – 5:00 PM  
*Moderator* Vijay Singh  
Virginia Tech  
Painter, VA

### **Fruit, Vegetable, and Tree Crops**

#### ***Roundtable***

*Location* Salon A/B  
*Time* 3:45 – 5:00 PM  
*Moderator* Kurt Vollmer  
University of Maryland  
Queenstown, MD

### **IR4 and Ornamentals**

#### ***Roundtable***

*Location* Eisenhower  
*Time* 3:45 – 5:00 PM  
*Moderator* Cristi Palmer  
IR-4 Program, Rutgers  
University  
Princeton, NJ

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## ***Wednesday Afternoon, January 5***

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### **NEWSS BUSINESS MEETING**

*Location* Salon C/D  
*Time* 5:15 – 6:30 PM

### **NR-ASHS BUSINESS MEETING**

*Location* Salon A/B  
*Time* 5:15 – 6:30 PM

### **NEB-CSA BUSINESS MEETING**

*Location* Eisenhower  
*Time* 5:15 – 6:30 PM



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**Wednesday Evening, January 5**

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**NEPPSC Endowment Social**

*Location* TBD

*Time* 7:00 – 10:00 PM

*Provided By:*

**TBD**

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**THURSDAY MORNING JANUARY 6**

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**Fruit, Vegetable, and Tree Crops**

LOCATION: Salon C/D  
TIME: 08:00 AM - 08:45 AM  
Eastern Time  
MODERATOR: Kurt M. Vollmer  
University of  
Maryland  
Queenstown, MD  
CO-MODERATOR: Roger B. Batts  
NCSU IR-4 Field  
Research Center  
Fremont, NC

**\*SPEAKER**

**08:00 AM** SPECULATIONS ON WEED  
MANAGEMENT AND HERBICIDE  
USE PATTERNS UNDER  
AGRIVOLTAIC PANELS IN  
CRANBERRY PRODUCTION. Hilary  
A. Sandler\*<sup>1</sup>, Giverson Mupambi<sup>2</sup>;  
<sup>1</sup>UMass Cranberry Station, East  
Wareham, MA, <sup>2</sup>University of  
Massachusetts Amherst / Cranberry  
Station, East Wareham, MA (80)

**08:15 AM** CREATING SITE SPECIFIC TREATMENT MAPS FOR CRANBERRY DISEASE USING DRONE IMAGERY. Peter Oudemans\*<sup>1</sup>, Michael C. Little<sup>2</sup>; <sup>1</sup>Rutgers University/ Marucci Center, Chatsworth, NJ, <sup>2</sup>Downstown Airport, Vineland, NJ (81)

**08:30 AM** FRUIT COLOR IMPROVEMENT IN CRANBERRY USING DIFFERENT FORMULATIONS OF ETHEPHON. Giverson Mupambi\*; University of Massachusetts Amherst / Cranberry Station, East Wareham, MA (82)

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***THURSDAY MORNING JANUARY 6***

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**Turf, Ornamental, and Non-Crop**

LOCATION: Salon C/D  
TIME: 08:45 AM - 11:00 AM  
Eastern Time  
MODERATOR: Matthew T. Elmore  
Rutgers University  
New Brunswick, NJ  
CO-MODERATOR: David E. Hillger  
Corteva Agriscience  
Thorntown, IN

**\*SPEAKER**

**08:45 AM** EARLY SPRING APPLICATIONS OF PYRIMISULFAN TO CONTROL CYPERACEAE SPECIES IN TURFGRASS. Matthew T. Elmore\*<sup>1</sup>, Eric H. Reasor<sup>2</sup>, Brian A. Aynardi<sup>3</sup>, Steven McDonald<sup>4</sup>, Marvin Seaman<sup>5</sup>, Daniel P. Tuck<sup>1</sup>, Jeff Marvin<sup>6</sup>; <sup>1</sup>Rutgers University, New Brunswick, NJ, <sup>2</sup>PBI-Gordon, Dallas, TX, <sup>3</sup>PBI-Gordon Corp, State College, PA, <sup>4</sup>Turfgrass Disease Solutions, Spring City, PA, <sup>5</sup>J&M Consulting, Granville,

NY, <sup>6</sup>PBI Gordon, Overland Park, KS  
(83)

**09:00 AM** HALOSULFURON AND  
SULFENTRAZONE COMBINATIONS  
FOR FALSE-GREEN KYLLINGA  
(*KYLLINGA GRACILLIMA*)  
CONTROL. Daniel P. Tuck\*<sup>1</sup>,  
Matthew T. Elmore<sup>1</sup>, Charles A.  
Silcox<sup>2</sup>; <sup>1</sup>Rutgers University, New  
Brunswick, NJ, <sup>2</sup>AMVAC Chemical  
Corporation, Lincoln University, PA  
(84)

**09:15 AM** TEMPERATURE AND HEAT UNITS  
INFLUENCE ZOYSIAGRASS  
RESPONSE TO GLYPHOSATE AND  
GLUFOSINATE. Shawn Askew\*,  
Jordan M. Craft; Virginia Tech,  
Blacksburg, VA (85)

**09:30 AM** ANNUAL BLUEGRASS CONTROL  
WITH ORGANIC HERBICIDES.  
Clebson G. Goncalves\*, Shawn  
Askew; Virginia Tech, Blacksburg, VA  
(86)

**09:45 AM** WEED ENCROACHMENT INTO A  
FINE FESCUE MIXTURE AFFECTED  
BY DIFFERENT SEEDING TIMINGS.  
Bradley S. Park\*; Rutgers University,  
New Brunswick, NJ (87)

**10:00 AM** FACTORS INFLUENCING THE  
EFFICACY OF NONSELECTIVE  
CONTACT HERBICIDES. Andrew F.  
Senesac\*<sup>1</sup>, Irene Tsontakis-Bradley<sup>2</sup>;  
<sup>1</sup>Cornell Cooperative Extension of  
Suffolk County, Riverhead, NY,  
<sup>2</sup>Cornell Cooperative Extension of  
Suffolk County, Riverhead, NY (88)

**10:15 AM** FLORPYRAUXIFEN AND  
FLUMETSULAM SAFETY AND  
EFFICACY IN FRASER FIR  
PRODUCTION. Joseph C. Neal\*<sup>1</sup>,  
Christopher D. Harlow<sup>1</sup>, Jeff Owen<sup>2</sup>;  
<sup>1</sup>North Carolina State University,  
Raleigh, NC, <sup>2</sup>North Carolina State  
University, Mills River, NC (89)

- 10:30 AM** EFFICACY OF GLYPHOSATE ALTERNATIVE POST-EMERGENCE HERBICIDES. Anthony L. Witcher\*<sup>1</sup>, Stephen C. Marble<sup>2</sup>; <sup>1</sup>Tennessee State University, McMinnville, TN, <sup>2</sup>University of Florida - Mid Florida Research and Education Center, Apopka, FL (90)
- 10:45 AM** RESPONSE OF CONTAINER-GROWN NURSERY CROPS TO WEED COMPETITION. Jeffrey Derr\*<sup>1</sup>, Shelby Williford<sup>2</sup>, Aman Rana<sup>1</sup>; <sup>1</sup>Virginia Tech, Virginia Beach, VA, <sup>2</sup>North Carolina State University, Raleigh, NC (91)

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***THURSDAY MORNING JANUARY 6***

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**Agronomic Crops**

LOCATION: Salon C/D  
TIME: 11:00 AM - 12:45 PM  
Eastern Time  
MODERATOR: Vijay Singh  
Virginia Tech  
Painter, VA  
CO-MODERATOR: Ramon G. Leon  
North Carolina State  
University  
Raleigh, NC

**\*SPEAKER**

- 11:00 AM** UNMANNED AERIAL SYSTEM-BASED HERBICIDE APPLICATIONS IN ROW-CROPS. Vijay Singh\*<sup>1</sup>, Dhiraj Srivastava<sup>1</sup>, Vipin Kumar<sup>1</sup>, William Reynolds<sup>2</sup>; <sup>1</sup>Virginia Tech, Painter, VA, <sup>2</sup>Leading Edge Aerial Technologies, New Smyrna Beach, FL (92)
- 11:15 AM** EMERGING ISSUES WITH HERBICIDE RESISTANT WEEDS IN NORTH CAROLINA. Eric A. Jones<sup>1</sup>, Charlie W. Cahoon<sup>1</sup>, Jose H.

Scarparo de Sanctis<sup>2</sup>, Wesley Everman<sup>\*1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>University of Nebraska-Lincoln, Lincoln, NE (93)

**11:30 AM** HERBICIDE TANK MIXES FOR PALMER AMARANTH AND GRASS WEED CONTROL IN SOYBEANS. Alan W. Leslie<sup>\*1</sup>, Ben Beale<sup>2</sup>; <sup>1</sup>University of Maryland, College Park, MD, <sup>2</sup>University of Maryland, Leonardtown, MD (94)

**11:45 AM** LEVERAGING AN AREA-WIDE RESEARCH NETWORK TO ASSESS EFFECTS OF RYE COVER CROPS AND HERBICIDE PROGRAMS ON WEED COMMUNITIES AND SOYBEAN YIELD. Eugene P. Law<sup>\*1</sup>, Steven Brian Mirsky<sup>2</sup>, Mark VanGessel<sup>3</sup>, Victoria Ackroyd<sup>4</sup>, Muthukumar V. Bagavathiannan<sup>5</sup>, Kevin W. Bradley<sup>6</sup>, William S. Curran<sup>7</sup>, Adam Davis<sup>8</sup>, Jeffrey Evans<sup>9</sup>, Wesley Everman<sup>10</sup>, Michael L. Flessner<sup>11</sup>, Nicholas R. Jordan<sup>12</sup>, Lauren M. Lazaro<sup>13</sup>, Ramon G. Leon<sup>10</sup>, John Lindquist<sup>14</sup>, Jason K. Norsworthy<sup>15</sup>, Lovreet S. Shergill<sup>16</sup>; <sup>1</sup>University of Delaware, Beltsville, MD, <sup>2</sup>USDA ARS, Beltsville, MD, <sup>3</sup>University of Delaware, Georgetown, DE, <sup>4</sup>University of Maryland, College Park, MD, <sup>5</sup>Texas A&M University, College Station, TX, <sup>6</sup>University of Missouri, Columbia, MO, <sup>7</sup>Penn State University, Bozeman, MT, <sup>8</sup>University of Illinois, Department of Crop Sciences, Urbana, IL, <sup>9</sup>Farmscape Analytics, Concord, NH, <sup>10</sup>North Carolina State University, Raleigh, NC, <sup>11</sup>Virginia Tech, Blacksburg, VA, <sup>12</sup>University of Minnesota, St. Paul, MN, <sup>13</sup>Louisiana State University AgCenter, Baton Rouge, LA, <sup>14</sup>University of Nebraska, Lincoln, NE, <sup>15</sup>University of Arkansas, Fayetteville, AR, <sup>16</sup>Montana State University, Huntley, MT (95)

**12:00 PM** RESIDUAL HERBICIDE PROGRAMS FOR WATERHEMP MANAGEMENT

IN ALFALFA. John M. Wallace\*<sup>1</sup>, Mark J. Renz<sup>2</sup>, Erin E. Burns<sup>3</sup>, Roger Becker<sup>4</sup>; <sup>1</sup>Penn State University, University Park, PA, <sup>2</sup>University of Wisconsin Madison, Madison, WI, <sup>3</sup>Michigan State University, East Lansing, MI, <sup>4</sup>University of Minnesota, St Paul, MN (96)

**12:15 PM** WHAT'S NEW IN INDUSTRY. Jaime Cummings\*<sup>1</sup>, Seth A. Strom<sup>2</sup>, James C. Holloway Jr<sup>3</sup>, Jafe D. Weems<sup>4</sup>, Peter Eure<sup>5</sup>, Dane L. Bowers<sup>6</sup>, Mark Kitt<sup>6</sup>; <sup>1</sup>Syngenta, Trumansburg, NY, <sup>2</sup>Syngenta, Urbana, IL, <sup>3</sup>Syngenta Crop Protection, LLC, Jackson, TN, <sup>4</sup>Syngenta, Troy, IL, <sup>5</sup>Syngenta Crop Protections, Greensboro, NC, <sup>6</sup>Syngenta, Greensboro, NC (97)

**12:30 PM** BETTER TOGETHER: BICYCLOPYRONE AND MESOTRIONE ENHANCE WEED CONTROL IN ACURON GT. Craig Austin\*; Syngenta, Greensboro, NC (98)

***ADJOURN***

# AUTHOR INDEX

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