

---

# FMCS 2025 - Michigan - Symposium Schedule

May 12-16, 2025 - Marriott Eagle Crest, Ypsilanti Michigan

---



## Monday, May 12, 2025

8:00 AM - 9:00 AM	<b>Registration for Gastropod Workshop Attendees</b> Location: Registration
9:00 AM - 2:00 PM	<b>WORKSHOP: A Practical Introduction to Freshwater Snail Identification, Collection, and Conservation</b> Location: Auditorium 2 Speakers: Nathaniel Shoobs, Kate Holcomb, Russell Minton
2:00 PM - 4:50 PM	<b>Bivalve Names Committee Meeting</b> Location: Executive Boardroom
3:00 PM - 8:00 PM	<b>Registration Desk</b> Location: Registration
3:00 PM - 8:00 PM	<b>Talk Uploading</b> Location: Registration
5:00 PM - 7:00 PM	<b>Executive Committee Meeting</b> Location: Executive Boardroom
6:30 PM - 7:30 PM	<b>Mentor Mixer</b> Location: Elizabeth Ann Room
7:00 PM - 10:00 PM	<b>Welcome Mixer</b> Location: Garden Marquee

---

## Tuesday, May 13, 2025

7:00 AM - 5:00 PM	<b>Registration Desk</b> Location: Registration
7:00 AM - 7:30 AM	<b>Talk Uploading</b> Location: Registration
8:00 AM - 10:00 AM	<b>Welcome Plenary Session</b> Location: Willbanks Ballroom <ul style="list-style-type: none"><li><b>Tribal Welcome and Land Acknowledgment</b> 8:10 AM - 8:30 AM Location: Willbanks Ballroom Speaker: Phyllis Davis</li><li><b>FMCS 2025 Welcome and Opening Remarks</b> 8:30 AM - 8:40 AM Speakers: Megan E. Bradley, Amy Maynard, Dave Zanatta, Daelyn Woolnough</li><li><b>Michigan's Great Aquatic Resources</b> 8:45 AM - 9:30 AM Location: Willbanks Ballroom Speakers: Jim Francis, Patrick Ertel</li><li><b>FMCS 2025 Symposium Overview</b> 9:30 AM - 10:00 AM Speakers: Daelyn Woolnough, Dave Zanatta</li></ul>
10:00 AM - 10:20 AM	<b>Break</b> Location: Conference Center Lobby

10:20 AM - 12:00 PM

**Special Session: Natural History and Conservation of Freshwater Mollusks in the Laurentian Great Lakes System**

Location: Auditorium 1

**NATURAL HISTORY AND CONSERVATION OF FRESHWATER MOLLUSKS IN THE LAURENTIAN GREAT LAKES SYSTEM: INTRODUCTION TO THE SPECIAL SESSION**

10:20 AM - 10:40 AM

Location: Auditorium 1

Speakers: David Strayer, Dave Zanatta, Isabel Porto-Hannes

**THE GENETIC STORY OF POST-GLACIAL COLONIZATION OF FRESHWATER MUSSELS INTO THE NORTH AMERICAN GREAT LAKES**

10:40 AM - 11:00 AM

Location: Auditorium 1

Speakers: Dave Zanatta, Kentaro Inoue, Isabel Porto-Hannes

**A CANADIAN PERSPECTIVE: CONSERVATION, PROTECTION, AND RECOVERY OF ONTARIO'S FRESHWATER MUSSELS (BIVALVIA: UNIONIDAE).**

11:00 AM - 11:20 AM

Location: Auditorium 1

Speakers: Todd Morris, Mandy Gibson, Kelly McNichols-O'Rourke

**NATURAL HISTORY AND CONSERVATION OF FRESHWATER MUSSELS IN THE LAURENTIAN GREAT LAKES SYSTEM IN NEW YORK STATE**

11:20 AM - 11:40 AM

Location: Auditorium 1

Speakers: Isabel Porto-Hannes, David Strayer

**MUSSELS OF OHIO'S LAKE ERIE TRIBUTARIES, CHALLENGES TO CONSERVATION**

11:40 AM - 12:00 PM

Location: Auditorium 1

Speakers: Robert Krebs, Rachel Lewis, Ryan Trimbath

10:20 AM - 12:00 PM

**Contributed Session: Morphometrics**

Location: Auditorium 2

**PATTERNS OF SEXUAL DIMORPHISM IN THE CRITICALLY IMPERILED FRESHWATER MUSSEL GENUS EPIOBLASMA**

10:40 AM - 11:00 AM

Location: Auditorium 2

Speakers: James Haugh, Dave Zanatta, John Pfeiffer

**USING MORPHOLOGY TO IDENTIFY FRESHWATER MUSSEL GLOCHIDIA AND JUVENILES FROM WILD INFECTED HOSTS**

11:00 AM - 11:20 AM

Location: Auditorium 2

Speakers: Amy Rollins, Hayley Robinson, Sarah Gregory, Peter Hazelton, John Wares

**IDENTIFYING ENVIRONMENTAL DRIVERS OF SHELL SHAPE VARIATION IN THE FRESHWATER GASTROPOD CAMPELOMA DECISUM (SAY, 1817)**

11:20 AM - 11:40 AM

Location: Auditorium 2

Speakers: Lauren Western, Dave Zanatta

**ON THE FREQUENCY AND CORRELATES OF SINISTRALITY IN CAMPELOMA**

11:40 AM - 12:00 PM

Location: Auditorium 2

Speakers: Nathaniel Shoobs, Alexandra Phelps

10:20 AM - 12:00 PM

**Contributed Session: Propagation**

Location: Conference Room E

**VIRTUAL: ASSESSMENT OF LAMPSILID MUSSEL IN-VITRO TRANSFORMATION VARIABLES: MEDIA CHANGE FREQUENCY, DILUTION TIMING, AND GLOCHIDIA DENSITY**

10:20 AM - 10:40 AM

Location: Conference Room E

Speakers: Valerie Kearny, William Wayman

**MUSSEL PRODUCTION FOR PENNSYLVANIA DEP AT WHITE SULPHUR SPRINGS NFH A 10-YEAR PROJECT**

10:40 AM - 11:00 AM

Location: Conference Room E

Speakers: Andrew Phipps, John Moore, Meghan Pickle, Rick Spear

**ADVANCES IN THE PROPAGATION AND CULTURE OF CRITICALLY ENDANGERED SPECIES OF FRESHWATER MUSSELS AT THE CUMBERLAND RIVER AQUATIC CENTER, TWRA.**

11:00 AM - 11:20 AM

Location: Conference Room E

Speakers: Dan Hua, Brittany Bajo-Walker, Kellie White, Jackson White, Heather Kerns, Natalie Schroth, Jessica Landaverde

**EVALUATING COMMERCIAL DIETS FOR THE PRODUCTION OF JUVENILE FRESHWATER PLAIN POCKETBOOK MUSSELS *Lampsilis cardium***

11:40 AM - 12:00 PM

Location: Conference Room E

Speakers: Ashton Schardt, Kasondra Miller, Tiffany Watson, Waldemar Rossi

12:00 PM - 2:00 PM

### Lunch break and Committee Meetings

Location: Conference Center Lobby

#### Mollusk Status and Distributions Committee

12:10 PM - 12:50 PM

Location: Auditorium 2

Speaker: Matthew Rowe

#### Professional Development Committee

1:00 PM - 1:50 PM

Location: Auditorium 1

Speaker: Rebecca Winterringer

#### Field Studies and Ecosystems Committee

1:00 PM - 1:50 PM

Location: Conference Room E

Speakers: Jonathan Lopez, Lisie Kitchel

#### Genetics Committee

1:00 PM - 1:50 PM

Location: Auditorium 1

Speakers: Nathan Johnson, Kentaro Inoue

#### Environmental Quality and Affairs Committee

1:00 PM - 1:50 PM

Location: Auditorium 2

Speakers: Emilie Blevins, Michael Gangloff

2:00 PM - 3:20 PM

### Special Session: Natural History and Conservation of Freshwater Mollusks in the Laurentian Great Lakes System

Location: Auditorium 1

#### UNIONID MUSSEL CONSERVATION IN MICHIGAN

2:00 PM - 2:20 PM

Location: Auditorium 1

Speaker: Peter Badra

#### STATUS AND DISTRIBUTION OF UNIONIDAE IN THE LAURENTIAN GREAT LAKES WATERSHED: A COMPARATIVE ANALYSIS OF WISCONSIN AND MINNESOTA

2:20 PM - 2:40 PM

Location: Auditorium 1

Speakers: Jesse Weinzinger, Bernard Sietman

#### INVASION DYNAMICS AND IMPACT OF NON-NATIVE MOLLUSCS IN THE GREAT LAKES

2:40 PM - 3:20 PM

Location: Auditorium 1

Speakers: Lyubov Burlakova, Alexander Karatayev

2:00 PM - 3:20 PM

### Contributed Session: Habitat Studies

Location: Auditorium 2

#### ASSESSING PATTERNS OF FRESHWATER MUSSEL DISTRIBUTION UPSTREAM AND DOWNSTREAM OF TRIBUTARY CONFLUENCES IN THE LOWER GRAND RIVER, MICHIGAN

2:00 PM - 2:20 PM

Location: Auditorium 2

Speakers: Grayson Kosak, Eric Snyder, Bill Flanagan

#### MAPPING HABITAT SUITABILITY FOR NATIVE FRESHWATER MUSSELS ACROSS THE GREAT PLAINS

2:20 PM - 2:40 PM

Location: Auditorium 2

Speakers: Kelsey Crowley, Chris Cheek, Chelsey Pasbrig, Alison Coulter

#### EFFECTS OF HYDROLOGIC CONNECTIVITY AND LOCAL FACTORS ON FRESHWATER MUSSEL OCCUPANCY IN OFF-CHANNEL HABITATS

2:40 PM - 3:00 PM

Location: Auditorium 2

Speakers: Abigail Shake, Jordan Hofmeier, Lindsey Bruckerhoff

#### ECOLOGICAL ASSOCIATIONS OF NATIVE AND INVASIVE BIVALVES OF THE COLUMBIA RIVER BASIN, USA.

3:00 PM - 3:20 PM

Location: Auditorium 2

Speakers: Nathaniel Neal, Stephen Bollens, Alexa Maine, Timothy Counihan, Gretchen Rollwagen-Bollens

**2:00 PM - 3:20 PM**

**Contributed Session: Contaminants and Ecotoxicology**

Location: Conference Room E

**INVESTIGATING THE IMPACTS OF PARAFFIN DIPPING ON THE  $\delta^{13}\text{C}$  AND  $\delta^{15}\text{N}$  VALUES OF FRESHWATER MUSSEL PERIOSTRACUM**

2:00 PM - 2:20 PM

Location: Conference Room E

Speakers: Lilja Balaji, Aaron Diefendorf, Joshua Miller

**VIRTUAL: ASSESSING THE LETHAL EFFECTS OF GRANULAR BAYLUSCIDE ON THE EARLY LIFE STAGES OF A FRESHWATER MUSSEL**

2:20 PM - 2:40 PM

Location: Conference Room E

Speakers: Yaryna Kudla, Joseph Langlois, Olivia Coffield, Mackenzie MacDonald, Uchenna Uju, Brian Atkinson, Ryan Prosser

**VIRTUAL: ADVERSE EFFECTS OF GRANULAR BAYLUSCIDE(R) EXPOSURE ON ADULT WASHBOARD MUSSELS (MEGALONAIAS NERVOSA)**

2:40 PM - 3:00 PM

Location: Conference Room E

Speaker: Olivia Coffield

**TAXONOMIC, SPATIAL, AND TEMPORAL VARIATION IN ELEMENTAL COMPOSITION OF FRESHWATER MUSSEL SHELLS AND EXTRAPALLIAL FLUID FROM THE UPPER OHIO RIVER WATERSHED, PENNSYLVANIA, USA**

3:00 PM - 3:20 PM

Location: Conference Room E

Speaker: Kristi Dobra

**3:20 PM - 3:40 PM**

**Break**

Location: Conference Center Lobby

**3:40 PM - 5:40 PM**

**Contributed Session: Natural History and Conservation of Freshwater Mollusks in the Laurentian Great Lakes System**

Location: Auditorium 1

**ASSESSING SHORT AND LONG-TERM REDISTRIBUTION PATTERNS OF UNIONIDAE POPULATIONS POST-TRANSLOCATION**

3:40 PM - 4:00 PM

Location: Auditorium 1

Speaker: Lauren Damphousse

**RECRUITMENT AND HABITAT PREFERENCES OF FRESHWATER MUSSELS IN WESTERN NEW YORK STREAMS**

4:00 PM - 4:20 PM

Location: Auditorium 1

Speaker: Max Striedl

**SURVEYS OF MID-MICHIGAN TRIBUTARIES CONSIDERING WATER BODY SIZE, HISTORIC DATA, AND RESURVEY INTERVALS.**

4:20 PM - 4:40 PM

Location: Auditorium 1

Speaker: Aaron Vlasak

**USING INTERNS AND VOLUNTEERS TO SURVEY NATIVE MUSSELS ON THREE MILES OF THE HURON RIVER, PRIOR TO THE REMOVAL OF THE PENINSULAR DAM IN YPSILANTI, MICHIGAN**

4:40 PM - 5:00 PM

Location: Auditorium 1

Speaker: Renee Mulcrone

**STATUS OF FRESHWATER MUSSELS IN THE GRAND RIVER, MICHIGAN: ASSESSMENT OF THREATS AND OPPORTUNITIES FOR RESTORATION.**

5:00 PM - 5:20 PM

Location: Auditorium 1

Speaker: Eric Snyder

**PANEL DISCUSSION: Great Lakes Special Session**

5:20 PM - 5:40 PM

Location: Auditorium 1

Speakers: David Strayer, Dave Zanatta

3:40 PM - 5:20 PM

**Contributed Session: Habitat Studies**

Location: Auditorium 2

**UTILIZING 3D PRINTED SUBADULT MUSSELS IN COMPLEMENTARY FIELD AND FLUME STUDIES TO SUPPORT REINTRODUCTIONS IN AN URBAN RIVER**

3:40 PM - 4:00 PM

Location: Auditorium 2

Speaker: Megan DiNicola

**MULTISCALE OCCUPANCY PATTERNS OF TEXAS FAWNSFOOT (TRUNCILLA MACRODON) POPULATIONS IN THE BRAZOS RIVER BASIN**

4:00 PM - 4:20 PM

Location: Auditorium 2

Speaker: Kyle Sullivan

**SPECIES DISTRIBUTION MODELING REVEALS SALINITY CONCENTRATION AS A MAJOR DRIVER OF PRESENCE FOR THE ESTUARINE BIVALVE RANGIA CUNEATA (ORDER VENERIDA)**

4:20 PM - 4:40 PM

Location: Auditorium 2

Speaker: Jonah Jimmerson

**EXAMINING THE DISTRIBUTION OF MUSSELS IN POOLS AND RIFFLES OF THE SAN SABA RIVER.**

4:40 PM - 5:00 PM

Location: Auditorium 2

Speaker: Justin Greenfield

**FRESHWATER MUSSELS OF THE HATCHIE RIVER: DISTRIBUTION, COMPOSITION, AND ABUNDANCE**

5:00 PM - 5:20 PM

Location: Auditorium 2

Speaker: Katelynn Sallack

3:40 PM - 5:20 PM

**Contributed Session: Contaminants and Ecotoxicology**

Location: Conference Room E

**MUSSEL COMMUNITY CHANGES RELATIVE TO A NEW WASTEWATER DISCHARGE IN THE UPPER SABINE RIVER, TEXAS**

3:40 PM - 4:00 PM

Location: Conference Room E

Speaker: Clint Robertson

**FRESHWATER MUSSEL SURVEYS ON PENNSYLVANIA'S REDBANK CREEK SUGGEST ISSUES WITH AQUATIC CONNECTIVITY AND ACID MINE DRAINAGE ARE LIMITING RECOVERY.**

4:00 PM - 4:20 PM

Location: Conference Room E

Speaker: Dakota Raab

**TESTING MUSSELS' EFFICIENCY AS A BIOREMEDIATION TOOL TO MITIGATE HEAVY METAL POLLUTION**

4:20 PM - 4:40 PM

Location: Conference Room E

Speaker: Nicoletta Riccardi

**ASSESSMENT OF CONTAMINANT IMPACTS ON FRESHWATER MUSSELS IN THE CONASAUGA RIVER**

4:40 PM - 5:00 PM

Location: Conference Room E

Speaker: Molly Martin

**PATTERNS IN CONTAMINANTS OF EMERGING CONCERN BASED ON UNIONID TISSUE, BIOFILM, WATER, AND SEDIMENTS IN A MIDWESTERN RIVER**

5:00 PM - 5:20 PM

Location: Conference Room E

Speaker: Daelyn Woolnough

5:30 PM - 6:00 PM

**Poster set-up**

Location: Garden Marquee

6:00 PM - 8:30 PM

**Poster Session**

Location: Garden Marquee

**LINKING HABITAT PARAMETERS TO UNIONID ASSEMBLAGES AT THE LENTIC-LOTIC TRANSITION OF LAKE MICHIGAN AND ITS TRIBUTARIES**

6:00 PM - 8:30 PM

Location: Garden Marquee

Speaker: Masaki Hara

**COMPARISON OF SEDIMENT DYNAMICS AND MUSSEL RESPONSE IN TWO OZARK RIVERS**

6:00 PM - 8:30 PM

Location: Garden Marquee

Speaker: Justin Higa

**USE OF CONTINUOUS SEDIMENT-WATER INTERFACE MONITORING TO EVALUATE FRESHWATER MUSSEL HABITAT CONDITIONS**

6:00 PM - 8:30 PM

Location: Garden Marquee  
Speaker: Allison Sieja

**REINTRODUCTION OF TENNESSEE BEAN (VENUSTCONCHA TRABALIS) TO THE UPPER NORTH FORK HOLSTON RIVER, VIRGINIA.**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Sarah Colletti

**FRESHWATER MUSSEL SALVAGE AREA COLLECTION AND RELOCATION MONITORING RESULTS FOR A CHEMUNG RIVER, NEW YORK PUBLIC WORKS PROJECT**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Alan Christian

**STRONG PARTNERSHIPS: THE KEY TO MUSSEL RESTORATION AND WORKING TOWARD GREEN INFRASTRUCTURE**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speakers: Peter Badra, Mandy Annis

**MORE MUSSELS WITH THE MOORE DOWNWELLER**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: John Moore

**A VISUAL GUIDE TO THE GROWTH AND DEVELOPMENT OF JUVENILE FRESHWATER MUSSELS (ANODONTA, GONIDEA, AND MARGARITIFERA) IN WESTERN NORTH AMERICA**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Zach Seilo

**THE EFFECTS OF CULTURING DENSITY AND SAMPLING FREQUENCY ON GROWTH AND SURVIVAL OF JUVENILE MOUNTAIN CREEKSHELL (LEAUNIO VANUXEMENSIS)**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Tiffany Leach

**A CONSERVATION CHALLENGE: UNDERSTANDING THE RELATIONSHIP BETWEEN NATIVE FRESHWATER MUSSELS AND INVASIVE CARP**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Samantha Poratti

**SMALL-SCALE CONSTRUCTION, LARGE-SCALE IMPACT: NOCOMIS CHUBS AS KEYSTONE SPECIES SUPPORTING RARE FRESHWATER MUSSELS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Christopher Eads

**WHEN YOUR HOST FISHES GET COLD FEET: MUSSEL GLOCHIDIA AREN'T SURE WHEN THEY WANT TO METAMORPHOSIZE**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Brian Hefferon

**CORRELATIONS BETWEEN SHELL MORPHOLOGY AND HABITAT OF PYGANODON MUSSELS IN NORTHERN MICHIGAN INLAND LAKES.**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Alec Smith

**MORPHOLOGICAL ANALYSIS OF LANCE MUSSELS USING 2D MORPHOMETRIC ANALYSIS.**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Curt Elderkin

**STREAMING CONSERVATION: USING VIRTUAL TOURS TO SHOWCASE PROPAGATION AND RESEARCH AT THE YATES MILL AQUATIC CONSERVATION CENTER**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Loretta Lutackas

**THE FMCS MOLLUSK CERTIFICATION PROGRAM**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Rebecca Winterringer

**WHAT WILL IT TAKE TO CATALOG THE OSU MUSEUM BACKLOG, AND IS IT WORTH IT? MAKING THE CASE WITH MISSOURI MUSSELS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Alexandra Phelps

**RE-DISCOVERY AND STATUS OF A POPULATION OF YELLOW LANCE IN MARYLAND**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Megan Kubala

**ASSESSING HABITAT CONNECTIVITY AND MUSSEL DISTRIBUTIONS IN THE BAYOU PIERRE WATERSHED, LOUISIANA, USA**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Julia Morin

**FRESHWATER GASTROPOD ASSEMBLY IN STATE-MANAGED SEASONAL WETLANDS  
THROUGHOUT ILLINOIS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Ashleigh McCallum

**GROWTH CHARACTERISTICS OF NATIVE FRESHWATER MUSSELS IN THE UPPER  
MISSISSIPPI RIVER SUPPORT VARIED RESILIENCE FOR SOME SPECIES**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Traci DuBose

**DIVERSITY AND DISTRIBUTION OF THE MUSSEL FAUNA OF ABRAMS CREEK**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Caleb Moses

**CHARACTERIZING THE AQUATIC SNAIL ASSEMBLAGE OF BAYOU BARTHOLOMEW,  
LOUISIANA**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Caleb Moses

**WORKING TOWARD THE RECOVERY OF THE PALE LILLIPUT (TOXOLASMA  
CYLINDRELLUS)**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Kristin Womble

**REDISCOVERING GUATEMALA'S FRESHWATER MUSSELS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Josue Garcia

**INSIGHTS INTO MUSSEL POPULATION RESPONSE TO TRANSPORTATION  
INFRASTRUCTURE IMPROVEMENTS IN ILLINOIS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Alison Stodola

**USING ZERO-INFLATED MODELING OF TRANSECT SAMPLING TO OPTIMIZE  
POPULATION MONITORING OF FRESHWATER MUSSELS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Gabriel Inoshita

**A BASELINE ASSESSMENT OF THE SPRINGS OF THE CAHABA RIVER WATERSHED:  
DEVELOPMENT OF A SPRING INVENTORY**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Nathaniel Sturm

**USING ARCGIS ONLINE TO AGGREGATE DATABASE RECORDS INTO A USER-  
FRIENDLY INTERACTIVE MAP OF OHIO'S FRESHWATER MUSSELS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Lauren Lagemann

**POTENTIAL DESCRIPTION OF FRESHWATER MUSSEL (BIVALVIA: UNIONIDAE)  
SPAWNING USING ENVIRONMENTAL DNA**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Dan Symonds

**LEVERAGING NEW TECHNOLOGY TO IMPROVE MUSSEL SEARCH METHODOLOGY IN  
RESERVOIRS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Kayla McRobb

**ASSESSING AND RECOVERING NATIVE FRESHWATER MUSSELS IN THE GREAT  
PLAINS USING eDNA APPROACH**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Omera Matoo

**ACUTE TOXICITY OF THREE MINING-RELATED CONTAMINANTS TO FOUR  
PLEUROCID SNAIL SPECIES**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Allison Sieja

**A REGULATORY FRAMEWORK FOR OIL SPILL RESPONSE ACTIVITIES AFFECTING  
MOLLUSKS: A DEMONSTRATION OF A LARGE-SCALE PROGRAMMATIC ACTION.**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speakers: Mike deMoulpied, Rebecca Winterringer

**CONSIDERATIONS FOR SWAB CHOICE IN MUSSEL CONSERVATION GENETIC  
STUDIES**

6:00 PM - 8:30 PM  
Location: Garden Marquee

Speakers: Heather Evans, Loretta Lutackas

**ASSESSMENT OF THE POPULATION GENETIC DIVERSITY AND STRUCTURE OF SIMPSONIA AMBIGUA**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Kentaro Inoue

**MOLLICUTES AND MOLLUSKS: EVIDENCE OF CODIVERSIFICATION**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Russell Minton

**EXPLORATION OF CELL DIVISION IN INVASIVE MOLLUSKS: TOWARDS IMMORTALIZED CELL LINES**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Gabrielle Sanfilippo

**COMPARING MUSSEL COMMUNITY STRUCTURE, GROWTH, AND SURVIVAL IN DIFFERENT HABITAT TYPES OF THE LOWER NECHES RIVER**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Emily Pody

**IDENTIFYING AT-RISK SPECIES OF PYRGULOPSIS SPRINGSNAILS**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Megan Norcom

**UPPER THERMAL TOLERANCE OF THE WESTERN RIDGED MUSSEL (GONIDEA ANGULATA), WESTERN PEARLSHELL (MARGARITIFERA FALCATA), AND WESTERN SCULPIN SPECIES (COTTUS SPP.)**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Rachael Valeria

**IMPACTS ON FRESHWATER MUSSELS FROM BEWLEY SHOALS ON THE NOLICHUCKY RIVER FOLLOWING THE FLOODWATERS FROM HURRICANE HELENE**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: David Foltz

**RESTORATION PLANNING FOR FRESHWATER MUSSEL POPULATIONS IN THE UPPER POTOMAC RIVER, MARYLAND**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Megan Kubala

**VIRGINIA DEPARTMENT OF WILDLIFE RESOURCES FRESHWATER MUSSEL CONSERVATION PLAN**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Kim Morgan

**RESTORING OUR RIVERS: SCOPING CANADA'S FIRST UNIONID MUSSEL REINTRODUCTION**

6:00 PM - 8:30 PM  
Location: Garden Marquee  
Speaker: Kelly McNichols-O'Rourke

9:00 PM - 11:30 PM

**FMCS "Movie Night"**

Location: Auditorium 1

---

**Wednesday, May 14, 2025**

7:00 AM - 5:00 PM

**Registration Desk**

Location: Registration

7:00 AM - 7:30 AM

**Talk Uploading**

Location: Registration



8:20 AM - 9:15 AM

### Lightning Talks

Location: Auditorium 1

#### **EXPLORATION OF A NOVEL TECHNIQUE FOR AGING SHELLS OF TAR RIVER SPINY MUSSEL (PARVASPINA STEINSTANSANA) UTILIZING X-RAY MICRO-COMPUTED TOMOGRAPHY**

8:20 AM - 8:25 AM

Location: Auditorium 1

Speaker: Amber Olson

#### **MUSSELS SUSPENDED IN MACROPHYTES**

8:25 AM - 8:30 AM

Location: Auditorium 1

Speakers: Joe Rathbun, David Strayer

#### **CAPTIVE PROPAGATION EFFORTS FOR A FEDERALLY LISTED AQUATIC SNAIL IN IDAHO**

8:30 AM - 8:35 AM

Location: Auditorium 1

Speaker: Alyssa Bangs

#### **IMPACTS OF COMPOSTED COW MANURE ON JUVENILE E. TRIQUETRA MUSSELS IN A PULSED FLOW REARING SYSTEM**

8:40 AM - 8:45 AM

Location: Auditorium 1

Speaker: Isabel Boyce

#### **COMPARISON OF M199 AND L-15 MEDIA FOR IN VITRO PROPAGATION OF LAMPSILIS SILIQUOIDEA**

8:45 AM - 8:50 AM

Location: Auditorium 1

Speakers: Alexandra Phelps, Ieva Roznere

#### **OUTREACH AND IDENTIFICATION RESOURCES FOR MINNESOTA FRESHWATER MUSSELS**

8:50 AM - 8:55 AM

Location: Auditorium 1

Speaker: Zoe Schroeder

#### **UNEARTHING HISTORY: 'ORPHANED' COLLECTION FROM SAGINAW VALLEY STATE UNIVERSITY ILLUSTRATES COMMUNITY CHANGES IN MICHIGAN RIVERS SINCE THE DREISSENID INVASION**

9:00 AM - 9:05 AM

Location: Auditorium 1

Speaker: Haley VanScoyoc

#### **MULTIPLE EXTINCT MUSSEL SPECIES IN THE "ORPHAN" GRAND RAPIDS PUBLIC MUSEUM SHELL COLLECTION.**

9:05 AM - 9:10 AM

Location: Auditorium 1

Speaker: Joe Rathbun

#### **VIRTUAL: DETERMINING SPECIES BOUNDARIES IN THE SPRINGSNAIL PYRGULOPSIS (MOLLUSCA, GASTROPODA, HYDROBIIDAE).**

9:10 AM - 9:15 AM

Location: Auditorium 1

Speaker: Kathryn Perez

8:20 AM - 10:00 AM

### Contributed Session: Museums, Education, and Outreach

Location: Auditorium 2

#### **THE MUSEUM OF FLUVIATILE MOLLUSKS AND HERBERT D. ATHEARN**

8:20 AM - 8:40 AM

Location: Auditorium 2

Speaker: Arthur Bogan

#### **SAVING MUSSELS FROM EXTINCTION: HOW AZA SAFE NORTH AMERICAN FRESHWATER MUSSEL WANTS TO STRENGTHEN THE ROLE OF ZOOS AND AQUARIUMS**

8:40 AM - 9:00 AM

Location: Auditorium 2

Speaker: Monika Bohm

#### **A MULTI-FACETED APPROACH TO MOLLUSK CONSERVATION AT THE TENNESSEE AQUARIUM**

9:00 AM - 9:20 AM

Location: Auditorium 2

Speaker: Stephanie Chance

#### **WE LOVE BIODIVERSITY, BUT WHAT ABOUT DIVERSITY, EQUITY, & INCLUSION? RESULTS FROM DEMOGRAPHIC SURVEYS, 2022-2024**

9:20 AM - 9:40 AM

Location: Auditorium 2

Speaker: Sara Craft

#### **THE ART OF MUSSELS: PUBLIC ART AS A FORM OF SCIENTIFIC COMMUNICATION.**

9:40 AM - 10:00 AM

Location: Auditorium 2

Speaker: Jillian Fedarick

8:20 AM - 10:00 AM

**Contributed Session: Life History**

Location: Conference Room E

**Evaluating Striped Bass as a host for Yellow Lampmussel (*Lampsilis cariosa*)**

9:00 AM - 9:20 AM

Location: Conference Room E

Speaker: Stefanie Farrington

**DETERMINATION OF FRESHWATER MUSSEL HOST USE THROUGH GENETIC BARCODING OF JUVENILE MUSSELS METAMORPHOSED ON NATURALLY INFESTED FISHES**

9:20 AM - 9:40 AM

Location: Conference Room E

Speaker: Jacob Lanning

**INVESTIGATING THE ENVIRONMENTAL AND BIOLOGICAL PRESSURES ON TWO NATIVE WYOMING FRESHWATER MUSSELS: CALIFORNIA FLOATER AND WESTERN PEARLSHELL**

9:40 AM - 10:00 AM

Location: Conference Room E

Speaker: Samantha Poratti

9:20 AM - 10:00 AM

**Contributed session: Genetics, Genomics, and Systematics**

Location: Auditorium 1

**SYSTEMATICS OF THE CRITICALLY IMPERILED PLEUROCERID GENUS LITHASIA**

9:20 AM - 9:40 AM

Location: Auditorium 1

Speaker: Samantha Donohoo

**POPULATION STRUCTURE OF THE ENDEMIC AND FEDERALLY THREATENED PAINTED ROCKSNAIL, *LEPTOXIS COOSAENSIS***

9:40 AM - 10:00 AM

Location: Auditorium 1

Speaker: Elizabeth Strasko

10:00 AM - 10:20 AM

**Break**

Location: Conference Center Lobby

10:20 AM - 12:00 PM

**Contributed session: Genetics, Genomics, and Systematics**

Location: Auditorium 1

**POPULATION GENOMICS OF THE TENNESSEE RIVER DRAINAGE ENDEMIC SMOOTH ROCKSNAIL, *LEPTOXIS VIRGATA* (GASTROPODA: CERITHIOIDEA: PLEUROCERIDAE)**

10:20 AM - 10:40 AM

Location: Auditorium 1

Speaker: Annamarie Steed

**DEVELOPING A STANDARDIZED SNP PANEL FOR *ELLIPTIO LANCEOLATA* AND *PARVASPINA STEINSTANSANA* FOR GENETIC PARENTAGE-BASED TAGGING**

10:40 AM - 11:00 AM

Location: Auditorium 1

Speaker: Edie Nissen

**A GENOMIC TOOL FOR THE LOW-COST MONITORING OF RELATEDNESS IN *LAMPSILIS STRECKERI***

11:00 AM - 11:20 AM

Location: Auditorium 1

Speaker: Alex Dunahoo

**POPULATION GENOMICS AND PARENTAGE RELATIONSHIPS BETWEEN WILD AND CAPTIVE COHORTS OF THE FEDERALLY ENDANGERED ALABAMA LAMPMUSSEL, *LAMPSILIS VIRESCENS***

11:20 AM - 11:40 AM

Location: Auditorium 1

Speaker: Alicia Krause

**GENETIC ASSESSMENTS OF ENDANGERED FRESHWATER MUSSELS AIM TO INFORM CONSERVATION MANAGEMENT IN THE MIDWESTERN U.S.**

11:40 AM - 12:00 PM

Location: Auditorium 1

Speaker: Claire Waterhouse

10:20 AM - 12:00 PM

**Special Session: Bridges to Recovery: Innovative Strategies to Advance Freshwater Mussel Restoration and Conservation**

Location: Auditorium 2

**INTRODUCTION TO SPECIAL SESSION**

10:40 AM - 11:00 AM

Location: Auditorium 2

Speaker: Peter Badra

**ARE WE MUSSEL- READY? ASSESSING WATER AND SEDIMENT QUALITY FOR THE POTENTIAL REINTRODUCTION OF FRESHWATER MUSSEL (FAMILY UNIONIDAE) IN NIAGARA RIVER**

11:00 AM - 11:20 AM

Location: Auditorium 2

Speaker: Isabel Porto-Hannes

**NEW TOOLS FOR BUILDING HABITAT SUITABILITY MODELS AFTER OLD ONES FAIL**

11:20 AM - 11:40 AM

Location: Auditorium 2

Speaker: Rachel Lewis

10:20 AM - 12:00 PM

**Contributed Session: Climate Change**

Location: Conference Room E

**HYPOXIA SENSITIVITY OF THE FEDERALLY THREATENED PLEUROBEMA RIDDELLII IN RELATION TO COMMON SPECIES.**

10:20 AM - 10:40 AM

Location: Conference Room E

Speaker: Emalyn Blackwell

**THERMAL STRESS AND BIOENERGETICS: ESTIMATING SCOPE FOR GROWTH IN THE TEXAS FAWNSFOOT (TRUNCILLA MACRODON) ACROSS A RANGE OF TEMPERATURES**

10:40 AM - 11:00 AM

Location: Conference Room E

Speaker: Hannah Adkins

**CLIMATE SENSITIVITY IN MIDWEST MUSSELS VARIES WITH RANGE SIZE, TRAIT COMBINATIONS, AND LISTING STATUS**

11:00 AM - 11:20 AM

Location: Conference Room E

Speaker: Ayla Skorupa

**IMPACTS OF CLIMATE CHANGE ON FRESHWATER MUSSELS AND THEIR FISH HOSTS**

11:20 AM - 11:40 AM

Location: Conference Room E

Speaker: Juergen Geist

**WEATHERING THE STORM: A STATUS UPDATE OF APPALACHIAN ELKTOE (ALASMIDONTA RAVENELIANA) AND FUTURE PLANS FOLLOWING HURRICANE HELENE**

11:40 AM - 12:00 PM

Location: Conference Room E

Speaker: Chantelle Rondel

12:00 PM - 2:00 PM

**Lunch Break and Committee Meetings**

Location: Conference Center Lobby

**DEI Committee**

12:10 PM - 1:00 PM

Location: Auditorium 2

Speaker: Sara Craft

**Guidelines and Techniques Committee Meeting**

12:10 PM - 1:00 PM

Location: Conference Room E

Speakers: Lisie Kitchel, Ryan Schwegman

**Outreach Committee Meeting**

12:10 PM - 1:00 PM

Location: Auditorium 1

Speakers: Dan Symonds, Madison Mueller

**Chapters Committee Meeting**

1:10 PM - 1:50 PM

Location: Auditorium 2

Speaker: Manuel Lopes Lima

**Conservation and Restoration Committee Meeting**

1:10 PM - 1:50 PM

Location: Auditorium 1

Speakers: Jesse Weinzinger, Tyler Hern, Nathan Eckert

2:00 PM - 3:20 PM

**Contributed session: Genetics, Genomics, and Systematics**

Location: Auditorium 1

**CONSERVATION GENOMICS OF ANODONTA FRESHWATER MUSSELS IN SWITZERLAND**

2:00 PM - 2:20 PM

Location: Auditorium 1

Speaker: Alexandra A.-T. Weber

**SECONDARY CONTACT ERODES HISTORICAL DIVERSIFICATION IN THE WIDE-RANGING MAPLEAF SPECIES COMPLEX**

2:20 PM - 2:40 PM

Location: Auditorium 1

Speaker: Sean Keogh

**SPAWNING AND MICROINJECTION OF QUAGGA MUSSEL EMBRYOS: METHODS TOWARDS CREATING AN IMMORTALIZED QUAGGA MUSSEL CELL LINE THROUGH GENETIC MODIFICATION**

2:40 PM - 3:00 PM

Location: Auditorium 1

Speaker: Trevor Hewitt

**VIRTUAL: REVIEW OF THE PHREATIC GASTROPODS IN THE EDWARDS-TRINITY AQUIFER SYSTEM OF TEXAS AND MEXICO WITH RECENT DISCOVERIES.**

3:00 PM - 3:20 PM

Location: Auditorium 1

Speaker: Kathryn Perez

2:00 PM - 3:20 PM

**Special Session: Bridges to Recovery: Innovative Strategies to Advance Freshwater Mussel Restoration and Conservation**

Location: Auditorium 2

**“IT’S ALL NEW IN THE WEST!” A TRIBALLY MANAGED MUSSEL RESTORATION PROGRAM**

2:00 PM - 2:20 PM

Location: Auditorium 2

Speaker: Alexa Maine

**NATIVE UNIONID MUSSELS: IN VITRO PROPAGATION IN SUPPORT OF MUSSEL REINTRODUCTION PROGRAMS**

2:20 PM - 2:40 PM

Location: Auditorium 2

Speaker: Murulee Byappanahalli

**SUSQUEHANNA (NY) BROOK FLOATER (ALASMIDONTA VARICOSA) POPULATION AND HABITAT ASSESSMENT POST DAM REMOVAL**

2:40 PM - 3:00 PM

Location: Auditorium 2

Speaker: Emily Bulmer

**DIRECT AND INDIRECT INFLUENCES OF DAM MODIFICATION AND FISH PASSAGE PROJECTS ON FRESHWATER MUSSEL COMMUNITIES**

3:00 PM - 3:20 PM

Location: Auditorium 2

Speaker: Meghan Martinski

2:00 PM - 3:20 PM

**Contributed Session: Population Declines and Kills**

Location: Conference Room E

**ACCELERATED FRESHWATER MUSSEL DECLINES IN THE CHEHALIS BASIN, WA**

2:00 PM - 2:20 PM

Location: Conference Room E

Speaker: Emilie Blevins

**Insights from the past; using an archaeological bivalve record to inform the management of modern freshwater mussels**

2:20 PM - 2:40 PM

Location: Conference Room E

Speaker: Alexis Hollander

**A TOOL FOR STANDARDISED, RAPID MUSSEL HEALTH ASSESSMENT IN THE FIELD**

2:40 PM - 3:00 PM

Location: Conference Room E

Speaker: Daniel Cossey

**INVESTIGATING SCANDINAVIAN FRESHWATER PEARL MUSSEL (MARGARITIFERA MARGARITIFERA) MASS MORTALITY EVENTS**

3:00 PM - 3:20 PM

Location: Conference Room E

Speaker: Dan Cossey

3:20 PM - 3:40 PM

**Break**

Location: Conference Center Lobby

3:40 PM - 5:20 PM

**Special Session: State of the science: environmental DNA for freshwater mussels**

Location: Auditorium 1

**CHALLENGES AND OPPORTUNITIES IN USING eDNA METHODS FOR FRESHWATER MUSSEL DETECTION**

3:40 PM - 4:00 PM

Location: Auditorium 1

Speaker: Katy Klymus

**USING ENVIRONMENTAL DNA (eDNA) TO IMPROVE MONITORING OF NATIVE MUSSELS IN RESTORATION PROGRAMS**

4:00 PM - 4:20 PM

Location: Auditorium 1

Speakers: Kasia Przybyla-Kelly, Ashley Spoljaric

**DETECTING RARE FRESHWATER MUSSELS AND THEIR HOSTS: INTEGRATING EDNA AND CONVENTIONAL SURVEYS**

4:20 PM - 4:40 PM

Location: Auditorium 1

Speaker: Sarah Douglass

**USING eDNA FOR CONSERVATION ASSESSMENT OF THE POTENTIALLY EXTINCT WHITE CATSPA W AND OTHER RARE, THREATENED, AND ENDANGERED SPECIES IN NORTHWEST OHIO**

4:40 PM - 5:00 PM

Location: Auditorium 1

Speaker: Nathaniel Marshall

**VIRTUAL: A TARGETED eDNA MONITORING PROGRAM FOR SPECTACLECASE IN THE UPPER MISSISSIPPI RIVER**

5:00 PM - 5:20 PM

Location: Auditorium 1

Speaker: Stephen Spear

3:40 PM - 5:20 PM

**Contributed Session: Bridges to Recovery: Innovative Strategies to Advance Freshwater Mussel Restoration and Conservation**

Location: Auditorium 2

**SUBSTRATE STABILITY AS A METRIC TO ESTIMATE HABITAT FOR NATIVE FRESHWATER MUSSELS IN A LARGE RIVER AND IMPLICATIONS FOR CONSERVATION PRACTICES**

3:40 PM - 4:00 PM

Location: Auditorium 2

Speakers: Jessica Lipschultz, Traci DuBose, Angus Vaughan, Teresa Newton

**REPATRIATING FRESHWATER MUSSELS INTO TOWN CREEK TO RESTORE SPECIES DIVERSITY AND COMMUNITY FUNCTION.**

4:00 PM - 4:20 PM

Location: Auditorium 2

Speakers: Matthew Ashton, Megan Kubala, James McCann

**RESTORING MUCKET (ACTINONAIAS LIGAMENTINA) AND BLACK SANDSHELL (LIGUMIA RECTA) IN SOUTHEAST MINNESOTA**

4:20 PM - 4:40 PM

Location: Auditorium 2

Speakers: Lindsay Ohlman, Bernard Sietman, Zeb Secrist, Isabel Boyce, Zoe Schroeder, Jordan Holcomb, Mike Davis, Madeline Pletta

**THE HUNTERS STATION BRIDGE REPLACEMENT PROJECT, AN OPPORTUNITY FOR ENDANGERED SPECIES RECOVERY**

4:40 PM - 5:00 PM

Location: Auditorium 2

Speakers: Jordan Allison, Nevin Welte, Ryan Miller

**REINTRODUCING FRESHWATER MUSSELS INTO THE RESTORED MISSION REACH OF THE SAN ANTONIO RIVER**

5:00 PM - 5:20 PM

Location: Auditorium 2

Speakers: Mitch Magruder, Austin Davis, Garrett Tucker, Adrian Arroyos, Caille Marshall, Sara Thompson

3:40 PM - 5:20 PM

Contributed Session: Survey Methods and Designs

Location: Conference Room E

QUANTIFYING THE BIAS ASSOCIATED WITH SPATIAL VS TEMPORAL REPLICATION IN SINGLE SEASON OCCUPANCY MODELS: AN APPLICATION FOR RARE FRESHWATER MUSSELS

3:40 PM - 4:00 PM

Location: Conference Room E

Speakers: Michael Baker, Allison Roy, Peter Hazelton

BIOMARKER DISCOVERY FOR EVALUATION OF FRESHWATER MUSSEL (ORDER UNIONIDA) HEALTH AND IMMUNE STATUS

4:00 PM - 4:20 PM

Location: Conference Room E

Speakers: Madison Mueller, Gregory Cope, Catherine LePrevost, Erin McKenney, Jeffrey Yoder, Tal Ben-Horin, Christopher Eads, Loretta Lutackas, Dorian Hayes, Jaclyn Zelko, Heather Evans, Rachael Hoch, J. Michael Fisk

ASSESSMENT OF SPATIAL VARIATION IN POPULATION CONDITION OF THE ESA LISTED GUADALUPE ORB (CYCLONAIAS NECKI), FALSE SPIKE (FUSCONAIA MITCHELLI), AND GUADALUPE FATMUCKET (LAMPSILIS BERGMANNI) IN CENTRAL TEXAS

4:20 PM - 4:40 PM

Location: Conference Room E

Speakers: Lee Gudge, Bradley Littrell, Chad Norris, Kyle Sullivan

APPLICATION OF THE MUSSEL ASSEMBLAGE HEALTH INDEX (MAHI) TO ADDRESS THE DECLINE OF FRESHWATER MUSSELS

4:40 PM - 5:00 PM

Location: Conference Room E

Speakers: Erin McCombs, Wendell Haag, Angela Burrow, Traci DuBose, Steve Price

LEVERAGING PUBLICLY AVAILABLE STATE AND FEDERAL BIOASSESSMENT DATA WITH FRESHWATER MUSSEL SURVEYS

5:00 PM - 5:20 PM

Location: Conference Room E

Speakers: Ryan Holem, Meghan Martinski, Alex Peake, Stu Kogge

5:30 PM - 6:30 PM

PREVIEW Auction Items

Location: Willbanks Ballroom

6:30 PM - 10:30 PM

Banquet Dinner and Auction

Location: Willbanks Ballroom

Thursday, May 15, 2025

7:00 AM - 12:00 PM

Registration Desk

Location: Registration

7:00 AM - 7:30 AM

Talk Uploading

Location: Registration

8:00 AM - 10:00 AM

FMCS 2025 Plenary Session

Location: Willbanks Ballroom

Announcements, updates, and introduction of plenary speaker

8:00 AM - 8:45 AM

Location: Willbanks Ballroom

Speakers: Daelyn Woolnough, Dave Zanatta

Unionids, People & Partnerships: Accelerating knowledge into action to advance freshwater mussel conservation in the Great Lakes

8:45 AM - 10:00 AM

Location: Willbanks Ballroom

Speaker: Catherine Febria

10:00 AM - 10:20 AM

Break

Location: Conference Center Lobby

10:20 AM - 12:00 PM

**Special Session: Freshwater Mussel Data and Databases**

Location: Auditorium 1

**“STORIES FROM THE FIELD” AND THE NEED FOR A CENTRALIZED NATIVE MUSSEL DATA BASE IN MICHIGAN**

10:20 AM - 10:40 AM

Location: Auditorium 1

Speakers: Renee Mulcrone, Kayla McRobb

**VIEWS FROM THE HIGHWAY: BUILDING A DATASET AND MUSSEL PROGRAM IN MICHIGAN**

10:40 AM - 11:00 AM

Location: Auditorium 1

Speakers: Jeff Grabarkiewicz, Kelsey Alvarado

**BEYOND PRESENCE/ABSENCE DATA – TRACKING FRESHWATER MUSSEL RELOCATIONS AND PROPAGATION RELEASES**

11:00 AM - 11:20 AM

Location: Auditorium 1

Speaker: Brian Watson

**IT TAKES A VILLAGE- BUILDING, MAINTAINING, AND IMPLEMENTING A STATEWIDE MOLLUSK DATA MANAGEMENT SYSTEM**

11:20 AM - 11:40 AM

Location: Auditorium 1

Speaker: Brittany Bajo-Walker

**Development of a Federally Listed Mussel Dataset and Analytical Pipeline**

11:40 AM - 12:00 PM

Location: Auditorium 1

Speakers: Bijit Khadka, Bijit Khadka, Eric Olson, Christian Che-Castaldo, Andrew Allstadt

10:20 AM - 11:00 AM

**Contributed Session: Bridges to Recovery: Innovative Strategies to Advance Freshwater Mussel Restoration and Conservation**

Location: Auditorium 2

**LARGE-SCALE MUSSEL RELOCATION IN THE WISCONSIN RIVER - SUCCESSFULLY AVOIDING AND MINIMIZING TAKE OF LISTED SHEEPNOSE AND SALAMANDER MUSSELS**

10:20 AM - 10:40 AM

Location: Auditorium 2

Speakers: Emily Gryga, Brett Ostby, Eric Englund, Ryan Holem, Stu Kogge

**DEVELOPMENT OF AN INVENTORY AND PRACTITIONER NETWORK TO IMPROVE AQUATIC CONSERVATION TRANSLOCATIONS**

10:40 AM - 11:00 AM

Location: Auditorium 2

Speaker: Nathan Whelan

10:20 AM - 12:00 PM

**Contributed Session: Conservation Planning**

Location: Conference Room E

**INCIDENTAL TAKE PERMITS AND HABITAT CONSERVATION PLANS: DEVELOPMENT OF AN HCP FOR FRESHWATER MUSSELS AND AGRICULTURE IN THE SOUTHEASTERN U.S.**

10:20 AM - 10:40 AM

Location: Conference Room E

Speakers: Matthew Rowe, Gail Cowie, Stephen Golladay, Kristin Rowels, Caitlyn Sweeny, Eric Walther

**VIRTUAL: AN AQUATIC SPECIES AT RISK THREAT ASSESSMENT AND PRIORITIZATION EXERCISE FOR THE LOWER THAMES VALLEY CONSERVATION AUTHORITY WATERSHED**

10:40 AM - 11:00 AM

Location: Conference Room E

Speakers: Vicki McKay, Sarah Walton-Rabideau, Neil Pothier, Daniel Nydam, Mark Peacock, Sarbjit Singh

**EDENVILLE DAM RESTORATION PROJECT HABITAT CONSERVATION PLAN FOR THE SNUFFBOX MUSSEL**

11:00 AM - 11:20 AM

Location: Conference Room E

Speakers: Thomas Estrem, Rebecca Sloan

**THE FUTURE OF FRESHWATER MUSSEL PROPAGATION: BRIDGING THE GAP BETWEEN BASIC RESEARCH AND APPLIED ECOLOGICAL RESTORATION INITIATIVES**

11:20 AM - 11:40 AM

Location: Conference Room E

Speakers: Jamie Bucholz, Martha Maxwell-Doyle, Kathy Klein

**COLLABORATIVE WILDLIFE PROTECTION AND RECOVERY INITIATIVE: ADVANCING FRESHWATER MUSSEL CONSERVATION THROUGH COMMUNITY COLLABORATION**

11:40 AM - 12:00 PM

Location: Conference Room E

Speakers: David Hu, Katy Klymus, Teresa Newton

**11:00 AM - 12:00 PM**

**Contributed Session: Survey Methods and Designs**

Location: Auditorium 2

**IMPLEMENTATION OF THE WEST VIRGINIA MUSSEL SURVEY PROTOCOL ON A GROUP 4 SECTION OF THE OHIO RIVER: A CASE STUDY**

11:00 AM - 11:20 AM

Location: Auditorium 2

Speakers: David Foltz II, Adam Benshoff, Alyssa Jones, Thomas Jones, David Ford, Dan Symonds, Aaron Prewitt, Jacob Miller, Casey Swecker, John Spaeth

**SAMPL: AN AGENT BASED MODEL TO EVALUATE SPATIAL SAMPLING STRATEGIES**

11:20 AM - 11:40 AM

Location: Auditorium 2

Speakers: Iris Foxfoot, Kiara Cushway, Rachel Rosenberg, Astrid Schwalb, Todd Swannack

**DAMS AND CLAMS: RESERVOIR DRAWDOWNS AND FRESHWATER MUSSEL RELOCATIONS.**

11:40 AM - 12:00 PM

Location: Auditorium 2

Speakers: Joe Rathbun, Elle Gulotty, Kesiree O'Brien

**12:00 PM - 2:00 PM**

**FMCS 2025 Business Lunch**

Location: Willbanks Ballroom

Speakers: Megan E. Bradley, Amy Maynard, Alan Christian

**2:00 PM - 3:00 PM**

**Special Session: Freshwater Mussel Data and Databases**

Location: Auditorium 1

**INVASIVE AND NON-LISTED MUSSEL SPECIES DATA COLLECTION AND HISTORIC DATA CONSOLIDATION**

2:00 PM - 2:20 PM

Location: Auditorium 1

Speakers: Michael Hillary, Rebecca Rogers, Peter Badra, Lucas Nathan, Mark Tonello, Cleo Harris, Jennifer Johnson

**MICHIGAN'S NATURAL HERITAGE DATABASE – HOW SNAILS AND MUSSELS ARE TRACKED IN MICHIGAN**

2:20 PM - 2:40 PM

Location: Auditorium 1

Speaker: Rebecca Rogers

**MICHIGAN FRESHWATER MUSSEL DATABASE DEVELOPMENT PROJECT**

2:40 PM - 3:00 PM

Location: Auditorium 1

Speaker: Jocelynne Samu-Pittard

**2:00 PM - 3:20 PM**

**Contributed Session: Monitoring Results and Status**

Location: Auditorium 2

**A TALE OF TWO ISLANDS: MOLLUSK INVENTORY UPDATES AT OHIO RIVER ISLANDS NATIONAL WILDLIFE REFUGE**

2:00 PM - 2:20 PM

Location: Auditorium 2

Speakers: Elaine Barr, Rachel Katz

**MUSSEL AND GASTROPOD DISTRIBUTIONS IN EL SALVADOR**

2:20 PM - 2:40 PM

Location: Auditorium 2

Speakers: Enrique Barraza, Kentaro Inoue, Verónica Melara

**FRESHWATER MUSSELS OF CENTRAL AND SOUTH AMERICA (UNIONIDAE, HYRIIDAE, MYCETOPODIDAE): DISTRIBUTIONAL PATTERNS AND OTHER COOL STUFF**

2:40 PM - 3:00 PM

Location: Auditorium 2

Speakers: Kevin Cummings, Daniel Graf



2:00 PM - 3:20 PM

**Contributed Session: Life History**

Location: Conference Room E

**CONSEQUENCES OF LONG-TERM DECLINES IN FRESHWATER MUSSEL ABUNDANCE  
DEPEND ON LIFE HISTORY STRATEGIES**

2:00 PM - 2:20 PM

Location: Conference Room E

Speakers: Jonathan Lopez, Carla Atkinson, Caryn Vaughn

**POLYMORPHISM IN THE AGGRESSIVE MIMICRY LURE OF THE PARASITIC  
FRESHWATER MUSSEL LAMPSILIS FASCIOLA**

2:20 PM - 2:40 PM

Location: Conference Room E

Speakers: Trevor Hewitt, Paul Johnson, Michael Buntin, Talia Moore, Diarmaid Ó Foighil

**FIRST REPORT OF PARAERGASILUS RYLOVI IN FRESHWATER MUSSELS IN POLAND**

2:40 PM - 3:00 PM

Location: Conference Room E

Speakers: Maria Urbanska, Sandra Kazmierczak, Daria Skibinska, Manuel Lopes Lima, Kamil Szpotkowski, Jouni Taskinen

**PARASITES AFFECTS FRESHWATER MUSSELS' BEHAVIOR**

3:00 PM - 3:20 PM

Location: Conference Room E

Speakers: Sandra Kazmierczak, Daria Skibinska, Nicoletta Riccardi, Sheila Rinaldi, Maria Urbanska

3:00 PM - 3:20 PM

**Contributed Session: Freshwater Mussel Data and Databases**

Location: Auditorium 1

**10 YEARS OF DATA COLLECTION THROUGH THE OHIO MUSSEL SURVEY PROTOCOL  
AND THE ODNR/ODOT DATABASE**

3:00 PM - 3:20 PM

Location: Auditorium 1

Speakers: Megan Michael, Jeffrey Gordon

3:20 PM - 3:40 PM

**Break**

Location: Conference Center Lobby

3:40 PM - 5:20 PM

**Special Session: State of the science: environmental DNA for freshwater mussels**

Location: Auditorium 1

**DEVELOPMENT AND VALIDATION OF ENVIRONMENTAL DNA ASSAYS FOR THE  
DETECTION OF FRESHWATER MUSSELS**

3:40 PM - 4:00 PM

Location: Auditorium 1

Speakers: Eric Waits, Lucas Smith, Kathleen Patnode, Janet Clayton, Monte McGregor, Taylor Fagin, Michael Compton, Nathaniel Shoobs, Amy Bergdale

**DEVELOPING A COORDINATED APPROACH TO EVALUATE FRESHWATER MUSSELS  
ACROSS OREGON AND WASHINGTON**

4:00 PM - 4:20 PM

Location: Auditorium 1

Speakers: Michele Weaver, Marie Winkowski, Emilie Blevins

**FROM SPECIES DETECTION TO CONSERVATION ASSESSMENT AND PLANNING: AN  
eDNA PERSPECTIVE**

4:20 PM - 4:40 PM

Location: Auditorium 1

Speakers: Manuel Lopes Lima, Vincent Prié

**ASSESSING THE POTENTIAL FOR ENVIRONMENTAL DNA TO PROVIDE THE BASIC  
INFORMATION NEEDED FOR REGULATORY DETERMINATIONS**

4:40 PM - 5:00 PM

Location: Auditorium 1

Speakers: William Fleece, Nathaniel Marshall

**eDNA ROUND TABLE DISCUSSION**

5:00 PM - 5:20 PM

Location: Auditorium 1

3:40 PM - 5:20 PM

**Contributed Session: Monitoring Results and Status**

Location: Auditorium 2

**HENS TEETH AND EBONYSHELLS: SEARCHING FOR ROUND EBONYSHELL (REGINAIA ROTULATA) IN THE CONECUH RIVER, ALABAMA, USA**

3:40 PM - 4:00 PM

Location: Auditorium 2

Speakers: Michael Gangloff, M Worth Pugh, Elijah Thompson, Jon Wells, Sandra Pursifull

**RESULTS FROM A MULTI-PHASE STUDY IN THE KANKAKEE RIVER OF ILLINOIS AND INDIANA**

4:00 PM - 4:20 PM

Location: Auditorium 2

Speakers: David Ford, Chad Lewis

**RESULTS OF MUSSEL SURVEYS FROM THE UPPER ROCK RIVER IN WISCONSIN AND ILLINOIS AND THE DISCOVERY OF LIVE CYCLONAIAS TUBERCULATA (PURPLE WARTYBACK)**

4:20 PM - 4:40 PM

Location: Auditorium 2

Speakers: David Ford, Aaron Prewitt, Alyssa Jones, Thomas Jones

**LONG TERM CHANGES TO MUSSEL ASSEMBLAGES IN POOLS 2-10 OF THE UPPER MISSISSIPPI RIVER – A GLIMMER OF HOPE?**

4:40 PM - 5:00 PM

Location: Auditorium 2

Speakers: Jordan Holcomb, Dan Kelner, Zeb Secrist, Mike Davis, Zoe Schroeder, Kate Holcomb

**OCCUPANCY AND DISTRIBUTION OF SWAP LISTED FRESHWATER MUSSEL SPECIES IN SOUTH CAROLINA**

5:00 PM - 5:20 PM

Location: Auditorium 2

Speakers: Ericah Beason, Morgan Kern

3:40 PM - 5:20 PM

**Contributed Session: Population Declines and Kills**

Location: Conference Room E

**MICROBIOME ANALYSIS HIGHLIGHTS INTERPLAY BETWEEN BACTERIA AND FRESHWATER MUSSELS**

3:40 PM - 4:00 PM

Location: Conference Room E

Speakers: Heather Evans, Madelyn McCutcheon, Rachael Hoch

**MULTIPLE INVASIONS DECIMATE THE MOST IMPERILED FRESHWATER INVERTEBRATES**

4:20 PM - 4:40 PM

Location: Conference Room E

Speakers: Alexander Karatayev, Lyubov Burlakova, Vadim Karateyev, John Cooper, Lars Rudstam

**SILENT VICTIMS OF THE PYROCENE: FUNCTIONAL EXTIRPATION OF FRESHWATER MUSSELS FOLLOWING CATASTROPHIC WILDFIRE**

4:40 PM - 5:00 PM

Location: Conference Room E

Speakers: Andrew Lawrence, Sarah Kupferberg, Rebecca Bradley, Andrew Rypel, Jacquelyn Hancock

**CHARACTERISTICS OF THE MICROBIOME OF JUVENILE FRESHWATER MUSSELS IN THE CONTEXT OF ENIGMATIC MUSSEL DECLINES IN THE EASTERN USA**

5:00 PM - 5:20 PM

Location: Conference Room E

Speakers: Charlotte Ford, Wendell Haag, Andrew Ibach, Price Steven, Monte McGregor, Bernard Sietman, Alison Stodola, Tim Lane, Tony Goldberg

6:00 PM - 8:00 PM

**Michigan Mussel ID Test**

Location: Conference Room A

---

**Friday, May 16, 2025**

8:45 AM - 3:00 PM

**Field Trips**

Location: HOTEL LOBBY (NOT FMCS REGISTRATION DESK)

Speaker: Eric Snyder

