

# SYMPOSIUM PROGRAM

## Sunday, May 31st

10:00 Workshop Crayfish IUCN red list training and assessment

16:00 - Registration  
18:00

## Monday, June 1st

08:00 Registration

08:45 IAA25 Opening Ceremonies

09:15 **Sture Abrahamson lecture** **Crayfishes in the USA: What Good Are They? And**  
**Robert DiStefano** **What Are We Doing for Them?**

**Session: Conservation and Biogeography**

**Moderator: Zackary Graham**

10:00 Bronwyn Williams An integrative conservation assessment of crayfishes in the Coastal Plain of North Carolina, South Carolina, and Georgia

10:15 Ivana Maguire Insights into the Current Distribution of Native Crayfish and Their Future Prospects in Croatia

10:30 Parker Hildreth Resolution of the *Cambarus pristinus* species complex identifies new species amid growing conservation concerns across the Cumberland Plateau in Tennessee

10:45 David Livadariu Bridging the Gap Between Occurrence Data and Conservation Action: Automated Workflows, Temporal Awareness, and AI-Ready Evidence

11:00 **Break**

**Session: Conservation and Biogeography II**

**Moderator: Ivana Maguire**

11:30 Jaden Rusnak Updated Distributions of *Cambarus monongalensis* and *Lacunicambarus thomai* in Western Pennsylvania

11:45 Reginald Turner Environmentally Informed Clustering Reveals Cryptic Crayfish Community Structure in the Ogeechee River Basin

12:00 Kaleb Norris Updated Occurrence and Species Accounts of Crayfish in Southeastern Kentucky's Upper Cumberland River Subbasin

12:15 Emmy Delekta The Most Important Thing You Collect Isn't the Crayfish:  
Data Stewardship in Modern Astacology

12:30 **Lunch**

**Session: Ecology**

**Moderator: Bram Koese**

14:00 Zanethia Barnett Does Forest Type Matter? Assessing Food Resource and  
Trophic Niche Difference of Stream Crayfishes

14:15 Björn Rogell Plasticity and local adaptation in growth rates across  
northern populations of crayfish

14:30 Golara Kor Impact of VIE Tags on *P. clarkii* Juvenile Growth and  
Survival

14:45 James Hartley Range-wide assessment of life history traits in burrowing  
crayfish *Cambarus monongalensis* (Blue Crawfish).

15:00 Hannah Holbert Juvenile Life History, Growth, and Maternal Behavior of  
the Little Brown Mudbug (*Lacunicambarus thomai*)

15:15 Lindsey Reisinger The influence of forest type on leaf litter resources and  
breakdown by freshwater crayfish

15:30 **Break**

**Session: Ecology II**

**Moderator: Brian Roth**

16:00 Katherine Torrence Seeing the Spectrum: Investigating Color Vision in  
Freshwater Crayfish

16:15 Olivier Raven Habitat use and distribution of freshwater crayfish in  
response to littoral artificial reefs

16:30 Rachel Chaffee Utilizing eDNA to identify associated biodiversity in  
crayfish burrows

16:45 Dusty Swedberg Seasonal Emergence and Habitat Vulnerability of  
*Procambarus brazoriensis* in Coastal Texas Wetlands

17:00 Augusto Huber No Claws, No Catch? Feeding Performance After Claw  
Loss in the Signal Crayfish

17:15 Raymond Bailey The Impacts of Abiotic and Biotic Factors on the  
Diversity and Abundance of Branchiobdellidans, an  
Ectosymbiont of the Big Water Crayfish in New York State

18:00 **IAA Board Meeting**

## Tuesday, June 2<sup>nd</sup>

8:00 Registration

8:30 **Plenary Speaker:**  
**Christopher Taylor**

**Southeastern US Crayfish Diversity: a globally unique resource**

**Session: Genetics**

**Moderator: David Foltz**

9:00 Patrick Allison

Discovery, Delimitation, and Conservation of *Creaserinus* Burrowing Crayfish Species

9:15 Alyssa Oppedisano

A taxonomic revision of Atlantic slope *Creaserinus fodiens* (Digger Crayfish) with an emphasis on Virginia populations

9:30 Brooke Grubb

Probe efficacy and an initial phylogenomic reconstruction of freshwater crayfish using anchored hybrid enrichment

9:45 Caitlin Bloomer

Evaluating the Slenderwrist Burrowing Crayfish, *Fallicambarus petilicarpus*, for Endangered Species Act listing

10:00 Shiyang Wu

Toward a Whole-Genome Phylogeny of Missouri Crayfishes: Building Genomic Foundations for an Ecological Radiation

10:15 Keith Crandall

The Wonderful World of Freshwater Crayfish – a phylogenetic perspective

10:30 Break

**Session: Physiology**

**Moderator: Tanya Khan**

11:00 Jacob Westhoff

Integrating diel temperature fluctuation into thermal metric estimation for crayfish

11:15 David Weese

Linking Upper Thermal Limits and Long-Term Survival in Freshwater Crayfish

11:30 Stacy Schmidt

Thermal stress reveals sublethal disease effects in crayfish plague-exposed *Faxonius virilis*

11:45 Pavel Kozák

Heartbeat and respiration of crayfish. Study and possible applications.

12:00 **Lunch**

**Session: Movement Ecology**

**Moderator: Jenny Zimmerman**

- 14:00 Zackary Graham Surface behavior in the Blue Crawfish, *Cambarus monongalensis*
- 14:15 Wesley Fitzsimmons Crayfish on the Move: Movement Rates of Invasive Woodland Crayfish in the St. Francis River Basin
- 14:30 Calvin Rezac Determining the status, surface activity, and movements of Jackson Prairie Crayfish (*Procambarus barbiger*)
- 14:45 Casey Davis Movements of the Coldwater Crayfish *Faxonius eupunctus*; a preliminary study using passive integrated transponder tags

15:00 **Break**

**Session: Aquaculture**

**Moderator: Archis Grubh**

- 15:45 Jay Huner The Status of the Modern Louisiana Crayfish Aquaculture Industry
- 16:00 Renee Hintz Effect of Surface Area on Survival and Growth Rate of *Procambarus clarkii* Juveniles in a Recirculating Aquaculture System
- 16:15 Andrew Phipps Propagation of Big Sandy Crayfish at White Sulphur Springs NFH
- 16:30 Jordan Holcomb Evaluating critical oxygen requirements of *Procambarus clarkii* and implications for aquaculture management
- 16:45 Jenny Zimmerman Design of an aquaculture facility to increase conservation success of noble crayfish (*Astacus astacus*) after restocking to a cold-water stream
- 17:00 Kaelyn Fogelman From Tradition to Innovation: Charting the Future of U.S. Crayfish Aquaculture

17:15 **Break**

18:00 **Poster session**

**Wednesday, June 3<sup>rd</sup>**

8:00 Field excursion

## Thursday, June 4th

8:30 **Plenary Speaker:**  
**Susan B. Adams** **Beloved native or insidious invasive?**  
**Multidisciplinary approaches to assessing the**  
**provenance of Signal Crayfish in Montana, USA**

### Session: Invasive Species I

**Moderator: Jacob Westhoff**

9:00 Brian Roth Adaptive management of red swamp crayfish invasions in Michigan

9:15 Archis Grubh Morphometric variation and its implications for managing an emerging crayfish invader in Texas

9:30 William Budnick A successful interjurisdictional effort to assess and communicate about invasive crayfish in the pet trade: Achievements and lessons learned for the Great Lakes region of the United States

9:45 Sandra Hudina Ornamental Crayfish Trade Regulation in European context: A Cross-Country Comparison

10:00 Jofina Victor Management and Eradication Efforts to an Occurrence of Invasive Marbled Crayfish (*Procambarus virginalis*) in Ontario, Canada

10:15 **Break**

### Session: Biological Control

**Moderator: Augusto Huber**

10:45 David Lieb Keystone species interactions: Can American eels restrict establishment of non-native crayfish?

11:00 William Ota Crayfish Surveillance and Monitoring in the Great Lakes Basin

11:15 Cody Cretini Efficacy of invasive carp as bait for wild crayfish in the Atchafalaya River Basin, Louisiana

11:30 Aaron Sullivan Assessing the Potential of Native Michigan Predatory Fish as Biological Control Agents of the Invasive Red Swamp Crayfish (*Procambarus clarkii*)

11:45 Daniela Ghia Volunteers control and reduce the spreading of invasive crayfish by pleopod sterilisation

12:00 **Lunch**

### Session: Monitoring

**Moderator: Premek Hamr**

14:00 Patrik Bohman Twenty years of monitoring a biological invasion

- 14:15 PJ Torres Widespread detection and establishment of the Australian red-claw crayfish (*Cherax quadricarinatus*) in Puerto Rican reservoirs
- 14:30 Ljudevit Luka Boštjančič Monitoring of freshwater crayfish through passive eDNA collection in major rivers of Hesse (Germany)
- 14:45 Bogna Griffin Where Have All the Yabbies Gone?
- 15:00 **Break**

**Session: Invasive Species II**

**Moderator: Lucian Pârvulescu**

- 15:30 Greg Rothman Patterns of host-symbiont associations in native and non-native Red Swamp Crayfishes
- 15:45 Karman Morgan Ecotoxic effect of a soil-stabilizing root-bacterial exopolysaccharide salt on the reproduction of *Procambarus clarkii*
- 16:00 Premek Hamr “Crawfish Eh !?”: First records and distribution of the invasive crayfish *P. clarkii* in Ontario, Canada.
- 16:15 Mackenzie Thompson Using Geometric Morphometrics to Quantify Morphological Divergence of *Procambarus clarkii* in southern Michigan
- 16:30 **Break**
- 18:00 **Social & Auction**

## Friday, June 5th

9:00 **Plenary Speaker:** **Shasta Crayfish, the last California native crayfish**  
**Maria J. Ellis**

### Session: Pathogens & Plague I

**Moderator: Cheyenne Stratton**

- 9:30 Bogna Griffin Evolution of Ireland's National Crayfish Plague Programme: From Method Validation to Active Species Recovery
- 9:45 Valentina Paolini Genetic characterisation of *Aphanomyces astaci* from Italian crayfish plague outbreaks in white-clawed crayfish
- 10:00 Gianluca Fea Transmission of *Astathelohania contejeani* in the Invasive Signal Crayfish *Pacifastacus leniusculus*
- 10:15 Nadine Bleile Population estimation of invasive crayfish (*Procambarus clarkii* and *Faxonius virilis*) across 124 acres of low-peatland using a mark-recapture and a depletion method

10:30 **Break**

### Session: Pathogens & Plague II

**Moderator: Bogna Griffin**

- 11:00 Tobia Pretto White-clawed crayfish (*Austropotamobius pallipes* complex) populations co-exist with *Aphanomyces astaci* genotype group A in north-western Italy
- 11:15 Ljudevit Luka Boštjančić Uncovering the virome of the invasive calico crayfish (*Faxonius immunitis*) - CaliVir
- 11:30 Tin Škugor Host-pathogen dynamics under climate change: Uncovering the potential distribution of crayfish and the crayfish plague pathogen *Aphanomyces astaci* using Species Distribution Modelling
- 11:45 Cheyenne Stratton More Than Meets the Claw: Hidden Disease Dynamics in a Crayfish Invasion

12:00 **Break**

12:30 **IAA25 General Assembly, Announcements and Closing Ceremonies**

## POSTERS

NO.	PRESENTER	TITLE
1	Dora Pavić	Differential susceptibility of <i>Aphanomyces astaci</i> genotypes and developmental stages to temperature
2	Sofia Poludniak	Project Crawdad: A Conservation Outreach Approach for Imperiled Crayfish in Appalachia
3	Kayla Aungst	Using Radio Telemetry to Track <i>Cambarus callainus</i> Movement in Response to Dam Removal
4	Hayley Holbert	Utilizing Morphometrics to Determine Burrowing Type in Fossil Crayfish
5	Robi McGarvey	Distribution and habitat assessment of secondary and tertiary burrowing crayfish in the Pearl River basin, Louisiana
6	Jonathan Eisenhour	Distribution and habitat assessment of primary burrowing crayfish in the Pearl River basin, Louisiana
7	Bogna Griffin	Chasing the plague, one passive filter at a time
8	Augusto Huber	Missing Pieces: Appendage Injury Rates and Vulnerability in Laboratory-Stocked Marbled Crayfish
9	Andrea Basso	Crayfish plague outbreak in a white-clawed crayfish breeding facility caused by broodstock with undetected chronic <i>Aphanomyces astaci</i> infection
10	Elizabeth Croft	Assessing The Conservation Needs of Native Texas Crayfish Species Through Distribution Analysis and Species Distribution Modeling
10	Ljudevit Luka Boštjančić	Preliminary results of the model application of crayfish plague vaccine (immune priming) in the noble crayfish
12	Jenny Zimmerman	Survival of <i>Aphanomyces astaci</i> after treatment with heat, ozone and UV-light
13	Nico Salazar	Crayfish Communities in Near-Estuarine Habitats of Coastal Georgia, USA
14	Pedro Solis	Preliminary Research on <i>Pennides (Procambarus)</i> Crayfish Systematics in Mississippi

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| <b>15</b> | Christopher Bonvillain                             | Life history of the Pontchartrain Painted Crayfish <i>Faxonius hobbsi</i> , a species of greatest conservation need in Louisiana |
| <b>16</b> | Evan Wahmhoff                                      | Contemporary Assessment of Crayfish Assemblages in the Altamaha River Basin, Georgia   |
| <b>17</b> | Kyla Schmitt                                       | Native Population Characteristics of <i>Pacifastacus leniusculus</i> (Dana, 1852) in Tryon Creek, Oregon                         |
| <b>18</b> | Ryan Coates<br>(presented by<br>Cheyenne Stratton) | The New Student Has Claws: Eradication Efforts for an Introduced Red Swamp Crayfish Population on a University Campus            |
| <b>19</b> | Jacob Westhoff                                     | Crayfish movement ecology: a comprehensive literature review   |
| <b>20</b> | Shiyang Wu   | Ecomorphological Divergence in Missouri Crayfishes: Linking Habitat Specialization to Body Shape                                 |
| <b>21</b> | David Foltz  | Two new crayfish species (Decapoda: Cambaridae) from the James River Basin of Virginia, USA.                                     |
| <b>22</b> | Albert "Rusty" Gaude III                           | Educational Opportunities in Home Crawfish Production  |

