

**NORTHEASTERN WEED
SCIENCE SOCIETY
CONFERENCE
*2024***



**Boston, MA; January 8-11, 2024
Hyatt Regency Boston**

IMPORTANT DEADLINES

Slides Uploads:

Upload your slides file to your submitted title page at weedscimeetingabstract.com

Student Contest Oral Presentations:

January 6, 2024 by 11:59 PM

Other Presentations:

January 6, 2024 by 11:59 PM

Abstract Submission:

Upload your abstract to your submitted title page at weedscimeetingabstract.com

All Abstracts due January 4, 2024 by 11:59 PM

SUSTAINING MEMBERS 2024

NEWSS would like to thank the individuals and organizations that help sustain our operations.

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SILVER



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Meeting Location

HYATT REGENCY Boston

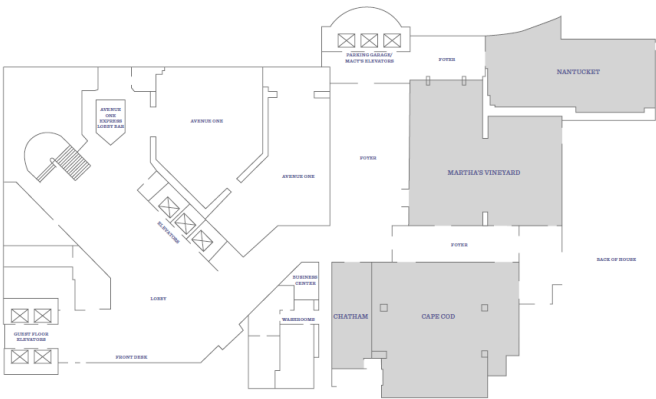
Wifi Access Meeting Rooms:

Network: @Hyatt_Conference

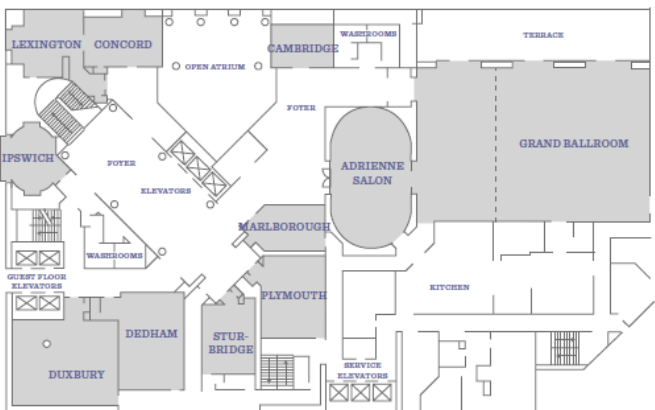
Password: newss

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Main lobby:



4th Floor:



SOCIETY EXECUTIVES

NEWSS

Wes Everman, President

Erin Hitchner, President-elect

Thierry Besancon, Vice President

Jacob Barney, Past President

Larissa Smith, Treasurer

NEWSS PROGRAM COMMITTEE

Erin Hitchner, Program Chair

Thierry Besancon

Katherine Diehl

Eli Russell

CONDENSED PROGRAM

MONDAY JANUARY 8

NEWSS 12:00PM – 3:00PM Plymouth
Board
Meeting

Weed 3:00PM - 4:00 PM Marlborough
Contest
Committee

Endowment 3:00 PM - 3:30 PM Cambridge
Committee

Section 3:30 PM - 4:00 PM Concord
Chair
Committee

Treasurer 3:30 PM - 4:00 PM Lexington
Audit
Committee

Opening 4:00 PM - 6:00 PM Grand
Session & Ballroom
Awards B

Poster 6:00 PM - 7:00 PM Adrienne
Slam Salon
Session

TUESDAY JANUARY 9

Student Poster
(**EVEN**
Authors
present) 7:30 AM - 8:30 AM Grand
Ballroom
A

Research Posters 7:30 AM - 8:30 AM Grand
Ballroom A

Student Oral Presentation 8:45 AM - 10:30 AM Grand
Ballroom
B

Presentation
Student Oral Presentation 10:45 AM - 11:45 AM Grand
Ballroom
B

WORKSHOP - Grad Student Lunch 12:00 PM - 1:30 PM Martha's
Vineyard

Student Oral Presentation 1:45 PM - 3:45 PM Grand
Ballroom
B

SYMPOSIUM Connecting Across Difference: Building Skills for Communicating with the Public 4:00 PM - 6:00 PM Grand
Ballroom
B

Dessert Social 9:00 PM - 11:00 PM Adrienne
Salon

WEDNESDAY JANUARY 10

Student Poster
(**ODD**
Authors
present) 7:00 AM - 8:00 AM Grand
Ballroom A

Weed Ecology &
Invasive
Species 8:00 AM - 9:30 PM Grand
Ballroom
B

Agronomic Crops I 9:45 AM - 12:00 PM Grand
Ballroom
B

Agronomic Crops
Roundtable 1:15 PM - 2:00 PM Grand
Ballroom
B

Turf,
Ornamental,
and Non-
Crop -
Roundtable 1:15 PM - 2:15 PM Plymouth

Fruit,
Vegetable,
and Tree
Crops
Roundtable 2:00 PM - 2:30 PM Grand
Ballroom
B

Turf,
Ornamental,
and Non-
Crop I 2:30 PM - 4:00 PM Plymouth

Fruit,
Vegetable,
and Tree
Crops 2:45 PM - 4:15 PM Grand
Ballroom
B

Business Meeting 4:30 PM - 5:30 PM Grand Ballroom B

NEWSS Social & Student Quiz Bowl 5:30 - 6:30 PM Grand Ballroom B

THURSDAY JANUARY 11

Past President's Breakfast 7:00 AM - 8:00 AM Plymouth

Agronomic Crops II 8:00 AM - 9:00 AM Grand Ballroom B

Turf, Ornamental, and Non-Crop II 9:30 AM - 11:00 AM Grand Ballroom B

NEWSS Board Meeting 11:30 AM - 2:00 PM Plymouth

EXPANDED PROGRAM

Monday Evening, January 8

NEWSS Opening Session

LOCATION: Grand Ballroom B
TIME: 4:00 PM - 6:00 PM
Eastern Time
MODERATOR: Erin Hitchner
Syngenta
Elmer, NJ

Welcome and Keynote Address

Winton Pitcoff
Deputy Commissioner/Legislative Policy
Director

Massachusetts Department of
Agricultural Resources

Presidential Addresses

Wes Everman

NEWSS Awards

NEWSS Fellow

Award of Merit

Outstanding Researcher Award

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

*M.Garry Schnappinger Award of
Service*

NEWSS Social

LOCATION: Adrienne Salon
TIME: 6:00 PM - 7:00 PM
Eastern Time

TUESDAY MORNING JANUARY 9

RESEARCH POSTERS

LOCATION: Grand Ballroom A
TIME: 07:30 AM - 08:30 AM
Eastern Time
CHAIR: Anthony L. Witcher
Tennessee State
University
McMinnville, TN

***PRESENTER**

RESPONSES OF WEEDS AND MICROARTHROPOD COMMUNITIES TO ZASSO ELECTRICAL WEEDING. Aleah L. Butler-Jones^{*1}, Elizabeth C. Maloney², John Owens¹, Gregory M. Peck¹, Kyle Wickings², Marcelo L. Moretti³, Brad Hanson⁴, Lynn M. Sosnoskie²; ¹Cornell University, Ithaca, NY, ²Cornell University, Geneva, NY, ³Oregon State University, Corvallis, OR, ⁴University of California, Davis, Davis, CA (1)

EFFICACY AND SAFETY OF PYRIDATE IN MID-ATLANTIC SWEET CORN. Lynn M. Sosnoskie^{*1}, Thierry E. Besancon², Mark J. VanGessel³, Dwight Lingenfelter⁴; ¹Cornell University, Geneva, NY, ²Rutgers University, Chatsworth, NJ, ³University of Delaware, Georgetown, DE, ⁴Penn State University, University Park, PA (2)

PRE-TRANSPLANT APPLIED FLUMIOXAZIN, OXYFLUORFEN, AND SULFENTRAZONE EFFICACY AND SAFETY IN CABBAGE AND BROCCOLI IN NEW YORK AND NEW JERSEY. Lynn M. Sosnoskie^{*1}, Thierry E. Besancon²; ¹Cornell University, Geneva, NY, ²Rutgers University, Chatsworth, NJ (3)

EVALUATION OF THE AUTONOMOUS NAO OZ ROBOT FOR WEED CONTROL IN SEEDED CORN AND TRANSPLANTED CABBAGE CROPS. Wesley M. Bouchelle^{*1}, Carrie Mansue¹, Lynn M. Sosnoskie², Thierry E. Besancon¹; ¹Rutgers University, Chatsworth, NJ, ²Cornell University, Geneva, NY (4)

WEED CONTROL AND FIELD CORN TOLERANCE WITH SOIL ADJUVANTS MIXED WITH RESIDUAL HERBICIDE AT PLANTING. Lynn M. Sosnoskie¹, Wesley M. Bouchelle², Thierry E. Besancon*²; ¹Cornell University, Geneva, NY, ²Rutgers University, Chatsworth, NJ (5)

ELUCIDATING WEED COMPETITION AND MANAGEMENT IN SOUTH CAROLINA HEMP. Lynn M. Sosnoskie¹, Matthew A. Cutulle², Harrison T. Campbell*²; ¹Cornell University, Geneva, NY, ²Clemson University, Charleston, SC (6)

IR-4 PROJECT: SUCCESS AND BENEFITS TO SPECIALTY CROP GROWERS. Roger B. Batts*, Alice Axtell, Jaimin Patel, Jerry Baron, Debbie Carpenter, Hannah Ross; IR-4 Project HQ, NC State University, Raleigh, NC (7)

WEED AND CHRISTMAS TREE RESPONSE TO TOPRAMEZONE HERBICIDE. Jatinder S. Aulakh*¹, Vipin Kumar²; ¹The Connecticut Agricultural Experiment Station, Windsor, CT, ²Cornell University, Ithaca, NY (8)

CONTROL OF GLYPHOSATE-RESISTANT COMMON WATERHEMP (AMARANTHUS TUBERCULATUS) IN 2,4-D/GLYPHOSATE/GLUFOSINATE-RESISTANT SOYBEANS IN NEW YORK. Vipin Kumar*¹, Mike Stanyard², Mike Hunter³, Lynn M. Sosnoskie⁴, Jatinder S. Aulakh⁵; ¹Cornell University, Ithaca, NY, ²Cornell University, Newark, NY, ³Cornell University, Watertown, NY, ⁴Cornell University, Geneva, NY, ⁵The Connecticut Agricultural Experiment Station, Windsor, CT (9)

DOES PERENNIAL AND COVER CROP DIVERSITY INFLUENCE MICROBIALLY-MEDIATED WEED SEED MORTALITY? Kara E. Eckert*, Carolyn Lowry, Eric Larson, Sharifa Crandall, Estelle Couradeau; Penn State University, University Park, PA (10)

ARE ORGANIC HERBICIDES EFFECTIVE FOR BURNDOWN PRIOR TO CROP ESTABLISHMENT? Dwight Lingenfelter*; Penn State University, University Park, PA (11)

EFFICACY OF TIAFENACIL +/- GLUFOSINATE ON SUMMER ANNUAL WEEDS. Christopher D. Harlow*, Joe C. Neal; North Carolina State University, Raleigh, NC (12)

OPTIONS FOR HORSENETTLE CONTROL IN LANDSCAPE AND NURSERY SITES. Joseph C. Neal*, Christopher D. Harlow; North Carolina State University, Raleigh, NC (13)

INCENTIVIZING PRODUCTION OF CLIMATE SMART LEAFY GREENS IN SOUTH CAROLINA. Matthew A. Cutulle*¹, Brian Ward¹, Kari Buck², Lacy Barnette³, Jhessye Moore-Thomas³, Kelly Flynn², Paula Agudelo²; ¹Clemson University, Charleston, SC, ²Clemson University, Clemson, SC, ³Clemson, Columbia, SC (14)

DELAYED CEREAL RYE TERMINATION INFLUENCES WEED RECRUITMENT: A REGIONAL PERSPECTIVE. Grant M. Hoffer*¹, John M. Wallace², Karla L. Gage³, Mark J. VanGessel⁴, John Lindquist⁵, Wesley Everman⁶, Erin Haramoto⁷, Eugene P. Law⁸, Nicholas T. Basinger⁹, Eric J. Miller¹⁰; ¹Pennsylvania State University, University Park, PA, ²Penn State University, University Park, PA, ³Southern Illinois University Carbondale, Carbondale, IL, ⁴University of Delaware, Georgetown, DE, ⁵University of Nebraska, Lincoln, NE, ⁶North Carolina State University, Raleigh, NC, ⁷University of Kentucky, Lexington, KY, ⁸University of Delaware, Beltsville, MD, ⁹The University of Georgia, Athens, GA, ¹⁰Southern Illinois University, Carbondale, IL (15)

SMALL CARPETGRASS (ARTHRAOXON HISPIDUS) IS SUSCEPTIBLE TO COMMONLY USED PRE AND POST NON-CROP HERBICIDES. Arthur E. Gover*; Penn State, University Park, PA (16)

MANAGING AN INVASIVE KNAPWEED (CENTAUREA NIGRANS) IN COOL-SEASON PASTURES. Rakesh S. Chandran*; West Virginia University, Morgantown, WV (17)

AN INTEGRATED APPROACH FOR THE RESTORATION OF TEMPERATE GRASSLANDS INVADED BY AN NASSELLA TRICHOTOMA. Talia J. Humphries*; Texas A&M University, College Station, TX (18)

2023 SURVEY RESULTS FOR THE MOST COMMON AND TROUBLESOME WEEDS IN GRASS CROPS, PASTURE AND TURF. Cynthia Sias¹, Annu Kumari², Lee Van Wychen*³; ¹Virginia Tech, Blacksburg, VA, ²Crop, Soil & Environmental Sciences Department, Auburn University, Auburn, AL, ³Weed Science Society of America, Alexandria, VA (19)

ADVANCING WEED SCIENCE RESEARCH, EXTENSION, AND EDUCATION: NIFA GRANTS AND PANEL REVIEWER OPPORTUNITIES. Annu Kumari¹, Cynthia Sias², James Kells³, Vijay Nandula⁴, Lee Van Wychen*⁵; ¹Crop, Soil & Environmental Sciences Department, Auburn University, Auburn, AL, ²Virginia Tech, Blacksburg, VA, ³Michigan State University, East Lansing, MI, ⁴USDA, Stoneville, MS, ⁵Weed Science Society of America, Alexandria, VA (20)

TUESDAY MORNING JANUARY 9

POSTER - Student Poster

****EVEN Authors Present****

LOCATION: Grand Ballroom A
TIME: 07:30 AM - 08:30 AM
Eastern Time
CHAIR: Anthony L. Witcher
Tennessee State
University
McMinnville, TN

***PRESENTER † STUDENT CONTEST**

†A MUTATION IN A TRANSCRIPTION FACTOR IMPARTS NON-TARGET SITE HERBICIDE RESISTANCE IN RICE. Srishti Gupta*; Colorado State University, Fort Collins, CO (21)

†CROP AND WEED DETECTION USING MACHINE LEARNING. Rutvij S. Wamanse*¹, Dhiraj Srivastava², Fatemeh Esmailbeiki³, Vijay Singh²; ¹Eastern Shore Agricultural Research and Extension Center, Virginia Tech, Painter, VA,

²Virginia Tech, Painter, VA, ³Virginia Tech, Blacksburg, VA (22)

†EVALUATING REDUCED TILLAGE WITH A LIVING MULCH AS AN IPM TOOL IN BROCCOLI PRODUCTION. Carrie Mansue*¹, Dwayne D. Joseph², Wesley M. Bouchelle¹, Cerruti Rr Hooks³, Thierry E. Besancon¹; ¹Rutgers University, Chatsworth, NJ, ²University of Maryland, Chestertown, MD, ³University of Maryland, College Park, MD (23)

†HERBICIDE RESISTANT REDROOT PIGWEED POPULATIONS IN NORTH CAROLINA. Ronel J. Argueta*; North Carolina State University, Raleigh, NC (24)

†INVESTIGATING EFFECTS OF MILKWEED ESTABLISHMENT STRATEGY ON RHIZOSPHERE COMMUNITY ASSEMBLY. Linnea C. Smith*¹, Antonio DiTommaso¹, Jenny Kao-Kniffin²; ¹Soil and Crop Sciences Section, School of Integrative Plant Science, Cornell University, Ithaca, NY, ²Horticulture Section, School of Integrative Plant Science, Cornell University, Ithaca, NY (25)

†MULTIPLE HERBICIDE-RESISTANT ITALIAN RYEGRASS IN VIRGINIA. Milos Viric*¹, Akashdeep Singh Brar¹, Vipin Kumar², Michael L. Flessner³, Vijay Singh¹; ¹Virginia Tech, Painter, VA, ²University of Nebraska-Lincoln, Lincoln, NE, ³Virginia Tech, Blacksburg, VA (26)

†PERSISTENCE AND RELOCATION OF DISLODGABLE HERBICIDE RESIDUE FROM SIMULATED RAINFALL FOLLOWING GLYPHOSATE TREATMENT TO DORMANT ZOYSIAGRASS TURF. Navdeep Godara*, Clebson G. Goncalves, Jordan M. Craft, Shawn Askew; Virginia Tech, Blacksburg, VA (27)

†PHYTOENE DESATURASE INHIBITION WITH TOPICAL APPLICATIONS OF SIRNA. Caroline E. Barrett*, Ramsey Lewis, Ralph Dewey, Ramon G. Leon; North Carolina State University, Raleigh, NC (28)

†POSTEMERGENCE HERBICIDES APPLIED IN CONJUNCTION WITH NITROGEN FOR FALSE-GREEN KYLLINGA (KYLINGA GRACILLIMA) CONTROL. Katherine H. Diehl*, Trevor S.

Watson, Matthew T. Elmore, Daniel P. Tuck;
Rutgers University, New Brunswick, NJ (29)

†REDUCED ATRAZINE RATES FOR WEED
CONTROL IN CORN. Akashdeep Singh Brar*¹,
Milos Viric¹, Mark J. VanGessel², Kurt M. Vollmer³,
Vijay Singh¹; ¹Virginia Tech, Painter, VA,
²University of Delaware, Georgetown, DE,
³University of Maryland, Queenstown, MD (30)

†RESPONSE OF HERBICIDE-RESISTANT
ANNUAL BLUEGRASS BIOTYPES TO
ENDOTHALL. Juan Romero*, John M. Peppers,
Shawn Askew; Virginia Tech, Blacksburg, VA (31)

†CROP DIVERSITY AND COVER CROP
MANAGEMENT IMPACTS ON WEED
ABUNDANCE IN FORAGE GRAIN CROP
SYSTEM. Noelle A. Connors*¹, John M. Wallace²,
Heather Karsten²; ¹Pennsylvania State University,
State College, PA, ²Penn State University,
University Park, PA (32)

†SEED KILL OF PROBLEMATIC WEED
SPECIES IN WHEAT AND SOYBEAN BY TWO
SEED IMPACT MILLS. Eli C. Russell*, Kevin
Bamber, Michael L. Flessner; Virginia Tech,
Blacksburg, VA (33)

†STANDARDIZATION OF UNMANNED AERIAL
SYSTEM-BASED HERBICIDE APPLICATION IN
CORN. Fatemeh Esmailbeiki*¹, Dhiraj
Srivastava², Daniel Martin³, Vijay Singh¹; ¹Virginia
Tech, Eastern Shore Agricultural Research And
Extension Centre, VA, ²Donald Danforth plant
science center, St Louis, MO, ³USDA, College
Station, TX (34)

†STATEWIDE SCREEN OF NORTH CAROLINA
ITALIAN RYEGRASS (LOLIUM MULTIFLORUM)
POPULATIONS WITH RESIDUAL HERBICIDES.
Diego J. Contreras*, Jackson W. Alsdorf, Ronel J.
Argueta, Edgar Posadas, Colden Bradshaw,
Wesley Everman; North Carolina State University,
Raleigh, NC (35)

†SURVEY OF HERBICIDE RESISTANT PALMER
AMARANTH POPULATIONS IN NORTH
CAROLINA. Jackson W. Alsdorf*, Diego J.
Contreras, Ronel J. Argueta, Colden Bradshaw,
Edgar Posadas, Wesley Everman; North Carolina
State University, Raleigh, NC (36)

†USING UV-FLUORESCENT DYE TO MEASURE MULTIPASS DEPOSITION PATTERNS OF AERIAL AND GROUND APPLICATION EQUIPMENT. Daewon Koo*, Navdeep Godara, Juan Romero, Shawn Askew; Virginia Tech, Blacksburg, VA (37)

†WEED EMERGENCE TIMING IN A WARMER WORLD. Nasib Koirala*¹, Carolyn Lowry², Richard G. Smith³, Alexandra Contosta³; ¹The Pennsylvania State University, State College, PA, ²The Pennsylvania State University, University Park, PA, ³University of New Hampshire, Durham, NH (38)

†WEED IDENTIFICATION USING IMAGE ANALYSIS AND MACHINE LEARNING. Akhilesh Sharma*, Vipin Kumar, Louis Longchamps; Cornell University, Ithaca, NY (39)

†CORN YIELD LOSS PREDICTION WITH UAV MEASURED CROP-WEED LEAF COVER. Avi S. Goldsmith*, Robert Austin, Charlie W. Cahoon, Ramon G. Leon; North Carolina State University, Raleigh, NC (40)

TUESDAY MORNING JANUARY 9

ORAL - Student Oral Presentation

LOCATION: Grand Ballroom B
TIME: 8:30 AM - 12:00 PM
Eastern Time
MODERATOR: Katherine H. Diehl
Rutgers University
New Brunswick, NJ
CO-MODERATOR: Eli C. Russell
Virginia Tech
Blacksburg, VA

***SPEAKER † STUDENT CONTEST**

08:30 AM †CONFIRMATION OF AN ATRAZINE RESISTANT PALMER AMARANTH POPULATION IN NORTH CAROLINA. Ronel J. Argueta*; North

Carolina State University, Raleigh, NC
(41)

- 08:45 AM** †BEYOND BIOMASS: WEED SUPPRESSION BENEFITS OF CEREAL RYE AT HIGH SEEDING RATES. Laurel Wellman*¹, John M. Wallace²; ¹The Pennsylvania State University, State College, PA, ²Penn State University, University Park, PA (42)
- 09:00 AM** †INFLUENCE OF LASER INTENSITY ON SMOOTH CRABGRASS CONTROL IN CREEPING BENTGRASS PUTTING GREENS. Juan Romero*, Shawn Askew; Virginia Tech, Blacksburg, VA (43)
- 09:15 AM** †WEED CONTROL AND WATERMELON YIELD RESPONSE TO COVER-CROP TERMINATION TIMING. Carrie Mansue*¹, Thierry E. Besancon¹, Kurt M. Vollmer²; ¹Rutgers University, Chatsworth, NJ, ²University of Maryland, Queenstown, MD (44)
- 09:30 AM** †CONFIRMATION OF GLYPHOSATE RESISTANT PALMER AMARANTH (AMARANTHUS PALMERI) BIOTYPES IN NEW YORK AND RESPONSES TO ALTERNATIVE CHEMISTRIES. Aleah L. Butler-Jones*¹, Elizabeth C. Maloney², Sarah Morran³, Todd A. Gaines³, Lynn M. Sosnoskie²; ¹Cornell University, Ithaca, NY, ²Cornell University, Geneva, NY, ³Colorado State University, Fort Collins, CO (45)
- 09:45 AM** †SEED IMPACT MILLS' WEED SEED KILL RATE AND HORSEPOWER DRAW AS INFLUENCED BY CHAFF FLOW RATE AND MOISTURE. Eli C. Russell*, Kevin Bamber, Michael L. Flessner; Virginia Tech, Blacksburg, VA (46)
- 10:00 AM** **Break**

- 10:15 AM** †EVALUATING HERBICIDE TOLERANCE ON COSMOS BIPINNATUS. Jose H. de Sanctis¹, Brock A. Dean¹, Jacob C. Forehand², James H. Lee*¹, Zachary R. Taylor³, Charlie W. Cahoon¹; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Raleigh, NC, ³North Carolina State University, Sanford, NC (47)
- 10:30 AM** †INVESTIGATING THE MECHANISM OF PARAQUAT RESISTANCE IN ITALIAN RYEGRASS POPULATIONS FROM NORTH CAROLINA. Jose H. de Sanctis*¹, Charlie W. Cahoon¹, Travis W. Gannon¹, Wesley Everman¹, Katherine M. Jennings¹, Zachary R. Taylor²; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Sanford, NC (48)
- 10:45 AM** †CHARACTERIZING VARIOUS SPRAYER SETTINGS ON JOHN DEERE SEE & SPRAY™. Diego J. Contreras*¹, Lauren M. Lazaro², William L. Patzoldt², Jackson W. Alsdorf¹, Ronel J. Argueta¹, Edgar Posadas¹, Wesley Everman¹; ¹North Carolina State University, Raleigh, NC, ²Blue River Technology, Sunnyvale, CA (49)
- 11:00 AM** †POLLINATORS ALTER THEIR FORAGING BEHAVIOR DEPENDING ON HERBICIDE MODE OF ACTION AND PLACEMENT ON WHITE CLOVER. Navdeep Godara*, Shawn Askew; Virginia Tech, Blacksburg, VA (50)
- 11:15 AM** †EXPLORING ANAEROBIC SOIL DISINFESTATION AS NEW NON-CHEMICAL TACTIC FOR WEED MANAGEMENT IN ORGANIC WATERMELON PRODUCTION. Sohaib Chattha*, Matthew A. Cutulle; Clemson University, Charleston, SC (51)

11:30 AM †SCREENING STRATEGIES AND HERITABILITY ESTIMATION FOR ALLELOPATHY IN RYE (SECALE CEREALE). Aliyah Warris*¹, James B. Holland², Virginia M. Moore³, S Chris Reberg-Horton¹, Steven B. Mirsky⁴, Ramon G. Leon¹; ¹North Carolina State University, Raleigh, NC, ²USDA ARS, North Carolina State University, Raleigh, NC, ³Cornell University, Ithaca, NY, ⁴USDA ARS, Beltsville, MD (52)

TUESDAY AFTERNOON JANUARY 9

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

LOCATION: Martha's Vineyard
TIME: 12:00 PM - 1:30 PM
Eastern Time
MODERATOR: Katherine H. Diehl
Rutgers University
New Brunswick, NJ
CO-MODERATOR: Eli C. Russell
Virginia Tech
Blacksburg, VA

TUESDAY AFTERNOON JANUARY 9

ORAL - Student Oral Presentation

LOCATION: Grand Ballroom B
TIME: 1:45 PM - 4:30 PM
Eastern Time
MODERATOR: Katherine H. Diehl
Rutgers University
New Brunswick, NJ
CO-MODERATOR: Eli C. Russell
Virginia Tech

Blacksburg, VA

*SPEAKER † STUDENT CONTEST

01:45 PM †UAV SPRAY HEIGHT INFLUENCES DROPLET VAPORIZATION AND WEED CONTROL EFFICACY. Daewon Koo*, Navdeep Godara, Juan Romero, John M. Peppers, Shawn Askew; Virginia Tech, Blacksburg, VA (53)

02:00 PM †HIGHER SEEDING RATES FOR WEED SUPPRESSION IN ORGANIC KERNZA (INTERMEDIATE WHEATGRASS) PRODUCTION. Natasha Djuric*¹, Antonio DiTommaso², Jacob Jungers³, Tim Crews⁴, Jose Franco⁵, Leonardo Deiss⁶, Steve Culman⁷, Matthew Ryan⁸; ¹Cornell University, Soil and Crop Sciences, Ithaca, NY, ²Soil and Crop Sciences Section, School of Integrative Plant Science, Cornell University, Ithaca, NY, ³University of Minnesota, Twin Cities, MN, ⁴The Land Institute, Salina, KS, ⁵Dairy Forage Research Center, Madison, WI, ⁶The Ohio State University, Wooster, OH, ⁷Washington State University, Pullman, WA, ⁸Cornell University, Ithaca, NY (54)

02:15 PM †IMPACT OF PARTIAL SALTWATER AGROECOSYSTEMS ON WEED COMPETITION IN WATERMELON. Matthew A. Cutulle¹, Brian Ward², Joseph F. Bazzle*², Sandra Branham³, Amnon Levi⁴, Hailey Schopp²; ¹Clemson University, Charleston, SC, ²Clemson University, Clemson, SC, ³Clemson, Charleston, SC, ⁴USDA-USVL, Charleston, SC (55)

02:30 PM **Break**

02:45 PM †GOOSEGRASS (ELEUSINE INDICA) ECOTYPES AFFECTED BY CULTURAL MANAGEMENT AND PLANT GROWTH REGULATORS IN TURFGRASS. Katherine H. Diehl*,

Matthew T. Elmore; Rutgers
University, New Brunswick, NJ (56)

- 03:00 PM** †SURVEY OF HERBICIDE RESISTANT ITALIAN RYEGRASS POPULATIONS IN NORTH CAROLINA. Jackson W. Alsdorf*, Diego J. Contreras, Ronel J. Argueta, Colden Bradshaw, Edgar Posadas, Wesley Everman; North Carolina State University, Raleigh, NC (57)
- 03:15 PM** †ESTABLISHMENT AND WINTER SURVIVAL OF JOHNSONGRASS (SORGHUM HALEPENSE) IN CENTRAL NEW YORK STATE. Ryan P. O'Briant*¹, Lynn M. Sosnoskie², Antonio DiTommaso³; ¹Cornell University - Soil and Crop Sciences, Brooktondale, NY, ²Cornell University, Geneva, NY, ³Soil and Crop Sciences Section, School of Integrative Plant Science, Cornell University, Ithaca, NY (58)
- 03:30 PM** †USING 3-D IMAGING TO MAP BIOMASS DISTRIBUTION IN COVER CROPS. April M. Dobbs*¹, Avi S. Goldsmith¹, Daniel J. Ginn², Søren K. Skovsen³, Muthukumar V. Bagavathiannan², Steven B. Mirsky⁴, Chris S. Reberg-Horton¹, Ramon G. Leon¹; ¹North Carolina State University, Raleigh, NC, ²Texas A&M University, College Station, TX, ³Aarhus University, Aarhus, Denmark, ⁴USDA ARS, Beltsville, MD (59)

TUESDAY AFTERNOON JANUARY 9

**SYMPOSIUM - Connecting Across
Difference: Building Skills for
Communicating with the Public**

LOCATION: Grand Ballroom B
TIME: 04:00 PM - 06:00 PM
Eastern Time

MODERATOR: Erin Hitchner
Syngenta
Elmer, NJ

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

**NEWSS Endowment
Fundraiser/Dessert Social**

Adrienne Salon

9:00 – 11:00 PM

Thanks to our sponsors!

**Syngenta
BASF
FMC
Corteva**

WEDNESDAY MORNING JANUARY 10

POSTER - Student Poster

****ODD Authors Present****

(reference list above)

LOCATION: Grand Ballroom A
TIME: 07:00 AM - 08:00 AM
Eastern Time
CHAIR: Anthony L. Witcher
Tennessee State
University
McMinnville, TN

WEDNESDAY MORNING JANUARY 10

Weed Ecology and Invasive Species

LOCATION: Grand Ballroom B
TIME: 8:00 AM - 9:30 AM
Eastern Time
MODERATOR: Jacob Barney
Virginia Tech
Blacksburg, VA

***SPEAKER**

- 08:00 AM** PLANTING TIME INFLUENCES ANNUAL FLOWER STRIP ESTABLISHMENT WHEN WEED ABUNDANCE IS LOW. Sophie Westbrook*¹, Scott S. Morris², Rebecca Stup¹, Rosa Xia², Ryleigh Coffey², Antonio DiTommaso²; ¹Cornell University, Ithaca, NY, ²Soil and Crop Sciences Section, School of Integrative Plant Science, Cornell University, Ithaca, NY (60)
- 08:15 AM** IMPACT OF ROOT SEGMENT LENGTH AND PLANTING DEPTH ON VEGETATIVE PROPAGATION OF COMMON MILKWEED (ASCLEPIAS SYRIACA). Rebecca Stup*¹, Sophie Westbrook¹, Antonio DiTommaso²; ¹Cornell University, Ithaca, NY, ²Soil and Crop Sciences Section, School of Integrative Plant Science, Cornell University, Ithaca, NY (61)
- 08:30 AM** AN INTEGRATED APPROACH TOWARDS WEEDS MANAGEMENT. Haroon Ur Rashid*; Dubai Community Management L.L.C (Dubai Holding), Dubai, United Arab Emirates (62)
- 08:45 AM** PARTHENIUM HYSTEROPHORUS L. IN THE AMERICAS: PREDICTING SUITABLE HABITATS BEYOND ITS NATIVE RANGE UNDER FUTURE CLIMATIC CONDITIONS. Sarah E.

Kezar*¹, Asad Shabbir², Antonio DiTommaso³; ¹Cornell University, Ithaca, NY, ²Biosecurity & Food Safety, Department of Regional NSW, New South Wales, Australia, ³Soil and Crop Sciences Section, School of Integrative Plant Science, Cornell University, Ithaca, NY (63)

09:00 AM EFFECTS OF CROP ROTATION ON COMMON WATERHEMP POPULATION DYNAMICS: AN INVESTIGATION USING A PERIODIC MATRIX MODEL. Huong T. X. Nguyen*¹, Matt Liebman²; ¹Cornell University, Ithaca, NY, ²Iowa State University, Ames, IA (64)

09:15 AM RECENT ACTIVITIES OF THE MASSACHUSETTS INVASIVE PLANT ADVISORY GROUP, 2022 - 2023. Randall G. Probst*; University of Massachusetts, Amherst, MA (65)

09:30 AM Break

WEDNESDAY MORNING JANUARY 10

Agronomic Crops I

LOCATION: Grand Ballroom B
TIME: 9:45 AM - 12:00 PM
Eastern Time
MODERATOR: Vijay Singh
Virginia Tech
PAINTER, VA
CO-MODERATOR: Ramon G. Leon
North Carolina State
University
Raleigh, NC

***SPEAKER**

09:45 AM A NOVEL PREMIX OF QUIZALOFOP-P-ETHYL AND GLUFOSINATE-AMMONIUM DEMONSTRATING BROAD-

SPECTRUM WEED CONTROL.
Daniel L. Kunkel*; AMVAC,
Plainsboro, NJ (66)

10:00 AM DEVELOPMENT OF CONVINTRO™
BRAND HERBICIDES FOR
MANAGING AMARANTHUS
SPECIES IN CORN AND SOYBEAN:
FIELD PERFORMANCE UPDATE.
John Buol*, Carl Coburn, Richard
Leitz, Zewei Miao, Emily Scholting;
Bayer, St. Louis, MO (67)

10:15 AM FROM LIBERTY 280 (RACEMIC
GLUFOSINATE AMMONIUM) TO
LIBERTY ULTRA (L-GLUFOSINATE
AMMONIUM) HERBICIDE,
POWERED BY GLU-L
TECHNOLOGY. Liam J. Vincent¹,
Shawn C. Beam*², Eric Schultz¹, Alice
Harris¹, Marcel Kienle³, Ryan
Aldridge¹, Sam Willingham¹, Ingo
Meiners¹, Siyuan Tan⁴; ¹BASF, Rtp,
NC, ²BASF, Boalsburg, PA, ³BASF,
Limburgerhof, Germany, ⁴BASF,
Cary, Nc 27519, Usa, NC (68)

10:30 AM STOREN HERBICIDE – PROVIDING
MORE CONSISTENCY AND
INCREASED LENGTH OF WEED
CONTROL IN CORN. Sudeep A.
Mathew*¹, Mark Kitt²; ¹Syngenta,
Germantown, MD, ²Syngenta,
Greensboro, NC (69)

10:45 AM META-ANALYSIS OF MULTIPLE
CONSERVATION AGRICULTURAL
PRACTICES ON WEED
MANAGEMENT IN THE US
MIDWEST USING AGEVIDENCE.
Maria A. Gannett*; Cornell University
and University of Massachusetts,
Ithaca, NY (70)

11:00 AM CLIMATE CHANGE IMPACTS ON
DAIRY AND FIELD CROP WEED
MANAGEMENT. Caroline
Marschner*¹, Sharon N. Bachman²,
Isabella M. Colucci³, Catalina
Ferreira-Dias Rivas⁴, Rebecca Stup¹,
Claire Liu⁵, Xindi Liu¹, Sophie
Westbrook¹, Antonio DiTommaso⁶;

¹Cornell University, Ithaca, NY,
²Cornell Cooperative Extension, East
Aurora, NY, ³Cornell University, Gray,
ME, ⁴Columbia Mailman School of
Public Health, New York, NY, ⁵Cornell
University, New York, NY, ⁶Soil and
Crop Sciences Section, School of
Integrative Plant Science, Cornell
University, Ithaca, NY (71)

11:15 AM HERBICIDE RESISTANT WEEDS IN
NORTH CAROLINA, THEIR
DISTRIBUTION, AND
MANAGEMENT CONCERNS.
Wesley Everman*¹, Charlie W.
Cahoon¹, Eric Jones², Jose H. de
Sanctis¹, Jackson W. Alsdorf¹, Diego
J. Contreras¹, Ronel J. Argueta¹;
¹North Carolina State University,
Raleigh, NC, ²South Dakota State
University, Brookings, SD (72)

11:30 AM INTEGRATING FLAME WEEDING
FOR EARLY SEASON WEED
CONTROL IN ORGANIC SOYBEAN.
Kurt M. Vollmer*¹, Dwayne D.
Joseph², Alan W. Leslie³; ¹University
of Maryland, Queenstown, MD,
²University of Maryland, Chestertown,
MD, ³University of Maryland, College
Park, MD (73)

WEDNESDAY AFTERNOON JANUARY 10

Turf, Ornamental, and Non-Crop

Roundtable

Location Plymouth
Time 1:15 – 2:15 PM
Moderator Matthew T. Elmore
Rutgers University
New Brunswick, NJ

Agronomic Crops

Roundtable

Location Grand Ballroom B
Time 1:15 – 2:00 PM
Moderator Vijay Singh
Virginia Tech
Painter, VA

Fruit, Vegetable, and Tree Crops

Roundtable

Location Grand Ballroom B
Time 2:00 – 2:30 PM
Moderator Kurt Vollmer
University of Maryland
Queenstown, MD

WEDNESDAY AFTERNOON JANUARY 10

Turf, Ornamental, and Non-Crop I

LOCATION: Plymouth
TIME: 2:30 PM - 4:00 PM
Eastern Time
MODERATOR: Matthew T. Elmore
Rutgers University
New Brunswick, NJ
CO-MODERATOR: David E. Hillger
Corteva Agriscience
Thorntown, IN

***SPEAKER**

02:30 PM AN OVERVIEW OF PYRIMISULFAN PRODUCTS FOR TURF AND ORNAMENTAL WEED CONTROL. Shawn Askew*¹, Eric Reasor², Dale Sanson³; ¹Virginia Tech, Blacksburg, VA, ²PBI Gordon Corporation, Rowlett, TX, ³PBI Gordon Corporation, Kansas City, MO (74)

02:45 PM APPLICATION STRATEGIES USING ARKON (PYRIMISULFAN) FOR CONTROL OF FALSE-GREEN KYLLINGA AND YELLOW NUTSEDGE. Brian A. Aynardi*¹, Matthew T. Elmore², Steven J.

McDonald³, Eric Reasor⁴, Jeffrey W. Marvin⁵, Robert C. Williamson⁶, Chrissie A. Segars⁷; ¹PBI-Gordon Corporation, State College, PA, ²Rutgers University, New Brunswick, NJ, ³Turfgrass Disease Solutions, LLC, Spring City, PA, ⁴PBI Gordon Corporation, Rowlett, TX, ⁵PBI-Gordon Corporation, Overland Park, KS, ⁶PBI-Gordon Corporation, Defiance, OH, ⁷PBI-Gordon Corporation, Bend, OR (75)

03:00 PM SPRING APPLIED PINOXADEN TOLERANCE ON CREEPING BENTGRASS, FINE FESCUE, POA ANNUA, PERENNIAL RYEGRASS, TALL FESCUE AND LITTLE BLUESTEM IN THE MID-ATLANTIC. Steven J. McDonald*; Turfgrass Disease Solutions, LLC, Spring City, PA (76)

03:15 PM CONTROL OPTIONS FOR MULBERRYWEED [FATOUA VILLOSA (THUNB.) NAKAI]. Jeffrey Derr*¹, Aman Rana²; ¹Virginia Tech, Virginia Beach, VA, ²Virginia Tech HRAREC, Virginia Beach, VA (77)

03:30 PM EFFICACY OF FOLIAR APPLICATIONS ON AUTUMN OLIVE. Jeff Jodon*; Penn State University, University Park, PA (78)

03:45 PM CONTROLLING COMMON RAGWEED IN FRASER FIR WITH WHITE CLOVER LIVING MULCH. Joseph C. Neal*¹, Christopher D. Harlow¹, Jeff Owen², Brad Edwards³; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Mills River, NC, ³North Carolina Cooperative Extension, Jefferson, NC (79)

WEDNESDAY AFTERNOON JANUARY 10

Fruit, Vegetable, and Tree Crops

LOCATION: Grand Ballroom B
TIME: 2:45 PM - 4:15 PM
Eastern Time
MODERATOR: Kurt M. Vollmer
University of
Maryland
Queenstown, MD
CO-MODERATOR: Roger B. Batts
IR-4 Project HQ, NC
State University
Raleigh, NC

***SPEAKER**

- 02:45 PM** EVALUATING A METAMITRON AND ETHOFUMESATE PRE-MIX FOR WEED CONTROL AND CROP SAFETY IN TABLE BEETS AND CARROTS. Lynn M. Sosnoskie*; Cornell University, Geneva, NY (84)
- 03:00 PM** WEED CONTROL EFFICACY AND COLE CROPS TOLERANCE TO TANK-MIXED COMBINATION OF CHLOROACETAMIDE HERBICIDES AND OXYFLUORFEN IN NEW YORK AND NEW JERSEY. Lynn M. Sosnoskie¹, Wesley M. Bouchelle², Thierry E. Besancon*²; ¹Cornell University, Geneva, NY, ²Rutgers University, Chatsworth, NJ (85)
- 03:15 PM** IR-4 WEED SCIENCE UPDATE - FOOD CROPS. Roger B. Batts*; IR-4 Project HQ, NC State University, Raleigh, NC (86)
- 03:30 PM** EVALUATING QUINCLORAC FOR USE IN GRAPES IN NEW YORK AND NEW JERSEY. Lynn M. Sosnoskie*¹, Thierry E. Besancon²; ¹Cornell University, Geneva, NY, ²Rutgers University, Chatsworth, NJ (87)
- 03:45 PM** WEED CONTROL AND CROP RESONSE WITH POST-FLOODING DORMANT APPLICATION OF

PENDIMETHALIN, FLURIDONE,
AND SULFENTRAZONE IN
CRANBERRY (VACCINIUM
MACROCAPON). Thierry E.
Besancon*, Wesley M. Bouchelle;
Rutgers University, Chatsworth, NJ
(88)

04:00 PM USE OF SULFENTRAZONE ON
NEW CRANBERRY PLANTS IN
FIELD AND GREENHOUSE
ENVIRONMENTS. Katherine
Ghantous*¹, Hilary A. Sandler²;
¹UMass Amherst, UMass Cranberry
Station, East Wareham, MA, ²UMass
Cranberry Station, East Wareham,
MA (89)

Wednesday Afternoon, January 10

NEWSS BUSINESS MEETING

Location Grand Ballroom B
Time 4:30 – 5:30 PM

Wednesday Evening, January 10

NEWSS Social + Student Quiz Bowl

Location Grand Ballroom B
Game Jacob Barney
Master 5:30 – 6:30 PM
Time

THURSDAY MORNING JANUARY 11

ORAL - Agronomic Crops II

LOCATION: Grand Ballroom B
TIME: 8:00 AM - 9:00 AM
MODERATOR: Vijay Singh
Virginia Tech, VA

CO-MODERATOR: Ramon G. Leon
North Carolina State
University, NC

***SPEAKER**

08:00 AM EIGHT YEARS OF HARVEST WEED SEED CONTROL RESEARCH IN VIRGINIA. Michael L. Flessner*; Virginia Tech, Blacksburg, VA (80)

08:15 AM MANAGING ROLLED-CRIMPED COVER CROPS FOR ORGANIC NO-TILL WHEAT (TRITICUM AESTIVUM). Uriel D. Menalled*¹, Sandra Wayman¹, Terry J. Rose², Christopher Pelzer¹, Matthew Ryan¹; ¹Cornell University, Ithaca, NY, ²Southern Cross University, Lismore, Australia (81)

08:30 AM WEED BIOMASS IN THREE COVER CROP BICULTURES IN THE NORTHEASTERN USA. Huong T. X. Nguyen*¹, Richard G. Smith², Helen Boniface³, K. Ann Bybee-Finley⁴, Heather M. Darby⁵, Sjoerd W. Duiker⁶, Masoud Hashemi⁷, Sarah M. Hirsh⁸, Ivy Krezinski⁵, Ellen B. Mallory⁹, Tosh R. Mazzone⁶, Steven B. Mirsky⁴, Thomas Molloy¹⁰, Arthur Siller⁷, Resham Thapa¹¹, Kate Tully¹², Mark J. VanGessel¹³, John M. Wallace⁶, Nicholas D. Warren¹⁴, Sandra Wayman¹⁵, Mathew R. Ryan¹⁵; ¹Cornell University, Ithaca, NY, ²Natural Resources and Environment, University of New Hampshire, Durham, NH, ³Soil Health Institute, Morrisville, NC, ⁴Sustainable Agricultural Systems Lab, USDA-ARS, Beltsville, MD, ⁵Plant and Soil Science Department, University of Vermont, Burlington, VT, ⁶Department of Plant Science, Pennsylvania State University, University Park, PA, ⁷Stockbridge School of Agriculture, University of Massachusetts-Amherst, Amherst, MA, ⁸Extension Somerset County, University of Maryland, Princess Anne, MD, ⁹School of Food and Agriculture and Cooperative

Extension, University of Maine, Orono, ME, ¹⁰Cooperative Extension, University of Maine, Orono, ME, ¹¹Department of Agricultural and Environmental Sciences, College of Agriculture, Tennessee State University, Nashville, TN, ¹²Plant Science and Landscape Architecture, University of Maryland, College Park, MD, ¹³ Department of Plant and Soil Sciences, University of Delaware, Georgetown, DE, ¹⁴Natural Resources and the Environment, University of New Hampshire, Durham, NH, ¹⁵School of Integrative Plant Sciences - Soil & Crop Sciences, Cornell University, Ithaca, NY (82)

08:45 AM WEED SEED PERSISTENCE WITHIN THE PERENNIAL FORAGE PHASE OF A CROP ROTATION. Carolyn Lowry*; Pennsylvania State University, University Park, PA (83)

THURSDAY MORNING JANUARY 11

ORAL - Turf, Ornamental, and Non-Crop II

LOCATION: Plymouth
TIME: 9:30 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**

09:30 AM PREEMERGENCE HERBICIDE APPLICATION TIMING ON ROOTING CUTTINGS OF NURSERY CROPS. Anthony L. Witcher*¹, Isha Poudel²; ¹Tennessee State University, Mcminville, TN, ²University of Tennessee, Jackson, TN (90)

- 09:45 AM** PRE-EMERGENCE HERBICIDE PROGRAMS FOR JAPANESE STILTGRASS (*MICROSTEGIUM VIMINEUM*) CONTROL. Daniel P. Tuck*, Matthew T. Elmore; Rutgers University, New Brunswick, NJ (91)
- 10:00 AM** ANNUAL BLUEGRASS ENCROACHMENT INTO COOL-SEASON TURFGRASS TRIALS SUBJECTED TO TRAFFIC. Bradley S. Park*, James A. Murphy; Rutgers University, New Brunswick, NJ (92)
- 10:15 AM** BENTGRASS ENCROACHMENT INTO AN ANNUAL BLUEGRASS FAIRWAY VARIES BY CULTIVAR. Matthew T. Elmore*, Daniel P. Tuck; Rutgers University, New Brunswick, NJ (93)
- 10:30 AM** DISSIPATION OF SPRING-APPLIED METHIOZOLIN IN TURFGRASS SYSTEMS. Shawn Askew*¹, John M. Peppers¹, Suk Jin Koo², Ki-Hwan Hwang³; ¹Virginia Tech, Blacksburg, VA, ²Moghu Research Center, Daejeon, South Korea, ³Moghu Research Center Ltd., Daejeon, South Korea (94)

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