



EMYDINE CONSERVATION SYMPOSIUM

Juniata College, Pennsylvania
July 10–12, 2023

Agenda Tuesday, July 11th

7:00-8:00 **BREAKFAST and CHECK-IN**

Introduction

8:00-8:05	Welcome	Mike Jones
8:05-8:10	Pennsylvania Fish and Boat Commission	Chris Urban
8:10-8:15	Juniata College	Roy Nagle
8:15-8:30	Emydine Symposia: Where We've Been and Where We're Going	Jessica Meck

Session 1: Population Assessment and Genetics // Moderator: Jessica Meck

8:30-8:45	PVA Based Assessment of Blanding's Turtle Resiliency, Redundancy, and Representation	Richard King
8:45-9:00	Influence of Temporary Emigration on Wood Turtle Detection and Abundance Estimates	Ally Beard
9:00-9:15	Wood Turtle Abundance-Habitat Relationships in the Laurentian Mixed Forest Province of Wisconsin and Minnesota	Jena Staggs
9:15-9:30	Wood Turtle (<i>Glyptemys insculpta</i>) Site-level Abundances and Demographics in Wisconsin	Andrew Badje
9:30-9:45	Ten Years of START, the Saving Turtles at Risk Today Project, in Central Ontario	Jeff Hathaway
9:45-10:00	Conservation Guidance, Status, Prioritization, and Implementation for the Recovery of the Spotted Turtle, <i>Clemmys guttata</i> , in Illinois	Mike Dreslik
10:00-10:20	BREAK	
10:20-10:35	Effects of Landscape Structure and Land Use on Turtle Communities Across the Eastern United States	Patrick Roberts

10:35-10:50	Reassessment of Blanding's Turtles in the Northeast using Coordinated Regional Sampling Data	Molly Parren
10:50-11:10	Patterns of Standing Genetic Variation and Effective Population Size in Blanding's Turtle Populations	Mark Jordan
11:10-11:30	Population Genetic Analysis of the Wood Turtle across its U.S. Native Range	Andrew Whiteley
11:30-11:50	Genetic Diversity & Structure for the Eastern Portion of the Spotted Turtle (<i>Clemmys guttata</i>) Range with Extensions Applicable to Individual Assignment	Rodney Dyer
11:50-12:00	GROUP PHOTO	
12:00-1:00	LUNCH	

Session 2: Illegal Trade and Repatriation // Moderator: Julie Slacum

1:00-1:15	Addressing a Critical Conservation Threat with the Collaborative to Combat the Illegal Trade in Turtles	Scott Buchanan
1:15-1:30	Law Enforcement: Challenges and Needs of Enforcing the Turtle Trade from a State's Perspective	Justus Nethero
1:30-1:45	A Partnership Building the Road from Confiscation to Conservation	Dave Collins
1:45-2:00	Ill-effects of Confiscation Events in Box Turtles (<i>Terrapene sp.</i>) and Possible Solutions to Combat Disease Events	Matt Allender
2:00-2:15	Post-release Dispersal and Space Use of Soft and Hard-released Translocated Long-term Captive Eastern Box Turtles Relative to Sympatric Resident Turtles	Ryan Rimple
2:15-2:30	Assessing the Use of Repatriation for Woodland Box Turtles Acquired through Confiscation from the Illegal Trade	Kevin Oxenrider
2:30-2:45	Can We Mitigate the Damage Poachers Have Done? Repatriation as a Possible Outcome for Confiscated Turtles	Kathy Gipe
2:45-3:30	Panel Discussion	
3:30-3:45	BREAK	

Session 3: Spatial Ecology // Moderator: Mike Jones

3:45-4:00	Conservation Implications for Movements Large and Small: for Wood Turtles and Blanding's Turtles in Michigan	Bruce Kingsbury
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4:00-4:15	Monitoring Wood Turtle Movement using GPS Transmitters in Advance of Bridge and Culvert Upgrades to Facilitate Turtle Passage Under a State Highway in Vermont	Kiley Briggs
4:15-4:30	Diel and Seasonal Aquatic-Terrestrial Habitat Selection Patterns for a Northern Population of Wood Turtles	Donald Brown
4:30-4:45	The Use of Habitats by the Wood Turtle on Three Working Farms in the Hudson Valley and its Implications for Management and Conservation	Jason Tesauro
4:45-5:00	Home Range and Movement Patterns in a Central Maine Population of Wood Turtles	Matthew Chatfield
5:00-5:15	Associations between Wood Turtle Movement Dynamics and Linear Fragmentation in Allegheny National Forest (PA)	Sara Crayton
5:15-5:30	A Two-year Study on the Spatial Ecology and Habitat Selection of a Spotted Turtle (<i>Clemmys guttata</i>) Population in Southwest Michigan	Michela Coury
5:30-6:30	POSTER SESSION	
6:00-7:30	DINNER	

Agenda
Wednesday, July 12th

7:00-8:00 **BREAKFAST**

Introduction

8:00-8:05 Announcements Jessica Meck

Session 4: Habitat Management // Moderator: Kevin Oxenrider

8:05-8:20 Creating Nesting Habitat for Freshwater Turtles Roy Nagle

8:20-8:35 Mitigating Turtle Road Mortality Tricia Markle

8:35-8:50 Wood Turtles and Stream Restoration: Opportunities for Enhancing Conservation Outcomes Richard Novak

8:50-9:05 Creating Landscape-appropriate Habitat Restoration Strategies: Success of a Turtle Nest Habitat Design for Rock Barren Landscapes Chantel Markle

9:05-9:20 Predicting the Effect of Forest Harvest on Wood Turtle Habitat Suitability Damien Mullin

9:20-9:45 **BREAK**

Session 5: Conservation Planning & Implementation – Sharing what’s working, identifying challenges, and exploring next steps // Moderator: Liz Willey

	<i>Part 1: Regional Perspectives</i>	
9:45-10:00	Eastern States	Lori Erb, Molly Parren, and Patrick Roberts
10:00-10:15	Midwestern States	Andrew Badje, Matt Cross, Greg Lipps, Yu Man Lee, and Mark Jordan
10:15-10:30	Canadian Provinces	Tom Herman, Chantel Markle, Jackie Litzgus, Jeffie McNeil, Shaylyn Wallace, Jeff Hathaway, Donnell Gasbarrini, and Damien Mullin
10:30-10:35	Group Q&A	
	<i>Part 2: Examples of State/Province Level Implementation</i>	
10:35-10:40	Stepping Down the Regional Wood Turtle Conservation Plan to Virginia	J.D. Kleopfer and Tom Akre
10:40-10:45	Conservation Implementation in Massachusetts: Funding and Site Prioritization	Mike Jones
10:45-10:50	Michigan Rare Turtle Working Group	Yu Man Lee
10:50-10:55	Minnesota Wood Turtle Conservation Plan	Krista Larson
10:55-11:00	Group Q&A	
	<i>Part 3: Partnerships and Funding for Implementation</i>	
11:00-11:05	At-Risk Turtle Conservation on NAFO and Military Lands	Anthony Tur
11:05-11:10	Landowner Outreach	Kiley Briggs
11:10-11:15	Overview of Funding Opportunities	Bridget MacDonald
11:15-12:00	<i>Panel Discussion</i>	
12:00-1:00	LUNCH	

Session 6: Biology // Moderator: Roy Nagle

1:00-1:15	Reproductive Ecology and Conservation of Spotted Turtles in South-central Pennsylvania	Travis Russell
1:15-1:30	Mass Mortality of Multiple Species of Freshwater Turtles in a Protected Urban Wetland Complex in Ontario, Canada	Donnell Gasbarrini
1:30-1:45	Sexual Dichromatism of Tomia in Blanding's Turtles in Central Ontario	Kelsey Moxley
1:45-2:00	Nesting Ecology of Spotted Turtles at an Anthropogenic Site in Massachusetts	John Garrison

2:00-2:15	Nesting Dynamics and Environmental Heterogeneity in a Population Complex of Blanding's Turtle in Nova Scotia	Tom Herman
2:15-2:30	BREAK	
Session 7: Headstarting // Moderator: Kathy Gipe		
2:30-2:45	Recovery of a Blanding's Turtle Population through Nest Protection and Headstarting	Cara McElroy
2:45-3:00	What Matters for the Survival of Headstarted Blanding's Turtles?	Callie Klatt Golba
3:00-3:15	Schools as Conservation Partners: Lessons Learned from a Decade of Headstarting turtles	Bryan Windmiller
3:15-3:30	Not All Management is Equal: A Comparison of Methods to Increase Wood Turtle Population Viability	Tiffany Bougie
3:30-3:45	Headstarting as a Component of Long-term Recovery in Wood Turtle Populations	Kurt Buhlmann
3:45-4:00	Evaluation of Release Techniques of Headstarted Blanding's Turtles in an Urban Landscape	Tharusha Wijewardena
4:00-4:15	Symposium Concluding Remarks	Planning Committee

The **Emydine Conservation Symposium** is supported by the *Competitive State Wildlife Grants* program through an award to the Massachusetts Division of Fisheries and Wildlife and their partners.

Planning Committee:

- Jessica Meck**, American Turtle Observatory & Smithsonian Institution (Chair)
- Michael Jones**, Massachusetts Division of Fisheries & Wildlife (Chair)
- Tom Akre**, Smithsonian's National Zoo & Conservation Biology Institute
- Andrew Badje**, Wisconsin Department of Natural Resources
- Scott Buchanan**, Rhode Island Division of Fish & Wildlife
- Kathy Gipe**, Pennsylvania Fish and Boat Commission
- John Kleopfer**, Virginia Department of Wildlife Resources
- Roy Nagle**, Juniata College
- Kevin Oxenrider**, West Virginia Division of Natural Resources
- Patrick Roberts**, University of Massachusetts Amherst
- Julie Slacum**, U.S. Fish & Wildlife Service
- Lisabeth Willey**, U.S. Fish & Wildlife Service



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