

# SESSION AND SYMPOSIA MASTER

		THURSDAY	FRIDAY	SATURDAY	SUNDAY
	ROOM	12-Jul	13-Jul	14-Jul	15-Jul
AM	Grand Lilac Ballroom North	PLENARY (Grand Lilac Ballroom)	Amphibian Ecology I	ASIH: If Salamanders Could Speak Symposium	SSAR: Coloration in Fish, Amphibians, & Reptiles Symposium
	Grand Lilac Ballroom South	↓	Herpetology Conservation I	Ichthyology Biogeography/Ichthyology Conservation	General Ichthyology I & Ichthyology Morphology/Collections/Fisheries
	Highland Room A		HL Graduate Research Award/SSAR Seibert Ecology I	Herpetology Habitat & Environment	Amphibian Ecology II
	Highland Rooms B		SSAR Seibert Systematics & Evolution I	Herpetology Biogeography I & II	General Herpetology I/Lightning Talks III
	Highland Room C		ASIH Stoye Genetics, Development, & Morphology II & III	Herpetology Physiology	Herpetology Reproduction/Herpetology Conservation II
	Highland Room D		ASIH Stoye Conservation		Herpetology Genetics I & II
	Highland Room E		ASIH Stoye General Ichthyology III & IV/ NIA Best Student Paper	Neotropical Ichthyological Association Talks	Ichthyology Ecology and Ethology
			LUNCH	LUNCH	LUNCH
PM	Grand Lilac Ballroom North	Lightning Talks I	CHS: Effects of Climate Change Symposium	ASIH: If Salamanders Could Speak Symposium	
	Grand Lilac Ballroom South	ASIH Stoye General Ichthyology I & II	Herpetology Behavior	Ichthyology Systematics I	Ichthyology Systematics II/General Ichthyology II
	Highland Room A	SSAR Seibert Physiology & Morphology	SSAR Seibert Ecology II	Lightning Talks II	Reptile Ecology I & II
	Highland Rooms B	SSAR Seibert Conservation I & II	SSAR Seibert Systematics & Evolution II	Herpetology Systematics	General Herpetology II & III
	Highland Room C	ASIH Stoye Ecology & Ethology I & II	ASIH Stoye General Herpetology		Herpetology Conservation III & IV
	Highland Room D	ASIH Stoye Genetics, Development, & Morphology I	ASIH Stoye Physiology & Physiological Ecology		Herpetology Morphology I & II
	Highland Room E	Amphibian Disease Ecology	Ichthyology Genetics, Reproduction, and Development		
	POSTER SESSIONS		POSTER SESSION I Empire Hall South	POSTER SESSION II Empire Hall South	
	BUSINESS MEETINGS (Rooms vary)		HL (6 - 9 p.m.) NIA (6 - 8 p.m.)	ASIH (6 - 8 p.m.) SSAR (6 - 8 p.m.)	
EVE	SOCIAL EVENTS	JMIH OPENING RECEPTION (6:00 - 10:00 p.m.) Seabreeze Amusement Park	ASIH GRADUATE STUDENT SOCIAL (9:00 - 11:00 P.M.) Highland C - JAFRRCC  HL/SSAR STUDENT SOCIAL (9:00 - 10:00 p.m.) Highland B - JAFRRCC and (10:00 - 11:00 p.m.) Riverside Court - JAFRRCC	SSAR AV SHOWS (8:30 p.m. - 9:30 p.m.) Grand Lilac Ballroom South - JAFRRCC	ASIH Closing Event (6:00 p.m. - 9:00 p.m.) Nazareth College  MMPC MEETING (noon - 2:00 p.m.) Cascade Room F - JAFRRCC  HL/SSAR LIVE AUCTION (9 p.m. - midnight) Grand Lilac Ballroom - JAFRRCC

JAFRRCC = Joseph A. Floreano Rochester Riverside Convention Center

RRH = Rochester Riverside Hotel

# Oral Presentations - Thursday, 12 July - Afternoon

ROOM		<i>Highland Rooms A</i>		<i>Highland Rooms B</i>
SESSION/ SYMPOSIUM		SSAR Seibert Physiology & Morphology		SSAR Seibert Conservation I
MODERATOR		Stephen Lougheed		Ralph Saporito
1:30 PM				
1:45 PM	482	<b>Justin Bernstein*, Callie Crawford, Sara Ruane, Brooke Flammang</b>  Assessing the Functionality of Scale Keels in Reptiles	196	<b>Amanda Martin*, Karen Root</b>  Detecting Spatial Patterns of Herpetofauna Biodiversity in Northwest Ohio
2:00 PM	258	<b>Hayley Crowell*, Emily Taylor</b> Eat, Prey, Live: Comparative Thermal Ecology and Energy Requirements of Coastal and Inland Populations of Pacific Rattlesnakes ( <i>Crotalus oreganus</i> )	34	<b>Kristina Chyn*, Te-En Lin</b>  Projecting Roadkill Risk for Endemic & Native Island Herpetofauna
2:15 PM	25	<b>Ciera McCoy*, Christopher Lupfer, Brian Greene</b>  Survey of Arboviruses in Free-ranging Cottonmouths ( <i>Agkistrodon piscivorus</i> ) in Southern Missouri	30	<b>Thomas Maignet*, John Cox, Jian Yang</b>  Persistent Geophysical Effects of Mining Threaten Ridgtop-Associated Herpetofauna of Appalachian Forests
2:30 PM	78	<b>Aaron Griffing*, Sanger Thomas, Daza Juan, Stuart Nielsen, Edward Stanley, Tony Gamble</b>  Embryonic development of a parthenogenetic gecko ( <i>Lepidodactylus lugubris</i> ) with special reference to adhesive toepads	316	<b>Luke Linhoff*, Francesca McGrath, William Symes, Maureen Donnelly</b>  Dramatic Increases in the Values of Traded U.S. Amphibians Indicates Higher Risk of Overexploitation
2:45 PM	605	<b>Dustin Owen*, Michael Sheriff, Tracy Langkilde</b>  Effects of Maternal Stress on Lizard Heart Rate	344	<b>Charlene Hopkins*, Shawn Kuchta, Willem Roosenburg</b>  How to Build a Better Ecopassage: Evaluating Amphibian Use and Preference of Various Ecopassage Designs
3:00 PM		<b>BREAK - Empire Hall South</b>		
SESSION/ SYMPOSIUM				SSAR Seibert Conservation II
MODERATOR				Michael Benard
3:30 PM			68	<b>George Brooks*, Jennifer Smith, Emmanuel Frimpong, Thomas Gorman, Houston Chandler, Carola Haas</b>  Indirect Connectivity Estimates of Amphibian Breeding Wetlands from Spatially Explicit Occupancy Models
3:45 PM			321	<b>Lacy Rucker*, Thomas Pauley, William Sutton, Donald Brown</b>  Occupancy Dynamics of Two Terrestrial Salamanders over 30 Years in Relation to Habitat Degradation and a Short Elevation Gradient
4:00 PM			497	<b>Arianne Messerman*, Manuel Leal, Raymond Semlitsch</b>  Peering into a Black Box: Survival Among Terrestrial Juveniles of Three <i>Ambystoma</i> Salamander Species
4:15 PM			418	<b>Michael Jungen*, Shane Welch, John Holloway, Ernie Wiggers, Jayme Waldron</b>  Long-distance Translocation of Eastern Diamondback Rattlesnakes ( <i>Crotalus adamanteus</i> )
4:30 PM			296	<b>Gabriella Zagorski*, James Trotter, Douglas Boreham, Jacqueline Litzgus</b>  Examining Population and Spatial Ecologies of Blanding's Turtles <i>Emydoidea blandingii</i> to Inform Mitigation Plans for Quarry Development
4:45 PM			109	<b>Damien Mullin*, Rachel White, Andrew Lentini, Jory Mullen, Ronald Brooks, Jacqueline Litzgus</b>  Evaluating the Effectiveness of Headstarting for Wood Turtle ( <i>Glyptemys insculpta</i> ) Recovery from a Suspected Poaching Event

\* denotes presenter

# Oral Presentations - Thursday, 12 July - Afternoon

	<i>Highland Rooms C</i>		<i>Highland Rooms D</i>	ROOM
	ASIH Stoye Ecology & Ethology I		ASIH Stoye Genetics, Development, & Morphology I	SESSION/ SYMPOSIUM
	Mark Paulissen		Brad Shaffer	MODERATOR
456	<p><b>Casey Brewster*, Steve Beaupre</b></p> <p>Addressing the Links between Woody Vegetation Encroachment and Reduced Reproduction in the Eastern Collared Lizard (<i>Crotaphytus collaris</i>).</p>	355	<p><b>Nicholas Lewis*, Andrew Isdener, David Pfennig</b></p> <p>Carotenoid pigments shed light on phenotypic plasticity's role in evolutionary innovation</p>	1:30 PM
		36	<p><b>Kayla Anatone*, Barry Chernoff</b></p> <p>The Evolutionary Consequences of Living in a Historically Metal Polluted River: the Genetic Variation of Blacknose Dace (<i>Rhinichthys atratulus</i>)</p>	1:45 PM
378	<p><b>Brenna Levine*, Marlis Douglas, Julie Savidge, Bjorn Lardner, Robert Reed, Amy Yackel Adams, Michael Douglas</b></p> <p>Genomic Pedigree Reconstruction Provides Novel Insight into the Reproductive Ecology of the Invasive Brown Treesnake (<i>Boiga irregularis</i>) on Guam</p>	369	<p><b>Roberto Márquez*, Tyler Linderoth, Daniel Mejía-Vargas, Pablo Palacios, Rasmus Nielsen, Adolfo Amézquita, Marcus Kronforst</b></p> <p>Divergence, Gene Flow and Convergent Origins of Aposematic Phenotypes in Phyllobates Poison-dart Frogs</p>	2:00 PM
291	<p><b>Mallory Harmel*, Hayley Crowell, Emily Taylor</b></p> <p>50 Shades of Clay: Rattlesnake Coloration Affects Detection by Predators</p>	164	<p><b>Caroline Dong*, Claire McLean, Adnan Moussalli, Devi Stuart-Fox</b></p> <p>Genomic and Phenotypic Patterns Across a Contact Zone of Colorful Agamids</p>	2:15 PM
94	<p><b>Carl Jacobsen*, William Flint, Donald Brown</b></p> <p>Projected Current and Future Habitat for the Cow Knob Salamander (<i>Plethodon punctatus</i>).</p>	271	<p><b>Pamela Hart-Burress*, Matthew Niemiller, Prosanta Chakrabarty</b></p> <p>Phylogenomics of the Amblyopsidae (Percopsiformes)</p>	2:30 PM
566	<p><b>Florence Wen*</b></p> <p>Investigating Sea Turtle Hatchling Sex Ratios and Methods to Mitigate Climate Change Effects at an Arribada Beach in Costa Rica</p>	113	<p><b>Jessica Glass*, Richard Harrington, Brant Faircloth, Thomas Near</b></p> <p>Phylogenomics of carangiform evolution using ultraconserved elements</p>	2:45 PM
<b>BREAK - Empire Hall South</b>				<b>3:00 PM</b>
	ASIH Stoye Ecology & Ethology II			SESSION/ SYMPOSIUM
	Ken Dodd			MODERATOR
380	<p><b>Jeanette B. Moss*, Glenn P. Gerber, Aumbriel Schwirian, Anna C. Jackson, Mark E. Welch</b></p> <p>The sex life of a Caribbean lizard: sexual conflict, evolutionary constraint, and inbreeding avoidance in a small, insular population</p>			3:30 PM
448	<p><b>Seth Bromagen*, Michael Sukhdeo</b></p> <p>Community Ecology of Monogenea on Bluegill Sunfish (<i>Lepomis macrochirus</i>)</p>			3:45 PM
324	<p><b>Nicholas Buss*, Jessica Hua</b></p> <p>The relationship between amphibian biodiversity and disease outcome is modified by NaCl contamination</p>			4:00 PM
221	<p><b>Kelsey E. Reider*, Maureen A. Donnelly</b></p> <p>Survival at the Summits: Anuran Responses to Rapid Deglaciation in the High Andes of Southern Perú</p>			4:15 PM
159	<p><b>Patrick D. Moldowan*, Glenn J. Tattersall, Njal Rollinson</b></p> <p>Population Ecology and Sensitivity to Environmental Change of the Spotted Salamander, <i>Ambystoma maculatum</i></p>			4:30 PM
267	<p><b>Taston Brookshire*</b></p> <p>The Effects of Three Different Species of Leaf Litter on <i>Incilius nebulifer</i> Larval Growth, Development, and Survival.</p>			4:45 PM

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# Oral Presentations - Thursday, 12 July - Afternoon

ROOM		<i>Highland Rooms E</i>		<i>Grand Lilac Ballroom North</i>
SESSION/ SYMPOSIUM		Amphibian Disease Ecology		
MODERATOR		James Julian		
1:30 PM	108			
1:45 PM	38	<p><b>Vanessa Wuerthner*, Obed Hernández-Gómez, Jessica Hua</b></p> <p>Amphibian Host and Skin Microbiota Response to a Common Antimicrobial and Internal Parasite</p>		
2:00 PM	115	<p><b>Gabriel Langford*, Triantofilos Iakovidis, Michael Politis</b></p> <p>Impact of Multiple Host Invasions on Native Parasite Assemblages: What Happens When Three Non-native Anurans Invade a Florida Frog Pond?</p>		
2:15 PM	126	<p style="text-align: center;"><b>Ariel Kruger*</b></p> <p>Pine Barrens Treefrog Skin Bacteria Inhibit Growth of the Chytrid Fungus, <i>Batrachochytrium dendrobatidis</i></p>		
2:30 PM	259	<p style="text-align: center;"><b>Jessica Hua*, George Meindl</b></p> <p>Effect of Different Cold-temperature Regimes on Compensatory Larval Growth, Development, and Susceptibility to Road Salt and Parasites in <i>Lithobates sylvaticus</i>.</p>		
2:45 PM	643	<p style="text-align: center;"><b>James Julian*, Gavin Glenney, Jerod Skebo</b></p> <p>Disease Outbreaks in Wood Frog (<i>Lithobates Sylvaticus</i>) Populations and the use of Environmental DNA to Detect Pathogens</p>		
3:00 PM		<b>BREAK - Empire Hall South</b>		
SESSION/ SYMPOSIUM				<b>Lightning Talks I</b>
MODERATOR				<b>David Green</b>
3:30 PM				<p><b>18 Onadeko</b>  <b>21 Stevens</b>  <b>23 Stayton</b>  <b>40 Gerson</b>  <b>59 Page</b>  <b>88 Ruane</b>  <b>92 Denton</b>  <b>93 Brodman</b>  <b>119 Westfall</b>  <b>167 Bosque</b>  <b>180 Ford</b>  <b>193 Santos</b>  <b>236 Willson</b>  <b>262 Werman</b>  <b>388 Forzán</b></p>
3:45 PM				
4:00 PM				
4:15 PM				
4:30 PM				
4:45 PM				

\* denotes presenter

# Lightning Talks- Thursday, 12 July - Afternoon

3:30 PM - 5:00 PM, Grand Lilac Ballroom North, Joseph A. Floreano Rochester Riverside Convention Center

18	<p><b>Abiodun Onadeko*</b></p> <p>Tackling the Paucity of Information (Knowledge) of Anuran diversity and studies on Nigerian Landscapes: Platform for Research Collaboration.</p>
21	<p><b>Annie Stevens*</b></p> <p>Dermal Bacteria of <i>Ambystoma maculatum</i> and <i>Ambystoma jeffersonianum</i></p>
23	<p><b>C. Tristan Stayton*</b></p> <p>The Turtle Shell as a Prestressed Structural Element: Preliminary Observations</p>
40	<p><b>Marina Gerson*</b></p> <p>Homage to GE Hutchinson or Are there still so many kinds of animals? Long term studies needed.</p>
59	<p><b>Robert Page*, Claire Conarroe, Diana Quintanilla, Andriea Palomo, Joshua Solis, David Marsh</b></p> <p>Hybridization and Genetic Variation in the Range-restricted Peaks of Otter Salamander, <i>Plethodon hubrichti</i></p>
88	<p><b>Sara Ruane*</b></p> <p>Training YOUR Dog for Snake Detection!</p>
92	<p><b>Robert Denton*, Ariadna Morales, Lisle Gibbs</b></p> <p>Evolutionary History of the Nuclear Genomes Trapped in a Polyploid Salamander Lineage</p>
93	<p><b>Bob Brodman*</b></p> <p>Do Amphibians Believe in Climate Change: The Tale of Research and Nature Interpretation in the National Parks.</p>
119	<p><b>Aundrea Westfall*, Jamie Oaks, Tonia Schwartz</b></p> <p>The Evolution of Viviparity and the Insulin and Insulin-like Signaling Network in <i>Sceloporus</i> Lizards</p>
167	<p><b>Renan Bosque*, Justin Lawrence, Richard Buchholz, Guarino Colli, Jessica Heppard, Brice Noonan</b></p> <p>Diversity of warning signal and social interaction influences the evolution of imperfect mimicry</p>
180	<p><b>Jessica Ford*</b></p> <p>Methods for raising toad tadpoles in experimental mesocosms</p>
193	<p><b>Marcella Santos*, Leandro Sousa, Brice Noonan</b></p> <p>Population Genomics and Evolution of Catfishes of the Genus <i>Hypancistrus</i> in the Highly Imperiled Xingu River, Brazil</p>
236	<p><b>John Willson*</b></p> <p>Rapid growth and flexible reproduction in semi-aquatic snakes inhabiting seasonal prairie wetlands</p>
388	<p><b>María J. Forzán*, Joe-Felix Bienentreu, Danna M. Schock, David Lesbarreres</b></p> <p>Mortality due to ranavirus infection in Boreal chorus frog, <i>Pseudacris maculata</i>, tadpoles: histopathology and diagnostic stains</p>

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# Oral Presentations - Thursday, 12 July - Afternoon

<b>ROOM</b>		<i>Grand Lilac Ballroom South</i>		
<b>SESSION/ SYMPOSIUM</b>		<b>ASIH Stoye General Ichthyology I</b>		
<b>MODERATOR</b>		<b>Hank Bart</b>		
<b>1:30 PM</b>	<b>485</b>	<p><b>Elizabeth Hunt*, Stuart Willis, Kevin Conway, David Portnoy</b></p> <p>Phylogenomics of pufferfish in the genus <i>Sphoeroides</i> (Tetraodontiformes, Tetraodontidae)</p>		
<b>1:45 PM</b>	<b>188</b>	<p><b>William Ludt*, Moises Bernal, Erica Kenworthy, Eva Salas, Prosanta Chakrabarty</b></p> <p>Investigating species limits of surgeonfishes in the Eastern Pacific (Acanthuridae: Prionurus)</p>		
<b>2:00 PM</b>	<b>287</b>	<p style="text-align: center;"><b>Matthew Girard*</b></p> <p>Untangling threadfins: Relationships of Polynemidae using a total evidence approach</p>		
<b>2:15 PM</b>	<b>375</b>	<p><b>Elyse Parker*, Alex Dornburg, Daniel J. MacGuigan, Edgar Benavides, Thomas J. Near</b></p> <p>Phylogenomic species delimitation and the reduction of species diversity in Antarctic Plunderfishes (Notothenioidei: Artedidraconidae)</p>		
<b>2:30 PM</b>	<b>556</b>	<p><b>Tyler McCraney*, Michael Alfaro, Janet Buckner, Brant Faircloth, Christine Thacker</b></p> <p>Phylogenomic Systematics of Gobiiformes: Small Fishes Show Some Backbone</p>		
<b>2:45 PM</b>	<b>248</b>	<p><b>Elizabeth Miller*, Kenji Hayashi, Dongyuan Song, John Wiens</b></p> <p>Explaining the Ocean's Dominant Species Richness Gradient and Global Patterns of Marine Fish Diversity</p>		
<b>3:00 PM</b>		<b>BREAK - Empire Hall South</b>		
<b>SESSION/ SYMPOSIUM</b>		<b>ASIH Stoye General Ichthyology II</b>		
<b>MODERATOR</b>		<b>Frank McCormick</b>		
<b>3:30 PM</b>	<b>452</b>	<p><b>Bruno Melo*, Melanie Stiassny, Jairo Arroyave, Fábio Roxo, Ricardo Benine, Luz Ochoa, Brian Sidlauskas, Brant Faircloth, Michael Alfaro, Claudio Oliveira</b></p> <p>Phylogenomics and the Timing of Diversification in Characiformes (Teleostei, Ostariophysi)</p>		
<b>3:45 PM</b>	<b>277</b>	<p><b>Daemin Kim*, Bruce Bauer, Thomas Near</b></p> <p>Species Delimitation and Phylogeography of the Longear Sunfish, <i>Lepomis megalotis</i> (Centrarchidae)</p>		
<b>4:00 PM</b>	<b>174</b>	<p><b>Daniel MacGuigan*, Thomas Near</b></p> <p>Genomic Data Clarify the Evolutionary History of Two Widespread Species of Darter, <i>Etheostoma nigrum</i> and <i>E. olmstedii</i></p>		
<b>4:15 PM</b>	<b>189</b>	<p style="text-align: center;"><b>Rene Martin*</b></p> <p>The Role of Phylogeny in the Evolution of Body Shape of Lanternfishes (Myctophiformes)</p>		
<b>4:30 PM</b>	<b>198</b>	<p><b>Anna Gruskiewicz*, Kyle Piller</b></p> <p>Analysis of Body Size Evolution and Diversification Rates in the Family Poeciliidae (Cyprinodontiformes)</p>		
<b>4:45 PM</b>	<b>331</b>	<p><b>Diego J. Elias*, Prosanta Chakrabarty</b></p> <p>Comparative Phylogeography of Freshwater Fishes in Northern Central America.</p>		

\* denotes presenter

# Oral Presentations - Friday, 13 July - Morning

	<i>Highland Rooms A</i>		<i>Highland Rooms B</i>	ROOM
				SESSION/ SYMPOSIUM
				MODERATOR
				8:00 AM
				8:15 AM
				8:30 AM
				8:45 AM
				9:00 AM
				9:15 AM
<b>BREAK - Empire Hall South</b>				<b>9:30 AM</b>
	<b>HL Grad Research/SSAR Seibert Ecology I</b>		<b>SSAR Seibert Systematics &amp; Evolution I</b>	SESSION/ SYMPOSIUM
	<b>Nicole Angeli</b>		<b>Ryan McCleary</b>	MODERATOR
107	<b>HGR - Sean Wineland*, Shane Welch, Thomas Pauley, Jeff Holmes, Joseph Apodaca, Jayme Waldron</b>  Multi-scale Drivers of Eastern Hellbender ( <i>Cryptobranchus alleganiensis alleganiensis</i> ) Extirpation Assessed Using Environmental DNA and Occupancy Modeling			10:00 AM
31	<b>HGR - Jessica Tingle*, Brian Sherman, Timothy Higham</b>  Scaling of Morphology and Locomotion in the Sidewinder Rattlesnake, <i>Crotalus cerastes</i>			10:15 AM
27	<b>HGR - Max Lambert*</b>  Sex reversal is widespread in wild green frogs			10:30 AM
538	<b>SSE - Andrew MacLaren*, Paul Crump, Andy Royle, Michael Forstner</b>  Observer free experimental evaluation of habitat and distance effects on the detection of anuran and bird vocalizations	171	<b>A.Z. Andis*, David Skelly</b>  Rapid, microgeographic divergence in a vernal pool amphibian metapopulation	10:45 AM
219	<b>SSE - Cassandra Thompson*, Viorel Popescu</b>  Withering Waters & Teetering Temperatures: How one frog copes with Pool Permanency	454	<b>Thomas Marshall*, Thomas Jenkinson, David Rodriguez</b>  Population Genomics of Amphibian Chytrids in Texas: Understanding Pathogen Dynamics in Understudied Regions	11:00 AM
276	<b>SSE - Xochitl Ortiz Ross*, Michelle E. Thompson, Maureen A. Donnelly</b>  Oviposition Site Selection in Three Glass Frog Species	208	<b>Daniel Paluh*, Edward Stanley, David Blackburn</b>  Convergent Evolution and Function of Hyperossification in Frogs	11:15 AM
583	<b>SSE - Joe-Felix Bienentreu*, Samantha Grant, Danna M. Schock, Christopher Kyle, Craig Brunetti, David Lesbarrères</b>  Epidemiology and Identity of Ranaviruses in a Low-Diversity Northern Ecosystem	508	<b>Claire Tracy*, Kin Onn Chan, Rafe Brown</b>  Phylogenetics and Morphometrics of Philippine Tree-hole Frogs of the Genus <i>Kaloula</i>	11:30 AM
617	<b>SSE - Brandon LaBumbard*, Molly Bletz, Kelly Barnhart, Douglas Woodhams</b>  Community Structure and Function of Amphibian Microbiomes Relating to Pathogen Defense	381	<b>Connor French*, Jason Brown</b>  Phylogeography of a Recently Diverged Poison Frog Species Group (Genus: <i>Ameerega</i> )	11:45 AM
<b>LUNCH ON YOUR OWN</b>				<b>12:00 PM</b>

\* denotes presenter      HGR = HL Grad Research      SSE = SSAR Seibert Ecology I

# Oral Presentations - Friday, 13 July - Morning

ROOM		<i>Highland Rooms C</i>		<i>Highland Rooms D</i>
SESSION/ SYMPOSIUM		<b>ASIH Stoye Genetics, Development, &amp; Morphology II</b>		
MODERATOR		<b>Mary White</b>		
8:00 AM				
8:15 AM	182	<b>Gayani Senevirathne*, Neil Shubin</b> Ontogeny of the urostyle, a structural innovation in frogs		
8:30 AM	602	<b>Kole Kubicek*, Ralf Britz, Kevin Conway</b> Developmental Osteology of the Channel Catfish, <i>Ictalurus punctatus</i> (Teleostei:Ictaluridae)		
8:45 AM	366	<b>Katherine Bemis*, Eric Hilton</b> Tooth morphology, development, and replacement in the Longnose Lancelfish, <i>Alepisaurus ferox</i> (Aulopiformes: Alepisauridae)		
9:00 AM	349	<b>Pedro Rizzato*, Flávio Bockmann, Eric Hilton</b> Development of bones associated with lateral-line canals in <i>Acipenser fulvescens</i> and <i>Polyodon spathula</i> (Actinopterygii: Chondrostei: Acipenseriformes)		
9:15 AM	626	<b>Danielle Wasserman*</b> The practicality of using vertebra number to gauge hyoid position in anguimorph lizards		
9:30 AM		<b>BREAK - Empire Hall South</b>		
SESSION/ SYMPOSIUM		<b>ASIH Stoye Genetics, Development, &amp; Morphology III</b>		<b>ASIH Stoye Conservation</b>
MODERATOR		<b>Robert Denton</b>		<b>Tristan Stayton</b>
10:00 AM	611	<b>Erin Toffelmier*, Adam Clause, H. Bradley Shaffer</b> Landscape Genetics and Connectivity in the Panamint Alligator Lizard, <i>Elgaria panamintina</i>	282	<b>Joseph Cutler*, Brian Sidlauskas, Hans Mipounga, Jean Herve Mve Beh</b> Dam, Dam, Dam - Balancing Fish Biodiversity and Hydroelectric Development in Gabon
10:15 AM	15	<b>Luiz Jardim de Queiroz*, Juan Montoya-Burgos</b> Origin of the Remarkable Genetic Diversification in the Widespread Amazonian Fish <i>Tripottheus albus</i>	403	<b>Jason Selwyn*, John Johnson, Alan Downey-Wall, Adam Bynum, Rebecca Hamner, J. Derek Hogan, Christopher Bird</b> Veni Vidi Vici: How Many Lionfish Came to Conquer the Atlantic
10:30 AM	635	<b>Peter Cerda*, Thomas F. Duda, Jr., Alison Davis Rabosky</b> Venom Expression Profiles of Rear-Fanged Snakes from Peru	519	<b>Sam Chin*, John Waldman, Elizabeth Alter</b> Surveying Fish Community Composition of the Hudson and Bronx River Systems Using Environmental DNA
10:45 AM	364	<b>Nicole Fusco*, Ellen Pehek, Jason Munshi-South</b> Genetic Connectivity of Stream Salamander Populations within Stream Systems in the New York City Metropolitan Area	16	<b>Marlon E. Cobos*, Roberto Alonso Bosch</b> Multiscale Analyses Reveal Importance of Breeding Sites for a Critical Endangered Cuban Toad's Conservation in the Face of Global Change
11:00 AM	431	<b>Kevin P Mulder*, André Lourenço, Rayna C. Bell, Ivan Gomez-Mestre, Guillermo Velo-Antón</b> RNAseq analyses across two independent transitions within <i>Salamandra salamandra</i> highlight candidate genes important in the shift from larviparity to viviparity	100	<b>Nicholas A. Huron*, S. Blair Hedges, Matthew R. Helmus</b> Extinctions Point to Different Levels of Morphological and Functional Role Diversity Loss in a Genus of Island Lizards
11:15 AM			251	<b>Jeffrey Bartman*, Katherine Greenwals</b> Population Genetics of Common Natricine Snakes Along an Urban-Rural Gradient in Southeast Michigan
11:30 AM			562	<b>Robert D. Cooper*, H. Bradley Shaffer</b> The Effect of Pond Hydroperiod and Larval Density on Hybrid Tiger Salamander Success
11:45 AM				
12:00 PM		<b>LUNCH ON YOUR OWN</b>		

\* denotes presenter



# Oral Presentations - Friday, 13 July - Morning

	<i>Highland Rooms EF</i>		<i>Grand Lilac Ballroom North</i>	ROOM
	<b>ASIH Stoye General Ichthyology III</b>			<b>SESSION/ SYMPOSIUM</b>
	<b>Jonathan Armbruster</b>			<b>MODERATOR</b>
72	<b>Joel Corush*, Jen-Chieh Shiao, Todd Pierson, Jie Zhang, Benjamin Fitzpatrick</b>  The effects of an amphibious life history on the population structure of a mudskipper ( <i>Periophthalmus modestus</i> ) in East Asia.			8:00 AM
573	<b>David Camak*, Thomas Turner</b>  An Annotated SNP Assay for Assessment of Genetic Diversity in Gila Trout			8:15 AM
76	<b>Daniel Akin*, Aaron Geheber</b>  Minnows be Dammed: Rapid Morphological Change Induced by Alteration of Stream Flow			8:30 AM
398	<b>Paul D'Ortona*, Scott McRobert</b>  The Effect of Sex and Shoal Size on Shoaling Behavior in <i>Poecilia reticulata</i>			8:45 AM
101	<b>Randy Singer*, Shari Ellis, Lawrence Page</b>  Fishy Feud: What the Survey Says About How Fish Biologists Interact with Biological Collections			9:00 AM
505 <small>isn't a student competing in Stoye Award</small>	<b>Donald Stewart*, Juliette Pouzadoux, Christelle Tougard</b>  Phylogeography of <i>Arapaima</i> spp. (Osteoglossidae) Based on Complete Mitogenomes and Morphological Divergences, Including Type Specimens for Three Nominal Species			9:15 AM
<b>BREAK - Empire Hall South</b>				9:30 AM
	<b>ASIH Stoye General Ichthyology IV/NIA Best Student Paper</b>		<b>Amphibian Ecology I</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>Matthew White</b>		<b>Thomas Anderson</b>	<b>MODERATOR</b>
213	<b>ASGI - Brandon Waltz*, Fernando Alda, Maxwell Bernt, Prasanna Chhabra, James Albert</b>  Addressing the challenges of biodiversity IUCN Red List cryptic speciation in the neotropical electric fish <i>Eigenmannia macrops</i>		<b>Crystal Keene*, Kristin Altstatt*, Mark T. Reardon*</b>  Testing the Enemy Release Hypothesis: The Global Spread of Cane Toads as an Accidental Experiment.	10:00 AM
439	<b>ASGI - Maxwell Bernt*, Victor Tagliacollo, Aaron Fronk, James Albert</b>  Diversification of the Ghost Knifefishes (Gymnotiformes: Apterontidae)			10:15 AM
584	<b>ASGI - Francesco Janzen*, William Crampton, Mark Sabaj-Pérez, Javier Maldonado-Ocampo, Nathan Lovejoy</b>  Molecular Phylogeny of the Weakly-electric Knifefishes of Central and South America (Gymnotiformes, Actinopterygii)	60	<b>Hilary B. Rollins*, Michael F. Benard</b>  Does shifting phenology early in ontogeny affect growth and development in subsequent stages?	10:30 AM
54	<b>ASGI - Thomas Morgan*, Stuart Willis, Izeni Farias, Raphael Covain, Jan Mol, David Portnoy, Hernán López-Fernández</b>  The Biogeography and Phylogenomics of <i>Geophagus</i> (Subfamily: Cichlinae) in the Guiana Shield.	530	<b>Megan Napoli*</b>  Amphibian Phenological Shifts in Southeastern NY: Understanding the Local Effects of Climate Change through Analysis of a Unique Long-term Dataset	10:45 AM
434	<b>NBSP - Viviana Astudillo-Clavijo*, Tobias Mankis, Hernán López-Fernández</b>  Field Records in Museum Collections Support Habitat as an Ecological Dimension of Diversification in the Adaptive Radiation of <i>Geophagini</i> Cichlids	314	<b>Nicholas Caruso*, Christina Staudhammer, Leslie Rissler</b>  Effect of climate-driven demographic variation on population growth in <i>Plethodon montanus</i> along an elevational gradient	11:00 AM
223	<b>NBSP - Holden Paz*, Malorie Hayes, Jonathan Armbruster</b>  Phylogenetic Placement of a New Species of <i>Trichomycterus</i> from the Pakaraima Mountains in Guyana	645	<b>Rudolf von May*, Daniel Rabosky</b>  Phylogenetic Community Structure of Amazonian Amphibian Assemblages	11:15 AM
		601	<b>Gerardo Carfagno*</b>  Microhabitat Use by an Urban Salamander Population	11:30 AM
360	<b>NBSP - João Pedro Revilla*, Federico Rizzio, Flávio Backmann</b>  Muscle skeletal anatomy of the <i>Gobioides</i> subgenus <i>Gobioides</i> (Lichtenstein, 1822) (Gobiiformes: Gobiidae).	122	<b>Thomas Anderson*, Brittany Ousterhout, Freya Rowland, Jacob Burkart, Dana Drake, William Peterman</b>  Direct effects influence larval salamander size more than indirect effects	11:45 AM
<b>LUNCH ON YOUR OWN</b>				12:00 PM

\* denotes presenter

ASGI = ASIH Stoye General Ichthyology IV

NBSP = NIA Best Student Paper

# Oral Presentations - Friday, 13 July - Morning

ROOM		<i>Grand Lilac Ballroom South</i>		
SESSION/ SYMPOSIUM		Herpetology Conservation I		
MODERATOR		Nancy Karraker		
8:00 AM	178	<b>Nancy Karraker*</b> , Mirza Kusrini, Ryan Healey, Jessica Atutubo Population Demography of Southeast Asian Box Turtles ( <i>Cuora amboinensis</i> ) in Protected and Disturbed Habitats in Indonesia		
8:15 AM	414	<b>Scott Trageser*</b> , Shahriar Caesar Rahman, Stephen Spear Human-Python Conflicts: A Radio Telemetry Study of Burmese Pythons ( <i>Python bivittatus</i> ) in Bangladesh		
8:30 AM	86	<b>Anne Yagi*</b> , Glenn Tattersall Managing an Ecological Trap on an Endangered Species <i>Massasauga</i> ( <i>Sistrurus catenatus</i> ) by Using Forced Hibernation		
8:45 AM	209	<b>Steven Whitfield*</b> , Frank Ridgley, Nicole Atteberry, Daniel Valle, Adrian Figueroa, Johnny Iglesias, Brianna Chin Ecology and Conservation of Gopher Tortoises in Pine Rocklands Habitat in Miami, Florida		
9:00 AM	309	<b>Maria Roe*</b> , Jose Anadon, Russell Burke Estimates of Adult Survival for Female Diamondback Terrapins in Adjacent Jamaica Bay Populations		
9:15 AM	283	<b>Thomas Duchak*</b> , Russell Burke Nesting Site Alterations Facilitate Successful Nesting Attempts in Wood Turtles, <i>Glyptemys insculpta</i>		
9:30 AM		<b>BREAK - Empire Hall South</b>		
SESSION/ SYMPOSIUM				
MODERATOR				
10:00 AM				
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12:00 PM		<b>LUNCH ON YOUR OWN</b>		

\* denotes presenter

# Oral Presentations - Friday, 13 July - Afternoon

	<i>Highland Rooms A</i>		<i>Highland Rooms B</i>	ROOM
	SSAR Seibert Ecology II		SSAR Seibert Systematics & Evolution II	SESSION/ SYMPOSIUM
	Russell Burke		Richard Glor	MODERATOR
467	<p><b>Joseph DeMarchi*</b>, Carl Anthony, Cari-Ann Hickerson, Matthew Venesky</p> <p>The effects of temperature on Batrachochytrium dendrobatidis resistance and heart rate in unstriped and striped Eastern Red backed Salamanders, Plethodon cinereus</p>	234	<p><b>Maggie Hantak*</b>, Robert Page, Paul Converse, Carl Anthony, Shawn Kuchta</p> <p>The Relationship Between the Genetic Structure, Landscape Ecology, and Color Polymorphism in the Eastern Red-backed Salamander (Plethodon cinereus)</p>	1:30 PM
90	<p><b>Teah Evers*</b>, Jennifer Deitloff</p> <p>Assessment of the Density, Spatial Distribution and Movement Patterns of Plethodon cinereus (Eastern Red-backed Salamander) Using Spatial Capture-Recapture</p>	87	<p><b>Todd Pierson*</b>, Benjamin Fitzpatrick, Kenneth Kozak, Carlos Camp</p> <p>Historic hybridization and modern reproductive isolation in the two-lined salamander (Eurycea bislineata) species complex</p>	1:45 PM
53	<p><b>Joseph Baecher*</b>, Stephen Richter</p> <p>Environmental gradients in old-growth Appalachian forest predict fine-scale distribution, co-occurrence, and abundance of woodland salamanders</p>	66	<p><b>Brendan Pinto*</b>, Juan Daza, James Titus-McQuillan, Tony Gamble</p> <p>The rapid evolution of post-zygotic isolating barriers and identification of the first stable hybrid zone in geckos</p>	2:00 PM
247	<p><b>Joshua Mead*</b>, William Stark</p> <p>Spatial Ecology of the Western Massasauga (Sistrurus tergeminus) in a Large Interior Wetland</p>	55	<p><b>Matthew Murdoch*</b>, Lee Grismer, Perry Wood, Neang Thy, Nikolay Poyarkov, Ngo Van Tri, Roman Nazarov, Anchalee Aowphol, Olivier Pauwels, Jesse Grismer</p> <p>Six new species of Cyrtodactylus Gray (Squamata: Gekkonidae) intermedius complex from the Cardamom Mountains and associated highlands of Southeast Asia.</p>	2:15 PM
44	<p><b>Mark Sandfoss*</b>, Harvey Lillywhite</p> <p>Water relations of an insular population of pit viper in Florida.</p>	148	<p><b>Hayden Davis*</b>, Aaron Bauer, Todd Jackman</p> <p>Examining the Bornean Cyrtodactylus Radiation and the Karst dwelling Morphology</p>	2:30 PM
533	<p><b>Rachel Alenius*</b>, Dean Williams</p> <p>Can Specialists Generalize? Diets of Texas Horned Lizards (Phrynosoma cornutum) in Small Texas Towns.</p>	553	<p><b>Javier Torres*</b></p> <p>Possible hybridization among Cuban Trunk-Ground anoles (Anolis, Dactyloidae) evidenced by testicular anomalies</p>	2:45 PM
395	<p><b>Shashwat Sirsi*</b>, Andrew R. MacLaren, Daniel H. Foley III, Michael R.J. Forstner</p> <p>Determining Population Size and Home Range of Rio Grande Cooters (Pseudemys gorzugi) for the Devils River in Texas</p>	409	<p><b>Brett Butler*</b>, Aaron Bauer, Todd Jackman</p> <p>Evaluating Phylogeographic Barriers in Southwest African Skinks</p>	3:00 PM
150	<p><b>Steven Kell*</b>, Ronald J. Brooks, Jacqueline Litzgus</p> <p>Nesting in Close Quarters: Causes and Benefits of High Density Nesting in Painted Turtles</p>	604	<p><b>Jeffrey Weinell*</b>, Daniel Paluh, Rafe Brown</p> <p>Morphological specialization and molecular phylogenetic history of the Philippine-endemic snake subfamily Cyclocorinae</p>	3:15 PM
		459	<p><b>Matthew Buehler*</b>, Todd Jackman, Jamie Oaks, Stacie Hathaway, Robert Fisher, Aaron Bauer</p> <p>Patterns of Diversity and the Evolutionary Relationships of Sea Kraits (Laticauda)</p>	3:30 PM
199	<p><b>Saidee Hyder*</b>, Jon Davenport, Josh Ennen</p> <p>Preliminary assessment of movement ecology in a West Tennessee population of Alligator Snapping Turtles (Macrochelys temminckii)</p>	595	<p><b>Sean Mchugh*</b>, Kelly Zamudio</p> <p>Evolution of Body Size and Sexual Size Dimorphism in Tortoises</p>	3:45 PM
	<b>POSTER SESSION I - Empire Hall South</b>			4:00 PM
				5:00 PM
				6:00 PM

\* denotes presenter

# Oral Presentations - Friday, 13 July - Afternoon

ROOM		<i>Highland Rooms C</i>		<i>Highland Rooms D</i>
SESSION/ SYMPOSIUM		ASIH Stoye General Herpetology		ASIH Stoye Physiology & Physiological Ecology
MODERATOR		Catherine Bevier		Lorin Neuman-Lee
1:30 PM			185	David Ensminger*, Tracy Langkilde, Dustin Owen, Kirsty MacLeod, Michael Sheriff Effects of Maternal Stress on Egg Allocation and Offspring Physiology in a Free Living Lizard
1:45 PM	502	Ariana Rupp*, Brad Moon Prey Handling and Feeding Mechanisms in Mud Snakes (Farancia abacura)	433	Andrea Racic*, Catherine Tylan, Tracy Langkilde Temperature Effects on Corticosterone in the Eastern Fence Lizard, Sceloporus undulatus
2:00 PM	268	Alexandra Sumarli*, Tod Reeder Phylogeography of the Plateau Striped Whiptail (Aspidoscelis velox): A Spatial Diffusion and Ecological Niche Modeling Approach	432	Catherine Tylan*, Tracy Langkilde Local and Systemic Immune Responses to Different Types of Phytohemagglutinin in the Green Anole: Lessons for Field Ecoimmunologists
2:15 PM	610	Ethan Kessler*, John Crawford, Andrew Kuhns, Christopher Phillips Local and Landscape Drivers of Amphibian Community Composition across Illinois	47	Allison Litmer*, Christopher Murray Neutrophil:Lymphocyte Ratios As A Measure Of Chronic Stress In Populations Of The Hellbender (Cryptobranchus alleganiensis) Across A Habitat Quality Gradient
2:30 PM	39	Anat Belasen*, Tim James Host genetics and ecological interactions structure amphibian skin microbiome diversity	302	Holly R. Rucker*, M. Rockwell Parker Decrypting female mimicry in red-sided garter snakes
2:45 PM	330	Carl Hutter*, Rafe Brown A new and freely available exome sequence capture probe set of 10,000 loci for all frogs	315	Michael Britton*, Maureen Donnelly Metabolic ecology of amphibians across a 5,000 meter elevational gradient in the Peruvian Andes
3:00 PM	581	Neha Savant*, Matthew Palmer Genomic Structure & Connectivity of the threatened Long-tail Salamander (Eurycea longicauda) Across Ponds and Streams	582	Allison Julien*, Andrew Kouba, Scott Willard, Carrie Vance Efficacy of Administering Luteinizing Hormone Releasing Hormone Analog (LHRHa) Nasally to Elicit Sperm Production in Fowler's Toads (Anaxyrus fowleri)
3:15 PM				
3:30 PM				
3:45 PM				
4:00 PM		POSTER SESSION I - Empire Hall South		
5:00 PM				
6:00 PM				

\* denotes presenter

# Oral Presentations - Friday, 13 July - Afternoon

	<i>Highland Rooms E</i>		<i>Grand Lilac Ballroom North</i>	ROOM
	Ichthyology Genetics, Reproduction, and Development		<b>CHS: Effects of Climate Change Symposium</b>	SESSION/ SYMPOSIUM
	Trevor Krabbenhoft		Jackie Litzgus	MODERATOR
489	<p><b>Amanda Barker*</b>, Bryan Frazier, Douglas Adams, David Portnoy</p> <p>Hybridization Between a Cryptic Species Pair, <i>Sphyrna lewini</i> and <i>S. gilberti</i>, in the western North Atlantic</p>	65	<p><b>Deanna Olson*</b>, Meryl Mims, Carmen Harjoe, Gisselle Xie, Andrew Blaustein, David Pilliod, Jason Dunham</p> <p>Climate Niches and High-latitude Herpetofauna Risk: Multi-taxa Climate Sensitivity Modeling</p>	1:30 PM
370	<p style="text-align: center;"><b>Milton Tan*</b>, Al Dove, Timothy Read</p> <p>Comparative Genomics of the Whale Shark and the Evolution of Vertebrate Gigantism</p>	65	<p><b>Deanna Olson*</b>, Meryl Mims, Carmen Harjoe, Gisselle Xie, Andrew Blaustein, David Pilliod, Jason Dunham</p> <p>Climate Niches and High-latitude Herpetofauna Risk: Multi-taxa Climate Sensitivity Modeling</p>	1:45 PM
361	<p style="text-align: center;"><b>Trevor Krabbenhoft*</b>, Thomas Dowling</p> <p>Sex Determination in an Allotetraploid Fish (Cypriniformes: Catostomidae): On the Importance of Understanding Genetic and Epigenetic variation in Captive Breeding Programs</p>	125	<p><b>Leslie Anthony Lowcock*</b>, Purnima Govindarajulu</p> <p>Potential climate change effects on introduced and invasive herpetofauna in Canada: a review.</p>	2:00 PM
407	<p><b>Megan Osborne*</b>, Alyssa Sanchez, Thomas Dowling, Thomas Turner</p> <p>Gender equality: large variance in reproductive success is driven by environmental factors not mating system in Bonytail.</p>	99	<p style="text-align: center;"><b>Joe Crowley*</b></p> <p>Increasing the Resilience of Northern Populations: Protection and Recovery of Ontario's Herpetofauna</p>	2:15 PM
597	<p><b>Abby Wicks*</b>, Trevor Krabbenhoft, Thomas Dowling</p> <p>Variation in gene expression of round goby and Johnny darter in two Southeastern Michigan streams</p>	599	<p style="text-align: center;"><b>Stephen Lougheed*</b></p> <p>Using the Past to Explore the Future. Lessons from Landscape Genetics and Phylogeography of North America Herpetofauna</p>	2:30 PM
591	<p><b>Natalia Bayona-Vásquez*</b>, Travis Glenn, Manuel Uribe-Alcocer, Píndaro Díaz-Jaimes</p> <p>Population Genomics and Phylogeography of the Cosmopolitan Marine Pelagic Fish, Mahi-Mahi (<i>Coryphaena hippurus</i>)</p>	411	<p style="text-align: center;"><b>Jennifer Neuwald*</b>, Nicole Valenzuela</p> <p>Increasing Thermal Variance due to Climate Change Alters the Sexual Development of Temperature-Dependent Sex Determined Turtles</p>	2:45 PM
204	<p><b>Kendall Johnson*</b>, Chenhong Li, Luke Tornabene, Frank Pezold</p> <p>Finding Evolutionary Links and Genes in Adaptive Radiations of Reef Gobies (Gobiidae) by Targeted Gene Capture</p>	42	<p><b>Njal Rollinson*</b>, Melanie Massey, Jacqueline Litzgus, Ronald Brooks</p> <p>Rapid Warming has Increased Growth, Development Rate, and Survival in Populations of Freshwater Turtles Near Their Northern Range Limit</p>	3:00 PM
215	<p><b>R. Nicolas Lou*</b>, Aryn Wilder, Nina Therkildsen</p> <p>Characterizing the Genomic Basis of Local Adaptation in the Atlantic Silverside (<i>Menidia menidia</i>)</p>	6	<p style="text-align: center;"><b>David Green*</b></p> <p>Cold Comfort: Amphibians in winter.</p>	3:15 PM
14	<p><b>Emily Funk*</b>, Amy McCune</p> <p>Gene expression patterns underlying gas bladder evolution in ray-finned fishes</p>	41	<p style="text-align: center;"><b>Barry Sinervo*</b>, Donald Miles</p> <p>Range expansion of North American herpetofauna all the way to the Canadian Arctic and Extinctions in the US and Mexico</p>	3:30 PM
444	<p style="text-align: center;"><b>Atsushi Ishimatsu</b>, Van Hieu, Karen Martin*</p> <p>Patterns of Fish Reproduction at the Air-Water Interface</p>	41	<p style="text-align: center;"><b>Barry Sinervo*</b>, Donald Miles</p> <p>Range expansion of North American herpetofauna all the way to the Canadian Arctic and Extinctions in the US and Mexico</p>	3:45 PM
	<b>POSTER SESSION I - Empire Hall South</b>			4:00 PM
				5:00 PM
				6:00 PM

\* denotes presenter

# Oral Presentations - Friday, 13 July - Afternoon

ROOM		<i>Grand Lilac Ballroom South</i>		
SESSION/ SYMPOSIUM		Herpetology Behavior		
MODERATOR		Brad Carlson		
1:30 PM	627	Richard C. Vogt*, Camila Ferrara  Vocalizations in Seaturtles		
1:45 PM	64	Brad Carlson*, A.J. Belden, Joseph Pich, Sasha Tetzlaff  Box Turtle Boldness is a Consistent Personality Trait Across Years, Age Classes, and Assay Conditions		
2:00 PM	103	Mark Paulissen*  Does the Little Brown Skink, <i>Scincella lateralis</i> , Use Positional Cues for Spatial Learning?		
2:15 PM	133	Troy Baird*, Teresa Baird, Richard Shine  I Can See You Now: Influence of Vegetative Cover on the Social Dynamicsof Male Eastern Australian Water Dragons		
2:30 PM	297	Shannon A. Richard*, Eric A. Tillman, Michael L. Avery, M. Rockwell Parker  Scent trailing behavior in male Burmese pythons		
2:45 PM	280	Christopher Howey*, Erika Snyder  Substrate type affects scent-trailing behavior of timber rattlesnakes		
3:00 PM	642	Alison Davis Rabosky*, Talia Moore, Erin Westeen, Joanna Larson, Ciara Sanchez Paredes  Convergence or Divergence? 3-D Quantification and Characterization of Snake Anti-predator Behavior in the Peruvian Amazon		
3:15 PM	46	Jennifer Deitloff*, H. Nate Rainey, Samantha P. Wesnak, Jacob Fetterman, Kelsey Young, Todd Pierson  Intraspecific Variation in Mate-Guarding Behavior Is Correlated with Morphology in Males of <i>Eurycea wilderae</i>		
3:30 PM	161	Amaël Borzée*, Yikweon Jang  Segregated Evolutionary History Revealed by Brumation and Hibernation Habitat Selection of Two Closely Related Treefrog Species		
3:45 PM	621	James Erdmann*  Aggressive anglers, seductive serpents, and titillating toads: A discussion of luring and prey manipulation strategies		
4:00 PM		POSTER SESSION I - Empire Hall South		
5:00 PM				
6:00 PM				

\* denotes presenter

# Oral Presentations - Saturday, 14 July - Morning

Highland Rooms A		Highland Rooms B		ROOM
		Herpetology Biogeography I		SESSION/ SYMPOSIUM
		Matthew Heinicke		MODERATOR
		468	<b>Matthew Heinicke*, Luis Ceriaco, David Blackburn, Aaron Bauer</b> Evaluating Evidence for the Arid Corridor Hypothesis in Angola's Herpetofauna	8:00 AM
		654	<b>Jason Brown*, Ana Carnaval</b> A tale of two niches: concepts, methods, and quantifying evolution	8:15 AM
		531	<b>Marcelo Gehara*, Frank Burbrink</b> Comparative Historical Demography of Amphibians and Reptiles from Northeastern Brazil	8:30 AM
		74	<b>Cherie Mosher*, Brent Murray, Chris Johnson, Stephen Spear</b> The Curious Case of the Coastal Tailed Frog: A Phylogeographic Study Using Multiple Methods	8:45 AM
		341	<b>Madhava Meegaskumbura*, Gayani Senevirathne, Kelum Manamedra-Arachchi, Rohan Pethiyagoda, James Hanken, Christopher J. Schneider</b> Diversification of terrestrial direct-developing frogs across mountains on an island: radiation of Pseudophilautus (Anura, Rhacophoridae) on Sri Lanka	9:00 AM
		239	<b>Brian Waldron*, Shawn Kuchta, Maggie Hantak, Cari Hickerson, Carl Anthony</b> Genetic Analysis of Distinct Clades of the Red-backed Salamander ( <i>Plethodon cinereus</i> ) at a Northeast Ohio Contact Zone	9:15 AM
<b>BREAK - Empire Hall South</b>				9:30 AM
Herpetology Habitat & Environment		Herpetology Biogeography II		SESSION/ SYMPOSIUM
Tracy Langkilde		Paul Hime		MODERATOR
353	<b>Tracy Langkilde*, Thomas Adams, Julian Avery, Robin Warne</b>  Effects of anthropogenic noise on wood frog tadpoles	464	<b>Paul Hime*, Shem Unger, Steven Price, Jeffrey Briggler, Lori Williams, Michael Freake, Andrea Drayer, Amy McMillan, Mary Foley, Emily McCallen, Dale McGinnity, John Groves, Emily Lemmon, Songlin Fei, Rod Williams, David Weisrock</b> What the Hellbender?! Genomic Perspectives on the Evolutionary History of Cryptobranchus.	10:00 AM
410	<b>Annette Evans*, Elizabeth Jockusch, Mark C. Urban, Brenna Forester, Caitlin Fisher-Reid, Bradley Cosentino</b> Does Land Use Buffer Evolutionary Responses To Climate Change By A Polymorphic Salamander?	637	<b>Lexandra Murray*, Herman Mays</b> Population genetics of the Green Salamander, <i>Pseudis colorata</i> .	10:15 AM
545	<b>Nelson Rivera*, Brian Folt</b>  Community assembly of glass frogs (Centrolenidae) in a Neotropical wet forest: a test of the river zonation hypothesis	494	<b>Jackie Childers*, Sebastian Kirchhof, Aaron Bauer</b> Phylogeography and Systematics of the Namaqua Sand Lizard <i>Pedioplanis namaquensis</i> and the Specific Recognition of a Long-Synonymised Taxon from Namibia	10:30 AM
242	<b>Devin DiGiacopo*, George Meindl, Kirsten Prior, Jessica Hua</b> Invasive-Invasive Facilitation Across Ecosystems Enhanced by a Common Anthropogenic Contaminant	483	<b>Elyse Freitas*, Aniruddha Datta-Roy, Praveen Karanth, Cameron Siler</b> Historical Biogeography and Cryptic Diversity of Lygosomine Skinks in the Old-World Tropics	10:45 AM
657	<b>René Bolom-Huet*, Eduardo Pineda, Jorge Galindo-González, Antonio Muñoz-Alonso, Francisco Díaz-Fleischer</b> New infection risk areas of the pathogenic fungus of amphibians <i>Batrachochytrium dendrobatidis</i> in Mexico.	565	<b>Zachary Nikolakis*, Brian Crother</b> Phylogenomics of the Eastern Pinesnake Complex ( <i>Pituophis melanoleucus</i> )	11:00 AM
322	<b>Jessica Pita-Aquino*, Christopher Thawley, Noah Gilbert, Jason Kolbe</b> The Effect of Substrate Diameter and Limb Morphology on Locomotor Performance in Brown Anoles ( <i>Anolis sagrei</i> )	81	<b>R. Graham Reynolds*, Alberto Puente-Rolon</b>  Ecology and Evolution of Boas in the West Indies	11:15 AM
522	<b>Danielle Walkup*, Wade Ryberg, Toby Hibbitts, Lee Fitzgerald</b>  Microhabitat variables drive within breeding season colonization/extinction dynamics in a specialist lizard.	608	<b>Dillon Monroe*, Robert Espinoza</b> A Comparison of Traditional and Citizen-Science Approaches to Inferring the Distribution of an Invasive House Gecko ( <i>Hemidactylus turcicus</i> ) in Texas	11:30 AM
323	<b>Sierra Smith*, Elyse Fritas, Jessa Watters, Cameron Siler</b> Comparison of Infectious Disease Presence between Thailand and Philippine Populations	139	<b>Donald Shepard*, Ryan Philobos, Cameron Robicheaux, Pedro Simoncini</b> Phylogeography and Cryptic Diversity of Slimy Salamanders ( <i>Plethodon glutinosus</i> complex) in the Interior Highlands	11:45 AM
<b>LUNCH ON YOUR OWN</b>				12:00 PM

\* denotes presenter

# Oral Presentations - Saturday, 14 July - Morning

ROOM		<i>Highland Rooms C</i>		<i>Highland Rooms D</i>
SESSION/ SYMPOSIUM				
MODERATOR				
8:00 AM				
8:15 AM				
8:30 AM				
8:45 AM				
9:00 AM				
9:15 AM				
9:30 AM		<b>BREAK - Empire Hall South</b>		
SESSION/ SYMPOSIUM		<b>Herpetology Physiology</b>		
MODERATOR		<b>Craig Lind</b>		
10:00 AM	615	<p><b>Jacob Marlay, Elizabeth Everman, Paul Klawinski*</b></p> <p>Adaptation and Acclimation in an Introduced Gecko (Hemidactylus turcicus) Encountering Novel Thermal Environments during Range Expansion.</p>		
10:15 AM	105	<p><b>Rulon Clark*, George Bakken, Hannes Schraft</b></p> <p>Are Warmer Pit Vipers Less Sensitive to Infrared Radiation?</p>		
10:30 AM	389	<p><b>Manisha Choudhury, Ryan McCleary*, R. Manjunatha Kini, Devadasan Velmurugan</b></p> <p>Determination of structure-function relationships of orphan group I three-finger toxins from elapid snake venoms using molecular modeling approaches</p>		
10:45 AM	422	<p><b>William S. Brown*, Matthew G. Simon</b></p> <p>Record Life Span in a Population of Timber Rattlesnakes (Crotalus horridus)</p>		
11:00 AM	243	<p><b>Craig Lind*, Ignacio Moore, Terence Farrell</b></p> <p>Interactions between steroid hormones and snake fungal disease indicate potential sublethal effects on fitness in Pygmy Rattlesnakes, Sistrurus miliarius.</p>		
11:15 AM	460	<p><b>Joseph Agugliaro*, Craig Lind, Terence Farrell</b></p> <p>Snake Fungal Disease Increases Resting Metabolic Rate and Total Evaporative Water Loss Rate in a Winter-active Snake (Sistrurus miliarius)</p>		
11:30 AM	26	<p><b>Rebecca Hardman*, Kendall Oziminski, Laura Reinert, Louise Rollins-Smith, Kelly Irwin, Debra Miller</b></p> <p>Hellbender skin antimicrobial peptides show variable inhibition against chytrid fungus (Batrachochytrium dendrobatidis)</p>		
11:45 AM	179	<p><b>Benjamin Johnson*, Jeremy Searle, Jed Sparks</b></p> <p>Morphological Drivers of Physiological Performance in Lungless Salamanders</p>		
12:00 PM		<b>LUNCH ON YOUR OWN</b>		

\* denotes presenter



# Oral Presentations - Saturday, 14 July - Morning

	<i>Highland Rooms E</i>		<i>Grand Lilac Ballroom North</i>	ROOM
			<b>ASIH: If Salamanders Could Speak Symposium</b>	SESSION/ SYMPOSIUM
			Chris Feldman	MODERATOR
				8:00 AM
				8:15 AM
		205	<b>Joseph Mendelson*</b> The remarkable career of Edmund D. Brodie, Jr.: if salamanders could speak	8:30 AM
		205	<b>Joseph Mendelson*</b> The remarkable career of Edmund D. Brodie, Jr.: if salamanders could speak	8:45 AM
		61	<b>Henry Mushinsky*, Earl McCoy, Adam Emerick, Brad Hauch, Nick Osman</b> Successful Translocation of the Florida Sand Skink	9:00 AM
		97	<b>Ken Dodd*, Corey Anderson</b> Amphibian Immigration and Emigration at a Temporary Pond in the Florida Sandhills	9:15 AM
<b>BREAK - Empire Hall South</b>				9:30 AM
	<b>Neotropical Ichthyological Association Talks</b>		<b>ASIH: If Salamanders Could Speak Symposium</b>	SESSION/ SYMPOSIUM
	Tiago Carvalho		Joe Mendelson	MODERATOR
295	<b>Brian Sidlauskas*, Casey Dillman, Kendra Hoekzema, Bruno Melo, Michael Alfaro, Michael Burns, Benjamin Frable, Claudio Oliveira, Mark Sabaj, Brant Faircloth</b> Vari's Morphological Legacy in the Light of a Molecular Phylogeny for Anostomoidea	141	<b>Peter Ducey*</b> Adaptation and Homology in Salamander Antipredator Behaviors and Tail Autotomy	10:00 AM
371	<b>João Pedro Fontenelle*, William Crampton, Nathan Lovejoy</b> Master of (n)One? Phylogeny and Population Structure in the Neotropical Electric Fish genus <i>Steatogenys</i> (Gymnotiformes: Hypopomidae) Across Different Water-Types.	207	<b>Paul Cupp, Jr.*</b> Unken Reflexes in a Cryptic Salamander, <i>Aneides aeneus</i>	10:15 AM
		400	<b>Carl Anthony*</b> Edmund D. Brodie: Plethodontid biologist	10:30 AM
491	<b>Lesley de Souza, Donald Taphorn, Jonathan Armbruster*</b> Review of <i>Ancistrus</i> (Siluriformes: Loricariidae) from the northwestern Guiana Shield with description of six new species	165	<b>Gareth Hopkins*, Susannah French, Edmund D. Brodie, Jr.</b> Interacting effects of salinity and temperature on amphibians: exploring the potential for adaptation in a changing world	10:45 AM
622	<b>Katherine Balasingham*, Jake Daane, Matthew Harris, Nathan Lovejoy</b> Detecting evidence of positive selection in key osmoregulatory genes in freshwater and marine Beloniformes	561	<b>Natasha Wilson, Craig Williams*</b> A Critical Review of Freshwater Crayfish as Predators of Toxic Amphibians	11:00 AM
401	<b>Stuart C. Willis*, David E. Saenz, Gang Wang, Christopher M. Hollenbeck, Luiz A. Rocha, David S. Portnoy, James J. Cai, Kirk O. Winemiller</b> Osmoregulation in freshwaters: Gene expression in the gills of a Neotropical cichlid in contrasting pH and ionic environments	3	<b>Alan Savitzky*, Akira Mori</b> Anointed and Sequestered: Diverse Sources of Defensive Cardiotonic Steroids in Tetrapods	11:15 AM
		270	<b>Edmund Brodie III*</b> Newts and the Snakes that Eat Them: Backstories of a Coevolutionary Arms Race	11:30 AM
		270	<b>Edmund Brodie III*</b> Newts and the Snakes that Eat Them: Backstories of a Coevolutionary Arms Race	11:45 AM
<b>LUNCH ON YOUR OWN</b>				12:00 PM

\* denotes presenter

# Oral Presentations - Saturday, 14 July - Morning

ROOM		<i>Grand Lilac Ballroom South</i>		
SESSION/ SYMPOSIUM		<b>Ichthyology Biogeography</b>		
MODERATOR		<b>Hernán López-Fernández</b>		
8:00 AM				
8:15 AM	579	<b>Kenneth Oswald*, Morgan Reich</b> Population Genetics and Phylogeography Inform Conservation and Management of Rare Tonguetied Minnow ( <i>Exoglossum laurae</i> )		
8:30 AM	520	<b>Alexander Cameron*, David Camak, Tyler Pilger, David Propst, Thomas Turner</b> Disentangling Natural Dispersal Versus Human-Mediated Introduction of the Longfin Dace ( <i>Agosia chrysogaster</i> ) Across the Trans-Continental Divide.		
8:45 AM	343	<b>Tiago Carvalho*, Barbara Calegari</b> Historical Biogeography of Neotropical Freshwaters: a comparative approach using representatives of Doradoidea and event-based methods.		
9:00 AM	132	<b>Hernán López-Fernández*, Stephanie Blain, Viviana Astudillo-Clavijo</b> Increased phylogenomic resolution of Neotropical cichlids allows dating of Guiana Shield biogeographic events within the genus <i>Geophagus</i>		
9:15 AM	20	<b>D Ross Robertson*</b> An Indo-Pacific damselfish in the Gulf of Mexico, 2018		
9:30 AM		<b>BREAK - Empire Hall South</b>		
SESSION/ SYMPOSIUM		<b>Ichthyology Conservation</b>		
MODERATOR		<b>Megan Osborne</b>		
10:00 AM	523	<b>Worth Pugh*, Gary Pandolfi, Michael Gangloff</b> Impacts of Land-Use, Catchment Size and In-Stream Habitat on Lotic Communities of the Upper New River Drainage in North Carolina		
10:15 AM	32	<b>David Hamon-Monstere</b> <i>Rowl: A Tale of the Atlantic Heroin in the Connecticut River</i>	<b>CANCELED</b>	
10:30 AM	493	<b>Dawn Dittman*</b> A Lake Sturgeon Restoration Experiment in the Genesee River, Rochester NY.		
10:45 AM	486	<b>Shawna Mitchell*, Bernie Kuhajda</b> Population Status and Life History of the Federally Endangered Laurel Dace, <i>Chrosomus saylori</i>		
11:00 AM	419	<b>Mark Wildhaber*, Lynsey Whitacre, Gary Johnson, Justin Downs, Tendai Mhlanga-Mutangadura, Vernon Tabor, Daniel Fenner, Jared Decker</b> Neosho Madtom ( <i>Noturus placidus</i> ) Genetic Variation and Population Structure in Support of Species Recovery		
11:15 AM	226	<b>Peter Smiley Jr.*, Kevin King</b> Fish Community and Population Responses to Planting Grass Filter Strips Adjacent to Channelized Agricultural Headwater Streams		
11:30 AM	575	<b>Henry Bart*</b> The Value of Ichthyological Research Collections in Conservation Research		
11:45 AM	644	<b>Matthew Bealor*, Victoria Kuhnel, Victoria Brady, Kelsey Revicki</b> Bigger is Better: Dietary Quality Influences Bubble Nest Size and Mating Success of Male Siamese Fighting Fish, <i>Betta splendens</i>		
12:00 PM		<b>LUNCH ON YOUR OWN</b>		

\* denotes presenter

# Oral Presentations - Saturday, 14 July - Afternoon

	<i>Highland Rooms A</i>		<i>Highland Rooms B</i>	ROOM
	Lightning Talks II		Herpetology Systematics	SESSION/ SYMPOSIUM
	Dustin Siegel		Edward Stanley	MODERATOR
		499	Edward Stanley*, Daniel Paluh, David Blackburn Diversification of dermal armor in squamates.	1:30 PM
		345	Luis Ceriaco*, Mariana Marques, Suzana Bandeira, Mathew Heinicke, Carly Boye, Edward Stanley, David Blackburn, Aaron Bauer A taxonomic review and phylogeny of the African Burrowing Skinks (Squamata: Scincidae: Sepsina Bocage, 1866)	1:45 PM
	<b>257 Delventhal</b> <b>265 Beachy</b> <b>279 Glorioso</b> <b>284 Buser</b> <b>294 Clemente-Carvalho</b> <b>552 Spencer</b> <b>571 Ruppert</b> <b>335 Campbell</b> <b>351 Angeli</b> <b>387 Kuhn</b> <b>390 Burbrink</b>	404	Rory Telemeco*, Brian Lavin, Chris Feldman An integrative taxonomic analysis of the southern and panamint alligator lizard complex: Combining morphological, ecological, and molecular evidence	2:00 PM
		49	Aaron Bauer*, Ishan Agarwal, Luis Ceriaco Systematics of the Hemidactylus (Reptilia: Gekkonidae) of Sub-Saharan Africa	2:15 PM
		550	Rachel Welt*, Chris Raxworthy Dispersal, not Vicariance, Explains the Biogeographic Origins of Iguanas on Madagascar	2:30 PM
		374	Richard Glor* Speciation in the Hispaniolan Bark Anole (Anolis distichus)	2:45 PM
		264	Sean Harrington*, Jordyn de Haan, Lindsey Shapiro, Sara Ruane Habits and characteristics of arboreal snakes worldwide: arboreality constrains body size and has complex effects on lineage diversification	3:00 PM
		22	Christopher Samuelson*, Utpal Smart, Eric Smith, Mahmood Sasa Marin, Alejandro Solorzano Systematics of the Central American coral snakes allied to Micrurus alleni (Squamata: Elapidae)	3:15 PM
		304	David Beamer* A Genomic Assessment Of Diversity Within Watedogs (Necturus)	3:30 PM
		567	Cliff Fontenot*, Sydney Ferguson, Helen Plylar Comparison of the Role of Spectacle/Cornea Curvature in Vision Among Colubrid snakes from Southeastern Louisiana	3:45 PM
		POSTER SESSION II - Empire Hall South		
				5:00 PM
				6:00 PM

\* denotes presenter

# Lightning Talks- Saturday, 14 July - Afternoon

2:00 PM - 3:45 PM, Highland Room A, Joseph A. Floreano Rochester Riverside Convention Center

257	<p><b>Naomi Delventhal*, Lynne Parenti</b></p> <p>Comparative Morphology of the Female Urogenital Papilla of Seven Species of Callogobius (Teleostei: Gobiidae)</p>
265	<p><b>Jonathan Bynum, Stuart Wells, Joseph Incandela, Jennifer Lamb, Christopher Beachy*</b></p> <p>The larval life history of the Southern Two-lined Salamander, <i>Eurycea cirrigera</i> (Caudata, Plethodontidae) in southern Louisiana</p>
279	<p><b>Brad M. Glorioso*, J. Hardin Waddle</b></p> <p>A Decade of Turtle Capture-Mark-Recapture in a Small Urban Pond Complex</p>
284	<p><b>Thaddeus Buser*, Brian Sidlauskas, Adam Summers</b></p> <p>Testing for sexual dimorphism in sculpin (Cottoidea: Oligocottinae) cranial weapons using 3D morphometrics</p>
294	<p><b>Rute Clemente-Carvalho*, Peiwen Li, Hannah Driver, Cora Jennings, Peter van Coeverden de Groot, Stephen Lougheed</b></p> <p>Genetic Insights Into Lake Whitefish of the Lower Northwest Passage</p>
552	<p><b>Michelle Koo, Carol Spencer*, David Blackburn, David Cannatella, Alessandro Catenazzi, Ann Chang, Joyce Gross, Deanna Olson, Vance Vredenburg, David Wake</b></p> <p>AmphibiaWeb Updates and Innovations to Address the Global Crisis in Amphibians</p>
571	<p><b>Trevor Ruppert*, Robert Espinoza</b></p> <p>Identifying the Physiological Limitations of Dispersal and Persistence of an Invasive Amphibian (<i>Xenopus laevis</i>) in Southern California</p>
335	<p><b>Cooper Campbell*, Hank Bart</b></p> <p>Venom Gene Expression in <i>Noturus</i> Catfishes and their Response to Predators</p>
351	<p><b>Nicole Angeli*, Lee Fitzgerald</b></p> <p>Repatriating species where threats still exist</p>
387	<p><b>Arianna Kuhn*, Sara Ruane, Chris Raxworthy, Frank Burbrink</b></p> <p>Spatially Explicit Historical Demography of Widespread Malagasy Gernsnakes</p>
390	<p><b>Frank Burbrink*, Marcelo Gehara, Edward Myers</b></p> <p>Revisiting the phylogeography of the North American ratsnakes (<i>Pantherophis obsoletus</i> complex) using genomic data.</p>

\* denotes presenter

# Oral Presentations - Saturday, 14 July - Afternoon

	<i>Highland Rooms C</i>		<i>Highland Rooms D</i>	ROOM
				SESSION/ SYMPOSIUM
				MODERATOR
				1:30 PM
				1:45 PM
				2:00 PM
				2:15 PM
				2:30 PM
				2:45 PM
				3:00 PM
				3:15 PM
				3:30 PM
				3:45 PM
	POSTER SESSION II - Empire Hall South			4:00 PM
				5:00 PM
				6:00 PM

\* denotes presenter

# Oral Presentations - Saturday, 14 July - Afternoon

ROOM		Highland Rooms E		Grand Lilac Ballroom North
SESSION/ SYMPOSIUM				<b>ASIH: If Salamanders Could Speak Symposium</b>
MODERATOR				<b>Chris Feldman</b>
1:30 PM			319	<b>Amber Stokes*, Brian Gall, Peter Ducey, Lorin Neuman-Lee, Susannah French, Charles Hanifin, Michael Pfrender, Edmund Brodie III, Edmund Brodie, Jr.</b>  The Presence and Function of Tetrodotoxin (TTX) in Terrestrial Organisms
1:45 PM			319	<b>Amber Stokes*, Brian Gall, Peter Ducey, Lorin Neuman-Lee, Susannah French, Charles Hanifin, Michael Pfrender, Edmund Brodie III, Edmund Brodie, Jr.</b>  The Presence and Function of Tetrodotoxin (TTX) in Terrestrial Organisms
2:00 PM			638	<b>Becky Williams*, Jake Richardson, Susan Durham</b>  Comparison of Epithelial Microbial Communities of the Tetrodotoxin-Bearing Rough-skinned Newts and Non-Tetrodotoxin Bearing Pacific Tree Frog from a Common Pond
2:15 PM			292	<b>Brian Gall*, Yiyuan Li, Michael Pfrender, Edmund Brodie</b>  Diffuse Coevolution? Tetrodotoxin and Insecticide Resistance in Egg Predators of the Rough-Skinned Newt ( <i>Taricha granulosa</i> )
2:30 PM			600	<b>Lorin Neuman-Lee*, Edmund Brodie, Jr., Susannah French</b>  Examining the stress response in the gartersnake-newt-tetrodotoxin system
2:45 PM			200	<b>Michael Hague*, Chris Feldman, Edmund Brodie, Jr., Edmund Brodie III</b>  Convergent adaptation to dangerous prey proceeds through the same first-step mutation in the garter snake <i>Thamnophis sirtalis</i>
3:00 PM			541	<b>Jessica Reimche*, Robert del Carlo, Amber Stokes, Erica Ely, Joshua Hallas, Edmund Brodie III, Michael Pfrender, Edmund Brodie Jr., Normand Leblanc, Chris Feldman</b>  Is the Sierra Garter Snake the exception to the rule? TTX-resistance in <i>Thamnophis couchii</i> is not explained by molecular phenotype
3:15 PM			589	<b>Shana Geffney*, Gabriela Toledo, Charles Hanifin</b>  Understanding evolution through natural experiments: Tetrodotoxin resistance in snakes
3:30 PM			596	<b>Robert Eugene del Carlo*, Jessica S. Reimche, Michael T.J. Hague, Edmund D. Brodie, Jr., Normand Leblanc, Chris R. Feldman</b>  Arms Race Penalties: The biophysical costs of adaptive mutations in a complex organism
3:45 PM				<b>Concluding Remarks</b>
4:00 PM		<b>POSTER SESSION II - Empire Hall South</b>		
5:00 PM				
6:00 PM				

\* denotes presenter

# Oral Presentations - Saturday, 14 July - Afternoon

	<i>Grand Lilac Ballroom South</i>			ROOM
	Ichthyology Systematics I			SESSION/ SYMPOSIUM
	Kyle Piller			MODERATOR
230	<b>Lily C. Hughes*</b> Comprehensive phylogeny of ray-finned fishes (Actinopterygii) based on transcriptomic and genomic data			1:30 PM
504	<b>Richard Harrington*, Thomas Near, Brant Faircloth, Matt Friedman</b> Swimming in Data: Addressing Pelagaria Relationships with Phylogenomic Datasets			1:45 PM
515	<b>Thomas Near*, Daniel MacGuigan, Alex Dornburg</b> The Utility of RADseq for Resolving Cenozoic Adaptive Radiations: A Case Study of Antarctic Notothenioid Fishes (Percomorpha: Perciformes)			2:00 PM
625	<b>Leo Smith*, Matthew Davis, Michael Ghedotti</b> Phylogeny of Enigmatic Acropomatiform Fishes with a Preliminary Assessment of Morphological Support			2:15 PM
473	<b>Matthew Davis*</b> Evolutionary Relationships and Classification of Lizardfishes (Aulopiformes) Using Genomic and Morphological Data			2:30 PM
357	<b>Kyle Piller*, Elyse Parker, Alan Lemmon, Emily Moriarty-Lemmon</b> Assessing relationships within the Goodeidae using Anchored Hybrid Phylogenomics			2:45 PM
77	<b>Casey Dillman*, Eric Hilton</b> Nuclear DNA Sequences and their bearing on our understanding of the history and Relationships of Sturgeons (Acipenseriformes: Acipenseridae)			3:00 PM
				3:15 PM
				3:30 PM
62	<b>Aleta Quinn*</b> When is a cladist not a cladist?			3:45 PM
	POSTER SESSION I - Empire Hall South			4:00 PM
				5:00 PM
				6:00 PM

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Morning

ROOM		<i>Highland Rooms A</i>		<i>Highland Rooms B</i>
SESSION/ SYMPOSIUM				General Herpetology I
MODERATOR				Gareth Hopkins
8:00 AM				
8:15 AM				
8:30 AM			629	Anthony Cobos*, Robert Espinoza, L. Lee Grismer, Shahrul Anuar, Evan Quah Convergent Evolution in Morphology, Physiology, and Performance among Malaysian Cave-Dwelling Geckos
8:45 AM			194	Iris Holmes*, Daniel Rabosky, Alison Davis Rabosky Relationship of host genetic diversity to microbiome diversity in squamate reptiles
9:00 AM			206	Max Nickerson*, Joseph Mitchell Turtle Communities for Remnant Wetland Restoration in the Upper Mississippi River Embayment
9:15 AM			651	Eric Munscher, Andrew Walde, Daren Riedle, Stephen Ross, Nicole Salvatico, Chris Collins, Mike Farris, Brian Butterfield, Brian Hauge, Michael Skibsted*  Lots of Turtles, Lots of Work: An Overview of the North American Freshwater Turtle Research Group's Research at Comal Springs
9:30 AM		BREAK - Empire Hall South		
SESSION/ SYMPOSIUM		Amphibian Ecology II		Lightning Talks III
MODERATOR		Brian Halstead		Brian Sidlauskas
10:00 AM	186	Brian Halstead*, Patrick Kleeman, Jonathan Rose  Time-to-detection Occupancy Modeling: An Efficient Method for Analyzing the Occurrence of Amphibians and Reptiles		<b>392 Myers</b> <b>624 Vick</b> <b>397 Skipwith</b> <b>413 Mauger</b> <b>429 Reid</b> <b>443 Hampton</b> <b>480 Hecht</b> <b>509 Meza-Vargas</b> <b>511 Rittmeyer</b> <b>606 Sgouros</b> <b>631 Gonzalez</b> <b>641 Dickson</b>
10:15 AM	503	Julia Earl*  Relative Importance of Different Ecological Pressures to Tadpole Survival, Growth, and Development		
10:30 AM				
10:45 AM				
11:00 AM	121	Michael Benard*, Kacey Dananay, Hilary Rollins  Warmer Winters and Earlier Breeding Lead to Colder Temperatures Experienced by Larval Ambystoma Salamanders		
11:15 AM	613	Kenzi Stemp*, Thomas Anderson, Jon Davenport  Food web ecology and keystone effects of an endemic pond-breeding salamander		
11:30 AM	57	Dustin Carig*, Josh Ennen, Jon Davenport <b>CANCELED</b> The legacy effects of a transient apex predator in a freshwater food web		
11:45 AM	70	Carmen Montaña, Christopher Schalk*, Tiffany Schriever, T. M. S. D. G. Silva, David Hagyar, Jakob Wager, Lindsey Tiegs, Cyrus Sadeghian  Revisiting 'What do Tadpoles Really Eat?': A Ten-year Perspective		
12:00 PM		LUNCH ON YOUR OWN		

\* denotes presenter



# Lightning Talks- Sunday, 15 July - Morning

10:00 AM - 12:00 PM, Highland Room B, Joseph A. Fioreano Rochester Riverside Convention Center

392	<p><b>Edward Myers*, Frank Burbrink</b></p> <p>Population Genomics and Species Delimitation of <i>Coluber constrictor</i></p>
624	<p><b>Calvin Vick*, Kelly J. Irwin</b></p> <p>An Eastward range expansion and new ecoregion for the Four-toed Salamander (<i>Hemidactylum scutatum</i>) in Arkansas.</p>
397	<p><b>Phillip Skipwith*, Frank Burbrink, Christopher Raxworthy</b></p> <p>Ecology shapes phenotypic diversification in Malagasy gem snakes (Lamprohiidae: Pseudoxyrhopiinae) as revealed through phylogenomics and 3D geometric morphometrics</p>
413	<p><b>Laurie Mauger*, Frank Mazzotti, James Spotila</b></p> <p>Landscape Genetics of <i>Crocodylus acutus</i> in Pacific Costa Rica</p>
429	<p><b>Brendan Reid*, Sarah Fitzpatrick</b></p> <p>Don't fear the Rapture: efficient and inexpensive generation of genomic data for the Arkansas darter (<i>Etheostoma cragini</i>)</p>
443	<p><b>Paul Hampton*</b></p> <p>Is Foraging Ecology an Overlooked Influence on Organ Position in Snakes?</p>
480	<p><b>Kirsten Hecht*, Katie Stofer, Max Nickerson</b></p> <p>Public Engagement of Herpetologists: Attitudes and Scope</p>
509	<p><b>Vanessa Meza-Vargas*, Nathan Lujan, Roberto Reis</b></p> <p>How many genera are <i>Hemiancistrus</i> (Siluriformes: Loricariidae)?</p>
511	<p><b>Eric Rittmeyer*, Sara Ruane</b></p> <p>Biodiversity of Northern Isolate Squamate Populations in the New Jersey Pine Barrens</p>
606	<p><b>Katherine Sgouros*</b></p> <p>Gene Partitioning in Catostomidae as a Means of Ecological Adaptation</p>
631	<p><b>Alexandra Gonzalez*, Jennifer Dever</b></p> <p>Visualizing Threats of Amphibians in Southeast Asia</p>
641	<p><b>Matthew Dickson*, Heather Liwanag, Aaron Bauer, Robert Espinoza</b></p> <p>Getting comfortable in your own skin: Morphological variation in the epidermis of an invasive reptile in response to novel climates</p>

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Morning

ROOM		<i>Highland Rooms C</i>		<i>Highland Rooms D</i>
SESSION/ SYMPOSIUM		Herpetology Reproduction		Herpetology Genetics I
MODERATOR		Sara Ruane		John Malone
8:00 AM				
8:15 AM	75	<b>Sinlan Poo, Kristin Hinkson*, Edward Stege, Kimberly Terrell</b> Sperm Output and Body Condition are Maintained Independent of Hibernation in an Endangered Temperate Amphibian	95	<b>Rob Denton, John Malone*</b> Assembly of the African Bullfrog ( <i>Pyxicephalus adspersus</i> ) Genome and History of Vertebrate Sex Chromosomes
8:30 AM	368	<b>Terence Farrell*, Sarah Smiley, Amber Clark, Craig Lind</b> The Effects of Supplemental Feeding of Pregnant Pygmy Rattlesnakes ( <i>Sistrurus miliarius</i> ) on Reproductive and Neonate Traits	554	<b>CANCELED</b> <b>Sarah Goldberg*</b> Ternitalion of Environmental DNA Detection of Amphibians and Reptiles: Toward a Synthetic Framework
8:45 AM	11	<b>Rick Shine*, Thomas Madsen, Greg Brown</b> Environmental Sex Determination in a Snake: Dry Nests Produce More Sons	525	<b>Obed Hernandez-Gomez, Steven Kimble, Jessica Hua, Vanessa Wuertner, Devin Jones, Brian Mattes, Rickey Cothran, Rick Relyea, Jason Hoverman</b> Local adaptation of the MHC class II $\beta$ gene influences the susceptibility to a common parasite in amphibians
9:00 AM	308	<b>M. Rockwell Parker*, Shannon A. Richard, Holly R. Rucker, Sydney E. Ashton</b> How to make a sexy snake, part deux: dose-specific feminization of males via estradiol	457	<b>Audrey Kelly*, Amanda Pierce, Karin Pfennig</b> Transfer via Hybridization of an Allele Associated with Rapid Development Time in Spadefoot Toads
9:15 AM	13	<b>Russell Burke*, Beverly Clendening, Alexandra Kanonik</b> Long-Term Increases in Clutch Size in Common SnappingTurtles ( <i>Chelydra serpentina</i> ) and Diamondback Terrapins ( <i>Malaclemys terrapin</i> )		
9:30 AM	<b>BREAK - Empire Hall South</b>			
SESSION/ SYMPOSIUM		Herpetology Conservation II		Herpetology Genetics II
MODERATOR		Katherine O'Donnell		Stuart Nielsen
10:00 AM	399	<b>Katherine O'Donnell*, William Barichivich, Kurt Buhlmann, Jonathan Chandler, Kevin Enge, Anna Farmer, Thomas Gorman, Carola Haas, Pierson Hill, John Jensen, Mark Mandica, Jana Mott, John Palis, Lora Smith, Susan Walls</b> Range-wide Occupancy Status of Federally-listed Flatwoods Salamanders	33	<b>Stuart V. Nielsen*, Juan D. Daza, Brendan J. Pinto, Tony Gamble</b> Independently Derived ZZ/ZW Sex Chromosomes in the Puerto Rican Leaf-toed Gecko ( <i>Phyllodactylus wirshingi</i> ) are Homologous with the Avian Z
10:15 AM	540	<b>Susan Walls*</b> What Constitutes Conservation Success and How is it Achieved?		
10:30 AM	564	<b>Robert Lovich*, Christopher Petersen</b> Amphibians and Reptiles of United States Department of Defense Installations	630	<b>Matthew Holding*, Darin Rokyta, Mark Margres, Lisle Gibbs</b> Assessing biotic and abiotic drivers of venom divergence among populations of the Northern Pacific rattlesnake ( <i>Crotalus oreganus</i> ).
10:45 AM	592	<b>Gregory Pauly*</b> The Nursery Trade as an Introduction Pathway for Nonnative Reptiles and Amphibians in California	233	<b>Brian Shamblin*, Blair Witherington, Shigetomo Hirama, Robert Hardy, Campbell Nairn</b> Genetic Analyses Support Population-scale Dispersal Consequences of Active Swimming by "Lost Years" Green Turtles
11:00 AM	311	<b>Julia Laterza Barbosa*, James Watling</b> Using Experimental Translocations of Reptiles and Amphibians to Evaluate Faunal Rescue in the Brazilian Amazon	529	<b>Ella Buring*, Vanessa Gonzalzes, Daniel Mulcahy</b> Lost and Found: Tuatara ND5 Gene Identified
11:15 AM	338	<b>Muhammad Rais*, Imtiaz Ahmed khan, Aneesa Islam, Waseem Ahmed, Muhammad Saeed, Syeda Maria Ali, Ayesha Akram</b> Quantification of Herpetofauna Habitat and Assessment of Land use Change in Rawalpindi and Islamabad Areas, Pakistan		
11:30 AM	649	<b>H. Bradley Shaffer*, Erin Toffelmier, Christopher Searecy</b> When Listing Isn't Enough: Can We Prevent the Extinction of an Endangered Amphibian?		
11:45 AM	466	<b>Brian Gratwicke*, Anna E Savage, Matthew H Becker, Blake Klocke, Robert C Fleischer</b> Panama Amphibian Rescue and Conservation Project		
12:00 PM	<b>LUNCH ON YOUR OWN</b>			

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Morning

<i>Highland Rooms E</i>		<i>Grand Lilac Ballroom North</i>		ROOM
		<b>SSAR: Coloration in Fish, Amphibians, &amp; Reptiles Symposium</b>		<b>SESSION/ SYMPOSIUM</b>
		<b>John Steffen</b>		<b>MODERATOR</b>
		241	<b>John Steffen*</b> How and why do animals color themselves? A Painted Turtles response.	8:00 AM
		249	<b>Melissa Meadows*</b> Fish with Laser Vision and Other Fun Functions of Fluorescence	8:15 AM
		249	<b>Melissa Meadows*</b> Fish with Laser Vision and Other Fun Functions of Fluorescence	8:30 AM
		628	<b>Jennifer Gumm*</b> Evolution and Function of Coloration in Darters (genus Etheostoma)	8:45 AM
		628	<b>Jennifer Gumm*</b> Evolution and Function of Coloration in Darters (genus Etheostoma)	9:00 AM
		445	<b>Monica Winebarger*, Worth Pugh, Michael Osbourn, Lynn Siefferman</b> Conspicuous Coloration May Function to Deter Avian Predators in Appalachian Salamanders	9:15 AM
<b>BREAK - Empire Hall South</b>				<b>9:30 AM</b>
<b>Ichthyology Ecology and Ethology</b>		<b>SSAR: Coloration in Fish, Amphibians, &amp; Reptiles Symposium</b>		<b>SESSION/ SYMPOSIUM</b>
<b>Terry Donaldson</b>		<b>Peter Uetz</b>		<b>MODERATOR</b>
534	<b>Nathan Morris*, Janet Long, Elizabeth Alter</b> "Characterization of the Gut Microbiome of Mummichog, Fundulus heteroclitus, Living in Polluted Urban Waterways"	580	<b>Larissa Patterson*, David Parichy</b> Stripes, Spots, Bars and More: Pigment Pattern Development and Evolution in Danio Fishes	10:00 AM
342	<b>Simon Brandl</b> Exploring Cryptobenthic Fish Faunas, Community and Ecology	580	<b>Larissa Patterson*, David Parichy</b> Stripes, Spots, Bars and More: Pigment Pattern Development and Evolution in Danio Fishes	10:15 AM
301	<b>Daniel Oliveira*, Sarah Fitzpatrick</b> Phenotypic Differentiation matches Environmental Variation: a Potential Case for Local Adaptation in Rainbow Darters	507	<b>Michael Westphal*, Theodore Morgan</b> When gartersnakes go dark: pigment knockouts and the unfulfilled promise of xanthine dehydrogenase	10:30 AM
163	<b>Christopher Goatley*, Simon Brandl, David Bellwood, Luke Tornabene</b> Cryptic Biodiversity: Community Composition of Cryptobenthic Reef Fish Faunas	507	<b>Michael Westphal*, Theodore Morgan</b> When gartersnakes go dark: pigment knockouts and the unfulfilled promise of xanthine dehydrogenase	10:45 AM
		58	<b>Russell Ligon*</b> Colorful language: Investigating the complex chromatic communication of chameleons	11:00 AM
650	<b>Laurel Brandsmeier, Richard Mayden*</b> Quantitative and Descriptive Analysis of the Spawning Behavior of the Ornate Minnow, <i>Codoma ornata</i> (Cypriniformes; Leuciscidae)	58	<b>Russell Ligon*</b> Colorful language: Investigating the complex chromatic communication of chameleons	11:15 AM
		574	<b>Mitchell Vu, Sami R. Cherikh, Shai Meiri, Peter Uetz*</b> Color patterns in snakes: a phylogenetic and geographic analysis	11:30 AM
162	<b>Terry Donaldson*</b> Male Territory Swamping in a Lek-like Mating System Increases Courtship Success in a Fish Spawning Aggregation	574	<b>Mitchell Vu, Sami R. Cherikh, Shai Meiri, Peter Uetz*</b> Color patterns in snakes: a phylogenetic and geographic analysis	11:45 AM
<b>LUNCH ON YOUR OWN</b>				<b>12:00 PM</b>

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Morning

ROOM		<i>Grand Lilac Ballroom South</i>		
SESSION/ SYMPOSIUM		General Ichthyology I		
MODERATOR		David Johnson		
8:00 AM	144	<b>CANCELLED</b>		
8:15 AM	244	<p><b>Kory Evans*, Lesley Kim, Brian Schubert, James Albert</b></p> <p>The mighty mandible: Mosaic evolution facilitates trophic specialization in electric fish skulls</p>		
8:30 AM	216	<p><b>Matthew Craig*, Wm. Leo Smith</b></p> <p>Groupergate: On the reluctance to recognize the non-monophyly of the "Serranidae".</p>		
8:45 AM	306	<p><b>Karly E. Cohen*, L. Patricia Hernandez, Callie H. Crawford, Brooke E. Flammang</b></p> <p>Modeling silver carp filtration using <math>\mu</math>CT and 3D PIV</p>		
9:00 AM	73	<p><b>Claire Fox*, William Bemis</b></p> <p>Benthic walking and body form in three families of Flatfishes (Pleuronectiformes: Achiridae, Cynoglossidae, and Pleuronectidae)</p>		
9:15 AM	436	<p><b>Diego Vaz*, Eric Hilton</b></p> <p>Comparative Anatomy of the Jaws, Suspensorium, and Gill Arches of Toadfishes (Batrachoidiformes)</p>		
9:30 AM		BREAK - Empire Hall South		
SESSION/ SYMPOSIUM		Ichthyology Morphology/ Collections/ Fisheries		
MODERATOR		Jacqueline Webb		
10:00 AM	85	<p><b>Anna Ayvazyan*, Davit Vasilyan, Madelaine Böhme</b></p> <p>Morphology of the Pharyngeal Dentition of the Genus <i>Capoeta</i> (Cyprinidae) based on X-ray Computed Tomography: Implications for Taxonomy and Phylogeny</p>		
10:15 AM	609	<p><b>Aaron Olsen*, Elizabeth Brainerd</b></p> <p>An Ancient Throat Expansion Mechanism Functions as an 11-Bar Linkage in Channel Catfish</p>		
10:30 AM	603	<p><b>Matthew Kolmann*, Karly Cohen, Kate Bemis, Patricia Hernandez, Adam Summers</b></p> <p>Tooth and consequences: heterodonty and tooth replacement in piranhas and pacus</p>		
10:45 AM	648	<p><b>MOVED TO POSTER PRESENTATION II SATURDAY, 14 JULY</b></p>		
11:00 AM	312	<p><b>Hu Yinan, John Majoris, Peter Buston, Jacqueline Webb*</b></p> <p>Ontogeny of the Ear in the Pelagic Larvae of Coral Reef Fishes (Gobiidae, Pomacentridae, Apogonidae)</p>		
11:15 AM	393	<p><b>James Hanken*, Stephen Turney, Linda Ford</b></p> <p>Unlocking the Vault: Mass Digitization and Imaging of Historical Slide Collections for use in Comparative Biology</p>		
11:30 AM	548	<b>CANCELLED</b>		
11:45 AM				
12:00 PM		LUNCH ON YOUR OWN		

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Afternoon

	<i>Highland Rooms A</i>		<i>Highland Rooms B</i>	ROOM
	Reptile Ecology I		General Herpetology II	SESSION/ SYMPOSIUM
	Christopher Thawley		Abigail Berkey	MODERATOR
555	<p><b>Kirsty MacLeod*, Michael Sheriff, David Enslinger, Dustin Owen, Traci Ann Kilde</b></p> <p>Stressors: have the glucocorticoid treatment during gestation reduce female survival, reproductive success, and post-gestational competitiveness, in eastern fence lizards.</p>	149	<p><b>Catherine Bevier*, Matthew Chatfield, Cheryl Frederick</b></p> <p style="text-align: center;">Assessing Amphibian Health in Maine</p>	1:30 PM
29	<p><b>Curtis Abney*, Glenn Tattersall, Anne Yagi</b></p> <p>Thermal Preference and Habitat Selection of <i>Thamnophis sirtalis sirtalis</i> in a Southern Ontario Peatland</p>	184	<p><b>Noemi Becza*, Emily Seiter, Sarah Bolton, Ralph Saporito</b></p> <p>A New Method for Extracting Alkaloid Defenses from Poison Frog Skins</p>	1:45 PM
169	<p><b>Jeanine Refsnider*, Henry Streby, Song Qian, Sarah Carter, Ian Clifton, Gunnar Kramer, Adam Siefker, Tyara Vazquez</b></p> <p>Does environmental heterogeneity predict degree of specialization? Testing the "jack-of-all-trades, master of none" hypothesis in a specialist lizard, <i>Phrynosoma hernandesi</i></p>	639	<p><b>Colin Brocka*, John Koprowski</b></p> <p style="text-align: center;">Around the Watching Hole: Terrestrial Ecology of an Endangered Ambystomatid Salamander</p>	2:00 PM
79	<p><b>Christopher Thawley*, Jason Kolbe</b></p> <p>A Trick of the Light: Impacts of Human-Produced Light at Night on Anoles</p>	359	<p><b>Erica Baken*, Dean Adams</b></p> <p>Repeated Evolution Across the Multiple Invasions of the Arboreal Microhabitat in Lungless Salamanders</p>	2:15 PM
195	<p><b>Oliver Ljustina*</b></p> <p>Using Species Traits to Predict Habitat Partitioning in a Suburban Watersnake (Genus: <i>Nerodia</i>) Assemblage</p>	111	<p><b>John Cavagnaro*</b></p> <p>Fluorescent coloration in reptiles and an amphibian from Namibia and southern Angola.</p>	2:30 PM
513	<p><b>Brian Todd*, Evan Eskew</b></p> <p>Environmental Drivers of Snake Movement and Activity</p>	543	<p><b>Thomas DeWitt*</b></p> <p>Evolvable multi-moment phenotype distributions account for 73% more variation in fitness than otherwise can be explained</p>	2:45 PM
<b>BREAK - Empire Hall South</b>				3:00 PM
	Reptile Ecology II		General Herpetology III	SESSION/ SYMPOSIUM
	Andrew Durso		Jennifer Deitloff	MODERATOR
201	<p><b>Jennifer Moore*, Patrick Laarman, Joseph Altobelli</b></p> <p>Ecology of Neonatal Box Turtles with Implications for Prescribed Burning</p>	217	<p><b>Steve Beaupre*</b></p> <p>Venomous Snakes in the Academic Environment: Toward Safer Protocols.</p>	3:30 PM
384	<p><b>Sean Giery*, James Stroud</b></p> <p>Trophic Ecology of the Brown Anole (<i>Anolis sagrei</i>): Niche Compression in Species-Rich Communities</p>	175	<p><b>Matthew Allender, Sarah Baker*, Megan Britton, Angela Kent</b></p> <p>Snake Fungal Disease Reduces Skin Bacterial and Fungal Diversity in an Endangered Rattlesnake</p>	3:45 PM
447	<p><b>Andrew M. Durso*, Lorin A. Neuman-Lee, Gareth R. Hopkins, Edmund D. Brodie Jr.</b></p> <p>Stable Isotope Analysis suggests that Tetrodotoxin-resistant Common Gartersnakes (<i>Thamnophis sirtalis</i>) rarely feed on Newts in the Wild</p>	288	<p><b>Jacob McCartney*, Emma Bode, Josephine Reinhardt, Nancy Stevens</b></p> <p>New fossils from the Oligocene of Tanzania reveal early origin of modern African snake fauna</p>	4:00 PM
396	<p><b>Sean Graham*, Crystal Graham</b></p> <p>Amphibians and Reptiles as Prey of the Loggerhead Shrike in West Texas</p>	166	<p><b>Jazmine Mejia Munoz*</b></p> <p>Potential Use of Museum Samples for Tetrodotoxin Quantification</p>	4:15 PM
51	<p><b>Leyna Stemple*, Kristen Martinet, Gabriel Langford</b></p> <p>Life History Traits and Spatial Ecology of the Striped Mud Turtle, <i>Kinosternon baurii</i>, in Central Florida</p>			4:30 PM
				4:45 PM

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Afternoon

ROOM		<i>Highland Rooms C</i>		<i>Highland Rooms D</i>
SESSION/ SYMPOSIUM		Herpetology Conservation III		Herpetology Morphology I
MODERATOR		Hardin Waddle		Domenic D'Amore
1:30 PM	500	<b>Hardin Waddle*, Jenny Keterlin, Frank Mazzotti</b> A Model of Daily Capture Probability for Management of an Invasive Reptile	91	<b>Domenic D'Amore*, Megan Harmon, Stephanie Drumheller, Jason Testin</b> Determining Shape- and Size-Heterodonty in Members of Crocodylia Using Geometric Morphometrics
1:45 PM	461	<b>Mizraim Olivares*, Sean Rovito</b> The Role of Fungal Pathogens in Declines of an Obligate Cave-Dwelling Salamander from Eastern Mexico	96	<b>Deran Reddy*, Cassidy Kuiper, Stephanie Schoeman</b> A Light Microscopic Documentation of the Morphogenesis of the Lung of the Nile Crocodile ( <i>Crocodylus niloticus niloticus</i> ).
2:00 PM	372	<b>Brandon Hedrick*, Samantha Cordero, Patrick O'Roark, Edward Watt</b> How Did the Salamander Cross the Road? Improvements to Older Amphibian Culverts		
2:15 PM	237	<b>Alexander Shepack*, Dana Morin, Twan Leenders, Alessandro Catenazzi</b> Multi-species recovery in a Bd enzootic habitat	463	<b>Jorge Alejandro Lopez Torres*</b> Ecomorphology of Neotropical Salamanders
2:30 PM	394	<b>Allison Sacerdote-Velazquez*, Mary Beth Manjerovic, Rachel Santymire</b> Reintroduced and Resident Amphibian Community Dynamics and Health Response to Oak Woodland Restoration	158	<b>Rachel Keeffe*, David Blackburn</b> Comparative Morphology of the Forelimb and Pectoral Girdle in Forward-Burrowing Frogs
2:45 PM	558	<b>John Peterson*, Tyler Sternbach</b> Environmental correlates and anuran abundance in a community including state-endangered Blanchard's Cricket Frogs.	465	<b>Jackson Phillips*, Kurt Schwenk</b> The Mechanics of Air-Breathing in Tree Frog Tadpoles.
3:00 PM	<b>BREAK - Empire Hall South</b>			
SESSION/ SYMPOSIUM		Herpetology Conservation IV		Herpetology Morphology II
MODERATOR		Jonathan Rose		Christopher Beachy
3:30 PM			446	<b>John Capano*, Elizabeth Brainerd</b> Morphology and kinematics of lung ventilation in the boid snake <i>Boa constrictor</i> and comparison with non-serpentine squamates
3:45 PM	652	<b>Michael McFadden*, Deon Gilbert, Philip Byrne, Peter Harlow, David Hunter</b> Recovery Efforts for the Critically Endangered Southern Corroboree Frog ( <i>Pseudophryne corroboree</i> )		<b>Cliff Fontenot*, Sydney Ferguson, Helen Plylar</b> Comparison of the Role of Spreads/Crossed Squame in Vision Among Colubrid snakes from Southeastern Louisiana
4:00 PM	37	<b>Jonathan Rose*, Michael Casazza, Glenn Wylie, Brian Halstead</b> Focusing Research and Conservation Through Modeling: Building a Demographic Model for the Giant Gartersnake, <i>Thamnophis gigas</i>	118	<b>Hugo Juarez*, Domenic D'Amore</b> Tooth morphology and function in the snake tribe <i>Thamnophini</i> .
4:15 PM	576	<b>Anne Stengle*, Thomas Tynning, Lou Perrotti</b> Headstarting of the Timber Rattlesnake in Massachusetts	67	<b>Derek Jurestovsky*, Henry Astley</b> Effects of the Zygosphen/Zygantrum Joint on the Range of Motion in Snake Vertebrae
4:30 PM	253	<b>Chace Holzheuser*, Bruce Means, Brooke Talley, Karen Lips</b> Assessing Distribution and Abundance of the Southern Dusky Salamander ( <i>Desmognathus auriculatus</i> ) in Florida: Population Surveys, Habitat Analysis, and Disease Status.		
4:45 PM	528	<b>Donald Brown*, Petra Wood, Yong-Lak Park, Sara Crayton, Lenza Paul, Alice Millikin</b> Assessment of Potential Indirect Impacts of Using Pesticides for Hemlock Preservation on Terrestrial and Semiaquatic Salamanders		

MOVED TO SATURDAY, JULY 14 AT 3:45 PM IN HIGHLAND ROOM B

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Afternoon

	<i>Highland Rooms E</i>		<i>Grand Lilac Ballroom North</i>	ROOM
				SESSION/ SYMPOSIUM
				MODERATOR
				1:30 PM
				1:45 PM
				2:00 PM
				2:15 PM
				2:30 PM
				2:45 PM
BREAK - Empire Hall South				3:00 PM
				SESSION/ SYMPOSIUM
				MODERATOR
				3:30 PM
				3:45 PM
				4:00 PM
				4:15 PM
				4:30 PM
				4:45 PM

\* denotes presenter

# Oral Presentations - Sunday, 15 July - Afternoon

<b>ROOM</b>		<i>Grand Lilac Ballroom South</i>		
<b>SESSION/ SYMPOSIUM</b>		<b>Ichthyology Systematics II</b>		
<b>MODERATOR</b>		<b>Caleb McMahan</b>		
<b>1:30 PM</b>	<b>326</b>	<b>Sarah Gibson*</b> The Evolutionary Relationships of the Order †Redfieldiiformes (Osteichthyes, Actinopterygii)		
<b>1:45 PM</b>	<b>367</b>	<b>Dahiana Arcila*, James C. Tyler</b> Integrating molecules and fossils reveal multiple diversification shifts in marine fishes during the Cenozoic		
<b>2:00 PM</b>	<b>197</b>	<b>Juan Liu*</b> You are how you look: body shape analysis of Eocene cypriniform fishes		
<b>2:15 PM</b>	<b>578</b>	<b>Ava Ghezelayagh*, Carole Baldwin, Raymond Simpson, Thomas Near</b> Revising Perciformes: Molecular Evidence of Non-monophyly in the Mail-cheeked Fishes (Scorpaeniformes) and the Sea Basses and Groupers (Perciformes: Serranidae)		
<b>2:30 PM</b>	<b>348</b>	<b>Christopher Kenaley*, Peter Jordan</b> Body-Size Evolution in Ray-finned Fishes (Actinopterygii): Tempo, Mode, and Ecological Correlates		
<b>2:45 PM</b>	<b>300</b>	<b>Kathleen Cole*, Lynne Parenti</b> Gonad morphology of Rhyacichthys aspro: a proposed template for comparative reproductive morphology among gobioid fishes		
<b>3:00 PM</b>	<b>BREAK - Empire Hall South</b>			
<b>SESSION/ SYMPOSIUM</b>		<b>General Ichthyology II</b>		
<b>MODERATOR</b>		<b>Norma Salcedo</b>		
<b>3:30 PM</b>	<b>220</b>	<b>Devin Bloom*, Michael Burns, Tiffany Schriever</b> Evolution of Body Size and Trophic Position in Migratory Fishes: A Phylogenetic Comparative Analysis of Clupeiformes (anchovies, shad and allies)		
<b>3:45 PM</b>	<b>478</b>	<b>James Creed*, Matthew Aardesma, Melanie Stia</b> Beyond the cave: The genetic basis of troglomorphy across highly divergent fish lineages		
<b>4:00 PM</b>	<b>607</b>	<b>Norma Salcedo*</b> Hemiancistrus platyrhynchus Fowler 1943 (Siluriformes: Loricariidae): the little catfish that could.		
<b>4:15 PM</b>	<b>421</b>	<b>Luke Tornabene*, Carole Baldwin, D. Ross Robertson</b> Community structure of Caribbean deep-reef fishes		
<b>4:30 PM</b>	<b>590</b>	<b>Bruce B Collette*, Katherine E Bemis</b> History of the monographic series "Fishes of the Western North Atlantic"		
<b>4:45 PM</b>	<b>45</b>	<b>Lynne Parenti*, Diane Pitassy, Zeehan Jaafar, Kirill Vinnikov, Kathleen Cole</b> The 2017 Smithsonian MarineGEO Assessment of the Fishes of Kaneohe Bay, Oahu, Hawaii		

\* denotes presenter



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