



## ***2019 NAISMA-NYISRI CONFERENCE – Saratoga Springs, NY***

Lancaster County Board Meeting

October 31<sup>st</sup> 2018

Thank you for allowing me to attend this year's NAISMA conference. This is a great organization providing awesome opportunities to network with land managers from North America and around the Globe.

***43 U.S. States***

***4 Canadian Provinces***

***6 Countries from 4 Continents***

***"It would take me years of research to obtain the knowledge I have received in 4 days at the NAISMA/NYISRI Conference"***





Monday, September 30, 2019					
7:30 am-9:00 am	Registration and Breakfast with Exhibitors				
8:00 am-9:00 am	NAISMA Committee Meetings				
9:00 am-10:45 am	Welcome Plenary: David Lodge, Cornell University; and Jeff Morrisette, National Invasive Species Council				
10:45 am-11:00 am	Break				
11:00 am-12:30 pm	Tools and Approaches for Invasive Species Decision Making - I	Pathways	Boat Inspection and Decontamination Programs and Standards from East to West	National Invasive Species Awareness Week (NISAW) 2020 Brainstorm	NAISMA Committee Mtgs Weed Free Forage and Gravel Committee
12:30 pm-1:30 pm	Lunch				
1:30 pm-3:00 pm	Tools and Approaches for Invasive Species Decision Making -II	How To Communicate With Policy Makers To Get Results	Advances in eDNA Technology in Aquatic and Terrestrial Systems	Investigating the Health Effects of Glyphosate	Professional Development Committee
3:00 pm-3:30 pm	Break				
3:30 pm-5:00 pm	Applying Science to Policy Decisions	New Invaders in the Northeast and Their Management	An Introduction and Overview of the Aquatic Nuisance Species Task Force and its Regional Panels	Expanding Capacity Through Citizen Science: Train the Trainer Programs	
5:00 pm-7:30 pm	Welcome Reception at the Saratoga Springs History Museum at the Carfield Casino - Featuring a Silent Auction & Taste of New York				
Tuesday, October 1, 2019					
7:00 am-8:00 am	Breakfast with Exhibitors				
8:00 am-9:00 am	Plenary: Alison Catalano, Imperial College; Bernd Blossey, Cornell University				
9:30 am-12:30 pm	Field Trip: Lake George Floating Classroom				NAISMA Committee Mtgs
9:15 am-10:45 am	New Frameworks for Assessing Invasive Species Management	CISMAs, CWMAs, and Other Cooperative Partnerships	Invasive Forest Issues Across the Continent	Creating Customizable Tools for Invasive Species Work	
10:45 am-11:00 am	Break				
11:00 am-12:30 pm	Biocontrol Outreach and Implementation	Sharing Invasive Species Data Among Government, Academia, and NGOs	Management of Invasive Grasses	NAISMA Weed Free Forage and Gravel Program	Marketing & Communications Committee
1:00 pm-4:30 pm	Field Trips: (1) Lake George Floating Classroom (2) Prospect Mountain and Lake George Vista				
2:00 pm - 3:30 pm	Biocontrol I	Terrestrial Invasive Plant Management	PlayCleanGo Summit: Community-Based Social Marketing	Forest Pest Identification	
3:30 pm-3:45 pm	Break with Exhibitors				
3:45 pm-5:15 pm	Biocontrol II	Innovations to Improve Aquatic Invasive Species Prevention and Management	PlayCleanGo Summit: Education and Prevention Tools that Work	How to Use Species Distribution Modeling to Study the Past Future Spread of Non-native Species	
5:15 pm-6:45 pm	Poster Reception				

Wednesday, October 2, 2019					
7:00 am-8:00 am	Breakfast with Exhibitors				
8:00 am-9:00 am	Plenary: Bethany Bradley, University of Massachusetts; Bill Powell, Syracuse University				
9:00 am-9:15 am	Break				
9:15 am-10:45 am	Swallow-wort Biocontrol	Forest Pest Resistance	Monoecious Hydrilla Control Projects- a National Perspective	Using iMap Invasives for Data Collecting and Sharing	NAISMA Committee Mtgs PlayCleanGo Advisory Council
10:45 am-11:00 am	Break				
11:00 am-12:30 pm	Remote Sensing Technologies	Using Research to Inform Spotted Lanternfly (Lycorma delicatula) Management	Aquatic Invasive Species Research	Impacts and Management of Jumping Worms	Biocontrol Committee
12:30 pm - 4:30 pm	Field Trips: (1) Skidmore Woods Rare Plants Walking Tour (12:30pm - 2:30pm) (2) Karner Blue Butterfly Habitat Tour in Saratoga Spa State Park (1:00pm - 3:00pm)				
12:30 pm-1:30 pm	Lunch and NAISMA Annual General Meeting				
1:45 pm-3:15 pm	Session I: Invasive Species Management in a Changing Climate	Forest Pest Management	Aquatic Invasive Management: Novel Tools for Collecting and Analyzing Data	Invasive Species Identification and Management- Part I	
3:15 pm-3:30 pm	Break				
3:30 pm-5:00 pm	Session II: Invasive Species Management in a Changing Climate	Unmanned Aerial System and Other Aerial Devices for Invasive Species Detection, Monitoring and Management	Aquatic Invasive Species Management	Invasive Species Identification and Management- Part II	
5:30 pm-8:00 pm	NAISMA 'Not A Banquet' at the Saratoga Winery (pre-purchased tickets required)				
Thursday, October 3, 2019					
8:30 am-10:00 am	Regional Collaborations to Integrate Science and Management	Public Gardens and Nurseries as Sentinels for Invasive Species	Engaging Industry in Invasive Species Prevention, Monitoring and Management	How do We Implement Climate-Smart Invasive Species Management? Part I	NAISMA Weed Free Forage and Gravel Training-I
10:00 am-10:30 am	Break				
10:30 am-12:00 pm	Restoration	Outreach and Citizen Science	Integrated Pest Management and Invasive Species	How do We Implement Climate-Smart Invasive Species Management? Part II	NAISMA Weed Free Forage and Gravel Training-II
12:30 pm-4:00 pm	Field Trips: (1) A Taste of History Tour at Saratoga State Park (12:30 - 3:00 pm) (2) Saratoga Lake Kayak (3) Saratoga National Historic Park (4) Moreau State Park: Balancing Nature and Recreation				
Friday, October 4, 2019					
Optional Hike of an Adirondacks High Peak					

## NAISMA – North American Invasive Species Management Association Conference in Saratoga Springs, NY

### Monday AM - Plenary Session

**Elise Stefanik - U.S. Representative from New York, Co-Chair of the Invasive Species Caucus**

**Hilary Smith - Senior Advisor for Invasive Species for the U.S. Department of Interior**

#### Pathways

Moderator: Carrie Jean Brown-Lima, New York Invasive Species Research Institute

11:00 am

#### **Forest Pests: How they Get Into the Country, and How to Stop Them**

*Gary Lovett, Cary Institute of Ecosystem Studies*

11:20 am

#### **Biological and Economic Factors that Increase Pet Owner Release of Exotic Reptiles and Amphibians**

*Julie Lockwood, Rutgers University; Oliver Stringham, University of Adelaide*

11:40 am

#### **Informing Cost-Effective Strategies for Reducing Pest Risk from Live Plant Imports**

*Rebecca Epanchin-Niell, Resources for the Future; Dr. Andrew Liebhold, USDA Forest Service, Northern Research Station*

12:00 pm- 12:30 pm

#### **Panel Discussion on addressing IS pathways**

### Monday PM

#### **How To Communicate With Policy Makers To Get Results**

Moderator: Belle Bergner, North American Invasive Species Management Association

1:30 pm

#### **Communicating with Policy Makers**

*Richard Otis, Reduce Risks from Invasive Species Coalition* Ever wondered how to communicate with legislative staff and members, senior government officials, and other policy makers? This panel will provide advice and real world examples of how to work with officials at the state, interstate, and federal levels. Each level of government is different and there aren't magic techniques that work for every issue, but you'll have the opportunity to hear from and ask questions of panel members who have real world, practical experience in general and specifically with respect to invasive species.

#### **New Invaders in the Northeast and Their Management**

Moderator: Linda Rohleder, Lower Hudson PRISM / New York-New Jersey Trail Conference

3:30 pm

#### **The Ecology of *Haemaphysalis longicornis* Emergence on Staten Island, New York, and Its Public Health Implications**

*Danielle M Tufts, Columbia University; Meredith VanAcker, Columbia University; Maria Diuk-Wasser, Columbia University*

3:50 pm

#### **Three New Invaders: Italian Arum, Sapphireberry and Sticky Sage**

*Linda Rohleder, Lower Hudson Partnership for Regional Invasives Species Management*

4:10 pm

#### **Amur corktree (*Phellodendron amurense*) Invading Forests in the Lower Hudson Region of NY.**

*Jessica A. Schuler, The New York Botanical Garden; Todd Forrest, The New York Botanical Garden*

4:30 pm

#### **Early Detection and Rapid Response to *Actinidia arguta* Infestations in NYS Lower Hudson PRISM**

*Thomas Lewis, Trillium Invasive Species Management, INC*

4:50 pm - 5:00 pm Discussion



## Tuesday AM - Plenary

**Alison Catalano, Imperial College;** Planning for and learning from our failures to increase our individual, team, and organizational ability to learn from them.

**Bernd Blossey, Cornell University;** Identify the impacts of multiple “stressors” including invasive and native plants, earthworms, slugs and deer to properly manage for the desired ecosystem.

## Concurrent Sessions

### CISMAs, CWMAAs, and Other Cooperative Partnerships

Moderator: Brent Meyer, Nebraska Weed Control Association, Lancaster County Weed Superintendent

9:15 am **Collective Impact: The Power of Collaborating with The Stewardship Network**

*Lisa Brush, The Stewardship Network*

9:35 am **Nebraska’s Riparian Vegetation Management Task Force (RVMTF)**

*Brent Meyer, Nebraska Weed Control Association, Lancaster County Weed Superintendent*

9:55 am **What a Long Strange Trip It’s Been: 35 years of the Florida Exotic Pest Plant Council**

*Deah Lieurance, Florida Exotic Pest Plant Council/UF IFAS; Sherry Williams, Florida Exotic Pest Plant Council/ Seminole County*

10:15 am **Pulling Together Initiative In Becker County Local Weed Management**

*Marsha Watland, Becker SWCD*

10:35 am - 10:45 am Discussion

11:00 – 12:30 NAISMA Weed Free Forage & Gravel

## Tuesday PM - Field Trip – Prospect Mountain in Adirondack Park



Climate change is changing the life cycle of forest pest. New invasives are thriving at higher altitudes with increased temperatures. This includes both terrestrial invasive plants and insects that are damaging the forest.

## Wednesday AM – Plenary

**Bethany Bradley, University of Massachusetts;** how climate change influences invasive species. How plants respond to rising CO<sub>2</sub>.

**Bill Powell, Syracuse University;** Invasive pest are changing our landscape. American chestnut blight is a classic example of what happens when our forests succumb to invasive pests and pathogens.

## Concurrent Sessions

### Swallow-wort Biocontrol

Moderator: Dylan Parry, State University of New York, College of Environmental Science and Forestry

9:15 am

### Evaluation of Field Releases of *Hypena opulenta* (*Lepidoptera: Erebidae*) a Biological Control Agent of Invasive Swallow-wort, in New England.

*Lisa Tewksbury, University of Rhode Island; Alana Russell, University of Rhode Island*

9:35 am

### Biological Control of Swallow-Worts (*Vincetoxicum spp*) in Canada: Establishment, Overwintering and Diapause Requirements of the Introduced Moth, *Hypena opulenta*.

*Robert S. Bouchier, Agriculture and AgriFood Canada; Naomi Cappuccino, Carleton University; Ian Jones, University of Toronto; Sandy M. Smith, University of Toronto*

9:55 am

### Projected Impacts of Swallow-Wort Biological Control Agents and Initial Results from New York State

*Lindsey R. Milbrath, USDA-ARS*

### Remote Sensing Technologies

Moderator: Jennifer Pontius, UVM

### Integrating Geospatial Technologies Into Invasive Species Detection, Monitoring and Management Efforts

*Jen Pontius (UVM, FEMC, USFS NRS), Ryan Hanavan (USFS, NA), Tom Luther (USFS)*

## Wednesday PM – Concurrent Sessions

### Invasive Species Management in a Changing Climate: Session I

Moderator: Bethany Bradley, University of Massachusetts, Amherst

1:45 pm

### Bridging the Research-Management Gap through the NE Regional Invasive Species and Climate Change (RISCC) Management Network

*Carrie Brown-Lima, NY Invasive Species Research Institute, Cornell University; Toni Lyn Morelli, USGS Northeast Climate Adaptation Science Center, Bethany Bradley, University of Massachusetts Amherst, and Jenica Allen, University of New Hampshire*

2:05 pm

### New Tools for Identifying and Prioritizing Range Shifting Invasive Plants

*Jenica M. Allen, University of New Hampshire; Jeff Garnas, University of New Hampshire; Chuck Barger, University of Georgia; Joseph LaForest, University of Georgia; Mei Rockwell-Postel, University of Massachusetts Amherst; Brittany Laginhas, University of Massachusetts Amherst; Bethany Bradley, University of Massachusetts Amherst;*

2:25 pm

### Incorporating Climate Change Into Invasive Species Management - Insights from Managers

## **Unmanned Aerial System and Other Aerial Devices for Invasive Species Detection, Monitoring and Management**

Moderator: Zack Simek

3:30 pm

### **Eyes in the Sky vs. Boots on the Ground: A Preliminary Evaluation of Small UAS for Terrestrial Invasive Plant Detection and Mapping**

*Zachary Simek, The Nature Conservancy*

3:50 pm

### **Implementation of an Automated Bait Manufacturing and Aerial Delivery System for Landscape-Scale Control of Invasive Brown Tree Snakes**

*Shane R. Siers, USDA National Wildlife Research Center; William C. Pitt, Smithsonian Conservation Biology Institute; John D. Eisemann, USDA National Wildlife Research Center; Larry Clark, USDA National Wildlife Research Center; Robert J. Gosnell, USDA Wildlife Services*

4:10 pm

### **Optimizing UAS Remote Sensing for Vegetation Data Collection**

*Chloe Mattilio, University of Wyoming; Dan Tekiela, University of Wyoming*

4:30 pm

### **The Use of PrecisionVision UAS for the Control of Noxious Weeds**

*William "Bill" Reynolds, Leading Edge Aerial Technologies; Dr. Ken Giles, Leading Edge Aerial Technologies*

4:50 pm - 5:00 pm Discussion

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## **Thursday AM**

### **Regional Collaborations to Integrate Science and Management**

Moderator: TBA

#### **8:30 am Achievements and Challenges in South Africa's Biological Invasion Control Programme**

*Andrew Wannenburg and Collen Martheze, Department of Environmental Affairs, South Africa*

#### **8:50 am Get Connected: Lessons Shared from the Pacific Northwest-Garlic Mustard Working Group**

*Michelle Delepine, West Multnomah Soil & Water Conservation District*

#### **9:10 am The New York State Hemlock Initiative: Integrating Regional Research and Management Strategies in New York**

*Caroline (Carri) Marschner, NYS Hemlock Initiative, College of Agriculture and Life Sciences*

#### **9:30 am The Asian Carp Regional Coordinating Committee: A Comprehensive Partnership for Great Lakes Protection**

*Mike Weimer, U.S. Fish and Wildlife Service*

9:50 am - 10:00 am Discussion

### **Restoration**

Moderator: Todd Boller, Fillmore County NE; Nebraska Weed Control Association

#### **10:30 am Facilitating Native Plant Material Development for Use in Invasive Species Management**

*Edward Toth, Mid Atlantic Regional Seed Bank*

#### **10:50 am Reconsidering Restoration and Stewardship**

*Michael Bald, Got Weeds?*

#### **11:10 am An Integrated Approach to Invasive Plant Management and Habitat Restoration for the Threatened American Hart's-tongue Fern**

*Michael Serviss, New York State Office of Parks, Recreation, and Historic Preservation; Thomas Hughes, New York State Office of Parks, Recreation, and Historic Preservation*

#### **11:30 am Growing a Plant Materials Program: Providing Specialized Plant Materials for Restoration in New York State Parks**

*Brigitte Wierzbicki, NYS Office of Parks, Recreation and Historic Preservation; David Rutherford, NYS Office of Parks, Recreation and Historic Preservation*

11:50 am - 12:00 am Discussion



# Thursday PM

## Field Trip – Moreau Lake State Park



DIRECTION 43.23429°N ACCURACY 10 m  
90 deg(T) 073.71314°W DATUM WGS84



DIRECTION 43.23515°N ACCURACY 10 m  
50 deg(T) 073.71314°W DATUM WGS84

10/3/19, 1:58:05 PM



DIRECTION 43.23429°N ACCURACY 10 m  
90 deg(T) 073.71314°W DATUM WGS84

10/3/19, 1:56:04 PM



DIRECTION 43.23860°N ACCURACY 10 m  
90 deg(T) 073.71071°W DATUM WGS84

10/3/19, 2:35:36 PM

**Reminder: \$1,000 toward this conference was funded by the Nebraska Weed Control Association**



*Join us next year  
at the doorstep to Glacier National Park!*

## **2020 Joint Annual Conference**

**October 6-8, 2020  
The Lodge at Whitefish Lake  
Whitefish, Montana**

