

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**THURSDAY, 31 JULY, Afternoon Sessions**

| ROOM                  |     | <i>Banquet Room E</i>   |     | <i>Banquet Room F</i>   |
|-----------------------|-----|---|-----|---|
| SESSION/<br>SYMPOSIUM |     | <b>AES BEHAVIOR</b>   |     | <b>ASIH STOYE ECOLOGY &amp; ETHOLOGY</b>  |
| MODERATOR             |     | <b>DEAN GRUBBS</b>  |     | <b>KRISTIN BAKKEGARD</b>  |
| 1:30 PM               | 488 | <b>Gregory Skomal*, John Chisholm</b>   | 50  | <b>Joshua Holbrook*, Nathan Dorn</b>  |
|                       |     | Movements of White Sharks in the Western North Atlantic   |     | Factors Influencing Wetland Reptile and Amphibian Community Composition   |
| 1:45 PM               | 425 | <b>James Sulikowski*, Amy Carlson, Lance Jordan</b>   | 186 | <b>Nicholas Levis*, Jarrett Johnson</b>   |
|                       |     | The Little Shark that Could: The Amazing Travels of a Young of the Year Porbeagle Shark                                       |     | Level of UV-B Radiation Influences the Effects of Glyphosate-based Herbicide on Fitness of the Spotted Salamander ( <i>Ambystoma maculatum</i> )  |
| 2:00 PM               | 600 | <b>Elizabeth Clingham, Judith Brown, Alistair Dove, John Tyminski, Robert Hueter*</b>   | 198 | <b>Abigail Berkey*, Marlis Douglas, Christopher Phillips</b>  |
|                       |     | Observations and First Tagging of Whale Sharks off St. Helena in the South Atlantic   |     | Influence of Kinship on the Social Behavior of the Four-Toed Salamander, <i>Hemidactylium scutatum</i>  |
| 2:15 PM               | 202 | <b>Tristan Guttridge*, Steven Kessel, Demian Chapman, et al</b>   | 289 | <b>Kortney Jaworski*, Cari-Ann Hickerson, Carl Anthony</b>  |
|                       |     | Movement Patterns and Habitat Use of the Great Hammerhead Shark, <i>Sphyrna mokarran</i> in Bimini, Bahamas and Florida, USA. |     | Male Mate Choice as a Potential Mechanism for Assortative Mating in a Polymorphic Salamander ( <i>Plethodon cinereus</i> )  |
| 2:30 PM               | 645 | <b>R. Dean Grubbs*, Charles Cotton, Toby Daly-Engel, David Kerstetter</b>   | 384 | <b>Mason Murphy*, Steven Price, Michael Dorcas</b>  |
|                       |     | Post-release Survival and Vertical Movements of Bluntnose Sixgill Sharks ( <i>Hexanchus griseus</i> ) in Four Oceanic Regions |     | The Effects of Urbanization on Salamander Body Sizes Using a Before-after Control-impact Design   |
| 2:45 PM               | 172 | <b>Andrew Nosal*, Philip Hastings</b>   | 571 | <b>Brittany Ousterhout*, Raymond Semlitsch</b>  |
|                       |     | Shoreward Homing in Experimentally Displaced Leopard Sharks ( <i>Triakis semifasciata</i> )                                   |     | Natal Pond Conditions and Juvenile Habitat Affect Distance Moved By Ringed Salamanders ( <i>Ambystoma annulatum</i> )   |
| 3:00 PM               |     | <b>BREAK - Exhibit Hall C &amp; D</b>   |     |   |
| SESSION/<br>SYMPOSIUM |     | <b>AES BEHAVIOR</b>   |     | <b>ASIH STOYE ECOLOGY &amp; ETHOLOGY</b>  |
| MODERATOR             |     | <b>CHRISTINE BEDORE</b>   |     | <b>TOM TURNER</b>   |
| 3:30 PM               | 563 | <b>Andrea Launer*, Richard Starr, David Ebert</b>   | 190 | <b>Parker House*, Larry Allen</b>   |
|                       |     | Sex-specific Differences in Residency and Movement of Leopard Sharks ( <i>Triakis semifasciata</i> ) in a California Estuary  |     | Direct and Indirect Impacts of Fishing on the Trophic Structure of Kelp Forest Fishes Off Southern California   |
| 3:45 PM               | 38  | <b>Owen O'Shea*, John Mandleman, Brendan Talwar, Edward Brooks</b>  | 568 | <b>Lynne Wetmore*, Jay Rooker, William Heyman</b>   |
|                       |     | Hierarchical Predation Behaviour in Four Species of Marine Apex Predator: Does Size Matter?                                   |     | Watershed Impacts on Food Web Dynamics and Trophic Productivity for Nursery-Associated Juvenile Snappers in Belize  |
| 4:00 PM               | 117 | <b>Csilla Ari</b>   | 750 | <b>Daniel Fitzgerald*, Mario Zuluaga, Tommaso Giarrizzo, et al</b>  |
|                       |     | Rapid and Long-term Coloration Changes of Manta Rays (genus <i>Manta</i> )  |     | Food Web Structure of the Lower Xingu River: A Unique and Immediately Imperiled Ecosystem in the Lower Amazon Basin   |
| 4:15 PM               | 646 | <b>Christine Bedore*, Stephen Kajiura, Sönke Johnsen</b>  | 599 | <b>Bonnie Ahr*, Michael Farris, Christopher Lowe</b>  |
|                       |     | Bioelectric Crypsis in Cephalopods Reduces Detection by Shark Predators   |     | Hierarchical Habitat Selection and Utilization of White Croaker ( <i>Genyonemus lineatus</i> ) in the Los Angeles and Long Beach Harbor and the Development of Predictive Habitat Use Models  |
| 4:30 PM               | 516 | <b>Jayne Gardiner*, Nicholas Whitney, Robert Hueter</b>   | 635 | <b>Brenton Spies*, Mark Steele</b>  |
|                       |     | Smells Like Home: Olfactory Contributions to Homing Behavior in Blacktip Sharks   |     | Effects of Temperature and Latitude on Larvae Traits of Two Estuarine Fishes in Differing Estuary Types   |
| 4:45 PM               |     |   | 751 | <b>Jerrod Tynes*, Lani Lyman-Henley</b>   |
|                       |     |   |     | A Comparison of the Arboreal Behavior of Old World ( <i>Coelognathus</i> ), New World ( <i>Pantherophis</i> & <i>Scotophis</i> ), and Hybrid ( <i>Pantherophis</i> + <i>Scotophis</i> , <i>Pituophis</i> + <i>Scotophis</i> ) Colubrid Snakes |
| 5:00 PM               |     |   |     |   |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**THURSDAY, 31 JULY, Afternoon Sessions**

|                                       | <i>Banquet Room G</i>  |            | <i>Banquet Room H</i>   | ROOM                          |
|---------------------------------------|--|------------|---|-------------------------------|
|                                       | <b>ASIH STOYE GENERAL ICHTHYOLOGY I</b>  |            | <b>HL GRADUATE STUDENT AWARD</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>BARRY CHERNOFF</b>  |            | <b>MEREDITH MAHONEY</b>   | <b>MODERATOR</b>              |
| <b>580</b>                            | <b>Edward Burress*, Milton Tan, Jonathan Armbruster</b>  | <b>129</b> | <b>Amanda Bennett*, Dennis Murray</b>   | <b>1:30 PM</b>                |
|                                       | Ecological Diversification Among Adaptive Radiations of Neotropical Cichlids   |            | Thanks Mom! Maternal Body Condition Influences Magnitude of Anti-predator Response in Tadpoles  |                               |
| <b>583</b>                            | <b>Samuel Borstein*, Matthew McGee</b>   | <b>252</b> | <b>Rachel Rhymer*, Jeanne Robertson, Gilberto Flores, Robert Espinoza</b>   | <b>1:45 PM</b>                |
|                                       | Mouthbrooding Does Not Constrain Craniofacial Diversity in Lake Tanganyikan Cichlids   |            | Why do Parents Care? Testing the Roles of Maternal Care in an Argentinean Lizard  |                               |
| <b>660</b>                            | <b>Jack Craig</b>  | <b>397</b> | <b>Christopher Schalk*, Daniel Saenz</b>  | <b>2:00 PM</b>                |
|                                       | Community Phylogenetics Illuminates the Origin of the Fitzcarrald Fish Fauna, Peruvian Amazon  |            | Abiotic Drivers of Anuran Calling Activity in a Seasonal Neotropical Environment  |                               |
| <b>524</b>                            | <b>Andrea T. Thomaz*, Vinicius A. Bertaco, Luiz R. Malabarba, L. Lacey Knowles</b>   | <b>44</b>  | <b>Nathan Byer*, Richard Seigel, Scott Smith</b>  | <b>2:15 PM</b>                |
|                                       | Species Delimitation Integrating Morphological and Genetic Data Within a Bayesian Framework Using iBPP: Application in the Southeastern Brazilian Species Complex <i>Hollandichthys</i> (Teleostei: Characiformes) |            | Threatened from the Start: Nest Success and Nesting Ecology of the Federally-Threatened Bog Turtle, <i>Glyptemys muhlenbergii</i>                 |                               |
| <b>573</b>                            | <b>Kory Evans</b>  | <b>596</b> | <b>Sandra Galeano*, Kyle Harms</b>  | <b>2:30 PM</b>                |
|                                       | On Knifefishes and Needlefishes: Ontogeny and phylogeny of mouth position  |            | Coloration in the Polymorphic Frog <i>Oophaga pumilio</i> Predicts Aggressiveness and the Outcome of Intraspecific and Interspecific Interactions |                               |
| <b>247</b>                            | <b>Maxwell Bernt</b>   | <b>225</b> | <b>Jennifer Lamb*, Hardin Waddle, Carl Qualls</b>   | <b>2:45 PM</b>                |
|                                       | The <i>Apteronotus bonapartii</i> Species Group (Apteronotidae: Gymnotiformes): A Widespread Phenotype across the South American Platform  |            | Asymmetric Interactions among Brook Salamanders (Genus <i>Eurycea</i> , Family Plethodontidae) in the Gulf Coastal Plain.                         |                               |
| <b>BREAK - Exhibit Hall C &amp; D</b> |  |            |   | <b>3:00 PM</b>                |
|                                       | <b>ASIH STOYE GENERAL ICHTHYOLOGY I</b>  |            | <b>HL GRADUATE STUDENT AWARD</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>MARK WESTNEAT</b>   |            | <b>DAVID GREEN</b>  | <b>MODERATOR</b>              |
| <b>658</b>                            | <b>Ray Schmidt</b>   | <b>406</b> | <b>Thomas Anderson*, Raymond Semlitsch</b>  | <b>3:30 PM</b>                |
|                                       | Historical Biogeography of Fishes of the Fouta Djallon Highlands and Surrounding Areas   |            | Multiple Predator Effects and Habitat Complexity Alter a Larval Salamander Intraguild Predation Module  |                               |
| <b>259</b>                            | <b>James Cureton</b>   | <b>454</b> | <b>Katherine O'Donnell*, Frank Thompson, Raymond Semlitsch</b>  | <b>3:45 PM</b>                |
|                                       | Phenotypic Divergence With or Without Gene Flow? That is the Question  |            | Using Binomial Mixture Models to Partition Detectability Components in Terrestrial Salamander Populations   |                               |
| <b>42</b>                             | <b>Hannah Owens</b>  | <b>611</b> | <b>Kyle Miller Hessed*, William Link</b>  | <b>4:00 PM</b>                |
|                                       | Investigating Modes of Speciation in Trans-Isthmian Haemulid Grunts  |            | Growth, Maturation, and Spatial Ecology of the Red-backed Salamander ( <i>Plethodon cinereus</i> )  |                               |
| <b>292</b>                            | <b>Jennifer Martin*, Eric Hilton</b>   | <b>62</b>  | <b>Andrea Long*, Lora Smith, Mike Conner, Robert McCleery</b>   | <b>4:15 PM</b>                |
|                                       | Ontogeny and Biogeography of the Ribbonfish Genus <i>Zu</i> (Lampridiformes: Trachipteridae): a Revision   |            | The Effect of Red-imported Fire Ants on Eastern Fence Lizard Recruitment and Survival   |                               |
| <b>30</b>                             | <b>Valerie Derouen*, William Ludt, Prosanta Chakrabarty</b>  | <b>608</b> | <b>Kirsten Hecht*, Max Nickerson, Michael Freake, Phil Colclough</b>  | <b>4:30 PM</b>                |
|                                       | Phylogeny and Divergence Time Estimation in Batfishes (Lophiiformes: Ogocephalidae)  |            | The Potential Influence of Geology on Hellbender ( <i>Cryptobranchus alleganiensis</i> ) Populations  |                               |
| <b>603</b>                            | <b>Rachel Arnold</b>   | <b>182</b> | <b>Chelsea Kross*, Stephen Richter</b>  | <b>4:45 PM</b>                |
|                                       | Evolutionary Relationships of the Enigmatic Anglerfishes (Teleostei: Lophiiformes): Can Nuclear DNA Provide Resolution for Conflicting Morphological and Mitochondrial Phylogenies?                                |            | Effects of Interactions Between Species in an Anthropogenically Altered Ridge-Top Wetland Ecosystem.  |                               |
|                                       |  | <b>91</b>  | <b>Molly Wright*, Sara Brown, Steven Sallinas, et al</b>  | <b>5:00 PM</b>                |
|                                       |  |            | The Impacts of Wildfire on the Population Dynamics of Amphibians in northern New Mexico and southern Colorado.                                    |                               |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

THURSDAY, 31 JULY, Afternoon Sessions

| ROOM                  |     | <i>Banquet Room I</i>   |     | <i>Banquet Room J</i>  |
|-----------------------|-----|---|-----|--|
| SESSION/<br>SYMPOSIUM |     | SSAR SEIBERT ECOLOGY  |     | ASIH STOYE ECOLOGY & ETHOLOGY/<br>ASIH STOYE GENETICS, DEVELOPMENT &<br>MORPHOLOGY   |
| MODERATOR             |     | HENRY MUSHINSKY   |     | WHITNEY ANTHONYSAMY  |
| 1:30 PM               | 319 | Philip N. Vogrinc*, John D. Willson, Andrew M. Durso  | 69  | EE - Brendan Reid*, Zachariah Peery  |
|                       |     | Landscape-scale Responses of Semi-aquatic Snakes to Drought   |     | Using Genetic and Demographic Methods to Characterize Nesting Philopatry in a Long-lived Turtle  |
| 1:45 PM               | 224 | Jennifer Fill*, Jayme Waldron, Shane Welch, Timothy Mousseau  | 203 | EE - Rachel King*, Lora Smith, Alan Covich   |
|                       |     | Eastern Diamondback Rattlesnake ( <i>Crotalus adamanteus</i> ) Habitat Selection in the Southeast Coastal Plain Tidewater Region            |     | Spatial Ecology and Wetland Habitat Selection of Common Snapping Turtles ( <i>Chelydra serpentina</i> ) and Yellow-bellied Sliders ( <i>Trachemys scripta</i> ) In a Longleaf Pine Ecosystem |
| 2:00 PM               | 137 | Jacob Owen*, Jesse Meik, T. Wayne Schwertner  | 424 | EE - Dan Crear*, Dan Lawson, Jeff Seminoff, et al  |
|                       |     | Effects of Agriculture on Snake Diversity and Abundance in Northeastern Swaziland   |     | Seasonal Shifts in the Distribution of Green Sea Turtles ( <i>Chelonia mydas</i> ) within Anthropogenically-Altered Water Temperatures   |
| 2:15 PM               | 526 | Tanya O'Brien   | 532 | EE - Matthew Ramirez*, Larisa Avens, Lisa Goshe, et al   |
|                       |     | The Importance of Pre- and Postnatal Thermal Conditions in Determining Growth Trajectories in Three Viviparous Grassland Snakes             |     | Loggerhead Sea Turtle ( <i>Caretta caretta</i> ) Ontogeny and Growth: Evidence of Facultative Ontogenetic Shifts Using Skeletochronology and Stable Isotope Analysis                         |
| 2:30 PM               | 692 | Mark Herr*, Sean Graham, Tracy Langkilde  | 588 | EE - Brian Tornabene*, Robert Bramblett, Stephen Leathe, Alexander Zale  |
|                       |     | Stressed Snakes Strike First: Hormone Levels and Defensive Behavior in Free Ranging Cottonmouths ( <i>Agkistrodon piscivorus</i> ).         |     | Nesting Ecology of the Turtle <i>Apalone spinifer</i> in a Large River-Floodplain Ecosystem  |
| 2:45 PM               | 334 | Meagan Thomas*, Stephen Mullin  | 339 | GDM - Evan McCartney-Melstad*, H. Bradley Shaffer  |
|                       |     | Quantifying Dietary Overlap in a Community of Invertebrate Eating Snakes  |     | Exon Capture Optimization for a Large-Genome Amphibian   |
| 3:00 PM               |     | BREAK - Exhibit Hall C & D  |     |  |
| SESSION/<br>SYMPOSIUM |     | SSAR SEIBERT ECOLOGY  |     | ASIH STOYE GENERAL HERPETOLOGY   |
| MODERATOR             |     | JOE PECHMANN  |     | MAUREEN DONNELLY   |
| 3:30 PM               | 522 | Jason Bohenek*, Lauren Eveland, William Resetarits  | 461 | Erin Kenison*, Andrea Litt, David Pilliod, Tom McMahon   |
|                       |     | The Influence of Newts ( <i>Notophthalmus viridescens louisianensis</i> ) on Oviposition Site Choice of Mosquitoes                          |     | Investigating Direct and Indirect Effects of Introduced Fish Predators on Long-toed Salamander Larvae  |
| 3:45 PM               | 496 | Jose Griego*, Sarah Corey-Rivas   | 491 | Carl Hutter*, Shea Lambert, John Wiens   |
|                       |     | Genetic Structure and Hybridization of the Northern Leopard Frog ( <i>Lithobates pipiens</i> ) in the Mora Watershed in Northern New Mexico |     | Explaining Andean Megadiversity: The Evolutionary and Ecological Causes of Elevational Species Richness Patterns in Neotropical Frogs (Hylidae).   |
| 4:00 PM               | 375 | Samantha Rumschlag*, Michelle Boone   | 141 | Andy Connolly*, Larry Martin, Stephen Hasiotis   |
|                       |     | The Effects of Size at Metamorphosis and Overwintering on Susceptibility to <i>Batrachochytrium dendrobatidis</i> in Northern Leopard Frogs |     | Positive Correlation Between Parietal Foramen Size and Latitudinal Distribution in Iguanids (Squamata: Iguanidae)  |
| 4:15 PM               | 67  | Graziella DiRenzo*, Penny Langhammer, Kelly Zamudio, Karen Lips   | 219 | Pascal Title*, Dan Rabosky   |
|                       |     | Fungal Infection Intensity and Zoospore Output of <i>Atelopus zeteki</i> , a Potential Acute Chytrid Supershedder.                          |     | Niche Evolution Dynamics and Their Role in Australian Reptile Diversification  |
| 4:30 PM               | 354 | Carl Cloyd*, Perri Eason  | 736 | James Stroud*, Ken Feeley  |
|                       |     | Using Stomach Content Analysis and Stable Isotope Analysis to Describe Adult Anuran Diets   |     | Using Biological Invasions to Model the Fundamental Niche: A Case Study Using the Cuban Brown Anole ( <i>Anolis sagrei</i> )   |
| 4:45 PM               | 545 | Christopher Thawley*, Travis Robbins, Nicole Freidenfelds, Tracy Langkilde  | 298 | Lisa Cantwell*, Joe Altobelli, Arthur Echternacht  |
|                       |     | The Costs and Benefits of Adaptation: A case Study Using Native Fence Lizards and Invasive Fire Ants  |     | Who's There? The Importance of Familiarity in Discrimination of Avian Calls by the Brown Anole ( <i>Anolis sagrei</i> )  |
| 5:00 PM               |     |   |     |  |
|                       |     |   |     |  |
|                       |     | EE = ASIH Stoye Ecology & Ethology  |     | GDM = ASIH Stoye Genetics, Development & Morphology  |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Morning Sessions

|                            | <i>Banquet Room E</i>   |     | <i>Banquet Room F</i>   | ROOM                  |
|----------------------------|---|-----|---|-----------------------|
|                            | AES GRUBER  |     | HERP CONSERVATION I   | SESSION/<br>SYMPOSIUM |
|                            | CHRIS CHABOT  |     | BOB BRODMAN   | MODERATOR             |
|                            |   | 236 | Bob Brodman   | 8:00 AM               |
|                            |   |     | The Effects of Plastics and Aquatic Herbicide Application on Jefferson Salamander Eggs and Larvae.  |                       |
|                            |   | 439 | Marcia Snyder*, W. Matthew Henderson, Donna Glinski, S. Thomas Purucker   | 8:15 AM               |
|                            |   |     | Biomarker Analysis Of Leopard Frog ( <i>Rana pipiens</i> ) Tadpoles Following Exposure To Atrazine  |                       |
|                            |   | 661 | Devin Jones*, Rick Relyea   | 8:30 AM               |
|                            |   |     | Lasting Effects of Pesticide Exposure: How Early Exposure to a Pesticide Influences Tolerance of Later Life Stages in Gray Treefrogs ( <i>Hyla versicolor</i> )         |                       |
| 673                        | Dovi Kacev*, John Hyde, Andrew J Bohonak, et al   | 281 | Jessica Hua*, Devin Jones, Nathan Morehouse, Rick Relyea  | 8:45 AM               |
|                            | Combining Genetics and Tagging Data to Test for Sex Biased Dispersal in Shortfin Mako Sharks ( <i>Isurus oxyrinchus</i> ).                              |     | A Novel Mechanism for Insecticide Tolerance: The Role of Phenotypic Plasticity in Amphibian Tolerance and Cross-tolerance to Insecticides                               |                       |
| 728                        | Melissa Giresi*, David Portnoy, Dean Grubbs, et al  | 396 | M. Kevin Hamed*, Matthew Gray   | 9:00 AM               |
|                            | Genetic Population Structure of the Dusky Smoothhound Shark, <i>Mustelus canis</i> , in U.S. Waters   |     | Temporal and Spatial Changes of Mercury Contamination of Black-bellied Salamander ( <i>Desmognathus quadramaculatus</i> ) from Whitetop Mt., Virginia.                  |                       |
| 445                        | Mariah O. Pflieger*, R. Dean Grubbs, Toby S. Daly-Engel   | 630 | Steven Kimble*, Ajit Karna, April Johnson, et al  | 9:15 AM               |
|                            | DNA Barcoding in the Genus <i>Squalus</i> Reveals a Novel Dogfish Species from the Gulf of Mexico   |     | Mosquitoes as a Potential Vector of Ranavirus Transmission in Chelonians  |                       |
| BREAK - Exhibit Hall C & D |   |     |   | 9:30 AM               |
|                            | AES GRUBER  |     | ASIH STOYE PHYSIOLOGY & PHYSIOLOGICAL ECOLOGY/<br>ASIH STOYE ECOLOGY & ETHOLOGY   | SESSION/<br>SYMPOSIUM |
|                            | GREG CAILLET  |     | NANCY BROWN-PETERSON  | MODERATOR             |
| 546                        | Kyle Newton   | 447 | PPE - Jeffrey N. Zeyl*, Carol E. Johnston   | 10:00 AM              |
|                            | Magnetic Field Perception, Learning and Memory in the Yellow Stingray, <i>Urobatis jamaicensis</i> .  |     | Examining Amphibious Hearing in Turtles: Auditory Evoked Potentials in the Box Turtle, <i>Terrapene carolina</i> Relative to the Stinkpot, <i>Sternotherus odoratus</i> |                       |
| 734                        | James Anderson*, Luisa Queiroz, Kim Holland   | 707 | PPE - Alyssa Hoekstra*, Vincent Cobb  | 10:15 AM              |
|                            | Perception and Discrimination of Magnetic Fields in Sandbar ( <i>Carcharhinus plumbeus</i> ) and Scalloped Hammerhead ( <i>Sphyrna lewini</i> ) Sharks. |     | Timber Rattlesnake ( <i>Crotalus horridus</i> ) Thermoregulation in a Fragmented Environment  |                       |
| 507                        | Lauran Brewster*, Tristan Guttridge, Robert Bullock, et al  | 694 | PPE - Corey Cates*, Daniel Warner   | 10:30 AM              |
|                            | Accelerometry to Determine the Field Metabolic Rate of Marine Predators   |     | Effect of Moisture and Substrate on Egg Water Uptake and Phenotypes of Hatchling Lizards ( <i>Anolis sagrei</i> )   |                       |
| 204                        | Rob Bullock*, Lauran Brewster, Mark Bond, et al   | 119 | PPE - Shabnam Mohammadi*, Alan Savitzky, Lori Neuman-Lee, Georg Petschenka  | 10:45 AM              |
|                            | Assessing the Effects of Prey Interactions on Habitat Use Patterns and Foraging Effort in Lemon Sharks.   |     | Molecular and Physiological Mechanisms of Bufadienolide Resistance in Toad-Eating Snakes.   |                       |
| 637                        | Joseph Bizzarro*, Kristin Broms, Miles Logsdon, et al   | 21  | EE - Alejandro Molina-Moctezuma*, J. Jaime Zuniga-Vega  | 11:00 AM              |
|                            | Spatial Segregation in Eastern North Pacific Skate Assemblages  |     | Food Availability and Matrotrophy: a Test of the Trexler-DeAngelis Model of Maternal Provisioning   |                       |
| 29                         | Tobey Curtis*, Jonathan Hare, Robert Kenney, et al  | 95  | EE - Danny D'Amore*, Oscar Rios-Cardenas, Molly Morris  | 11:15 AM              |
|                            | Movements and Habitat Selection of Basking Sharks ( <i>Cetorhinus maximus</i> ) in Relation to Zooplankton Abundance in the Gulf of Maine               |     | Maternal Environment Influences Development of Behavioral Syndrome in Swordtail Fish, <i>Xiphophorus multilineatus</i>  |                       |
| 627                        | Heather M. Christiansen*, Nigel E. Hussey, Jeremy Cliff, et al  | 286 | EE - Bryan Keller*, Jean Sebastian Finger, Tristan Guttridge, et al   | 11:30 AM              |
|                            | Investigating Within and Among-individual Variation in the Trophic Ecology of the Marine Apex Predator White Shark, <i>Carcharodon carcharias</i>       |     | Partner Preference and the Mechanism of Group Formation in Lemon Sharks, <i>Negaprion brevirostris</i> , During the Introduction of Strangers to Familiar Groups        |                       |
| 316                        | Cheston Peterson*, Dean Grubbs  | 520 | EE - Lauren Eveland*, Alon Silberbush, William Resetarits Jr.   | 11:45 AM              |
|                            | Community Structure and Stable Isotope Ecology of Sharks and Large Teleost Fishes in the Florida Big Bend   |     | Detection of Predatory Fish Kairomones by Ovipositing Mosquitoes  |                       |
| LUNCH ON YOUR OWN          |   |     |   | 12:00 PM              |
|                            | PPE = ASIH Stoye Physiology & Physiological Ecology   |     | EE = ASIH Stoye Ecology & Ethology  |                       |

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Morning Sessions

| ROOM                  |     | <i>Banquet Room G</i>  |     | <i>Banquet Room H</i>  |
|-----------------------|-----|--|-----|--|
| SESSION/<br>SYMPOSIUM |     | ASIH STOYE GENERAL ICHTHOLOGY II   |     | HL GRADUATE STUDENT AWARD  |
| MODERATOR             |     | PROSANTA CHAKRABARTY   |     | STEVE MULLIN   |
| 8:00 AM               | 542 | Todd R. Clardy*, Eric J. Hilton  | 510 | Melissa Youngquist   |
|                       |     | Phylogenetic Systematics of the Prickleback Family Stichaeidae (Cottiformes: Zoarcoidei) Based on Morphological Data   |     | Utility of Human-made Ponds for Amphibian Conservation: Effects of Land-use on Tadpole Growth and Survival   |
| 8:15 AM               | 515 | Hayley Schroeder*, Kevin Tang  | 631 | Jared Grummer*, Adam Leaché  |
|                       |     | Phylogeny of Rabbitfishes (Teleostei: Perciformes: Sigandae)   |     | Those Dammed Frogs: Investigating the Impacts of River Dams on the Micro-population Genetic Structure of the Tailed Frog ( <i>Ascaphus truei</i> ) Using Thousands of SNPs |
| 8:30 AM               | 536 | William Ludt*, Prosanta Chakrabarty, Luiz Rocha  | 738 | Mariana Vasconcellos*, Guarino Colli, David Cannatella   |
|                       |     | Crossing the Tropics: Insights from Temperate-restricted <i>Prionurus</i> Surgeonfishes  |     | Recent Diversification of Treefrogs Into and Out of the South American Cerrado Savanna   |
| 8:45 AM               | 156 | Edwin Leung*, Larry Allen  | 463 | Robert Denton*, Lisle Gibbs  |
|                       |     | The Influence of Environmental Variation on Year-Class Strength in White Seabass ( <i>Atractoscion nobilis</i> ) off Southern California   |     | Sexuality on the Move: Dispersal of Unisexual and Sexual Mole Salamanders ( <i>Ambystoma</i> ) Across a Fragmented Landscape   |
| 9:00 AM               | 60  | Shelby Richins*, Chris Walser  | 64  | David O'Connor*, David M. Green  |
|                       |     | Genetics and Summer Movement and Habitat Use of Columbia River Redband Trout, <i>Oncorhynchus mykiss gairdneri</i> , in Dry Creek, Idaho (Boise River Drainage)                  |     | Latitudinal Variation in the Sexual Dimorphism of the American toad ( <i>Anaxyrus americanus</i> ).  |
| 9:15 AM               | 94  | Callie Crawford*, Amy Balanoff, John Denton, et al   | 56  | David Delaney*, Daniel Warner  |
|                       |     | Anatomical Characters as Ornaments on the Chondrichthyan Tree of Life  |     | Do Adults Drive Variation in Juvenile Habitat Use in a Territorial Lizard?   |
| 9:30 AM               |     | <b>BREAK - Exhibit Hall C &amp; D</b>  |     |  |
| SESSION/<br>SYMPOSIUM |     | ASIH STOYE GENETICS, DEVELOPMENT & MORPHOLOGY  |     | HL GRADUATE STUDENT AWARD/<br>HERP ECOLOGY I   |
| MODERATOR             |     | MIKE COLLYER   |     | ROBERT POWELL  |
| 10:00 AM              | 452 | Krista Boysen*, Robert M. Wood   | 322 | HL - Jacquelyn Guzy*, Steven Price, Evan Eskew, Michael Dorcas   |
|                       |     | Genetic Evaluation of the Threatened Shovelnose Sturgeon, <i>Scaphirhynchus platyrhynchus</i> , Throughout the Mississippi River Basin and a Portion of the Missouri River Basin |     | The Influence of Damming on Anuran Species Richness in Riparian Areas.   |
| 10:15 AM              | 441 | Savannah Michaelsen*, Kyle R. Piller   | 471 | Kevin Smith*, Walter Bien  |
|                       |     | Spatio-temporal Variation in Genetic Structure of Red Drum <i>Sciaenops ocellatus</i> in the Northern Gulf of Mexico.  |     | The Neonatal Spatial Ecology of the Northern Pinesnake ( <i>Pituophis melanoleucus</i> ) in the New Jersey Pine Barrens  |
| 10:30 AM              | 138 | Corinne Paterson   |     |  |
|                       |     | The Genetic Diversity and Population Structure of Barred Sand Bass ( <i>Paralabrax nebulifer</i> )   |     |  |
| 10:45 AM              | 285 | Alison Deary*, Eric Hilton   |     |  |
|                       |     | Using Phylogeny to Address Ecomorphology, Development of Feeding Structures and Dietary Shifts of Early Life History Stage Drums (Family Sciaenidae) from the Chesapeake Bay     |     |  |
| 11:00 AM              | 449 | Sarah Z. Gibson  |     |  |
|                       |     | The Enigmatic Taxon † <i>Hemicalypterus weiri</i> (Osteichthyes: Actinopterygii) from the Late Triassic: New Insights into its Evolutionary History and Ecological Role          |     |  |
| 11:15 AM              | 235 | Julia Schmidt-Petersen*, James W. Orr, Christopher D. Marshall, Dominique Adriaens   |     |  |
|                       |     | Functional Morphology of the Jaw Protrusion in Seamoths ( <i>Eurypegasus draconis</i> ) (Pisces, Pegasidae)  |     |  |
| 11:30 AM              | 342 | Kirill Vinnikov  |     |  |
|                       |     | Phylogeny and Adaptive Evolution of Righteye Flounders (Pleuronectiformes: Pleuronectidae)   |     |  |
| 11:45 AM              | 115 | Sharon F. Clemmensen*, C. Darrin Hulsey  |     |  |
|                       |     | Morphological Convergence in Durophagous Heroine Cichlids  |     |  |
| 12:00 PM              |     | <b>LUNCH ON YOUR OWN</b>   |     |  |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**FRIDAY, 1 August, Morning Sessions**

|                                       | <i>Banquet Room I</i>   |            | <i>Banquet Room J</i>   | ROOM                          |
|---------------------------------------|---|------------|---|-------------------------------|
|                                       | <b>ASIH BURGHARDT AND BEHAVIOR SYMPOSIUM</b>  |            | <b>SSAR SEIBERT PHYSIOLOGY &amp; MORPHOLOGY</b>   | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>PAUL ANDREADIS</b>   |            | <b>BOB ALDRIDGE</b>   | <b>MODERATOR</b>              |
|                                       | Introduction  |            |   | <b>8:00 AM</b>                |
| <b>435</b>                            | <b>Paul Andreadis</b>   |            |   | <b>8:15 AM</b>                |
|                                       | The Academic Phylogeny of Gordon Burghardt  |            |   |                               |
| <b>514</b>                            | <b>Mark Waters*, Paul Andreadis, Debra Andreadis</b>  | <b>223</b> | <b>Jacqueline Chivers*, Craig Guyer</b>   | <b>8:30 AM</b>                |
|                                       | Effects of Gordon Burghardt and his Scientific Work on the Behavior of Herpetologists and Ethologists                           |            | Frequency and Geographic Location of Hybridization of the American Toad ( <i>Anaxyrus americanus</i> ), Fowler's Toad ( <i>Anaxyrus fowleri</i> ) and the Southern Toad ( <i>Anaxyrus terrestris</i> ) in Alabama Based on Morphological Traits |                               |
| <b>127</b>                            | <b>Monique Halloy</b>   | <b>774</b> | <b>Matthew M. Dickson*, Sigfrido A. Zimmermann, Tanja Wolfmeyer, et al</b>  | <b>8:45 AM</b>                |
|                                       | Gordon Burghardt and the Butterfly Effect   |            | Rapidly Adapting to the Neighborhood: Physiological Responses of Mediterranean House Geckos to their Introduced Climates  |                               |
| <b>503</b>                            | <b>Kerry Hansknecht</b>   | <b>769</b> | <b>Dustin Owen*, Evin Carter, Matthew Holding, et al</b>  | <b>9:00 AM</b>                |
|                                       | Do What You Love, Love What You Do - That's "Easy" in the Burghardt Lab   |            | You Cruise, You Lose: Roads Facilitate a Blunted Stress Response in Copperheads ( <i>Agkistrodon contortrix</i> )   |                               |
| <b>405</b>                            | <b>John Placyk</b>  | <b>175</b> | <b>Patrick D. Moldowan*, Ronald J. Brooks, Jacqueline D. Litzgus</b>  | <b>9:15 AM</b>                |
|                                       | The Details of a Conservation Genetics Lab Founded on Burghardtian Principles   |            | Turtles with Teeth: Tomiodont Morphology and Functional Significance in the Painted Turtle ( <i>Chrysemys picta</i> )   |                               |
| <b>BREAK - Exhibit Hall C &amp; D</b> |   |            |   | <b>9:30 AM</b>                |
|                                       | <b>ASIH BURGHARDT AND BEHAVIOR SYMPOSIUM</b>  |            | <b>SSAR SEIBERT SYSTEMATICS &amp; EVOLUTION</b>   | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>PAUL ANDREADIS</b>   |            | <b>DAVID BLACKBURN</b>  | <b>MODERATOR</b>              |
| <b>543</b>                            | <b>Gary Casper*, Julia Robson, Brian Halstead, et al</b>  | <b>477</b> | <b>Sean Reilly*, Jimmy McGuire</b>  | <b>10:00 AM</b>               |
|                                       | Wisconsin Butler's Gartersnake Populations in a Conservation Context  |            | Evolutionary History of Flying Lizards (Genus: <i>Draco</i> ) from the Lesser Sunda Islands, Indonesia  |                               |
| <b>335</b>                            | <b>Karen Davis</b>  | <b>700</b> | <b>Arianna L. Kuhn*, Aaron M. Bauer, Todd R. Jackman</b>  | <b>10:15 AM</b>               |
|                                       | New Findings on Social Complexity in North American Turtles ( <i>Emydidae</i> )   |            | Molecular Phylogeny and Historical Biogeography of <i>Trachylepis</i> Skinks ( <i>Reptilia: Scincidae</i> ) and the Evolution of <i>Viviparity</i>  |                               |
| <b>237</b>                            | <b>James Gillingham*, David Clark, Jennifer Moore</b>   | <b>541</b> | <b>Eric Rittmeyer*, Christopher Austin</b>  | <b>10:30 AM</b>               |
|                                       | Tuatara Crest Morphology: Spine Size and Refectance May Contribute to Large Male Breeding Success in <i>Sphenodon punctatus</i> |            | Species Boundaries and Niche Evolution in the New Guinean <i>Carlia bicarinata</i> group ( <i>Squamata: Scincidae</i> )   |                               |
| <b>255</b>                            | <b>Matthew Anderson*, Stanley Fox</b>   | <b>544</b> | <b>Elyse Freitas*, Aaron Bauer, Todd Jackman</b>  | <b>10:45 AM</b>               |
|                                       | The Effects of Tail Autotomy on Behavior, Mating Strategies, and Territorial Quality in the Lizard <i>Uta stansburiana</i>      |            | Molecular Phylogenetics and Patterns of Limb Loss in the Genus <i>Scelotes</i>  |                               |
| <b>702</b>                            | <b>Arthur Echternacht*, Todd Vincent</b>  | <b>559</b> | <b>Rachel Skinner*, Todd Jackman, Aaron Bauer</b>   | <b>11:00 AM</b>               |
|                                       | Asymmetrical Density Effects on Reproduction: Another Mechanism by Which an Introduced Anole Impacts a Native Congener?         |            | Phylogenetic Relationships of South African Geckos in <i>Pachydactylus geitje</i> Species Complex ( <i>Squamata: Gekkonidae</i> )   |                               |
| <b>260</b>                            | <b>Brian C. Bock*, Vivian P. Páez, Gordon M. Burghardt, A. Stanley Rand</b>   | <b>113</b> | <b>Thornton Larson*, Eli Greenbaum, Delilah Castro</b>  | <b>11:15 AM</b>               |
|                                       | Life Table Matrix Projections for the Green Iguana ( <i>Iguana iguana</i> ): Implications for Conservation and Control.         |            | Systematics of the African River Frog Genus <i>Amietia</i> ( <i>Anura: Pyxicephalidae</i> ) in Eastern Democratic Republic of the Congo   |                               |
| <b>704</b>                            | <b>Jesús Rivas</b>  |            |   | <b>11:30 AM</b>               |
|                                       | Population Dynamics of Green Iguana ( <i>Iguana iguana</i> ): Does it Pay for Little Boys to Save Their Sisters?                |            |   |                               |
| <b>591</b>                            | <b>Rita Mehta*, Benjamin Higgins</b>  |            |   | <b>11:45 AM</b>               |
|                                       | Feeding Performance of the California moray, <i>Gymnothorax mordax</i>  |            |   |                               |
| <b>LUNCH ON YOUR OWN</b>              |   |            |   | <b>12:00 PM</b>               |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**FRIDAY, 1 August, Morning Sessions**

|                               |            |   |  |  |
|-------------------------------|------------|---|--|--|
| <b>ROOM</b>                   |            | <i>Meeting Room 4 &amp; 5</i>   |  |  |
| <b>SESSION/<br/>SYMPOSIUM</b> |            | <b>CLIMATE CHANGE &amp; DISEASE</b>   |  |  |
| <b>MODERATOR</b>              |            | <b>ANDREW DURSO</b>   |  |  |
| <b>8:00 AM</b>                | <b>164</b> | <b>Jesse Meik</b>   |  |  |
|                               |            | Climate Data Should Not be Used to Infer Ecological Divergence in Species Delimitation  |  |  |
| <b>8:15 AM</b>                | <b>48</b>  | <b>Peter J. Mahoney, Karen H. Beard, Andrew M. Durso*, et al</b>  |  |  |
|                               |            | Introduction Effort, Climate Matching, and Species Traits as Predictors of Global Establishment Success in Non-native Reptiles                      |  |  |
| <b>8:30 AM</b>                | <b>33</b>  | <b>Philip Willink</b>   |  |  |
|                               |            | Mottled Sculpin <i>Cottus bairdii</i> in Illinois; A Motley Tale of Subspecies, Invasive Species, Habitat Degradation, and Climate Change           |  |  |
| <b>8:45 AM</b>                | <b>201</b> | <b>Taylor Green, David M. Green*</b>  |  |  |
|                               |            | Environmental Correlates of Spring Emergence in Fowler's Toad, <i>Anaxyrus fowleri</i> .  |  |  |
| <b>9:00 AM</b>                | <b>724</b> | <b>John Maerz*, Katharine Servidio, Kira McEntire, et al</b>  |  |  |
|                               |            | Climate and Plethodon Ecology at the Coweeta LTER   |  |  |
| <b>9:15 AM</b>                | <b>557</b> | <b>Renata Platenberg</b>  |  |  |
|                               |            | Bd in a Hot Climate: Detection of Amphibian Chytrid Fungus in the US Virgin Islands   |  |  |
| <b>9:30 AM</b>                |            | <b>BREAK - Exhibit Hall C &amp; D</b>   |  |  |
| <b>SESSION/<br/>SYMPOSIUM</b> |            | <b>CLIMATE CHANGE &amp; DISEASE</b>   |  |  |
| <b>MODERATOR</b>              |            | <b>STEVE CORN</b>   |  |  |
| <b>10:00 AM</b>               | <b>416</b> | <b>Stephen Corn</b>   |  |  |
|                               |            | Can Amphibian Distributions Respond to Rapid Climate Change?  |  |  |
| <b>10:15 AM</b>               | <b>341</b> | <b>David Pike</b>   |  |  |
|                               |            | Why Sea Turtles are Great Survivors of Climate Change   |  |  |
| <b>10:30 AM</b>               | <b>555</b> | <b>William Sutton*, Kyle Barrett, Allison Moody, et al</b>  |  |  |
|                               |            | Determining Vulnerability of Priority Amphibian and Reptile Conservation Areas to Climate Change in the Northeastern United States                  |  |  |
| <b>10:45 AM</b>               | <b>479</b> | <b>Jason Hoverman*, Andrew Blaustein, Cherie Briggs, et al</b>  |  |  |
|                               |            | Disease Risk Within Complex Communities: The Influence of Coinfection by Virulent Pathogens on an Amphibian Assemblage                              |  |  |
| <b>11:00 AM</b>               | <b>590</b> | <b>Vanessa Wuerthner*, Jason Hoverman</b>   |  |  |
|                               |            | Prior Exposure to the Trematode <i>Echinostoma trivolvis</i> Increases Ranavirus Infection Prevalence in Gray Tree Frogs ( <i>Hyla versicolor</i> ) |  |  |
| <b>11:15 AM</b>               | <b>474</b> | <b>Ben Fitzpatrick</b>  |  |  |
|                               |            | Diffuse Associations Between Salamanders and Skin Bacteria  |  |  |
| <b>11:30 AM</b>               |            |   |  |  |
| <b>11:45 AM</b>               |            |   |  |  |
| <b>12:00 PM</b>               |            | <b>LUNCH ON YOUR OWN</b>  |  |  |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**FRIDAY, 1 August, Afternoon Sessions**

|  | <i>Banquet Room E</i>  |            | <i>Banquet Room F</i>  | ROOM                          |
|--|--|------------|--|-------------------------------|
|  | <b>AES GRUBER</b>  |            | <b>ASIH STOYE ECOLOGY &amp; ETHOLOGY/<br/>ASIH STOYE CONSERVATION</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|  | <b>ROBERT HUETER</b>   |            | <b>ROBERT LOVICH</b>   | <b>MODERATOR</b>              |
| <b>125</b>   | <b>Bianca Prohaska*, Paul Tsang, William Driggers III, et al</b>   | <b>486</b> | <b>EE - Brittany V. Furtado*, Jessie J. Green, Ginny L. Adams, Reid Adams</b>  | <b>1:30 PM</b>                |
|  | Effects of Delayed Phlebotomy on Plasma Steroid Hormone Concentrations in Elasmobranchs  |            | The Impact of Natural Gas Development on Fish Communities of the Fayetteville Shale, Arkansas  |                               |
| <b>766</b>   | <b>Christopher Mull*, Kara Yopak, Nick Dulvy</b>   | <b>428</b> | <b>EE - Michael Schram*, Mark Steele</b>   | <b>1:45 PM</b>                |
|  | Placentation and the Evolution of Brain Size and Structure in Sharks, Skates, and Rays   |            | Effects of Simulated Size-Selective Harvesting on a Protogynous Temperate Reef Fish, <i>Rhinogobios nicholsii</i>  |                               |
| <b>498</b>   | <b>Valentina Di Santo</b>  | <b>589</b> | <b>EE - Laura Jay Williams*, Stephen Szedlmayer</b>  | <b>2:00 PM</b>                |
|  | Ocean Acidification Exacerbates the Impacts of Global Warming on Embryonic Skates  |            | Fishery Independent Estimates of Red Snapper, <i>Lutjanus campechanus</i> , Mortality Using Ultrasonic Telemetry in the Northern Gulf of Mexico              |                               |
| <b>270</b>   | <b>Arianne Leary*, Jim Gelsleichter, Dean Grubbs</b>   | <b>377</b> | <b>C - Connor Capizzano*, John Mandelman, William Hoffman, et al</b>   | <b>2:15 PM</b>                |
|  | Oil Related Biomarkers in <i>Centropristis</i> and <i>Squalus</i> Species in the years following the Deepwater Horizon Oil Spill |            | Estimating and Mitigating Post-Release Mortality of Atlantic Cod in the Gulf of Maine's Recreational Hook-and-Line Fishery                                   |                               |
| <b>570</b>   | <b>Jeremy Higgs*, Jill Hendon, Eric Hoffmayer, et al</b>   | <b>682</b> | <b>C - A. Brigid Wieman*, Peter Berendzen, Mark Myers</b>  | <b>2:30 PM</b>                |
|  | Reproduction of the Finetooth Shark, <i>Carcharhinus isodon</i> , in the Northern Gulf of Mexico                                 |            | Demographic Parameters and Conservation Units for Longnose Dace, <i>Rhinichthys cataractae</i> , in Northeast Iowa from Ecological and Genetic Perspectives. |                               |
| <b>214</b>   | <b>Amanda Brown*, Jim Gelsleichter, Bryan Frazier</b>  | <b>467</b> | <b>C - Dane Ward*, Walter Bien</b>   | <b>2:45 PM</b>                |
|  | The Reproductive Biology of the Finetooth Shark, <i>Carcharhinus isodon</i> , in the Northwest Atlantic Ocean                    |            | The Effect of Roads on the Movement and Landscape Structure of the Northern Pine Snake, <i>Pituophis melanoleucus</i> in the Pinelands of New Jersey.        |                               |
| <b>336</b>   | <b>Charles Bangley*, Roger Rulifson</b>  | <b>621</b> | <b>C - Eric McCluskey*, Thomas Hetherington</b>  | <b>3:00 PM</b>                |
|  | Sharks in the Sound: Delineating Potential Coastal Shark Habitat Within Pamlico Sound, North Carolina                            |            | Species Distribution Modeling for the Eastern Massasauga Rattlesnake ( <i>Sistrurus catenatus catenatus</i> ) in Northeastern Ohio                           |                               |
| <b>369</b>   | <b>Ryan Knotek*, David Rudders, John Mandelman, et al</b>  | <b>365</b> | <b>C - Stephanie Chavez*, Amanda Williard</b>  | <b>3:15 PM</b>                |
|  | The Survival of Rajids Discarded in the New England Scallop Dredge Fisheries   |            | Assessment of the Impact of Bycatch Reduction Devices on Diamondback Terrapin and Blue Crab Catch  |                               |
| <b>565</b>   | <b>Fiona Graham*, Neil Hammerschlag, Maria Estevanez</b>   | <b>613</b> | <b>C - Matthew Hamilton*, John Finger, Andrew Grosse, et al</b>  | <b>3:30 PM</b>                |
|  | Quantifying Habitat Protection for Shark Species in South Florida and The Bahamas Using Satellite Telemetry                      |            | American Alligator ( <i>Alligator mississippiensis</i> ) Population Trends on Radiologically-Contaminated Reservoirs   |                               |
| <b>18</b>  | <b>Andrea Dell'Apa*, Jeffrey Johnson, Dave Kimmel, Roger Rulifson</b>  | <b>349</b> | <b>C - Megan Winzeler*, Cara Love, David Scott, et al</b>  | <b>3:45 PM</b>                |
|  | A Social Network Analysis of the International Trade of Spiny Dogfish ( <i>Squalus acanthias</i> ): fishery management aspects   |            | Prevalence of Two Amphibian Diseases at Contaminated Wetlands on the Savannah River Site, SC   |                               |
| <b>POSTER SESSION I<br/>Exhibit Hall C &amp; D</b> |  |            |  | <b>4:00 PM</b>                |
|  |  |            |  | <b>5:00 PM</b>                |
|  |  |            |  |                               |
|  | <b>NIA Meeting<br/>8-10 p.m.</b>   |            |  | <b>6:00 PM</b>                |
|  | <b>EE = ASIH Stoye Ecology &amp; Ethology</b>  |            | <b>C = ASIH Stoye Conservation</b>   |                               |

\* denotes presenter



**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**FRIDAY, 1 August, Afternoon Sessions**

| <b>ROOM</b>                   |            | <i>Banquet Room G</i>  |            | <i>Banquet Room H</i>  |
|-------------------------------|------------|--|------------|--|
| <b>SESSION/<br/>SYMPOSIUM</b> |            | <b>ASIH STOYE GENERAL ICHTHYOLOGY III/<br/>NIA STUDENT COMPETITION/<br/>FISH ECOLOGY</b>   |            | <b>LIZARD ECOLOGY</b>  |
| <b>MODERATOR</b>              |            | <b>HANK BART/JAMES ALBERT</b>  |            | <b>DAN WARNER</b>  |
| <b>1:30 PM</b>                | <b>150</b> | <b>GI - Malorie Hayes*, Jonathan Armbruster</b>  | <b>76</b>  | <b>Daniel Warner*, Alexis Harrison, Aaron Reedy</b>  |
|                               |            | Making Sense of the Confusion: A molecular assessment of the genus 'Barbus' (Cypriniformes: Cyprinidae)  |            | Adult Population Density is a Strong Selective Force on Juvenile Body Size in the Lizard Anolis sagrei   |
| <b>1:45 PM</b>                | <b>128</b> | <b>GI - Carla Stout*, Milton Tan, Alan Lemmon, et al</b>   | <b>697</b> | <b>Matthew Lattanzio*, Donald Miles</b>  |
|                               |            | Preliminary Phylogeny of Cypriniformes Based on Anchored Hybrid Enrichment with a Focus on Leuciscinae   |            | Disturbance, Microhabitat Use, and the Thermal Ecology of Male Tree Lizards  |
| <b>2:00 PM</b>                | <b>103</b> | <b>GI - Milton Tan*, Carla Stout, Alan Lemmon, et al</b>   | <b>562</b> | <b>Krista Mougey*, Douglas Bell, Frederic J. Burton</b>  |
|                               |            | Phylogenomics and the Evolution of Paedomorphism in the Cyprinidae   |            | Spatial Ecology of the Caymanian Blue Iguana (Cyclura lewisi): The Influence of Restored Populations on the Spatial Dynamics and Establishment of Captive Releases |
| <b>2:15 PM</b>                | <b>27</b>  | <b>GI - Kara Million*, Luciano Matzkin, Bruce Stallsmith</b>   | <b>533</b> | <b>Kaitlin Allen, Robert Powell*</b>   |
|                               |            | Comparison of Monogenoidean Gill Parasite Infection Levels in Three Darter Species in Mill Creek   |            | Thermal Biology and Microhabitat Use in Puerto Rican Eyespot Geckos (Sphaerodactylus macrolepis)   |
| <b>2:30 PM</b>                | <b>509</b> | <b>GI - Aaron Geheber*, Philip Geheber</b>   | <b>269</b> | <b>Laine Giovanetto</b>  |
|                               |            | The Effect of Spatial Scale on Darter Community Assembly: Evolutionary Relationships Illustrate Ecological Processes   |            | Preliminary Findings on the Habitat Selection and Diet in a Population of Eastern Water Skinks (Eulamprus quoyii) During a Drought in New South Wales, Australia.  |
| <b>2:45 PM</b>                | <b>310</b> | <b>NIA - Benjamin Frable*, Brian Sidlauskas</b>  | <b>280</b> | <b>Crystal Kelehear*, Gregory Brown, Mark Torchin, et al</b>   |
|                               |            | It's Inner Beauty that Counts: Ecomorphological Diversification and Speciation in the Neotropical Fish Superfamily, Anostomoidea (Ostariophysi:Characiformes). |            | A Novel Host Facilitates the Spread of an Invasive Parasite in Tropical Australia and Panama   |
| <b>3:00 PM</b>                | <b>602</b> | <b>NIA - Michael Burns</b>   | <b>329</b> | <b>Andrew Battles*, Kevin Aviles, Jason Kolbe</b>  |
|                               |            | Body Shape Evolution in Characiformes  |            | Performance Loss Does Not Deter Anoles from Using Artificial Perches   |
| <b>3:15 PM</b>                | <b>614</b> | <b>NIA - Sarah Steele*, Hernán López-Fernández</b>   | <b>585</b> | <b>Enrique Santoyo-Brito*, Matthew Anderson, Stanley Fox</b>   |
|                               |            | Consequences of Extreme Body Size Evolution in Neotropical Cichlid Fishes  |            | Sex Ratio According to Incubation Temperature in the Collared Lizard, Crotophytus collaris   |
| <b>3:30 PM</b>                | <b>677</b> | <b>NIA - Daniel J. Gurdak*, Donald J. Stewart, Paulo A. Buckup</b>   | <b>220</b> | <b>Cameron Siler*, Rafe Brown</b>  |
|                               |            | A New Species of Arapaima (Osteoglossomorpha, Osteoglossidae) from the Lower Amazon, near Santarém, Brazil   |            | From Ancient Dispersals to Conservation Genetic Insights—The State of Philippine Geckos  |
| <b>3:45 PM</b>                | <b>683</b> | <b>Viviana Astudillo-Clavijo*, Hernan Lopez-Fernandez</b>  |            |  |
|                               |            | Divergence of Locomotor Morphology in the Radiation of Neotropical Geophagine Cichlids   |            |  |
| <b>4:00 PM</b>                |            | <b>POSTER SESSION I</b><br>Exhibit Hall C & D  |            |  |
|                               |            |  |            |  |
| <b>5:00 PM</b>                |            |  |            |  |
| <b>6:00 PM</b>                |            |  |            | <b>HL Business Meeting</b><br><b>6-8 p.m.</b>  |
|                               |            | <b>GI = ASIH Stoye General Ichthyology</b>   |            | <b>NIA = NIA Best Student Paper</b>  |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Afternoon Sessions

|            | <i>Banquet Room I</i>  |            | <i>Banquet Room J</i>   | ROOM                          |
|------------|--|------------|---|-------------------------------|
|            | <b>ASIH BURGHARDT &amp; BEHAVIOR SYMPOSIUM</b>   |            | <b>SSAR SEIBERT CONSERVATION/<br/>SSAR SEIBERT ECOLOGY</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|            | <b>HARRY GREENE</b>  |            | <b>BRIAN HALSTEAD</b>   | <b>MODERATOR</b>              |
| <b>254</b> | <b>Paul Weldon*, Matthew Kramer, Robert Vender Meer, et al</b>   | <b>456</b> | <b>SSAR-C - Jason O'Connor*, Tracy Rittenhouse</b>  | <b>1:30 PM</b>                |
|            | Anuran Skin Secretions Contain Contact Toxins Against Arthropods   |            | Importance of Late Fall Movement and Snow Cover to Overwinter Survival of Wood Frogs  |                               |
| <b>327</b> | <b>Akira Mori*, Alan Savitzky</b>  | <b>382</b> | <b>SSAR-C - Luke Linhoff</b>  | <b>1:45 PM</b>                |
|            | When a Mysterious Japanese Natricine Snake Met an American Natricine Expert: Unraveling the Enigmatic Nuchal Glands                        |            | The Role of Husbandry in Amphibian Conservation: A Review and Meta-analysis   |                               |
| <b>148</b> | <b>Neil Ford*, Kaitlyn Pettingill, Corey Cates</b>   | <b>752</b> | <b>SSAR-C - Nicole F. Angeli*, Ian Lundgren, Clayton Pollock, et al</b>   | <b>2:00 PM</b>                |
|            | Behavioral and Reproductive Consequences of Compensatory Growth in Snake Species Exhibiting Differential Sexual Size Dimorphism            |            | Occupancy, Density, and Dispersal of a Critically Endangered Lizard on a Small Island   |                               |
| <b>187</b> | <b>Bonnie Bowers*, Morgan Wilson, Renee Godard</b>   | <b>157</b> | <b>SSAR-C - Brian Crawford*, Amielle DeWan, Kevin Green</b>   | <b>2:15 PM</b>                |
|            | Are Eastern Garter Snakes ( <i>Thamnophis sirtalis</i> ) Attracted to Alarm Substance from Fathead Minnows ( <i>Pimephales promelas</i> )? |            | Does Pride work? Evaluating an NGO's integrative model for promoting community conservation behavior  |                               |
| <b>679</b> | <b>Lani Lyman-Henley*, Jerrod Tynes</b>  | <b>32</b>  | <b>SSAR-C - Patrick J. Ruhl*, Rob N. Chapman, John B. Dunning</b>   | <b>2:30 PM</b>                |
|            | Effects of Experience on Responses to Standard Testing Procedures in Colubrid Snakes   |            | The Effect of Biomass Harvests on Eastern Red-backed Salamanders ( <i>Plethodon cinereus</i> )  |                               |
| <b>106</b> | <b>Matthew Kramer*, Enrique Font, Gordon Burghardt</b>   | <b>325</b> | <b>SSAR-C - Drew Davis*, Matthew Schwarz, Jacob Kerby</b>   | <b>2:45 PM</b>                |
|            | Tongue-flick Attack Scores Revisited: A Decomposition and a Reconstitution Using Canonical Discriminant Analysis.                          |            | Effects of Agricultural Tile Drainage on Amphibians in Eastern South Dakota   |                               |
| <b>124</b> | <b>Vladimir Dinets</b>   | <b>475</b> | <b>SSAR-C - Jeremy Feinberg*, Joanna Burger</b>   | <b>3:00 PM</b>                |
|            | Swamp Smarts: Discovering Cryptic Intelligence in Crocodilians.  |            | Fitness and Survival Effects of the Invasive Grass, <i>Phragmites australis</i> , on Tadpoles Transplanted into an Extirpation Zone.                  |                               |
| <b>122</b> | <b>Harry Greene</b>  | <b>710</b> | <b>SSAR-E - Matthew G. Keevil*, Shawna Sanders, Ronald J. Brooks, Jacqueline D. Litzgus</b>   | <b>3:15 PM</b>                |
|            | Snakes and Primates, an 80 Million Year Dialog?  |            | Density-dependence and Phenology of Juvenile Somatic Growth in Snapping Turtles and Painted Turtles   |                               |
| <b>134</b> | <b>Gordon Burghardt</b>  | <b>633</b> | <b>SSAR-E - Ryan Vincent*, Jarrett Johnson</b>  | <b>3:30 PM</b>                |
|            | A Serpentine Life in Science   |            | Investigating Population Structure and Connectivity of California Tiger Salamanders ( <i>Ambystoma californiense</i> ) in the Los Vaqueros Watershed. |                               |
|            |  |            |   | <b>3:45 PM</b>                |
|            |  |            |   | <b>4:00 PM</b>                |
|            | <b>POSTER SESSION I<br/>Exhibit Hall C &amp; D</b>   |            |   |                               |
|            |  |            |   | <b>5:00 PM</b>                |
|            |  |            |   | <b>6:00 PM</b>                |
|            | <b>SSAR-C = SSAR Seibert Conservation</b>  |            | <b>SSAR-E = SSAR Seibert Ecology</b>  |                               |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Afternoon Sessions

| ROOM                  |  | <i>Meeting Room 4 &amp; 5</i>   |  |  |
|-----------------------|--|---|--|--|
| SESSION/<br>SYMPOSIUM |  | GENERAL HERPETOLOGY   |  |  |
| MODERATOR             |  | SCOTT BOBACK  |  |  |
| 1:30 PM               | 626                                    | Edward Kabay*, Graziella DiRenzo, Julie Ray, Karen Lips   |  |  |
|                       |  | Sorting a Neotropical Snake Community into groups using Morphological Relationships                               |  |  |
| 1:45 PM               | 331                                    | Mark Davis*, Michael Collyer, Marlis Douglas, Michael Douglas   |  |  |
|                       |  | Morphological Evidence for Adaptive Radiation in Western Rattlesnake ( <i>Crotalus viridis</i> )                  |  |  |
| 2:00 PM               | 385                                    | Jordan Chaney*, Patrick Reilly, Debra Miller, et al   |  |  |
|                       |  | Wood Frogs ( <i>Lithobates sylvaticus</i> ) May Function as Superspreaders of Ranavirus                           |  |  |
| 2:15 PM               | 648                                    | James Julian*, Robert Brooks, Gavin Glenney, John Coll  |  |  |
|                       |  | Surveys of Amphibian Emergent Infectious Diseases in Human-Created and Natural Wetlands in Pennsylvania           |  |  |
| 2:30 PM               | 74                                     | Scott Weir*, Shuangying Yu, Ami Knox, et al   |  |  |
|                       |  | The Oral and Dermal Toxicity of Several Pesticides to the Western Fence Lizard ( <i>Sceloporus occidentalis</i> ) |  |  |
| 2:45 PM               | 136                                    | Koy Regis*, Jesse Meik  |  |  |
|                       |  | Body Size and Sexual Size Dimorphism in Turtles: A Comparison of Mass and Length Data                             |  |  |
| 3:00 PM               | 65                                     | James Christiansen*, Travis LaDuc, Margaret Stummer   |  |  |
|                       |  | An Undescribed Shell Disease in the Yellow Mud Turtle, <i>Kinosternon flavescens</i>                              |  |  |
| 3:15 PM               | 722                                    | John Willson*, Michael Dorcas   |  |  |
|                       |  | Effects of Python-Associated Mammal Declines on Nesting Success of Turtles in South Florida                       |  |  |
| 3:30 PM               | 584                                    | Scott Boback*, Nicole Davidson, Nick Schwab, Matt Miller  |  |  |
|                       |  | Spatial Distribution of Painted Turtle ( <i>Chrysemys picta</i> ) Nests in an Artificial Wetland                  |  |  |
| 3:45 PM               | 651                                    | Thomas Pauley*, William Sutton  |  |  |
|                       |  | Cheat Mountain Salamander ( <i>Plethodon nettingi</i> ): What We Know after 37 Years of Observation               |  |  |
| 4:00 PM               | POSTER SESSION I<br>Exhibit Hall C & D |   |  |  |
|                       |  |   |  |  |
| 5:00 PM               |  |   |  |  |
| 6:00 PM               |  |   |  |  |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**SATURDAY, 2 August, Morning Sessions**

|                                       | <i>Banquet Room E</i>  |            | <i>Banquet Room F</i>  | ROOM                          |
|---------------------------------------|--|------------|--|-------------------------------|
|                                       | <b>SNAKE ECOLOGY</b>   |            | <b>FISH ECOLOGY I</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>CHRISTOPHER HOWEY</b>   |            | <b>EDIE MARSH-MATTHEWS</b>   | <b>MODERATOR</b>              |
| <b>622</b>                            | <b>Shane Welch*, Jayme Waldron, John Holloway</b>  | <b>265</b> | <b>Edie Marsh-Matthews*, Alejandro Molina Moctezuma, Rosemary Knapp</b>  | <b>8:00 AM</b>                |
|                                       | Coastal Island Eastern Diamondback Rattlesnake Habitat Selection and Landscape-scale Spatial Fidelity  |            | Effects of Cortisol on Brood Characteristics of Western Mosquitofish, <i>Gambusia affinis</i>  |                               |
| <b>497</b>                            | <b>Jennifer Howze*, Lora Smith</b>   | <b>51</b>  | <b>J. Jaime Zuniga-Vega</b>  | <b>8:15 AM</b>                |
|                                       | Snake Activity Patterns Within the Longleaf Pine Forest  |            | Superfetation and the Terminal Investment Hypothesis. Does Superfetation Increase with Age in Poeciliid Fishes?  |                               |
| <b>61</b>                             | <b>Patrick Gregory</b>   | <b>747</b> | <b>Henan J. López-Corrales*, César Medrano-de la Hoz, Charles W. Olaya-Nieto</b>   | <b>8:30 AM</b>                |
|                                       | The Relationship Between Body Size and Cover Use in Five Species of Natricine Snakes   |            | Reproductive Ecology of <i>Liseta leporinus muyscorum</i> in the Sinu river, Colombia  |                               |
| <b>403</b>                            | <b>Christopher Howey*, Willem Roosenburg, Matthew Dickinson</b>  | <b>392</b> | <b>Michael Collyer</b>   | <b>8:45 AM</b>                |
|                                       | Thermoregulation and Energy Expenditures of Black Racers ( <i>Coluber constrictor</i> ) in Thermally Contrasting, Burned and Unburned Landscapes   |            | Sexual Dimorphism of a Pupfish Species in Varied Sinkhole Fish Communities   |                               |
| <b>344</b>                            | <b>Ryan McCleary*, Hun Kiat Tan, David Bickford</b>  | <b>39</b>  | <b>Nancy J. Brown-Peterson*, James S. Franks</b>   | <b>9:00 AM</b>                |
|                                       | Temporal Comparisons of the Homalopsid Snake Assemblage at Pasir Ris Park Mangrove, Singapore  |            | Reproductive Biology of Yellowfin Tuna, <i>Thunnus albacares</i> , in the Northern Gulf of Mexico  |                               |
| <b>63</b>                             | <b>Brett DeGregorio*, Patrick Weatherhead, James Westervelt, Janelle Sperry</b>  | <b>24</b>  | <b>Gen Kume</b>  | <b>9:15 AM</b>                |
|                                       | Ratsnakes as Predators of Bird Nests: Now and in a Warming World   |            | Oogenesis Without Vitellogenesis by <i>Apogon lineatus</i> Females: A Reproductive Constraint or Strategy ?  |                               |
| <b>BREAK - Exhibit Hall C &amp; D</b> |  |            |  | <b>9:30 AM</b>                |
|                                       | <b>AES ECOLOGY</b>   |            | <b>FISH MORPHOLOGY, HISTOLOGY &amp; DEVELOPMENT</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>BRAD WETHERBEE</b>  |            | <b>NORMA SALCEDO</b>   | <b>MODERATOR</b>              |
| <b>232</b>                            | <b>Gregor Cailliet*, Kenneth Goldman, Henry Mollet, Henry Mollet</b>   | <b>718</b> | <b>Norma Salcedo*, Haley O'Brien</b>   | <b>10:00 AM</b>               |
|                                       | The Use of Demographic Parameters to Assess the Population Size of Shark Species: A Test Case Using the White Shark ( <i>Carcharodon carcharias</i> ) Sub-population off Central California, USA |            | Morphology of the Hyoid Arch and Branchiostegal Rays of <i>Lipopterichthys carrioni</i> (Siluriformes: Loricariidae) Based on Computed Tomography Scan Data. |                               |
| <b>733</b>                            | <b>Justin Lewis*, William Patterson III, Katherine McLachlin, John Carlson</b>   | <b>11</b>  | <b>Tomas Praet, Dominique Adriaens*, Céline Neutens, et al</b>   | <b>10:15 AM</b>               |
|                                       | Distinguishing Blacktip Shark, <i>Carcharhinus limbatus</i> , Nursery Areas in the Northern Gulf of Mexico with Vertebral Chemical Signatures  |            | Understanding the Mechanics of Tail Grasping in Seahorses using a Parametrized Computer Model  |                               |
| <b>68</b>                             | <b>William Driggers, Bryan Frazier*, Douglas Adams, et al</b>  | <b>749</b> | <b>Christopher Kenaley*, George Lauder</b>   | <b>10:30 AM</b>               |
|                                       | Site Fidelity of Bonnetheads ( <i>Sphyrna tiburo</i> ) to Two Discrete Coastal Ecosystems in the Western North Atlantic Ocean  |            | Robotic Modeling of Prey-capture Mechanics in Fishes: The Role of Hyoid Musculature  |                               |
| <b>618</b>                            | <b>Bradley Wetherbee*, Mahmood Shivji, Michael Byrne, et al</b>  | <b>358</b> | <b>Laura Habegger*, Philip Motta, Pulasky Daniel, et al</b>  | <b>10:45 AM</b>               |
|                                       | Mako Migratory Movements ... mmm   |            | Feeding Biomechanics in Billfishes: Inferring the Role of the Rostrum Through FEA  |                               |
| <b>191</b>                            | <b>J. Marcus Drymon*, Matthew Ajemian, Sean Powers</b>   | <b>324</b> | <b>Jacqueline Webb*, Jason Ramsay</b>  | <b>11:00 AM</b>               |
|                                       | Dynamic Habitat Use of Young Bull Sharks <i>Carcharhinus leucas</i> in a Northern Gulf of Mexico Estuary   |            | 3-D Configuration of Lateral line Scales and the Lateral Line Canal Contained Within Them: The Textbooks are Wrong   |                               |
| <b>209</b>                            | <b>Dana Bethea*, Matthew Ajemian, John Carlson, et al</b>  | <b>121</b> | <b>Fabio Pupo*, Vitor Abrahão, Hernán Ortega</b>   | <b>11:15 AM</b>               |
|                                       | Distribution and Community Structure of Coastal Sharks in the Northeastern Gulf of Mexico  |            | Brain and Olfactory Organs from Some Species of the Family Astroblepidae (Teleostei: Ostariophysi: Siluriformes)   |                               |
|                                       |  | <b>282</b> | <b>Michael Doosey*, Nicholas Domke</b>   | <b>11:30 AM</b>               |
|                                       |  |            | Development of the Caudal Fin Skeleton of Capelin <i>Mallotus villosus</i> (Osmeridae)   |                               |
|                                       |  | <b>35</b>  | <b>Zeehan Jaafar*, Lynne Parenti</b>   | <b>11:45 AM</b>               |
|                                       |  |            | Phylogenetic Analysis of the Oxudercus Clade: Morphology Meets Molecules   |                               |
| <b>LUNCH ON YOUR OWN</b>              |  |            |  | <b>12:00 PM</b>               |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**SATURDAY, 2 August, Morning Sessions**

| ROOM                  |     | <i>Banquet Room G</i>   |     | <i>Banquet Room H</i>   |
|-----------------------|-----|---|-----|---|
| SESSION/<br>SYMPOSIUM |     | FISH SYSTEMATICS & TAXONOMY I   |     | HL LIZARD AND TUATARA REPRODUCTION<br>SYMPOSIUM   |
| MODERATOR             |     | KYLE PILLER   |     | STAN TRAUTH   |
| 8:00 AM               | 666 | Mark Westneat   |     |   |
|                       |     | Parrotfishes are Wrasses: Large Scale Phylogeny,<br>Morphology, Taxonomy and Evolution of Labrid Fishes   |     |   |
| 8:15 AM               | 151 | Prosanta Chakrabarty*, Caleb McMahan  |     | Introduction  |
|                       |     | How Old are Cichlids?   |     |   |
| 8:30 AM               | 531 | Henry Bart*, Dorothy Nyingi, Nathan Gichuki, et al  | 268 | John Wiens  |
|                       |     | Molecular Phylogenetic Evidence of Unrecognized Diversity<br>and Differing Divergence Histories Across Several Clades of<br>Freshwater Fishes from Central and Southern Kenya |     | Phylogeny of Lizard Families: Resolving Relationships,<br>Overcoming Controversy                        |
| 8:45 AM               | 453 | Jonathan Armbruster*, Carla Stout, Malorie Hayes  |     |   |
|                       |     | An Empirical Test for Convergence and Social Mimicry Using<br>African Barbs (Cypriniformes)   |     |   |
| 9:00 AM               | 465 | Kyle Piller*, Emily Moriarty Lemmon, Alan Lemmon  | 78  | James Van Dyke  |
|                       |     | A Phylogenetic Investigation of the Cyprinodontiformes Using<br>Anchored Phylogenomics  |     | To Breed or Not to Breed: Transcriptomic Approaches for<br>Determining how Reptiles Decide to Reproduce |
| 9:15 AM               | 79  | Caleb McMahan*, Lauren Cooper, Wilfredo Matamoros, et<br>al   |     |   |
|                       |     | Systematics of the Genus Poeciliopsis (Cyprinodontiformes:<br>Poeciliidae)  |     |   |
| 9:30 AM               |     | BREAK - Exhibit Hall C & D  |     |   |
| SESSION/<br>SYMPOSIUM |     | FISH SYSTEMATICS & TAXONOMY I   |     | HL LIZARD AND TUATARA REPRODUCTION<br>SYMPOSIUM   |
| MODERATOR             |     | BEN KECK  |     | STAN TRAUTH   |
| 10:00 AM              | 493 | Benjamin Keck*, Phillip Hollingsworth, Thomas Near  | 37  | Dustin Siegel   |
|                       |     | Geologic Stability and the Diversification of Fishes within the<br>Eastern Highlands.   |     | Cloacal Anatomy of Female Lepidosaurs   |
| 10:15 AM              | 686 | William Crampton*, Nathan Lovejoy, Carlos David de<br>Santana, Joseph Waddell   |     |   |
|                       |     | Phylogeny, Biogeography, and Electric Signal Diversification<br>in the Neotropical Electric Knifefish Genus Brachyhypopomus.  |     |   |
| 10:30 AM              | 689 | Nathan Lovejoy*, Kristen Brochu, Javier Maldonado-<br>Ocampo, William Crampton  | 23  | David Sever   |
|                       |     | The Biogeography of Electro-crypsis in Gymnotus Electric<br>Fishes  |     | Anatomy of Female Sperm Storage in Lizards  |
| 10:45 AM              | 52  | Christopher Hoagstrom*, Kathie Taylor   |     |   |
|                       |     | Evidence that a Centrifugal-Speciation/Taxon-Cycle Process<br>Produced Endemism in the Ouachita Mountains via<br>Peripheral Isolation   |     |   |
| 11:00 AM              | 26  | D Ross Robertson*, Katie Cramer   | 40  | Stan Trauth   |
|                       |     | Defining and Dividing the Greater Caribbean: a shorefish<br>biogeographical perspective   |     | Anatomy of the Distal Urogenital Duct System and Cloaca in<br>Lizards                                   |
| 11:15 AM              | 146 | Jay Stauffer, Timothy King*   |     |   |
|                       |     | Designation of a Neotype for Brook Trout, <i>Salvelinus fontinalis</i>  |     |   |
| 11:30 AM              | 609 | Peter Unmack*, Justin Bagley, Aaron Davis, et al  | 695 | Edith Arenas Rios, Nora Irbargüengoytia, Norma<br>Manriquez, Fausto Méndez*                             |
|                       |     | Phylogeny, Biogeography and Evolution of the Temperate<br>Perches (Percichthyidae)  |     | Male Reproductive Cycles in Lizards   |
| 11:45 AM              |     |   |     |   |
| 12:00 PM              |     | LUNCH ON YOUR OWN   |     |   |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**SATURDAY, 2 August, Morning Sessions**

|                                       | <i>Banquet Room I</i>   |            | <i>Banquet Room J</i>   | ROOM                          |
|---------------------------------------|---|------------|---|-------------------------------|
|                                       | <b>HERP CONSERVATION II</b>   |            | <b>REPTILE GENETICS &amp; EVOLUTION</b>   | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>ROBERT REED</b>  |            | <b>GRAHAM REYNOLDS</b>  | <b>MODERATOR</b>              |
| <b>440</b>                            | <b>Bruce Kingsbury*, Evin Carter</b>  |            |   | <b>8:00 AM</b>                |
|                                       | Copperheads, Invasive Plants, and Ecological Traps  |            |   |                               |
| <b>744</b>                            | <b>Robert E. Ortega*, Steven Salinas, Justin Saiz, Jesus Rivas</b>  | <b>575</b> | <b>Matthew Heinicke*, Aaron Bauer, Todd Jackman</b>   | <b>8:15 AM</b>                |
|                                       | The Impact Of Invasive Bullfrogs On The Demographics Of Northern Leopard Frogs In Northern New Mexico                                     |            | Phylogenetic Relationships in a Mini-radiation South African Geckos   |                               |
| <b>549</b>                            | <b>Robert N. Reed*, Brian Todd, Oliver Miano, et al</b>   | <b>284</b> | <b>Maria Fernanda Medina*, Eli Greenbaum, Aaron Bauer, William Branch</b>   | <b>8:30 AM</b>                |
|                                       | Biology and Control of Exotic Banded Watersnakes (Nerodia fasciata) in an Urban Lake in Los Angeles, California                           |            | Systematics of African Skinks in the Panaspis wahlbergi Complex   |                               |
| <b>444</b>                            | <b>Elisa Cabrera Guzmán*, Michael Crossland, Richard Shine</b>  | <b>246</b> | <b>Aaron Bauer*, Juan Daza, Edward Stanley, et al</b>   | <b>8:45 AM</b>                |
|                                       | Native Arthropods Prey on Invasive Cane Toads (Rhinella marina) in Tropical Australia   |            | A Mid-Cretaceous Lizard Fauna in Amber from Myanmar   |                               |
| <b>145</b>                            | <b>Lu Zhang*, Andrew Kouba, Hongxing Zhang, et al</b>   | <b>530</b> | <b>Nicole Valenzuela*, Itay Mayrose, Niv Sabath, Shai Meiri</b>   | <b>9:00 AM</b>                |
|                                       | Post-release Movement of Captive-reared Chinese Giant Salamanders (Andrias davidianus) in the Qinling Mountains, China                    |            | Sex Determination and the Birth and Death of Turtle and Squamate Species.   |                               |
| <b>257</b>                            | <b>Erin Muths*, Larissa Bailey, Mary Kay Watry</b>  | <b>131</b> | <b>R. Graham Reynolds*, Matthew Niemiller, Liam Revell</b>  | <b>9:15 AM</b>                |
|                                       | Quantifying Reintroduction: Interim Results and an Innovative Assessment of Survival  |            | The Boa and Python Tree of Life   |                               |
| <b>BREAK - Exhibit Hall C &amp; D</b> |   |            |   | <b>9:30 AM</b>                |
|                                       | <b>HERP CONSERVATION II/<br/>HERP BEHAVIOR</b>  |            | <b>HERP CONSERVATION III</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|                                       | <b>STANLEY FOX</b>  |            | <b>THOMAS WILSON</b>  | <b>MODERATOR</b>              |
| <b>696</b>                            | <b>Sarah Wylie*, Daniel Wylie, Michael Dreslik, Christopher Phillips</b>  | <b>231</b> | <b>Phil Bishop*, James Lewis, Candace Hansen, et al</b>   | <b>10:00 AM</b>               |
|                                       | Translocation as a Conservation Tool for an Endangered Rattlesnake in Illinois  |            | Resuscitating the Amphibian Conservation Action Plan (ACAP)   |                               |
| <b>537</b>                            | <b>Anne Devan-Song*, Nancy Karraker</b>   | <b>669</b> | <b>Thomas Wilson*, Andy Carroll, Joe Simpson, et al</b>   | <b>10:15 AM</b>               |
|                                       | Long-Distance Translocation is Not a Viable Conservation Option for Bamboo Pit Vipers (Trimeresurus albolabris)                           |            | Amphibians, Wetlands and the Faces of Development: Who gets the Gig?  |                               |
| <b>499</b>                            | <b>Andrea Acevedo, Matt Lovern, Stanley Fox*</b>  | <b>606</b> | <b>Bradley Reynolds*, Thomas Wilson</b>   | <b>10:30 AM</b>               |
|                                       | Effects of Testosterone and Dihydrotestosterone on Coloration and Behavior of Male Hatchling Collared Lizards <i>Crotaphytus collaris</i> |            | Transformational Leadership, Hands-on Herpetology, and Reflective Journaling: Impacting Student Conservation Ethic            |                               |
| <b>525</b>                            | <b>Tracy Langkilde*, Lindsey Swierk, Courtney Norjen</b>  | <b>107</b> | <b>Kristen Cecala</b>   | <b>10:45 AM</b>               |
|                                       | Bearded Ladies: Female Lizards Suffer Fitness Consequences When Bearing Male Traits   |            | Estimating the Efficacy of Alternate Conservation Scenarios for Wetland Amphibian Conservation                                |                               |
| <b>20</b>                             | <b>Leah Jacobs*, Jeanne Robertson, Andres Vega</b>  | <b>764</b> | <b>Robert Lovich*, Chris Petersen, Sarah Stallings</b>  | <b>11:00 AM</b>               |
|                                       | Female Mate Choice in Divergent Populations of Red-Eyed Treefrog  |            | Herpetofauna on Department of Navy Lands in the Continental United States   |                               |
| <b>313</b>                            | <b>Mark Oliva</b>   | <b>500</b> | <b>Brian Shamblyn*, Mark Dodd, DuBose Griffin, et al</b>  | <b>11:15 AM</b>               |
|                                       | Mate Recognition and Attraction in the Executioner Treefrog: Producing a Killer Attractive Call   |            | Genetic Capture-recapture to Assess Reproductive Parameters for Loggerhead Turtles Nesting in the                             |                               |
| <b>87</b>                             | <b>Xavier Glaudas</b>   | <b>650</b> | <b>Todd Jackman*, Aaron Bauer, Ross Sadler, et al</b>   | <b>11:30 AM</b>               |
|                                       | The Effect of Food Intake on Male Mate-Searching Activities in Puff Adders (Bitis arietans)   |            | Conservation Priorities for Endemic Geckos and Skinks in Southern New Caledonia Using Mitochondrial and Nuclear Sequence Data |                               |
| <b>300</b>                            | <b>Samantha Dean*, Betsie Rothermel, Michael Yuan</b>   | <b>184</b> | <b>Max Nickerson*, Kirsten Hecht-Kardasz, Joseph Mitchell</b>   | <b>11:45 AM</b>               |
|                                       | Effects of Age and Size on Gopher Tortoise (Gopherus polyphemus) Courtship and Mating Behaviors   |            | Are Fish Responsible for the Decline of Hellbender Salamander (Cryptobranchus alleganiensis) Populations?                     |                               |
| <b>LUNCH ON YOUR OWN</b>              |   |            |   | <b>12:00 PM</b>               |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Afternoon Sessions

| ROOM                  |   | Banquet Room E   |     | Banquet Room F   |
|-----------------------|---|--|-----|--|
| SESSION/<br>SYMPOSIUM |   | AES GENETICS, GENOMICS & SYSTEMATICS   |     | FISH ECOLOGY II  |
| MODERATOR             |   | TOBY DALY-ENGEL  |     | KIRK WINEMILLER/MARK PETERSON  |
| 1:30 PM               |   |  | 31  | Bradley Ennis, Mark S. Peterson*   |
|                       |   |  |     | Nekton and Macro-Crustacean Habitat Use of Mississippi Micro-Tidal Saltmarsh Landscapes  |
| 1:45 PM               |   |  | 144 | Jake Schaefer*, Nkrumah Frazier, Jonathan Barr   |
|                       |   |  |     | Mississippi Coastal Fish Assemblage Structure and Dynamics Before and After the Deepwater Horizon Oil-spill  |
| 2:00 PM               | 490                                     | Toby Daly-Engel*, Dean Grubbs, Shawn Larson  | 263 | Kirk Winemiller*, Chouly Ou  |
|                       |   | Phylogeography Across the Global Range of an Ancient Deep-water Predator: the Bluntnose Sixgill Shark ( <i>Hexanchus griseus</i> )   |     | Fishes and Food Webs in the Mekong River and Its Tributaries: A Preview of Life after New Dams Are Constructed   |
| 2:15 PM               | 373                                     | Chris Chabot*, Mario Espinoza, Ismael Mascareñas Osorio, Axayacatl Rocha-Olivares  | 299 | Mauro Belleggia*, Daniel E. Figueroa, Gabriela Irusta, et al   |
|                       |   | Population Structure and Gene Flow in the Brown Smoothhound Shark, <i>Mustelus henlei</i> , in the Northeastern Pacific  |     | The Diet of the Argentine Hake <i>Merluccius hubbsi</i> in Patagonian Waters   |
| 2:30 PM               | 655                                     | David Portnoy*, Chris Hollenbeck, John Gold  | 723 | Charles W. Olaya-Nieto*, José D. Pérez-González, Aracely Ojeda-Julio   |
|                       |   | Historical Genetic Demography and Stock Structure of the Blacknose Shark, <i>Carcharhinus acronotus</i> , in the western North Atlantic  |     | Trophic Ecology of <i>Chipe Hoplosternum magdalenae</i> in the Ciénaga Grande de Llorica, Colombia   |
| 2:45 PM               | 110                                     | Shannon Corrigan*, Lei Yang, Chenhong Li, et al  | 654 | Seiji Miyazono*, Christopher Taylor  |
|                       |   | The Chondrichthyan Tree of Life Project  |     | Environmental Correlates of Fish Life-history Strategies in Spring-fed Desert Tributaries  |
| 3:00 PM               | 576                                     | Jennifer Wyffels*, Benjamin King, James Vincent, et al   | 36  | Tim Berra*, Tim Berra, David Crook, Dion Wedd  |
|                       |   | Transcriptome Sequencing, De novo Assembly, and Annotation of Three Chondrichthyan Fishes, <i>Leucoraja erinacea</i> , <i>Scyliorhinus canicula</i> , and <i>Callorhynchus milii</i> |     | Use of Otolith Strontium Isotope Analysis to Determine the Salinity Histories of a Tropical Riverine Fish, the Nurseryfish <i>Kurtus qulliveri</i> (Perciformes: Kurtidae) |
| 3:15 PM               | 221                                     | Joao Pedro Fontenelle*, Marcelo Carvalho   | 615 | Jennifer Herbig*, Stephen Szedlmayer   |
|                       |   | Morphological Variation and Distribution of the Potamotrygon scobina Species Complex in the Amazon Basin (Chondrichthyes: Potamotrygonidae)  |     | Movement Patterns of Gray Triggerfish, <i>Balistes capriscus</i> , around Artificial Reefs in the Northern Gulf of Mexico.   |
| 3:30 PM               | 242                                     | Joao Paulo Capretz Batista da Silva*, Marcelo Rodrigues de Carvalho  | 92  | Kathryn Buckley  |
|                       |   | A Reinterpretation of the Pectoral Articulation in Elasmobranchs (Chondrichthyes)  |     | The Ecology of Juvenile Largemouth Sawfish <i>Pristis pristis</i> in the Adelaide River, Northern Territory, Australia: Movement Patterns and Habitat Use.                 |
| 3:45 PM               |   | AES Business Meeting   | 539 | Reid Adams*, Lindsey Lewis, Tommy Inebnit, et al   |
|                       |   |  |     | Seven Years of Monitoring the Reproductive Ecology of Alligator Gar in the Fourche LaFave River System, Arkansas   |
| 4:00 PM               | POSTER SESSION II<br>Exhibit Hall C & D |  |     |  |
|                       |   |  |     |  |
| 5:00 PM               |   |  |     |  |
| 6:00 PM               |   |  |     |  |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Afternoon Sessions

|  | <i>Banquet Room G</i>   |     | <i>Banquet Room H</i>   | ROOM                      |
|--|---|-----|---|---------------------------|
|  | <b>FISH GENETICS</b>  |     | <b>HL LIZARD AND TUATARA REPRODUCTION SYMPOSIUM</b>   | <b>SESSION/ SYMPOSIUM</b> |
|  | <b>MARLIS DOUGLAS/TIM KING</b>  |     | <b>DUSTIN SIEGEL</b>  | <b>MODERATOR</b>          |
| 617  | <b>Michelle Kraczkowski*, Barry Chernoff</b>  | 159 | <b>Kevin Gribbins*, Justin Rheubert</b>   | 1:30 PM                   |
|  | Post-glacial Recolonization History of the Eastern Blacknose Dace, <i>Rhinichthys atratulus</i>   |     | Histological Survey of Spermiogenesis in Lizards  |                           |
| 726  | <b>Peter Berendzen*, Ryan Kurtz</b>   |     |   | 1:45 PM                   |
|  | Distribution, Habitat Preference, and Demographic Pattern of <i>Moxostoma duquesnei</i> (Black Redhorse) in Iowa  |     |   |                           |
| 351  | <b>Thomas Turner*, Megan Osborne, Tyler Pilger, David Propst</b>  | 147 | <b>James R. Stewart*, Tom W. Ecyay</b>  | 2:00 PM                   |
|  | Origin and Diversification of Rio Grande Sucker ( <i>Pantosteus plebeius</i> ) in the Gila River Basin  |     | Reproductive Biology of Lizards: Influence of Mode of Parity on Embryonic Calcium Nutrition |                           |
| 527  | <b>Max Bangs*, Marlis Douglas, Michael Douglas</b>  |     |   | 2:15 PM                   |
|  | Range-wide Assessment of Hybridization and Introgression in Bluehead Sucker ( <i>Catostomus discobolus</i> )  |     |   |                           |
| 275  | <b>Marlis R Douglas*, Whitney JB Anthony, Mark A Davis, et al</b>   | 46  | <b>Daniel Blackburn*, James Stewart</b>   | 2:30 PM                   |
|  | Bluehead Sucker and the Complex Drainage History of the Upper Little Colorado River   |     | Placental Specializations in Placentotrophic Viviparous Lizards                             |                           |
| 535  | <b>Tim King*, Jay Stauffer, Matthew Kulp, et al</b>   |     |   | 2:45 PM                   |
|  | Islands in the Stream: Genetic Analysis of Brook Trout ( <i>Salvelinus fontinalis</i> ) Population Structure and Demographics Reveals a High Degree of Population Fragmentation and Prodigious Differentiation Within and Among Streams |     |   |                           |
| 361  | <b>Amanda Haponski, Carol Stepien*</b>  | 343 | <b>Alison Cree</b>  | 3:00 PM                   |
|  | Genetic History of Maumee River Spawning Walleye ( <i>Sander vitreus</i> ): Comparisons of Adult and Larval Gene Pools  |     | The Challenges of an Evolutionary Relict: Reproductive Biology of the Tuatara               |                           |
| 408  | <b>Barry Chernoff*, Michelle Kraczkowski, Julio Angel, et al</b>  |     |   | 3:15 PM                   |
|  | Over the falls: Population Differentiation of Blacknose and Longnose Dace, <i>Rhinichthys atratulus</i> and <i>R. cataractae</i> , in Connecticut   |     |   |                           |
| 754  | <b>Jennifer Gumm*, Cory Becher, Christopher Brooks, Gene Wilde</b>  |     | DISCUSSION  | 3:30 PM                   |
|  | Genetic and Behavioral Analysis of Hybridization Between Red River Pupfish ( <i>Cyprinodon rubrofluvialis</i> ) and Sheepshead Minnow ( <i>Cyprinodon variegatus</i> )  |     |   |                           |
| 412  | <b>Michael Schwemm*, Anthony Echelle, Ronald Van Den Bussche, Jason Schooley</b>  |     |   | 3:45 PM                   |
|  | Comparison of Genetic Structure Across Age-Groups of Paddlefish in Grand Lake, Oklahoma   |     |   |                           |
| <b>POSTER SESSION II</b><br>Exhibit Hall C & D |   |     |   | 4:00 PM                   |
|  |   |     |   |                           |
|  |   |     |   | 5:00 PM                   |
|  | <b>ASIH Business Meeting</b><br>6-8 p.m.  |     |   | 6:00 PM                   |

\* denotes presenter



**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**SATURDAY, 2 August, Afternoon Sessions**

| ROOM                  |  | <i>Banquet Room I</i>   |     | <i>Banquet Room J</i>  |
|-----------------------|--|---|-----|--|
| SESSION/<br>SYMPOSIUM |  | <b>ICH &amp; HERP PHYSIOLOGY</b>  |     | <b>HERP CONSERVATION IV</b>  |
| MODERATOR             |  | EMILY TAYLOR  |     | BRIAN HALSTEAD   |
| 1:30 PM               | 333  | <b>Michael DeLea*, Dale DeNardo, Emily Taylor</b>   | 783 | <b>Michael F. Bates</b>  |
|                       |  | The Role of Chemoreception in Rattlesnake Spatial Navigation  |     | The Southern African Reptile Conservation Assessment Project   |
| 1:45 PM               | 130  | <b>Kyle Weichert, Emily Taylor*</b>   | 104 | <b>Timothy Baldwin*, Yong Wang, Callie Schweitzer</b>  |
|                       |  | Lizard vs. Spirochete SmackDown! Fat Females Take the Bactericidal Title  |     | The Influence of Forest Management Practices on Breeding Pool Accessibility, Breeding Site Selection, and Breeding Performance of Amphibians in Grundy County, Tennessee |
| 2:00 PM               | 415  | <b>Benjamin Johnson*, Kelly Zamudio</b>   | 218 | <b>Jessica Duke*, Joseph Pechmann</b>  |
|                       |  | Range-Wide Variation in Physiological and Transcriptomic Response to Thermal Challenge in the Spotted Salamander ( <i>Ambystoma maculatum</i> ) |     | Assessing the Effectiveness and Value of Wetland Habitat Created for Amphibians in the Nantahala National Forest in NC.  |
| 2:15 PM               | 678  | <b>Frank Bailey, Vince Cobb, Matthew Klukowski*, Jake Pruett</b>  | 238 | <b>Kaite Anderson</b>  |
|                       |  | Sexually Dimorphic Corticosterone Responses to an Acute Stressor in Cottonmouths ( <i>Agkistrodon piscivorus</i> )                              |     | Impacts of Human Recreation and Hydroelectric Flow Regime on Basking Behavior in Northern Map Turtles, <i>Graptemys geographica</i>                                      |
| 2:30 PM               | 155  | <b>Jenna Crovo*, Carol Johnston</b>   | 330 | <b>Brian Halstead*, Glenn Wylie, Melissa Amarello, et al</b>   |
|                       |  | A Little Less Noise There: Traffic Noise Increases Cortisol Levels in <i>Cyprinella venusta</i>   |     | Short-term Effects of Prescribed Fire on Apparent Survival of San Francisco Gartersnakes ( <i>Thamnophis sirtalis tetrataenia</i> )                                      |
| 2:45 PM               | 647  | <b>Nicholas Wegner*, Owyn Snodgrass, Heidi Dewar, John Hyde</b>   | 279 | <b>Pietro Mello*, Ricardo Machado, Cristiano Nogueira</b>  |
|                       |  | Evidence for Pectoral Endothermy in the Opa, <i>Lampris guttatus</i>  |     | Extinction Risk and Conservation of Endemic Squamates in the Cerrado Savanna, a Highly Threatened Biodiversity Hotspot   |
| 3:00 PM               | 302  | <b>Amber Ferguson*, Daniel Huber, Philip Motta</b>  | 114 | <b>Allison Sacerdote-Velat</b>   |
|                       |  | Feeding Performance of King Mackerel, <i>Scomberomorus cavalla</i>  |     | An Occupancy-based Conservation Assessment of Smooth Greensnakes ( <i>Opheodrys vernalis</i> ) in Northern Illinois.   |
| 3:15 PM               | 628  | <b>Jeffrey Goessling*, Mary Mendonca, Craig Guyer</b>   | 616 | <b>Mickey Agha*, Jeffrey E. Lovich, Joshua R. Ennen, et al</b>   |
|                       |  | Seasonal Acclimation of Immune Parameters in Gopher Tortoises   |     | Variation in Agassiz's Desert Tortoise ( <i>Gopherus agassizii</i> ) Survivorship along a Wilderness to Industrial Disturbance Gradient                                  |
| 3:30 PM               | 245  | <b>Leigh Anne Harden*, Amanda Williard, Kimberley Duernberger, T. Todd Jones</b>  | 458 | <b>Brian Todd*, J. Mark Peaden, Melia Nafus, et al</b>   |
|                       |  | Water Relations of the Estuarine Diamondback Terrapin from Dormancy to Activity   |     | Quantifying Road Effect Zones for Desert Tortoises ( <i>Gopherus agassizii</i> ) to Estimate Benefits of Mitigation and Habitat Protection                               |
| 3:45 PM               | 216  | <b>Amanda Williard*, Leigh Anne Harden, Stephanie Chavez</b>  | 772 | <b>Matthew Cross*, Gregory Lipps, Jr., Karen Root</b>  |
|                       |  | Effects of Temperature on Metabolism and Osmotic Balance in the Estuarine Diamondback Terrapin  |     | Temporal Distributions of Female Eastern Box Turtles in a Biodiversity Hotspot   |
| 4:00 PM               | <b>POSTER SESSION II</b><br>Exhibit Hall C & D |   |     |  |
|                       |  |   |     |  |
| 5:00 PM               |  |   |     |  |
| 6:00 PM               |  | <b>SSAR Business Meeting</b><br>6-8 p.m.  |     |  |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**SUNDAY, 3 August, Morning Sessions**

|                          | <i>Banquet Room E</i>   |            | <i>Banquet Room F</i>   | ROOM                          |
|--------------------------|---|------------|---|-------------------------------|
|                          | <b>HERP ECOLOGY II</b>  |            | <b>FISH BEHAVIOR</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|                          | <b>LISA REGULA MEYER</b>  |            | <b>MOLLY MORRIS</b>   | <b>MODERATOR</b>              |
| <b>256</b>               | <b>Drew Dittmer*, Joseph Bidwell</b>  | <b>303</b> | <b>Joshua Hubbell*, Heidi Banford</b>   | <b>8:00 AM</b>                |
|                          | What's the Rock Got to do with it? The Influence of Australia's Iconic Inselberg on Herpetofaunal Assemblages   |            | Analysis of the Spawning Behavior and Microhabitat of the Tallapoosa Darter   |                               |
| <b>357</b>               | <b>Sean Giery*, Nathan Lemoine, Caroline Hammerschlag-Peyer, et al</b>  | <b>762</b> | <b>Raelynn Deaton Haynes*, J. Alex Carr, Hillary Evans, Natalie Willard</b>   | <b>8:15 AM</b>                |
|                          | Cross-habitat Trophic Coupling by Anolis Lizards: Allochthonous Inputs Follow Diverse Routes Between Food Webs  |            | Social Dominance-based Mating Preferences in Livebearing Fishes   |                               |
| <b>566</b>               | <b>Joseph Simpson*, Thomas Wilson, Team Salamander</b>  | <b>550</b> | <b>Karen Martin</b>   | <b>8:30 AM</b>                |
|                          | An Assessment of a Herpetofaunal Community in Southeastern Tennessee: Ecology, Biodiversity, Threats, and Conservation Status                             |            | A Leap of Faith: Beach Spawning in Fishes has Multiple Independent Origins  |                               |
| <b>667</b>               | <b>Lisa Regula Meyer</b>  | <b>521</b> | <b>Thomas Luhring*, Michael Wagner</b>  | <b>8:45 AM</b>                |
|                          | Experimental Venue and Effects on Experimental Results in a Study of Amphibian Ecology  |            | Chemical Risk Information Guides Migratory Movements of Semelparous Sea Lamprey: Implications for Control and Conservation.   |                               |
| <b>59</b>                | <b>Jon Davenport*, Blake Hossack, Winsor Lowe</b>   | <b>476</b> | <b>Leo Demski</b>   | <b>9:00 AM</b>                |
|                          | Partitioning the Non-consumptive Effects of Predators on Prey with Complex Life Histories   |            | The Vertical Body Bands in Bluegills ( <i>Lepomis macrochirus</i> ): a Review of Studies and a Possible Model System for Understanding Neural Substrates of Fear and Inhibition of Aggression |                               |
| <b>168</b>               | <b>Megan Young*, Toby Hibbitts</b>  | <b>71</b>  | <b>Molly Morris</b>   | <b>9:15 AM</b>                |
|                          | Home Range and Movements of the Dunes Sagebrush Lizard ( <i>Sceloporus arenicolus</i> ) in Fragmented Habitat   |            | Intralocus Tactical Conflict and the Evolution of "Reversible" Alternative Reproductive Tactics   |                               |
| <b>BREAK - Foyer</b>     |   |            |   | <b>9:30 AM</b>                |
|                          | <b>AES MORPHOLOGY &amp; REPRODUCTION</b>  |            | <b>NIA</b>  | <b>SESSION/<br/>SYMPOSIUM</b> |
|                          | <b>KARA YOPAK</b>   |            | <b>BRIAN SIDLAUSKAS</b>   | <b>MODERATOR</b>              |
| <b>308</b>               | <b>Kara Yopak*, Thomas Lisney, Shaun Collin</b>   | <b>587</b> | <b>Brian Sidlauskas*, Michael Alfaro, Michael Burns, et al</b>  | <b>10:00 AM</b>               |
|                          | Wake Up and Smell the Evolution: Variation in Olfactory Bulb Size in Cartilaginous Fishes   |            | New Molecular Insights into the Exceptional Morphological Radiation of Neotropical Headstanding Fishes ( <i>Characiformes: Anostomoidea</i> )   |                               |
| <b>703</b>               | <b>Ashley Peterson, Misty Paig-Tran*, Adam Summers</b>  | <b>380</b> | <b>James Albert*, Donald Schoolmaster, Scott Duke-Sylvester</b>   | <b>10:15 AM</b>               |
|                          | Mega Filtration: Using Biomimetic Models to Understand Manta Ray Feeding.   |            | A Spatially-explicit Neutral Model Predicts Accumulation of Early Branching, Species-poor Clades Towards the Geographic Periphery   |                               |
| <b>126</b>               | <b>Carl Luer*, Cathy Walsh, Jennifer Wyffels, Laura Edsberg</b>   | <b>701</b> | <b>Brandon Waltz</b>  | <b>10:30 AM</b>               |
|                          | Experimental Wounding of Atlantic Stingrays, <i>Dasyatis sabina</i> : Correlating Gross Physical Changes with Wound Bed Histology in the Healing Response |            | Morphological Variation in the <i>Eigenmannia virescens</i> Species Group ( <i>Gymnotiformes: Sternopygidae</i> )   |                               |
| <b>731</b>               | <b>Jim Gelsleichter*, R. Dean Grubbs, Gregg Poulakis, et al</b>   | <b>578</b> | <b>Cristina Cox Fernandes*, Adília Nogueira, Andrew Williston, José Alves-Gomes</b>   | <b>10:45 AM</b>               |
|                          | Hermaphroditism and Other Aspects of Reproduction in the Endangered Smalltooth Sawfish ( <i>Pristis pectinata</i> )                                       |            | Diversity of <i>Microsternarchus</i> ( <i>Gymnotiformes, Hypopomidae</i> ) from Negro River Basin   |                               |
| <b>243</b>               | <b>Jill Hendon*, Eric Hoffmayer, Jeremy Higgs, et al</b>  | <b>561</b> | <b>Marcelo Melo*, Flavio Lima, Mauro Ribeiro</b>  | <b>11:00 AM</b>               |
|                          | Reproductive Biology of the Blacknose Shark, <i>Carcharhinus acronotus</i> , in the Northern Gulf of Mexico   |            | The Rectangle of Fish Biodiversity in Central Brazil: Insights from the Genus <i>Characidium</i> ( <i>Crenuchidae: Characiformes</i> )  |                               |
| <b>390</b>               | <b>Melissa Gonzalez De Acevedo*, Jim Gelsleichter, Bryan Frazier, et al</b>   | <b>404</b> | <b>Victor Tagliacollo*, Scott Duke-Sylvester, Fabio Roxo, et al</b>   | <b>11:15 AM</b>               |
|                          | Characterization of Reproduction in Bonnethead Sharks ( <i>Sphyrna tiburo</i> ) from the Southeastern U.S. Atlantic Coast                                 |            | Uncovering Large-scale River Capture Events in Amazonian Lowlands   |                               |
| <b>446</b>               | <b>Melisa Chierichetti, Lorena Scenna, Daniel Figueroa*, et al</b>  | <b>160</b> | <b>Tiago Pinto Carvalho</b>   | <b>11:30 AM</b>               |
|                          | Reproductive Biology of the Cockfish, <i>Callorhynchus callorhynchus</i> ( <i>Holocephali: Callorhynchidae</i> ), in a Coastal Area off Argentina         |            | A New Miniature Species of Banjo Catfish ( <i>Siluriformes: Aspredinidae</i> ) from Lower Purus River in the Amazon Basin, Brazil.  |                               |
|                          |   | <b>376</b> | <b>Caroline Arantes*, Kirk Winemiller, Miguel Petreire, et al</b>   | <b>11:45 AM</b>               |
|                          |   |            | Influence of Deforestation on Fisheries in the Amazon Floodplains   |                               |
| <b>LUNCH ON YOUR OWN</b> |   |            |   | <b>12:00 PM</b>               |

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Morning Sessions

| ROOM                  |     | <i>Banquet Room G</i>  |     | <i>Banquet Room H</i>   |
|-----------------------|-----|--|-----|---|
| SESSION/<br>SYMPOSIUM |     | FISH SYSTEMATICS & TAXONOMY II   |     | HERP DEVELOPMENT, MORPHOLOGY & HISTOLOGY  |
| MODERATOR             |     | CASEY DILLMAN  |     | FRAN IRISH  |
| 8:00 AM               | 304 | Diego Vaz*, Marcelo Carvalho   | 288 | Thomas Lozito*, Rocky Tuan  |
|                       |     | Morphological and Taxonomic Revision of the Genus <i>Centroscyminus</i> with Comments on the Generic Arrangement Within the Family Somniosidae (Chondrichthyes: Squaliformes).   |     | Lizard Tail Regeneration, a New Model to Study Cartilage Regeneration: Role of Indian Hedgehog  |
| 8:15 AM               | 264 | Shobnom Ferdous*, Jonathan Armbruster  | 639 | Carlos Infante*, Sungdae Park, Alexandra Mihala, Douglas Menke  |
|                       |     | The Identity of Catfishes Identified as <i>Mystus gulio</i> (Hamilton, 1822) (Teleostei: Bagridae), and Designation of a Neotype   |     | The Evolution of Limb Enhancers in Lizards and Snakes   |
| 8:30 AM               | 192 | Stuart Welsh*, Dean Jerry, Damien Burrows  | 41  | Joseph R. Mendelson III*, Hamidreza Marvi, Chaohui Gong, et al  |
|                       |     | A New Species of Freshwater Eel-tailed Catfish of the Genus <i>Tandanus</i> (Teleostei: Plotosidae) from the Wet Tropics Region of Eastern Australia   |     | Sidewinder Rattlesnakes Inform Design of Robotic Devices: the Beauty of Multidisciplinary Research Teams  |
| 8:45 AM               | 356 | Kean Clifford*, Donald Stewart   | 10  | Stan Trauth*, Kevin Gribbins, David Sever, et al  |
|                       |     | Morphological Variation in the Bowfin ( <i>Amia calva</i> ), with a Review of Nominal Species: Conservation Implications   |     | Unusual Spermatogenic, Spermiogenic, and Spermatozoal Features in the Western Lesser Siren, <i>Siren intermedia nettingi</i>                                    |
| 9:00 AM               | 185 | Katie May Laumann*, Eric J. Hilton, Casey B. Dillman, et al  | 523 | Dean Adams  |
|                       |     | Sturgeon Phylogenetics: A Whole Mitogenomic Approach   |     | Elevated Rates of Morphological Evolution in Montane Endemic Species of Plethodon Salamanders   |
| 9:15 AM               | 468 | Casey Dillman*, Eric Hilton  | 730 | Frances Irish*, Jennifer Kober  |
|                       |     | Nuclear DNA Sequences and Their Bearing on Our Understanding of the Phylogenetic Relationships of Sturgeons (Acipenseridae).   |     | Sand Boa Jaws are Specialized for Snagging Prey   |
| 9:30 AM               |     | BREAK - Foyer  |     |   |
| SESSION/<br>SYMPOSIUM |     | FISH SYSTEMATICS & TAXONOMY III  |     | HERP ECOLOGY III  |
| MODERATOR             |     | MARK SABAJ PEREZ   |     | KATHERINE GREENWALD   |
| 10:00 AM              | 511 | Mark Sabaj Pérez   | 624 | Katherine Greenwald   |
|                       |     | On the Identity of Catesby's Fish in Armour, "Cataphractus Americanus" (Siluriformes: Doradidae); a Handmaiden's Tale.   |     | Capture-Mark-Recapture Analysis and Demography in a Unisexual-Bisexual <i>Ambystoma</i> Salamander Community  |
| 10:15 AM              | 258 | Nathan K. Lujan*, Jonathan W. Armbruster, Nathan R. Lovejoy, Hernán López-Fernández  | 574 | Jesse Miles*, Walter Smith  |
|                       |     | Multilocus Molecular Phylogeny of the Suckermouth Armored Catfishes (Siluriformes: Loricariidae) with a Focus on the Subfamily Hypostominae  |     | Effects of Riparian Habitat Disturbance on Salamander Occupancy and Assemblage Composition  |
| 10:30 AM              | 434 | Richard L. Mayden*, Brooks M. Burr, Lourdes Lozano-Vilano  | 58  | Richard Bruce   |
|                       |     | A New Species of <i>Cycleptus</i> (Cypriniformes: Catostomidae) from the Rio Grande Drainage   |     | Reproductive Allometry in Three Species of Dusky Salamanders as Evidence of Life-History Symmetry in the genus <i>Desmognathus</i>                              |
| 10:45 AM              | 309 | Phillip Hollingsworth*, C. Darrin Hulsey   | 101 | Joseph Milanovich*, William Peterman  |
|                       |     | Adaptive Radiation Along a Benthic/Pelagic Foraging Axis in Eastern North American Cyprinids   |     | Examining the Spatial Variation of the Standing Crop of Nutrients Within A Terrestrial Salamander in a Forest Ecosystem   |
| 11:00 AM              | 28  | Carole C. Baldwin*, G. David Johnson, D. Ross Robertson  | 170 | Julia Earl*, Sean Blomquist, Christopher Conner, et al  |
|                       |     | New Discoveries in the Caribbean Sea: Integrative Taxonomy Reveals Two New Species of <i>Liopropoma</i> (Serranidae: Epinephelinae: <i>Liopropomini</i> ) from Deep Reefs off Curaçao and the Surprising Identity of an Unusual Fish Larva from the Florida Straits. |     | Estimates of Amphibian Biomass Export from Ponds in Maine and Missouri, USA   |
| 11:15 AM              | 464 | Matthew Craig*, Elizabeth Smith, John Hyde, Larry Allen  | 179 | Rick Relyea*, John Hammond, Patrick Stephens, et al   |
|                       |     | How Many Species of Wreckfishes (Genus <i>Polyprion</i> ) are There?   |     | Phylogenetic Patterns of Plasticity: Insights from Amphibian Embryos and Tadpoles   |
| 11:30 AM              | 418 | Rich Harrington*, Matt Friedman  | 72  | James Godwin*, Lesley de Souza  |
|                       |     | Morphological Diversification in Carangimorphs: Perspectives from the Modern Day and the Fossil Record   |     | Black Warrior Waterdog ( <i>Necturus alabamensis</i> ) and Flattened Musk Turtle ( <i>Sternotherus depressus</i> ) Status Survey using Environmental DNA (eDNA) |
| 11:45 AM              |     |  | 213 | Roy Scudder-Davis*, Christina Benedict, Alyssa Hubbard, et al   |
|                       |     |  |     | Diversity and Abundance of Salamanders in Relation to Human Development in Six Selected Stream Habitats in Central Kentucky                                     |
| 12:00 PM              |     | LUNCH ON YOUR OWN  |     |   |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Morning Sessions

|                   | <i>Banquet Room I</i>   |     | <i>Banquet Room J</i>   | ROOM                  |
|-------------------|---|-----|---|-----------------------|
|                   | HERP REPRODUCTION   |     | HERP BIOGEOGRAPHY & PHYLOGEOGRAPHY  | SESSION/<br>SYMPOSIUM |
|                   | CRAIG LIND  |     | MICHAEL DOUGLAS   | MODERATOR             |
|                   |   |     |   | 8:00 AM               |
| 306               | M. Rockwell Parker  | 276 | Michael E Douglas*, Mark A Davis, Marlis R Douglas, et al   | 8:15 AM               |
|                   | How to Smell Sexy: Hormonal Architecture Underlying Pheromone Expression in Garter Snakes   |     | From Pleistocene to Anthropocene: Climate Change and its Impact on Distribution of the Arizona Black Rattlesnake ( <i>Crotalus cerberus</i> )                   |                       |
| 105               | Craig Lind*, Steven Beaupre   | 25  | Fernanda Werneck*, Rafael Leite, Silvia Geurgas, Miguel Rodrigues   | 8:30 AM               |
|                   | The Relationship Between Stored Energy, Steroid Hormones, Movement, and Behavior During the Breeding Season in Male Timber Rattlesnakes, <i>Crotalus horridus</i> . |     | Diversification of the Neotropical Rock Specialist Lizards from the <i>Tropidurus semitaeniatus</i> Species Group (Squamata: Tropiduridae)                      |                       |
| 90                | Neil Ford, Richard Seigel*  | 16  | Adam Leache*, Rebecca Harris, Max Maliska, Charles Linkem   | 8:45 AM               |
|                   | The Influence of Female Body Size and Shape on the Trade-Off Between Offspring Number and Offspring Size in Two Viviparous Snakes                                   |     | Comparative Species Divergence Across Eight Triplets of Spiny Lizards ( <i>Sceloporus</i> ) Using Genomic Sequence Data   |                       |
| 188               | Wade Carruth*, Brad Lock, David Rostal  | 320 | Kerry Cobb*, Cameron Siler, Arvin Diesmos, Rafe Brown   | 9:00 AM               |
|                   | The Reproductive Cycle of the Guatemalan Beaded Lizard, <i>Heloderma charlesbogerti</i>   |     | Cryptic Diversity In a Widespread Island Archipelago Forest Frog  |                       |
| 57                | Olivera Joksimovic*, Stephen De Lisle   | 229 | Wade Ryberg*, Johanna Harvey, Anna Blick, et al   | 9:15 AM               |
|                   | Static Allometry and the Evolution of Sexual Dimorphism in the Green Frog ( <i>Lithobates clamitans</i> )   |     | Interspecies Genetic Determination of the Massasauga Distribution in Texas  |                       |
| BREAK - Foyer     |   |     |   | 9:30 AM               |
|                   | HERP BEHAVIOR II  |     | HERP & ICH GENOMICS   | SESSION/<br>SYMPOSIUM |
|                   | SHERRI EMER   |     | RAFE BROWN  | MODERATOR             |
| 739               | Sherri Emer*, Cordula Mora, Mark Harvey, Michael Grace  | 765 | Michelle Gaither, Moises Bernal, Richard Coleman, Brian Bowen, Shelley Jones, Brian Simison, Luiz Rocha*  | 10:00 AM              |
|                   | The Heat is On: Behavioral Sensitivity of Burmese Pythons to Thermal Stimuli  |     | Genomic Evidence for Ecological Speciation in a Coral Reef Fish   |                       |
| 253               | Ryo Ito*, Akira Mori  | 494 | Kevin Kingsland*, Matthew Geisler, Brian Small, et al   | 10:15 AM              |
|                   | Non-vocal Lizards in Madagascar Eavesdrop on Avian Alarm Calls  |     | Transcriptome Annotation in Scaphirhynchus Sturgeons  |                       |
| 346               | Enrique Font*, Esther Ortí, Elisa Toscano, Pau Carazo   | 355 | Trevor Krabbenhoft*, Thomas Turner  | 10:30 AM              |
|                   | Structure and Function of Lacertid Visual Displays: Foot Shaking in European Wall Lizards ( <i>Podarcis muralis</i> )   |     | Comparative Transcriptomics as a Tool for Fish Ecology: Functional Genetic Variation in Cyprinid Fishes   |                       |
| 711               | Jake Pruett*, Cuauhcihuatl Vital, Jaime Zúñiga-Vega, et al  | 323 | Carol Stepien*, Carson Prichard, Thomas Blomquist   | 10:45 AM              |
|                   | Behavioral Responses to Conspecific Chemical Cues Among Four Species of <i>Sceloporus</i>   |     | Species Identities and Relative Abundances of Entire Fish Communities Using Environmental DNA and Next-Generation Sequencing: Case Studies from the Great Lakes |                       |
| 732               | Melissa Wright*, Luciano Chiaverano, Brenden Holland  | 366 | Rafe Brown*, Scott Travers, Karen Olson, et al  | 11:00 AM              |
|                   | Role of Social Interaction and Habitat Suitability in Movement Behavior of Jackson's Chameleons in Hawaii   |     | Ultraconserved Elements Resolve Shallow Divergences within a Complex of Cryptic Gecko Species from an Island Archipelago  |                       |
| 717               | Richard Vogt*, Virginia Bernardes, Camila Ferrara   | 239 | Charles Linkem*, Adam Leaché  | 11:15 AM              |
|                   | Tracking Migrating Hatchling Giant Amazon River Turtles <i>Podocnemis expansa</i> in the Rio Trombetas, Brazil with Sonic Transmitters                              |     | Resolving Rapid Diversification Events in Scincidae Using Lizard-specific Sequence Capture Probes   |                       |
| 277               | Sean Graham*, Crystal Kelehear, Tracy Langkilde   | 582 | Catriona Hendry*, Frank Burbrink, Vincent Chou, et al   | 11:30 AM              |
|                   | Trouble in Paradise: Responses of Anoles to Fire Ants in the British Virgin Islands.  |     | Phylogenomic Data and Coalescent Species-Tree Methods for Resolving Difficult Nodes in the Phylogeny of Advanced Snakes (Serpentes: Caenophidia).               |                       |
| 528               | Travis Robbins*, Tracy Langkilde  |     |   | 11:45 AM              |
|                   | Exposure to an Invasive Species During Juvenile Development Results in Adaptive Behavior Mediated by the Stress Hormone Corticosterone                              |     |   |                       |
| LUNCH ON YOUR OWN |   |     |   | 12:00 PM              |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Afternoon Sessions

| ROOM                  |     | <i>Banquet Room E</i>   |     | <i>Banquet Room F</i>   |
|-----------------------|-----|---|-----|---|
| SESSION/<br>SYMPOSIUM |     | AES CONSERVATION & PHYSIOLOGY   |     | FISH CONSERVATION & MANAGEMENT  |
| MODERATOR             |     | SONJA FORDHAM   |     | GINNY ADAMS   |
| 1:30 PM               | 699 | Sonja Fordham   | 234 | Brad Pusey*, Sue Jackson, Michael Douglas, et al  |
|                       |     | Conserving America's Forgotten Shark: Management of Dusky Smoothhound ( <i>Mustelus canis</i> ) Fishing in the U.S. Atlantic  |     | "We Like to Listen to Stories about Fish": Integrating Indigenous Ecological and Scientific Knowledge to Inform Environmental Flow Assessments                            |
| 1:45 PM               | 407 | Catherine Macdonald   | 657 | Justin Mann*, Henry Bart  |
|                       |     | Risky Business: Shark Conservation and Limits on the Potential Global Expansion of Shark Tourism  |     | Population Trends and Conservation Status of Louisiana's Rare Freshwater Fishes Using Data from Natural History Collections   |
| 2:00 PM               | 14  | David Shiffman*, Neil Hammerschlag  | 409 | Pablo Gesundheit*, Constantino Macías-García  |
|                       |     | Conservation and Management Policy Preferences of Elasmobranch Researchers  |     | The Roles of Hydrological Modification, Water Quality, and Species Introductions in the Decline of Native Freshwater Fishes in Central Mexico                             |
| 2:15 PM               | 193 | Jason O'Bryhim*, Douglas Adams, Julia Spaet, et al  | 363 | Gerald Smith  |
|                       |     | Relationships of Mercury Concentrations Across 23 Tissue Types For Three Shark Species  |     | Conservation of Fishes and Amphibians in the Era of Hydraulic Fracturing for Gas and Oil  |
| 2:30 PM               | 19  | Kady Lyons*, Ramon Lavado, Daniel Schlenk, Christopher G Lowe   | 383 | Nicholas Mandrak  |
|                       |     | Bioaccumulation of Organochlorine Contaminants and Response to Exposure in Male and Female Round Stingrays ( <i>Urobatis halleri</i> ) from Southern California     |     | Fish Communities of the Great Lakes Have Changed, but not Homogenized   |
| 2:45 PM               |     |   | 644 | Ginny Adams*, Casey Cox, Reid Adams, et al  |
|                       |     |   |     | Should We Explore Passage Opportunities for American Eel ( <i>Anguilla rostrata</i> ) in the Ouachita River Basin, Arkansas?  |
| 3:00 PM               |     | BREAK - Foyer   |     |   |
| SESSION/<br>SYMPOSIUM |     | HERP ECOLOGY & PHYLOGEOGRAPHY   |     | FISH CONSERVATION & MANAGEMENT  |
| MODERATOR             |     | ALISON CREE   |     | PHILIP LIENESCH   |
| 3:30 PM               | 80  | David Steen*, Jim Godwin  | 567 | Jacob Fose, Peter Zervas, Philip Lienesch*  |
|                       |     | Recent Investigations of Snake Community Ecology with Potential Implications for Ongoing Indigo Snake Reintroductions in Alabama                                    |     | Possible Reproductive Interference by Introduced Yellow Bass ( <i>Morone mississippiensis</i> ) on Native White Bass ( <i>Morone chrysops</i> ) in Barren River Lake, KY. |
| 3:45 PM               | 773 | Matt McElroy  | 538 | David Bechler*, Josh Salter, Brett Albanese   |
|                       |     | Phylogeographic Structure and Reduced Gene Flow Reveal the Potential for Local Thermal Adaptation in the Puerto Rican Crested Anole ( <i>Anolis cristatellus</i> ). |     | The Status of the Blackbanded Sunfish and Other Species of Concern in the State of Georgia  |
| 4:00 PM               | 249 | Stephanie Dowell*, Evon Hekkala   | 652 | Michael Flinn*, Jared Miliello  |
|                       |     | Phylogeography of the Widespread Nile monitor, <i>Varanus niloticus</i>   |     | Restoration and Movement Patterns of Juvenile Alligator Gar in Western Kentucky.  |
| 4:15 PM               | 388 | Jeffrey Weinell*, Christopher Austin  | 529 | Christina Saidak, Mark Cantrell, Carlos Echevarria, Kathlina Alford, Jason Henegar, Bernard Kuhajda*  |
|                       |     | Phylogeography of the Scarlet Snake ( <i>Cemophora coccinea</i> )   |     | Movement Patterns of Lake Sturgeon ( <i>Acipenser fulvescens</i> ) in the Upper Tennessee River   |
| 4:30 PM               | 481 | André Felipe Barreto-Lima*, Guarino Colli, Sandra Maria Hartz   | 389 | Bret Harvey*, Rodney Nakamoto, Andrew Kinziger  |
|                       |     | Ecology Niche Overlap between <i>Enyalius</i> ' Species (Squamata, Leiosaurinae): A Distribution Modelling for Neotropical Forest Lizards                           |     | Short Trips, Small Numbers: Introduced Cyprinids in the Eel River, Northwest California   |
| 4:45 PM               |     |   | 768 | Glenys Tordecilla-Petro*, Fredys F. Segura-Guevara, Charles W. Olava-Nieto  |
|                       |     |   |     | Length-Weight Relationship of Dorada Brycon sinuensis in the Sinu River Basin, Colombia   |
| 5:00 PM               |     |   |     |   |

\* denotes presenter

**2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN**

**ORAL PRESENTATIONS SCHEDULE AT A GLANCE**

**SUNDAY, 3 August, Afternoon Sessions**

|                      | <i>Banquet Room G</i>  |     | <i>Banquet Room H</i>  | ROOM                  |
|----------------------|--|-----|--|-----------------------|
|                      | GENERAL ICHTHYOLOGY  |     | HERP SYSTEMATICS   | SESSION/<br>SYMPOSIUM |
|                      | PHIL COCHRAN   |     | DAVID BLACKBURN  | MODERATOR             |
|                      |  |     |  | 1:30 PM               |
| 318                  | Phil Cochran*, Scott Malotka, Daragh Deegan  | 17  | Frank Portillo*, Eli Greenbaum, Maximilian Dehling, et al  | 1:45 PM               |
|                      | Biology of Chestnut Lampreys ( <i>Ichthyomyzon castaneus</i> ) in the St. Joseph River Drainage in Northern Indiana          |     | Phylogeography and Species Boundaries of Glode Eyed Treefrogs from the Albertine Rift  |                       |
| 638                  | Mark Meade*, Lindsay White, Megan Meade  | 34  | David Blackburn*, Mareike Hirschfeld, Mark-Oliver Rödel  | 2:00 PM               |
|                      | Occurrence of Asiatic Weatherfish, <i>Misgurnus anguillicaudatus</i> , in Northeast Alabama                                  |     | A Complete Species-level Phylogeny of the Long-fingered Frogs (genus <i>Cardioglossa</i> , Arthroleptidae) and the Evolution of Their Coloration                 |                       |
| 22                   | Bruce Stallsmith*, Gisela Reina, Rigoberto Gonzalez, et al   | 123 | Lauren Oliver*, Elizabeth Scott-Prendini, Christopher Raxworthy  | 2:15 PM               |
|                      | Monogonoidean Gill Parasites of the Poeciliid Fish <i>Brachyrhaphis episcopi</i> in Panama                                   |     | Dispersal and Diversification of <i>Hylarana</i> Across Multiple Biogeographic Regions   |                       |
| 472                  | Stacy Farina*, Thomas Near, William Bemis  | 195 | Eli Greenbaum*, Nancy Conkey, Rachel Romero, et al   | 2:30 PM               |
|                      | Evolution of the Branchiostegal Membrane and Restricted Gill Openings in Actinopterygian Fishes                              |     | A Phylogeny of Central African Spiny Reed Frogs (Anura: Hyperoliidae: <i>Africalus</i> ).  |                       |
| 374                  | Randy Singer*, Phillip Harris  | 267 | Donald Shepard*, Rebecca Chong, Cheng Sun, et al   | 2:45 PM               |
|                      | Back to the Future: Carrying the University of Alabama Ichthyology Collection into the Modern Age                            |     | Nuclear Markers for Shallow-scale Phylogenetics in Taxa with Giant Genomes: Resolving Relationships within the Plethodontid Salamander Genus <i>Desmognathus</i> |                       |
| <b>BREAK - Foyer</b> |  |     |  | <b>3:00 PM</b>        |
|                      | FISH SYSTEMATICS & TAXONOMY IV   |     | TURTLE ECOLOGY   | SESSION/<br>SYMPOSIUM |
|                      | ERIC HILTON  |     | GEORGE GUILLEN   | MODERATOR             |
| 112                  | Kenneth Thompson   | 670 | Meghan Kelley  | 3:30 PM               |
|                      | Karyotype of <i>Centropristis striata</i> , the Black Sea Bass with a Discussion of Chromosome Evolution in the Serranidae.* |     | Maternal Midland Painted Turtle ( <i>Chrysemys picta marginata</i> ) Cues Attracting Olfactory Mammalian Predators to Nests                                      |                       |
| 487                  | Rebecca Varney*, Toby Daly-Engel, Dean Grubbs  | 54  | Carla Eisemberg*, Arthur Georges   | 3:45 PM               |
|                      | Preliminary Analysis of Genetic Variation in Three Species of Gulf of Mexico Hagfishes                                       |     | Pig-nosed Turtle ( <i>Carettochelys insculpta</i> ) Coastal-riverine Nesting Dichotomy in the Kikori River, Papua New Guinea: Choice and Trade-offs              |                       |
| 719                  | Leo Smith  | 100 | Sasha Greenspan, Erin Condon, Lora Smith*  | 4:00 PM               |
|                      | Evolution of the Scorpionfishes and Allies   |     | Home Range and Habitat Selection in the Eastern Box Turtle ( <i>Terrapene carolina carolina</i> ) in a Longleaf Pine forest                                      |                       |
| 685                  | Rebecca Farr*, Asadullah Siddiqui, Kevin Tang  | 261 | Vivian P. Pérez*, Beatriz Rendón Valencia, Paula Espinal, Brian C. Bock  | 4:15 PM               |
|                      | Molecular Phylogeny of Cusk-eels (Teleostei: Ophidiiformes: Ophidiidae)  |     | Assessment of the Population Demographics of <i>Podocnemis lewyana</i> in the Middle Magdalena Drainage, Colombia.   |                       |
| 430                  | Matthew Davis  | 359 | Joshua Ennen*, Marley Kalis, Adam Patterson, et al   | 4:30 PM               |
|                      | Evolution and Diversification of the Lizardfishes (Teleostei: Aulopiformes)  |     | Intradrainage Morphological and Pigmentation Variation and the Potential for Sexual Dichromatism within Several <i>Graptemys</i> Species.                        |                       |
| 362                  | Peter Konstantinidis*, G. David Johnson  | 368 | George Guillen   | 4:45 PM               |
|                      | From <i>Rosaura</i> to <i>Gigantura</i> : An amazing Ontogenetic Journey   |     | Movement and Habitat Utilization by the Texas Diamondback Terrapin, <i>Malaclemys terrapin littoralis</i>  |                       |
| 348                  | Eric Hilton  |     |  | 5:00 PM               |
|                      | Osteology of Wolffishes (Zoarcoidei: Anarhichadidae): Historical Context and Preliminary Comparisons                         |     |  |                       |

\* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Afternoon Sessions

| ROOM                  |     | <i>Banquet Room I</i>  |     | <i>Banquet Room J</i>  |
|-----------------------|-----|--|-----|--|
| SESSION/<br>SYMPOSIUM |     | HERP GENETICS  |     | SSAR INFRARED IMAGING SYMPOSIUM  |
| MODERATOR             |     | AARON SCHREY   |     | MICHAEL GRACE  |
| 1:30 PM               |     |  |     | Introduction   |
| 1:45 PM               | 250 | Jared Wood*, Todd Campbell, Robert Page  | 779 | G.S. Bakken, A.R. Krochmal*, W.B. Gerwig, T.J. LaDuc   |
|                       |     | Population Genetic Analysis Enables Insights into the Introduction Histories of Two Florida Invasives: The Nile Monitor ( <i>Varanus niloticus</i> ) and the Argentine Black & White Tequ ( <i>Tupinambis merianae</i> ) |     | Evolution is in the (Thermal) Eye of the Beholder: Anatomical and Ecological Influences on the Evolution of the Facial Pits of Pitvipers |
| 2:00 PM               | 437 | Aaron Schrey*, Kyle Adams, Joyce Bongang, et al  | 780 | Wilmar Bolivar-Garcia*, Marta M. Antoniazzi, Taran Grant, Carlos Jared   |
|                       |     | The Effect of Fire-based Habitat Disturbances on the Genetic Characteristics of Florida Scrub Herpetofauna.  |     | Relationship Between Pit Organ Morphology and Ecology of Central and South American Crotaline Snakes                                     |
| 2:15 PM               | 457 | Rebecca Tarvin*, Juan Santos, Lauren O'Connell, et al  | 781 | S.A. Emer*, C. Mora, M. Harvey, M.S. Grace   |
|                       |     | Genetic Basis of Alkaloid Resistance in <i>Atelopus</i> and <i>Dendrobatidae</i>   |     | Hot or Not: Conditioned Responding and Pit Organ-Based Thermal Stimulus Detection by Burmese Pythons                                     |
| 2:30 PM               | 729 | Paul Hime*, Emily Lemmon, Alan Lemmon, et al   | 742 | Maria Myrback*, Sherri Emer, Michael Grace   |
|                       |     | Genomic Approaches to <i>Cryptobranchus</i> Conservation: Testing Range-Wide Species Boundaries and Searching for a Genetic Sex Assay  |     | A Non-invasive Electrocardiography Method for Measuring Responses to Thermal Stimuli in Burmese Pythons                                  |
| 2:45 PM               | 174 | Obed Hernandez-Gomez*, Steven Kimble, Jeffrey Briggler, Rod Williams   | 776 | William T. McLamb*, Michael S. Grace   |
|                       |     | The Identification of Cutaneous Microbiota on Eastern and Ozark Hellbenders Through Use of High-throughput Genetic Sequencing  |     | TRPA1 Ion Channels Mediate Thermal Targeting Behavior in Pit Vipers  |
| 3:00 PM               |     | BREAK - Foyer  |     |  |
| SESSION/<br>SYMPOSIUM |     | HERP GENETICS  |     | SSAR INFRARED IMAGING SYMPOSIUM  |
| MODERATOR             |     | BRUCE KINGSBURY  |     | MICHAEL GRACE  |
| 3:30 PM               | 196 | Todd Pierson*, Thomas Floyd, Paul Moler, et al   | 775 | Michael S. Grace*, William T. McLamb, Sherri A. Emer, Trevor T. Zachariah  |
|                       |     | Detection of Plethodontid Salamanders Using Environmental DNA  |     | A TRiP Through the Snake Brain: Functional Magnetic Resonance Imaging (fMRI) of the Infrared Sensory System in the Burmese Python        |
| 3:45 PM               | 228 | Jeffry Anderson, Robert Page*  | 782 | J.U. VanDyke   |
|                       |     | Genetic Resource Development in the Red-backed Salamander ( <i>Plethodon cinereus</i> )  |     | Convergent evolution of pit organs in snakes: costs and benefits of a novel sensory system   |
| 4:00 PM               | 230 | Evin Carter*, Benjamin Fitzpatrick   |     | Q & A  |
|                       |     | Reproductive Strategy and the Efficiency of Selection in Small Populations   |     |  |
| 4:15 PM               | 162 | Whitney Anthonysamy*, Sarah Wylie, Michael Dreslik, et al  |     |  |
|                       |     | Genetic Assessment of an Eastern Massasauga ( <i>Sistrurus catenatus</i> ) Population in Illinois  |     |  |
| 4:30 PM               | 643 | Breanna Gould*, Patrick Laarman, Jennifer Moore  |     |  |
|                       |     | Fine-scale Genetic Structure in Eastern Box Turtles  |     |  |
| 4:45 PM               |     |  |     |  |
| 5:00 PM               |     |  |     |  |

\* denotes presenter