

# Oral Presentations - Thursday, 7 July - Afternoon

ROOM		<i>Galerie 2</i>		<i>Galerie 3</i>
SESSION/ SYMPOSIUM		HL GRADUATE RESEARCH AWARD		SSAR SEIBERT ECOLOGY
MODERATOR		DAVID GREEN		LEE FITZGERALD
1:30 PM	1076	<p style="text-align: center;">HL - <u>Chelsea Kross</u>, John Willson</p> <p>Occupancy and Habitat Requirements of a Threatened Prairie Specialist, the Crawfish Frog (<i>Lithobates areolatus</i>), across Northwest Arkansas</p>	502	<p>E - <u>Gregor Hamilton</u>, Randy Jennings, Bruce Christman, Erika Nowak</p> <p>Effects of Invasive Crayfish on Dermal Scarring in Indigenous Gartersnakes (<i>Thamnophis</i>) in Southwestern New Mexico</p>
1:45 PM	606	<p style="text-align: center;">HL - <u>Noelikanto Ramamonjisoa</u>, Yoshiro Natuhara</p> <p>Mouthpart Diversity and Functional Roles of Tadpoles in Stream Ecosystems in Ranomafana Madagascar</p>	813	<p>E - <u>Samul McCoy</u>, Joseph Pechmann, Gabrielle Graeter</p> <p>Movements and Habitat Use of Bog Turtles in Atypical Wetland Habitat</p>
2:00 PM	67	<p style="text-align: center;">HL - <u>Maggie Hantak</u>, Shawn Kuchta</p> <p>Color Polymorphism in the Eastern Red-backed Salamander: Are the Morphs Equally Camouflaged?</p>	846	<p style="text-align: center;">E - <u>Ethan J. Kessler</u></p> <p>Assessing Eastern Box Turtle (<i>Terrapene carolina</i>) Habitat Selection with Public-Use LIDAR Data</p>
2:15 PM	128	<p style="text-align: center;">HL - <u>Alicia Beattie</u>, Matt Whiles, Phillip Willink</p> <p>Seasonality, Population Demographics, and Ontogenetic Diet Shifts of Mudpuppies (<i>Necturus maculosus</i>) in Near-shore Habitats of a Chicago lake</p>	1003	<p>E - <u>Matthew G. Keevil</u>, Natasha Noble, Sean Boyle, David Lesbarrères, Ronald J. Brooks, Jacqueline D. Litzgus</p> <p>Inferring Causes and Consequences of Dispersal using Sex and Size Frequencies of Turtles Observed on Roads</p>
2:30 PM	581	<p style="text-align: center;">HL - <u>Jamie Shinskie</u>, Amber Pitt, Tina Delahunty</p> <p>Influence of Land Cover Change on Eastern Hellbender Occurrence within the Susquehanna River Drainage of Pennsylvania</p>	438	<p>E - <u>Patrick D. Moldowan</u>, Ronald J. Brooks, Jacqueline D. Litzgus</p> <p>Sex, shells, and weaponry: Coercive reproductive tactics in the Midland Painted Turtle, <i>Chrysemys picta marginata</i></p>
2:45 PM	998	<p style="text-align: center;">HL - <u>Nicholas Caruso</u>, Jeremy Jacobs, Leslie Rissler</p> <p>Using a Reciprocal Transplant Experiment to Quantify the Effects of the Abiotic Environment on Montane Salamander Life History</p>	1020	<p style="text-align: center;">E - <u>Matthew Pintar</u>, William Resetarits</p> <p>Oviposition preference matches larval performance in Cope's gray treefrog</p>
3:00 PM		BREAK - Acadia/Bissonet		
SESSION/ SYMPOSIUM		HL GRADUATE RESEARCH AWARD/ GENERAL HERPETOLOGY		SSAR SEIBERT ECOLOGY/ GENERAL HERPETOLOGY
MODERATOR		JOHN HERMAN		LEE FITZGERALD
3:30 PM	138	<p style="text-align: center;">HL - <u>Evan Eskew</u>, Michael Miller, Janet Foley, Brian Todd</p> <p>Comparative Transcriptomics of Two Amphibian Host Species Exposed to the Emerging Fungal Pathogen <i>Batrachochytrium dendrobatidis</i></p>	97	<p>E - <u>Vincent Farallo</u>, Rebecca Wier, Donald Miles</p> <p>Will behavioral compensation buffer species loss in a warming climate?</p>
3:45 PM	439	<p style="text-align: center;"><u>Spencer Siddons</u>, Jeff Wesner, <u>Jacob Kerby</u></p> <p>Increased species richness reduces pathogen infection risk in amphibians: a meta-analysis</p>	981	<p style="text-align: center;">E - <u>Phillip Pearson</u>, Daniel Warner</p> <p>Do Seasonal Changes in Developmental Temperature Have Season-Specific Fitness Consequences in a Lizard?</p>
4:00 PM	634	<p style="text-align: center;">HL - <u>Ariel Horner</u>, Eric Hoffman, Anna Savage, Tyler Hether</p> <p>Cryptic chytridiomycosis in declining anuran populations of the southeastern United States</p>	982	<p>E - <u>Danielle Walkup</u>, Wade Ryberg, Toby Hibbits, Lee Fitzgerald</p> <p>Survivorship of the Dunes Sagebrush Lizard (<i>Sceloporus arenicolus</i>) in disturbed and undisturbed habitat</p>
4:15 PM	915	<p style="text-align: center;">HL - <u>Ariana Rupp</u>, David Sever</p> <p>Histology and Ultrastructure of Seasonal Variation of Mental Glands and Caudal Courtship Glands in Three Genera of Plethodontid Salamanders</p>	378	<p>E - <u>Andrew Battles</u>, Jason Kolbe</p> <p style="font-size: 2em; font-weight: bold; opacity: 0.5;">CANCELED</p> <p>Urban habitats influence the spread of introduced <i>Anolis cristatellus</i> in Miami, FL</p>
4:30 PM	629	<p style="text-align: center;">HL - <u>João Tonini</u>, Karen Beard, Rodrigo Ferreira, Walter Jetz, R. Alexander Pyron</p> <p>Fully-sampled phylogenies of squamates reveal evolutionary patterns in threat status</p>	578	<p style="text-align: center;">E - <u>Stefani Cannon</u>, Thomas C. LaDuke</p> <p>Niche Partitioning by Shelter Site Selection in Lowland Tropical Tree Frogs of Northeastern Costa Rica</p>
4:45 PM	385	<p style="text-align: center;"><u>Jacquelyn Guzy</u>, Clint Bush, Kelly Halloran, Meredith Swartwout, Chelsea Kross, John D. Willson</p> <p>Distribution and Abundance of Introduced Seal Salamanders (<i>Desmognathus monticola</i>) in Northwest Arkansas, USA</p>	287	<p style="text-align: center;"><u>Michael Cardwell</u></p> <p>Does drought drive rattlesnakes into yards looking for water? Not in these populations</p>
5:00 PM	1049	<p style="text-align: center;"><u>Joseph Baecher</u>, Phillip Vogrinc, John Willson</p> <p>Comparison of Herpetofaunal Communities in Degraded and Restored Remnant Tallgrass Prairie</p>	1007	<p style="text-align: center;"><u>Kari Spivey</u>, Brian Greene</p> <p>Variation in venom expenditure in cottonmouths (<i>Agkistrodon piscivorus</i>) across prey sizes, prey types, and snake body temperatures</p>
5:15 PM	1028	<p style="text-align: center;"><u>Itzue Caviedes Solis</u>, Adam Leache</p> <p style="font-size: 2em; font-weight: bold; opacity: 0.5;">CANCELED</p> <p>Leap frogging the Mexican Highlands: diversification of the <i>Plectrohyla bistincta</i> species complex (Anura: Hyllidae)</p>		

HL = HL Graduate Research Award

E = SSAR Seibert Ecology

# Oral Presentations - Thursday, 7 July - Afternoon

	<i>Salon A-C</i>		<i>Salon D</i>	ROOM
	ASIH STOYE PHYSIOLOGY & PHYSIOLOGICAL ECOLOGY		ASIH STOYE ECOLOGY & ETHOLOGY	SESSION/ SYMPOSIUM
	SCOTT BOBACK		MARK PYRON	MODERATOR
55	PPE - <u>Natalie Claunch</u> , Matthew Holding, Julius A. Frazier, Ignacio Moore, Emily Taylor Stress Ecology of the Southern Pacific Rattlesnake, <i>Crotalus oreganus helleri</i>	44	EE - <u>John Gatto</u> , Joel Trexler Endurance Tests Explain Recolonization Patterns Following Hydrological Disturbance	1:30 PM
901	PPE - <u>Mary Draghetti</u> , Ken Oliveira The Effect of Cortisol on Growth and Body Composition of the American Eel, <i>Anguilla rostrata</i>	557	EE - <u>Kathryn Greene</u> , Shannon Pittman, Michael Dorcas Factors Affecting the Dispersal and Settlement Decisions of Juvenile Spotted Salamanders ( <i>Ambystoma maculatum</i> )	1:45 PM
475	PPE - <u>Pam Clarkson</u> , Cody Mott, Eric Pulis, Roldán Valverde Steroid Hormones of Incidentally Hooked Kemp's Ridley Sea Turtles, <i>Lepidochelys kempii</i>	646	EE - <u>Erin Zylstra</u> , Robert Steidl, Don Swann, Blake Hossack Population Dynamics and Dispersal of Canyon Treefrogs in Desert Mountain Canyons	2:00 PM
853	PPE - <u>Caitlin McGarigal</u> , Chris Lowe Physiological Effects of Angling and Handling Stresses on Kelp Bass, <i>Paralabrax clathratus</i> , in Southern California	643	EE - <u>Virginia Fleeer</u> , Chet Rakocinski Cryptic fish assemblages vary between artificial and historic oyster reefs in the Mississippi Sound	2:15 PM
758	PPE - <u>Michaleia Mead</u> , Christopher Howey, Tracy Langkilde Impacts of pH and UV-B on stress and developmental rates of wood frog tadpoles: implications with regard to prescribed fire	577	EE - <u>Ryan Logan</u> , Christopher Lowe Do They Stay or do They Go? Site Fidelity of Kelp Forest Gamefishes on a Large Artificial Reef in Southern California	2:30 PM
628	PPE - <u>David Penning</u> , Brad Moon The King of Snakes: Performance and Morphology of Intraguild Predators ( <i>Lampropeltis</i> ) and their Prey ( <i>Pantherophis</i> )	531	EE - <u>Beth Bowers</u> , Stephen Kajiura Migratory Behavior of the Blacktip Shark, <i>Carcharhinus limbatus</i>	2:45 PM
<b>BREAK - Acadia/Bissonet</b>				<b>3:00 PM</b>
	ASIH STOYE PHYSIOLOGY & PHYSIOLOGICAL ECOLOGY/ GENERAL HERPETOLOGY		ASIH STOYE ECOLOGY & ETHOLOGY/ GENERAL HERPETOLOGY	SESSION/ SYMPOSIUM
	MARK MERCHANT		FRANK PEZOLD	MODERATOR
231	PPE - <u>Tanner Shea</u> , Mason DuBois, Natalie Claunch, Nicolette Murphey, et al Testing the oxygen limitation hypothesis for the thermal tolerance of an air-breathing vertebrate	1030	EE - <u>Kristen Dahl</u> , William Patterson III, Richard Snyder Experimental assessment of lionfish removals to mitigate reef fish community shifts on northern Gulf of Mexico artificial reefs	3:30 PM
456	PPE - <u>Mason DuBois</u> , Tanner Shea, Natalie Claunch, Rob Brewster, Emily Taylor Testing the Oxygen Limitation Hypothesis in two <i>Sceloporus</i> Lizards	937	EE - <u>Amanda Kissel</u> , Wendy Palen, Maureen Ryan, Mike Adams Adding up the stage-specific effects of climate change for montane amphibians	3:45 PM
627	PPE - <u>Laura Ellis</u> , Walt Golet, James Sulikowski Utilizing Steroid Hormones Within the Skeletal Muscle Tissue to Determine Sex-specific Ratios of Atlantic Bluefin Tuna ( <i>Thunnus thynnus</i> ) in the Gulf of Maine	823	EE - <u>Jason R. Bohenek</u> , William J. Resetarits Jr. Density-dependent polyphenisms are mediated by chemical cues in <i>Notophthalmus viridescens louisianensis</i>	4:00 PM
448	PPE - <u>Hannah McCurdy-Adams</u> , Gabriela Mastromonaco, Jeff Hathaway, Jacqueline Litzgus Do Anthropogenic Factors or Sex Have a Greater Effect on Chronic Stress in Freshwater Turtles?	124	EE - <u>Joshua Hubbell</u> , Jake Schaefer Occupancy Modeling of the Yazoo Darter within the Upper Yazoo River System	4:15 PM
559	PPE - <u>Jenna Crovo</u> , Carol Johnston Acoustic Modulation of Gonadal Hormones in a Cyprinid Fish	334	EE - <u>Mattie Lewis</u> , Mollie Cashner Seeing Red: Examining Color Vision in a Nest Host, the Creek Chub, and the Role of Red in Interspecific Communication in Nest Association	4:30 PM
925	<u>Leah Perez</u> , James Childress, Matthew Kwiatkowski, Daniel Saenz, Jennifer Gumm Calling behavior and call structure of sympatric treefrogs in eastern Texas	503	<u>Brandon LaBumbar</u> , Molly Bletz, Kate Chaplin, Doug Woodhams Inhibition of pathogenic fungi using volatile organic compounds produced by bacteria	4:45 PM
957	<u>Gavia Lertzman-Lepofsky</u> , Amanda Kissel, Wendy Palen Desiccation Risk of Alpine Amphibians	458	<u>Alexander Shepack</u> , Alessandro Catenazzi Prevalence of <i>Batrachochytrium dendrobatidis</i> in rebounding and remnant amphibian populations	5:00 PM
				5:15 PM

PPE = ASIH Stoye Physiology & Physiological Ecology

EE = ASIH Stoye Ecology & Ethology

# Oral Presentations - Thursday, 7 July - Afternoon

ROOM		<i>Salon E</i>		<i>Salon F-H</i>
SESSION/ SYMPOSIUM		ASIH STOYE CONSERVATION		ASIH STOYE GENERAL ICHTHYOLOGY
MODERATOR		GINNY ADAMS		MELANIE STIASSNY
1:30 PM	193	<b>C - <u>Annalee Tutterow</u>, Shannon Pittman, Gabrielle Graeter, Michael Dorcas</b> The State of North Carolina Bog Turtle Populations: Assessing Bog Turtle Population Demography and Landscape Factors Affecting Their Persistence	1026	<b>GI - <u>Brittany Furtado</u>, Jessie Green, Loren Stearman, Ginny Adams, Reid Adams</b> Investigating the Effect of Unconventional Natural Gas Development on Fish Population Size Structure
1:45 PM	368	<b>C - <u>Donnell Gasbarrini</u>, David Lesbarrères, Anna Sheppard, Ed Morris, Jacqueline Litzgus</b> Examining Long Term Consequences of a Mass Mortality Event in the Long-Lived Species, <i>Emydoidea blandingii</i>	690	<b>GI - <u>Andréa T. Thomaz</u>, Mark R. Christie, L. Lacey Knowles</b> Riverscape genetics: modeling genomic expectations to test hypotheses about river network architecture as drivers of evolutionary dynamics in aquatic populations
2:00 PM	209	<b>C - <u>Michelle E. Thompson</u>, Maureen A. Donnelly</b> Recovery of Amphibian Communities in Regenerating Forest: Two Case Studies in Riparian and Upland Habitats of Secondary Forest, Costa Rica	395	<b>GI - <u>Elyse Parker</u>, Kyle Piller</b> Historical biogeography of the livebearing splittfins (Cyprinodontiformes: Goodeinae) in the Mesa Central
2:15 PM	16	<b>C - <u>Molly Grace</u>, Daniel Smith, Reed Noss</b> Patterns of Anuran Abundance near Roads are Explained by Life History Traits	396	<b>GI - <u>D. Cooper Campbell</u>, Kyle R. Piller</b> Let's Jump In: A Phylogeographic Study of the Great Basin Springfishes and Poolfishes, <i>Crenichthys</i> and <i>Empetrichthys</i> (Cyprinodontiformes: Goodeidae)
2:30 PM	599	<b>C - <u>Calvin Won</u>, Larry Allen</b> Moonlit Summer Love: Exploring the lunar effect on spatial patterns of spawning Barred Sand Bass	844	<b>GI - <u>Jessica Grady</u>, Courtney Weyand, Zachary Holtel, Eva Urdiales, C.M. Gienger, Rebecca Blanton</b> Scale shape variation in a speciose and highly imperiled group of fishes, the darters (Percidae: Etheostomatinae)
2:45 PM	591	<b>C - <u>Brenton Spies</u>, David Jacobs, Camm Swift, Ryan Ellingson</b> Evolution, Speciation, and Endangerment of the Tidewater Gobies	197	<b>GI - <u>Kimberly Foster</u>, Kyle Piller</b> Morphology of trophotaeniae within the subfamily Goodeinae (Goodeidae: Cyprinodontiformes)
3:00 PM		<b>BREAK - Acadia/Bissonet</b>		
SESSION/ SYMPOSIUM		ASIH STOYE CONSERVATION/ GENERAL HERPETOLOGY		ASIH STOYE GENERAL ICHTHYOLOGY/ GENERAL HERPETOLOGY
MODERATOR		BROOK FLUKER		MARK PETERSON
3:30 PM	352	<b>C - <u>Kenny Jones</u>, Brook Fluker, Bernard Kuhajda</b> Conservation Genetics of the Blueface Darter ( <i>Etheostoma</i> sp. cf. <i>zonistium</i> ), a Rare Undescribed Fish in Northwest Alabama	311	<b>GI - <u>William Ludt</u>, Corinne Myers</b> What drives anti-tropical distributions across the fish tree of life?
3:45 PM	384	<b>C - <u>Kelly M. Halloran</u>, Jacquelyn C. Guzy, Jessica A. Homyack, John D. Willson</b> Effect of Timber Harvest on Survival and Movement of the Ouachita Dusky Salamander ( <i>Desmognathus brimleyorum</i> )	404	<b>GI - <u>Diego Elias</u>, Kyle Piller</b> Digging through the trash: A phylogenetic examination of the Threadfin Shad, <i>Dorosoma petenense</i> (Günther 1867)
4:00 PM	874	<b>C - <u>Heather Saco</u>, Ginny Adams, Reid Adams</b> Changes in Land Use and Fish Assemblages in Four Ozark Highland Streams over Four Decades	601	<b>GI - <u>Kirill Vinnikov</u></b> Complete Phylogeny of the Righteye Flounders (Teleostei: Pleuronectidae) Provides the New Evidence for Vicariant Speciation Event after the Bering Strait Opening
4:15 PM	483	<b>C - <u>Erica Rottmann</u>, Kyle Piller</b> Searching for a Needle in a Haystack: Environmental DNA (eDNA) Detection of Rare Fishes in the Pearl River	316	<b>GI - <u>Lesley Kim</u>, James Albert, Jack Craig</b> A New Species of Gymnotus Electric Fish (Teleostei: Gymnotiformes) from the Rio Aripuanã and Diversification of the G2 Clade
4:30 PM	455	<b>C - <u>William Childress</u>, Terrence Tiersch</b> Conservation of Aquatic Species: On-site Cryopreservation From a Mobile Laboratory	428	<b>GI - <u>Jack Craig</u>, Lesley Kim, Jorge Casciotta, William Crampton, James Albert</b> Further Deconstruction of Gymnotus carapo (Gymnotiformes, Teleostei): Delimiting Clades, Species and Subspecies of a Neotropical Electric Fish
4:45 PM	364	<b>C - <u>Julia Sonn</u>, Cori Richards-Zawacki</b> The Influence of Temperature on Chytridiomycosis In Vivo	821	<b>GI - <u>Francesco Janzen</u>, Mark Sabaj-Pérez, Javier Maldonado-Ocampo, William Crampton, Nathan Lovejoy</b> Molecular phylogeny of the Neotropical weakly-electric fishes of the order Gymnotiformes (Actinopterygii)
5:00 PM	446	<b><u>Zachary Martin</u>, Matthew Lattanzio</b> Factors Affecting Morphological Variation in Common Garter Snakes ( <i>Thamnophis sirtalis</i> ) in the Southeastern US	616	<b><u>Zachary Rivas</u>, Anna Savage</b> Exploring the Relationship between A. hydrophila and B. dendrobatidis in Two Species of North American Anurans
5:15 PM	528	<b><u>Roman Nava-Landeros</u>, Andrés Vega, Kris Kaiser, Jeanne Robertson</b> Local Standard of Beauty: Non-clinal Assortative Mating Along a Red-eyed Treefrog Cline	373	<b><u>Adam Parlin</u>, José Pedro Sousa do Amaral, Paul Schaeffer, Hank Stevens</b> Thermoregulatory Performance of Eastern Box Turtles ( <i>Terrapene carolina carolina</i> ) in Southwest Ohio

# Oral Presentations - Thursday, 7 July - Afternoon

	<i>Balconies J &amp; K</i>		<i>Balconies L &amp; M</i>	ROOM
	AES GRUBER		AES ECOLOGY & BEHAVIOR I	SESSION/ SYMPOSIUM
	JIM GELSLEICHTER		CHRIS LOWE	MODERATOR
1041	<u>Johanna Imhoff</u> , R. Dean Grubbs Comparative Mercury Contamination in Demersal Deep Sea Sharks in the Gulf of Mexico	335	<u>Christopher G. Lowe</u> , Connor White, Ryan Logan, Armand Barillotti, et al Nearshore movements of juvenile white sharks off southern California	1:30 PM
1024	<u>Danielle Bailey</u> , Jill Hendon, Andrew Evans Species-specific Variation in Elasmobranch Interrenal Morphology, Histology, and Steroid Synthesis	260	<u>Oliver Shipley</u> , Emily Tolentino, Lucy Howey-Jordan, Lance Jordan, Edward Brooks Pop-up satellite archival tags reveal the extent of post-release survivorship and vertical habitat use in a data-deficient, deep-water chondrichthyan, the Cuban dogfish ( <i>Squalus cubensis</i> )	1:45 PM
964	<u>Jacob Jerome</u> , Austin Gallagher, Neil Hammerschlag Integrating Physiological and Behavioral Biomarkers of Fishing Capture Stress in Coastal Shark Species	57	<u>Andrew Nosal</u> , Daniel Cartamil, Chi Lam, Philip Hastings Movement Ecology of Juvenile Blue ( <i>Prionace glauca</i> ) and Mako Sharks ( <i>Isurus oxyrinchus</i> ) Off Southern California and Baja California, Mexico	2:00 PM
739	<u>Ashley Stoehr</u> , Jeanine Donley, Scott Aalbers, Doug Syme, et al Thermal sensitivity of red muscle function in a deep-diving shark	61	<u>Michelle Heupel</u> , Colin Simpfendorfer Drivers of reef shark movement: what's most important?	2:15 PM
519	<u>Sarah Luongo</u> , Christopher G. Lowe Feelin' the Heat, Seasonally Acclimated Metabolic Q <sub>10</sub> of the California Horn Shark, <i>Heterodontus francisci</i>	1034	<u>Nigel Hussey</u> , Amanda Barkley, Jack Orr, Robert Hodgson, et al Tracking the impossible at depth: mark-recapture satellite tags reveal a large-scale directed migration of Greenland sharks	2:30 PM
227	<u>Jillian Sawyna</u> , Weston Spivia, Kelly Radecki, Deborah Fraser, Christopher Lowe Examination of the Potential Association Between Chronic Organochlorine Exposure and Immunotoxicity in the Round Stingray ( <i>Urobatis halleri</i> )	861	<u>Danielle Quinn</u> , <u>Julia Whidden</u> , Trevor Avery Quantifying and Interpreting Evidence of School and Site Fidelity of Little Skate ( <i>Leucoraja erinacea</i> ) and Winter Skate ( <i>Leucoraja ocellata</i> ) in a Spatially Confined Area in the Bay of Fundy, Canada	2:45 PM
<b>BREAK - Acadia/Bissonet</b>				<b>3:00 PM</b>
	AES GRUBER		AES ECOLOGY & BEHAVIOR I	SESSION/ SYMPOSIUM
	IVY BAREMORE		MARCUS DRYMON	MODERATOR
200	<u>Samantha Ehnert</u> , Jim Gelsleichter Mercury Accumulation and Effects in the Brain of Atlantic Sharp-nose Sharks ( <i>Rhizoprionodon terraenovae</i> )	407	<u>Rachel Skubel</u> , Neil Hammerschlag Estimates of apex predatory sharks' energetic scope from long-term multi-sensor tags, and applications to climate change	3:30 PM
7	<u>John Whalen</u> , Jim Gelsleichter Multibiomarker evaluation of pollutant effects in Atlantic stingray ( <i>Dasyatis sabina</i> ) populations in Florida's St. Johns River	190	<u>Elena Tamburin</u> , Mauricio Hoyos Padilla, Felipe Galvan Magaña, Soran King, et al Trophic habitat of mako and white shark in a nursery area	3:45 PM
743	<u>Hannah Calich</u> , Neil Hammerschlag Quantifying Distribution and Environmental Preferences of Apex Predatory Sharks in the Western Atlantic Ocean	430	<u>Lara Marcus</u> , Patti Virtue, Peter Nichols, Mark Meekan, Heidi Pettybridge Trophic Ecology of a Whale Shark Aggregation at Ningaloo Reef, Western Australia: a Stable Isotope Approach	4:00 PM
371	<u>Ornella Celine Weideli</u> , Yannis Papastamatiou, Mahmood Shivji, Michael Heithaus, et al Resource Partitioning and Competition in a Mutually Used Shark Nursery	595	<u>Brad Norman</u> , Samantha Reynolds, David Morgan Does the whale shark aggregate along the Western Australian coastline beyond Ningaloo Reef?	4:15 PM
30	<u>David Shiffman</u> , Neil Hammerschlag Intraspecific Variation in the Relative Diet Breadth and Overlap of Coastal Sharks Revealed Through Stable Isotope Analysis	919	<u>Alistair Dove</u> , Harry Webb, Rafael De la Parra-Venegas, Christian Schreiber, et al St Helena Island provides important habitat for whale sharks	4:30 PM
774	<u>Robert Nowicki</u> , Michael Heithaus Response of an apex predator, the tiger shark, <i>Galeocerdo cuvier</i> , to widespread seagrass decline	288	<u>J. Marcus Drymon</u> , John Froeschke, Andrea Kroetz, John Mareska, Sean Powers Sex-specific seasonal changes in community dynamics of a northern Gulf of Mexico coastal shark assemblage	4:45 PM
		894	<u>Patricia Zarate</u> , Carlos Montenegro, Daniel Devia Preliminary results on the horizontal and vertical movements of <i>Lamna nasus</i> in the South East Pacific	5:00 PM

# Oral Presentations - Friday, 8 July - Morning

ROOM		Galerie 2		Galerie 3
SESSION/ SYMPOSIUM		HL GRADUATE RESEARCH AWARD		SSAR SEIBERT CONSERVATION
MODERATOR		JOHN STEFFEN		BLAKE HOSSACK
8:00 AM	872	HL - <u>Sarah A. Smiley-Walters</u> , Terence M. Farrell, H. Lisle Gibbs Venoms of Pigmy Rattlesnakes ( <i>Sistrurus miliarius</i> ) Show Significant Functional Differences on Prey Mortality	632	C - <u>Sean Boyle</u> , Chantal Barriault, Jacqueline Litzgus, David Lesbarreres The Quantifiable Value of Outreach to Herpetofaunal Conservation
8:15 AM	515	HL - <u>Lori Monday</u> , Alex Ano, W.B. Cash A Novel Approach to Quantifying Melanism in the Red-Eared Slider Turtle ( <i>Trachemys scripta elegans</i> )	313	C - <u>Christopher Schalk</u> , Daniel Saenz Dynamics in anuran calling phenology: implications for surveys and monitoring programs
8:30 AM	500	HL - <u>Shashwat Sirsi</u> , Shailendra Singh, Shawn F. McCracken, Michael R.J. Forstner Variation in Reproductive Output of two Endangered Freshwater Turtles ( <i>Batagur</i> spp.) in North India	245	C - <u>Matthew Atkinson</u> , Joseph Pechmann, Robin Overstreet, John Tupy Gosner stage may influence survival of the Southern Leopard Frog ( <i>Rana sphenocephala</i> exposed to the protist parasite <i>Dermomyxoides</i> sp)
8:45 AM	839	HL - <u>Chelsea E. Clyde-Brockway</u> , Nathan J. Robinson, Gabriela S. Blanco, Stephen J. Morreale, James R. Spotila, et al Comparing The Behavior of East Pacific Green Turtles From Two Neighboring Beaches in Pacific Costa Rica	400	C - <u>Jean Elbers</u> , Mary Brown, Sabrina Taylor Tortoise immunomes shed light on genetic variation underlying infectious disease
9:00 AM	828	HL - <u>Jenell Black</u> , Frank V. Paladino, Nathan J. Robinson, Laurie Mauger Size class distribution of the American crocodile ( <i>Crocodylus</i> <i>acutus</i> ) in a mangrove estuary on the Pacific coast of Costa Rica	948	C - <u>Chava Weitzman</u> , Franziska Sandmeier, C. Richard Tracy Presence and diversity of <i>Mycoplasma agassizii</i> in the threatened <i>Gopherus agassizii</i>
9:15 AM	290	HL - <u>Kristin Winchell</u> , Elizabeth Carlen, Liam Revell Urban Habitat Partitioning by Two Common Species of Puerto Rican Anoles	814	C - <u>Anne Stengle</u> , Paul Sievert, Tom Tynning, Alan Richmond Conserving Snake Species of Greatest Conservation Need Threatened by an Emerging Fungal Skin Disease
9:30 AM		BREAK - Acadia/Bissonet		
SESSION/ SYMPOSIUM		HL GRADUATE RESEARCH AWARD/ SSAR SEIBERT ECOLOGY		SSAR SEIBERT PHYSIOLOGY & MORPHOLOGY
MODERATOR		DAVID CANNATELLA		JENNIFER DEITLOFF
10:00 AM	944	HL - <u>Jennie Mook</u> , Eric Schaubert, Raymond Moody Using Harmonic Radar to Estimate Home Range Movements in Hatchling Texas Horned Lizards	966	PM - <u>Corey Cates</u> , Daniel Warner Long Term Effects of Incubation Moisture on Desiccation Rate in the Brown Anole Lizard ( <i>Anolis sagrei</i> )
10:15 AM	884	HL - <u>Richard Kim</u> , Brian Halstead, Eric Routman, Michael Casazza, Julie Andersen Dietary Patterns in the Endangered San Francisco Gartersnake Revealed by Analysis of Prey DNA from Fecal Samples	907	PM - Catherine Tylan, Kiara Camacho, Sean Graham, <u>Mark Herr</u> , et al Collecting baseline corticosterone samples in reptiles and amphibians: is under 3 minutes good enough?
10:30 AM	243	HL - <u>Mark Sandfoss</u> , Coleman Sheehy III, Harvey Lillywhite Collapse of a Unique Bird-Snake Mutualism on Seahorse Key, Florida	215	PM - <u>Lucas Kirschman</u> , Robin Warne Critical Windows of Development: The Consequences of Physiological Stress and Phenotypic Plasticity in Larval Amphibians
10:45 AM	520	HL - <u>Nassima M. Bouzid</u> , James W. Archie, Roger A. Anderson, Jared A. Grummer, et al Inferring demographic history and adaptive potential of <i>Sceloporus</i> <i>occidentalis</i> using genome-wide SNP data	366	PM - <u>Daniel Paluh</u> , Aaron Bauer Through Thick and Thin: Comparative Skull Anatomy of Terrestrial and Crevice-dwelling <i>Trachylepis</i> Skinks (Squamata: Scincidae) using microCT
11:00 AM	328	E - <u>Kelley A. Fritz</u> , Lucas J. Kirschman, Matt R. Whiles Influence of Amphibians on Energy and Nutrient Fluxes across Aquatic-Terrestrial Boundaries of Temporary Ponds	108	PM - <u>Francois Clarac</u> , Vivian de Buffr�n�l, Christopher Brochu, Jorge Cubo Bone ornamentation: An ecological adaption in the history of the crocodylian lineage?
11:15 AM	228	E - <u>Katharine Yagi</u> , David Green Mechanisms of Density-Dependent Dispersal in Juvenile Fowler's toads, <i>Anaxyrus fowleri</i>	144	PM - <u>Aaron Griffing</u> , Juan Daza, Aaron Bauer Developmental Osteology of Parafrontal Bones in <i>Aristelliger</i> and <i>Teratoscincus</i> (Squamata: Sphaerodactylidae)
11:30 AM	383	E - <u>Jacob Burkhardt</u> , Chelsey Kroese, Raymond Semlitsch, Lori Eggert Range Wide Genetic Diversity of the Ringed Salamander	183	PM - <u>John Konvalina</u> , Jonathan Stanley, Stanley Trauth Sperm Morphometric Comparison of Two Snake Species in the Family Colubridae
11:45 AM				
12:00 PM		LUNCH ON YOUR OWN		

HL = HL Graduate Research Award  
E = SSAR Seibert Ecology

C = SSAR Seibert Conservation  
PM = SSAR Seibert Physiology & Morphology

# Oral Presentations - Friday, 8 July - Morning

	<i>Salon A-C</i>		<i>Salon D</i>	ROOM
	<b>NIA BEST STUDENT PAPER</b>		<b>HERP BIOGEOGRAPHY</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>NORMA SALCEDO</b>		<b>ERIC RITTMAYER</b>	<b>MODERATOR</b>
70	<b>NIA - <u>Sarah E. Steele</u>, Hernán López-Fernández</b> Examining the Role of Ontogeny and Body Size Evolution in the Diversification of Neotropical Cichlid Fishes	34	<b><u>Adam Leache</u>, Jared Grummer, Ian Breckheimer</b> A Decadal Comparison of Hybrid Zone Dynamics in the Plateau Fence Lizard ( <i>Sceloporus tristichus</i> ) in Arizona	8:00 AM
237	<b>NIA - <u>Bethany N. Coffey</u>, Timothy C. Tricas</b> Context Clues: changes in vocal behaviors of triggerfish between interactions with conspecifics and predators	66	<b><u>Alex Pyron</u></b> Integrating phylogenomic and morphological data to assess candidate species-delimitation models in Brown and Red-bellied snakes ( <i>Storeria</i> )	8:15 AM
437	<b>NIA - <u>Michael Burns</u></b> Body Shape Convergence and Rates of Morphological Diversification in the Order Characiformes	1097	<b><u>Eric Rittmeyer</u></b> Comparative Biogeography of Reptiles Across the Torres Strait	8:30 AM
631	<b>NIA - <u>Bárbara Calegari</u>, Richard Vari, Roberto Reis</b> Phylogenetic Systematics of the Driftwood Catfishes (Situriformes: Auchenipteridae): A Combined Morphological and Molecular Analysis.	329	<b><u>Andrew Gottscho</u>, Brad Hollingsworth, Julio Lemos-Espinal, Tod Reeder</b> Phylogeography of Peninsular Brush Lizards (Squamata: Phrynosomatidae: <i>Urosaurus</i> ) in Baja California, Mexico using Restriction-Associated DNA Sequencing	8:45 AM
746	<b>NIA - <u>Frances Hauser</u>, Katriina Ilves, Ryan Schott, Hernan Lopez-Fernandez, Belinda Chang</b> Evolutionary Dynamics of the Dim-Light Visual Pigment in Neotropical Cichlid Fishes	1012	<b><u>Catherine Newman</u>, Christopher Austin</b> Reconstructing the evolutionary history of a large-genome salamander, <i>Plethodon serratus</i> , using next-generation sequencing of ultraconserved elements	9:00 AM
831	<b>NIA - <u>Maxwell Bernt</u></b> Diversification in the Deep Channels: Molecular Phylogeny of the Ghost Knifefishes (Gymnotiformes: Apterontidae)	568	<b><u>Sean Harrington</u></b> Phylogeographic structure within the Red Diamond Rattlesnake ( <i>Crotalus ruber</i> ) of Baja California: A genomic perspective based on RADseq data	9:15 AM
<b>BREAK - Acadia/Bissonet</b>				<b>9:30 AM</b>
	<b>ASIH STOYE GENETICS, DEVELOPMENT, &amp; MORPHOLOGY</b>		<b>HL, ASIH, SSAR; ECO-EVOLUTIONARY DYNAMICS SYMPOSIUM</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>JAMES ALBERT</b>		<b>DAVID GREEN</b>	<b>MODERATOR</b>
793	<b>GDM - <u>Jessica Maxfield</u>, Kathleen Cole</b> Genetic and Morphological Changes in Sexually Hermaphroditic Fishes Going From Ova to Sperm Production	4	<b><u>David Green</u>, Andrew Hendry</b> Eco-evolutionary dynamics - Introduction to the symposium	10:00 AM
1040	<b>GDM - <u>Robert D. Cooper</u>, H. Bradley Shaffer</b> Connecting Heat Stress and Gene Expression to Explain Pervasive Hybridization of California Tiger Salamanders			10:15 AM
1036	<b>GDM - <u>Evan McCartney-Melstad</u>, Jannet Vu, H. Bradley Shaffer</b> Exon Capture Reveals Insights into the Conservation Status and Genome Organization of the Endangered California Tiger Salamander	85	<b><u>Marissa Baskett</u></b> Accounting for eco-evolutionary dynamics in management decision-making	10:30 AM
662	<b>GDM - <u>Ashley N. Marranzino</u>, Jacqueline F. Webb</b> Lateral Line Canals and Superficial Neuromasts in Stomiiform Fishes			10:45 AM
875	<b>GDM - <u>Amber Lisi</u>, Ken Oliveira</b> Reduction of Intestinal Tissue in Metamorphosing <i>Anguilla rostrata</i> : a histological study	162	<b><u>Eric Palkovacs</u>, David Fryxell</b> Some Like It Hot: Thermal Adaptation Exacerbates the Ecological Consequences of Warming	11:00 AM
176	<b>GDM - <u>Kory Evans</u>, Brandon Waltz, Prosanta Chakrabarty, James Albert, Victor Tagliacollo</b> Modularity begets brachycephaly: Repeated patterns of neurocranial evolution in Neotropical electric fishes			11:15 AM
788	<b>GDM - <u>Matthew Holding</u>, Lisle Gibbs</b> Migration, Drift, and the Outcomes of Coevolution between a Rattlesnake and its Venom-resistant Prey	741	<b><u>Suzanne Kelson</u>, Michael Miller, Stephanie Carlson</b> Eco-evolutionary dynamics in a Pacific salmonid: Connecting genotypes to ecological effects	11:30 AM
286	<b>GDM - <u>Daniel Geldof</u>, Nicholas Gidmark</b> Heterochrony in two sculpins of the genus <i>Psychrolutes</i> : growth outpaces skeletal development in an apex predator among ichthyoplankton			11:45 AM
<b>LUNCH ON YOUR OWN</b>				<b>12:00 PM</b>

NIA = NIA Best Student Paper

GDM = ASIH Stoye Genetics, Development, & Morphology

# Oral Presentations - Friday, 8 July - Morning

ROOM		<i>Salon E</i>		<i>Salon F-H</i>
SESSION/ SYMPOSIUM		ASIH STOYE ECOLOGY & ETHOLOGY		ASIH STOYE GENERAL HERPETOLOGY
MODERATOR		CRAIG LIND		MARK DAVIS
8:00 AM				
8:15 AM	72	EE - <u>Christina Baggett</u> , Carl Anthony, Cari-Ann Hickerson, Richard Feldhoff  Population-level Variation in a Pheromone Complex Across Species' Geographic Range	749	GH - <u>Travis Moe</u> , Patrick Brown  A Review of Studies of Neonicotinoid Effects on Anurans
8:30 AM	970	EE - <u>Johana Goyes-Vallejos</u> , Kentwood Wells, T. Ulmar Grafe  Parental care behavior in males of the Smooth Guardian Frog <i>Limnodynastes palavanensis</i> of Borneo	389	GH - <u>Danielle H. Drabeck</u> , Antony M. Dean, Sharon A. Jansa  Convergent evolution of venom targeted nicotinic acetylcholine receptors in mammals that survive venomous snake bites
8:45 AM	250	EE - <u>Sophia Bonjour</u> , Matt Whiles, Keith Gido  Influences of Fishes on Insect Colonization of Prairie Stream Pools	45	GH - <u>Anat Belasen</u> , Felipe Toledo, Tim James  How does habitat fragmentation affect disease susceptibility? Examining the relationship between land-use and amphibian resilience in Brazilian forests
9:00 AM	31	EE - <u>Mackenzie Gerringer</u> , Thomas Linley, Alan Jamieson, <del>Jeffrey Drazen</del> <b>CANCELED</b> Feeding Ecology of Abyssal and Hadal Fishes	244	GH - <u>Helen Plylar</u> , Clifford Fontenot  Eye:body Allometry and Scaling: Do Small Snakes Really Have Big Eyes?
9:15 AM	973	EE - <u>Brian Clark</u> , Larry Allen  Courting Behavior of Giant Sea Bass, <i>Stereolepis gigas</i>	510	GH - <u>Christina Feng</u> , Dave Mauger, Jason Ross, Michael Dreslik  A Long-Term Demographic Analysis of Spotted Turtles ( <i>Clemmys guttata</i> ) in Illinois
9:30 AM		BREAK - Acadia/Bissonet		
SESSION/ SYMPOSIUM		ASIH STOYE ECOLOGY & ETHOLOGY/ FISH ECOLOGY		ASIH STOYE GENERAL HERPETOLOGY
MODERATOR		MOLLIE CASHNER		TIFFANY SCHRIEVER
10:00 AM	983	EE - <u>Thomas Smith</u>  I Come From the Land Down Under: Ecological Niche Modeling of Hierarchical Spatial Scales to Predict the Range of an Invasive Skink in Hawaii	468	GH - <u>Joshua Cahal</u>  Cladistic Biogeography of North American Dinosaurs
10:15 AM	331	EE - <u>Jason Ross</u> , Michael Dreslik  Spatial Ecology of the Smooth Softshell Turtle ( <i>Apalone mutica</i> ) in the Kaskaskia River of Illinois	965	GH - <u>Derek B. Tucker</u> , S. Blair Hedges, Guarino R. Colli, R. Alexander Pyron, Jack W. Sites, Jr.  A Fossil-Calibrated Time Tree of Teiid Lizards and Historical Biogeography of the West Indian Ameiva (Teiidae: Squamata)
10:30 AM	424	EE - <u>Cindy Marin Martinez</u> , Eric Hilton  Larval Fish Assemblage Dynamics in the York River Estuary	820	GH - <u>Genevieve Mount</u> , Jeremy Brown  Climbing the Squamate Tree of Life: Do our current models provide robust trees?
10:45 AM	146	EE - <u>Thomas Sevick</u> , Jake Schaefer  Effect of fragmentation and habitat type on the abundance and diversity of nekton in coastal Mississippi	304	GH - <u>Mariana Vasconcellos</u> , Guarino Colli, Miguel Rodrigues, David Cannatella <b>CANCELED</b> Historical Climate Change Shapes Population Structure and Genomic Divergence of Treefrogs in the Neotropical Cerrado Savanna
11:00 AM	845	EE - <u>Alison Enchelmaier</u> , Neil Hammerschlag  Fish Diversity and Abundance in a Restored Mangrove Habitat	477	GH - <u>Dan Greenberg</u>  Historical Diversification and Contemporary Extinction in Amphibians
11:15 AM	56	EE - <u>Lindsey Bruckerhoff</u> , Doug Leasure, Daniel Magoulick  Spatial Auto-correlation of Fish Traits across Hydrologic Regimes and Implications for Developing Ecological-flow Relationships	1064	GH - <u>Edward Myers</u> , Frank Burbrink  Asynchronous diversification of snakes in the North American Warm Deserts
11:30 AM	740	EE - <u>Hilary B. Rollins</u> , Michael F Benard  How do climate-change induced phenological shifts alter terrestrial competition between two amphibians?	943	GH - <u>Hollis Dahn</u> , Alejandra Osorio, Jason Strickland, Christopher Parkinson  Comparative Phylogeography of <i>Arizona elegans</i> and <i>Rhinocheilus lecontei</i> : Two Perspectives on North American Desert Biogeography
11:45 AM	198	<u>Jessica Sanchez</u> , Joel Trexler  Testing a hypothesis for the evolution of herbivory using the Sailfin Molly ( <i>Poecilia latipinna</i> ) in the Florida Everglades	473	GH - <u>Phillip Skipwith</u> , Paul Oliver  Phylogeography of the marbled velvet gecko ( <i>Oedura marmorata</i> ) species complex in the Australian Monsoonal Tropics
12:00 PM		LUNCH ON YOUR OWN		

# Oral Presentations - Friday, 8 July - Morning

	<i>Balconies J &amp; K</i>		<i>Balconies L &amp; M</i>	ROOM
	AES GRUBER		AES CONSERVATION & MANAGEMENT I	SESSION/ SYMPOSIUM
	COLIN SIMPFENDORFER		ENRIC CORTES	MODERATOR
826	<b>G - <u>Robert Edman</u>, Gorka Sancho, Bryan Frazier, Wally Bublely, John Kucklick</b> Movement Patterns and Trophic Ecology of Tiger Sharks ( <i>Galeocerdo cuvier</i> ) Caught off the Southeast Coast of the United States	143	<b><u>Karyl Brewster-Geisz</u></b> Recent changes in Atlantic Shark Management in the United States	8:00 AM
675	<b>G - <u>Dan Crear</u>, Jill Hendon, Eric Hoffmayer</b> Identifying the drivers of juvenile shark abundance and distribution within the Mississippi Sound	184	<b><u>Enric Cortes</u>, Elizabeth Brooks</b> Predicting overfished and overfishing reference points with data-limited stock assessment methods and life history: application to shark stocks worldwide	8:15 AM
594	<b>G - <u>Luciana C Ferreira</u>, Michele Thums, Andre Afonso, Adam Barnett, et al</b> Global Patterns in the Movements and Habitat Use of tiger sharks	1075	<b><u>Geoffrey Osgood</u>, Easton White, Julia Baum</b> The influence of shark population characteristics on statistical inference of population trends	8:30 AM
521	<b>G - <u>Carl Meyer</u>, Kim Holland, Melanie Hutchinson, James Anderson, et al</b> New Insights into Coastal Habitat Use By Tiger Sharks In Hawaii	1042	<b><u>Brian Moe</u>, Paul Venturelli</b> Modeling elasmobranch growth: an application of biphasic growth theory	8:45 AM
942	<b>G - <u>Charles Bangley</u>, Roger Rulifson</b> The Importance of Raleigh Bay as Overwintering Habitat for Juvenile Sandbar Sharks ( <i>Carcharhinus plumbeus</i> )	337	<b><u>Andrew Chin</u>, Michelle Heupel, Colin Simpfendorfer, William White</b> Crossing lines: a Multidisciplinary Framework for Migratory Hammerhead Sharks across Jurisdictional Boundaries	9:00 AM
170	<b>G - <u>Alexander Hansell</u>, Steven Kessel, Steven Cadrin, Gregory Skomal, et al</b> Demographics and Local Abundance Trends for the Coastal Shark Assemblage of Bimini, Bahamas	155	<b><u>Janne B. Haugen</u>, Steven X. Cadrin, Alexander C. Hansell, Sofia M. Gabriel, et al</b> Evaluating the Impacts of CITES on the Northeast Atlantic Porbeagle ( <i>Lamna nasus</i> ) Stock	9:15 AM
<b>BREAK - Acadia/Bissonet</b>				9:30 AM
	AES GRUBER		AES MORPHOLOGY & REPRODUCTION	SESSION/ SYMPOSIUM
	RAMON BONFIL		JAMES SULIKOWSKI	MODERATOR
220	<b>G - <u>Cassandra Ruck</u>, Andrea Bernard, Fabio Hazin, Rima Jabado, Mahmood Shivji</b> Global-Scale Genetic Population Structure and Diversity in the Oceanic Whitetip Shark, <i>Carcharhinus longimanus</i>	747	<b><u>James Sulikowski</u>, Carolyn Wheeler, Bianca Prohaska, Neil Hammerschlag</b> Stick it where the sun don't shine: Advances in the non lethal study of elasmobranch reproductive biology for conservation management	10:00 AM
552	<b>G - <u>Sean Canfield</u>, Brian Bowen</b> Population Genetic Structure and Connectivity in the California Horn Shark ( <i>Heterodontus francisci</i> )	555	<b><u>Jose I. Castro</u>, Keiichi Sato, Ashby B. Bodine</b> A Novel Mode of Embryonic Nutrition in the Tiger Shark, <i>Galeocerdo cuvier</i>	10:15 AM
524	<b>G - <u>Matthew Davis</u>, Toby Daly-Engel</b> Atlantic Sharpnose Shark ( <i>Rhizoprionodon terraenovae</i> ) Rangewide Genetic Stock Structure	248	<b><u>Takekeru Tomita</u>, Chip Cotton, Minoru Toda</b> Gas diffusion model indicates that oxygen diffusion through uterine wall is insufficient to sustain dogfish embryo	10:30 AM
431	<b>G - <u>Pavel Dimens</u>, David Portnoy</b> Population structure of a migratory small coastal shark, the blacknose shark <i>Carcharhinus acronotus</i> , across cryptic barriers to gene flow	412	<b><u>Kady Lyons</u>, <u>Chris L. Chabot</u>, Corinne N. Paterson, Christopher G. Lowe</b> Who's My Daddy? Multiple Paternity and Evidence of Cryptic Female Choice in the Round Stingray ( <i>Urobatis halleri</i> )	10:45 AM
866	<b>G - <u>Amanda Barker</u>, Bryan Frazier, Douglas Adams, Jim Gelsleichter, David Portnoy</b> Identification and Relative Abundance of Cryptic Hammerhead Sharks	1062	<b><u>Jennifer Wyffels</u>, Linda M. Penfold</b> Comparative Morphology of Shark Sperm Using Light and Electron Microscopy	11:00 AM
1087	<b>G - <u>Melissa Giresi</u></b> One <i>Mustelus</i> , two <i>Mustelus</i> , three <i>Mustelus</i> , more; assessing biodiversity of smoothhound sharks in the western Atlantic	537	<b><u>Stephen Kajjira</u>, Rachel Berquist, Tricia Meredith, Lawrence Frank</b> Diffusion Tensor Magnetic Resonance Microscopy Reveals Novel Olfactory System Neural Organization in the Atlantic Stingray, <i>Dasyatis sabina</i>	11:15 AM
336	<b>G - <u>Madeline Green</u>, Blanche D'Anastasi, Jean-Paul Hobbs, Kevin Feldheim, et al</b> Population Connectivity of Narrow Sawfish ( <i>Anoxypristis cuspidata</i> ) in Australia and Papua New Guinea using genetic markers	905	<b><u>Christopher Martinez</u>, F. James Rohlf, Michael Frisk</b> Have We Been Underrepresenting the Morphological and Ecological Diversity of Skates?	11:30 AM
280	<b>G - <u>Jenny Kemper</u>, Gavin Naylor</b> A Species-Level Phylogeny of Chimaeroids Using Genomic Comparisons	546	<b><u>Joshua Moyer</u>, William Bemis</b> Shark Teeth as Edged Weapons: Serrated Teeth of Three Species of Selachians	11:45 AM
<b>LUNCH ON YOUR OWN</b>				12:00 PM

G = AES Gruber



# Oral Presentations - Friday, 8 July - Afternoon

ROOM		<i>Galerie 2</i>		<i>Galerie 3</i>
SESSION/ SYMPOSIUM		ASIH STOYE GENERAL ICHTHYOLOGY/ GENERAL ICHTHYOLOGY		SSAR SEIBERT CONSERVATION
MODERATOR		MIKE SANDEL		MARK HAYES
1:30 PM	586	<b>GI - <u>Edward Burress</u>, Jorge Casciotta, Oldrich Rican, Lubomír Piálek, et al</b>  Parallel Phenotypic Diversification and Rapid Speciation of <i>Crenicichla</i> Species Flocks: Riverine Analogs to the East African Great Lake Cichlids	504	<b>C - <u>Julia Ersan</u>, Brian Halstead, Erica Wildy, Mike Casazza, Glenn Wylie</b>  Giant Gartersnakes ( <i>Thamnophis gigas</i> ) Selectively Forage on Native Anurans, Despite High Abundance of Introduced Prey
1:45 PM	100	<b>GI - <u>Randy Singer</u>, Lawrence Page</b>  Jar Wars: The (data) Source Awakens: Exploring New Ichthyological Frontiers in Specimen-based Research, Education and Outreach	509	<b>C - <u>Jared Maida</u>, Christine Bishop, Mark Rakobowchuk, Karl Larsen</b>  Determining Rattlesnake ( <i>Crotalus oreganus oreganus</i> ) Response to Disturbance in British Columbia, Canada
2:00 PM	355	<b>GI - <u>Mary Rath</u>, Kenny Jones, Lindsey Martin, Alexsis Mross, et al</b>  Saving the Endangered Dead: a Comparison of Rehydration Methods for Desiccated Preserved Fish Specimens	694	<b>C - <u>Daniel Martin</u>, Cameron Aldridge, Larissa Bailey, Daniel Manier, Robert Reed</b>  Distributions of Reptiles in the Great Plains: Ecological Insight from Historical Observations
2:15 PM	137	<b>GI - <u>Allison Bronson</u>, John Maisey</b>  The first described cranium of <i>Carcharopsis wortheni</i> , from the Fayetteville Formation of Arkansas	888	<b>C - <u>Iain Emmons</u>, Erika Nowak</b>  Winter Habitat Use and Behavior of the Northern Mexican Gartersnake ( <i>Thamnophis eques megalops</i> ) in North-central Arizona
2:30 PM	417	<b>GI - <u>Rene Martin</u></b>  Morphological Variance in the Dentition on the Oral Jaws in Lanternfishes (Teleostei: Myctophiformes)	78	<b>C - <u>Sarah Manka</u>, Stephen Mullin</b>  Reducing Snake Mortality During Migration: The Utility of the Hose-bridge
2:45 PM	211	<b>GI - <u>Diego F B Vaz</u>, Eric J Hilton</b>  The caudal-fin skeleton of Batrachoidiformes (Teleostei: Percomorphacea) and its implications for the systematics of the order	251	<b>C - <u>Scott Buchanan</u>, Nancy Karraker, Bill Buffum</b>  Understanding the Influence of Altered Habitat: Modeling Occupancy of Aquatic Turtles in Rhode Island along a Gradient of Forest Cover
3:00 PM	550	<b>GI - <u>Kole Kubicek</u>, Ralf Britz, Kevin Conway</b>  Developmental Osteology of the Tadpole Madtom, <i>Noturus gyrinus</i>	507	<b>C - <u>Stephanie Winton</u>, Christine Bishop, Karl Larsen</b>  Assessing the Relationship between Habitat Temperature and Rattlesnake Road Mortality
3:15 PM	819	<b>GI - <u>Brian Pena</u>, Larry Allen</b>  Age Structure and Growth Rates of Vermilion Rockfish, <i>Sebastes miniatus</i> , Along the California Coast	808	<b>C - <u>Charlene Hopkins</u>, Shawn Kuchta, Willem Roosenburg</b>  Amphibians Hit the Road: Assessing Roadway Mortality and Ecopassage Utilization along a Two-lane Highway
3:30 PM	660	<b>GI - <u>Brandon Waltz</u>, Kory Evans</b>  Morphological and Molecular Variation in <i>Eigenmannia macrops</i> (Boulenger, 1897): A single widespread species or a cryptic species complex?	106	<b>C - <u>Nicole Angeli</u>, Lee Fitzgerald</b>  Prioritizing island landscapes for the repatriation of offshore populations with spatial and mechanistic modeling
3:45 PM	1035	<b><u>Michael Pauers*</u></b>  Two New and Remarkably Similarly Colored Species of <i>Labeotropheus</i> (Perciformes: Cichlidae) from Lake Malawi, Africa	1093	<b>C - <u>Eric McCluskey</u>, Thomas Hetherington</b>  Species distribution modeling in Michigan for the Eastern Massasauga Rattlesnake
4:00 PM	<b>POSTER SESSION I Acadia/Bissonet</b>			
5:00 PM				
6:00 PM				

GI = ASIH Stoye General Ichthyology

C = SSAR Seibert Conservation

\*Not part of ASIH Stoye General Ichthyology award competition.

# Oral Presentations - Friday, 8 July - Afternoon

	<i>Salon A-C</i>		<i>Salon D</i>	ROOM
	<b>SSAR SEIBERT SYSTEMATICS &amp; EVOLUTION</b>		<b>HL, ASIH, SSAR: ECO-EVOLUTIONARY DYNAMICS SYMPOSIUM</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>MATTHEW LATTANZIO</b>		<b>ANDREW HENDRY</b>	<b>MODERATOR</b>
116	<b>SE - <u>Audrey Matheny</u>, Gary Thomas, Laura Kimmel, Allyson Fenwick, Paul Stone</b>  Hitchhikers Guide to Population Genetics: Mediterranean Geckos ( <i>Hemidactylus turcicus</i> ) at the University of Central Oklahoma	1118	<b><u>Thomas Schoener</u>, Jason Kolbe, Manuel Leal, Jonathan Losos, et al</b>	1:30 PM
164	<b>SE - <u>Margarita Metallinou</u>, <u>Jeffrey Weinell</u>, Benjamin Karin, Werner Conradie, et al</b>  A single origin of extreme matrotrophy in African skinks		Eco-Evolutionary Aspects of the Lizard <i>Anolis sagrei</i> in an Island Metapopulation	1:45 PM
194	<b>SE - <u>Justin Bernstein</u>, Aaron Bauer, Todd Jackman, Yunyu Wang</b>  Phylogenetic Analysis, Species Identification and Delimitation of New Caledonian Geckos and Skinks using DNA Barcoding	1119	<b><u>Jayna L. DeVore</u>, Michael Crossland, Richard Shine</b>	2:00 PM
882	<b>SE - <u>Peter Scott</u>, Travis Glenn, Leslie Rissler</b>  Species Delimitation and Systematics of Musk Turtles (Genus <i>Sternotherus</i> )		Invasion and Evolving Plasticity: Influences of Disparate Predator Communities and Shifting Parental Investment on Cane Toad Plastic Responses	2:15 PM
377	<b>SE - <u>Robert Denton</u>, Kyle McElroy, Laura Bankers, Joel Sharbrough, Maurine Neiman, Lisle Gibbs</b>  Quantifying Genome Theft and Characterizing Gene Expression Patterns in Unisexual <i>Ambystoma</i> Salamanders	324	<b><u>Stewart Macdonald</u>, John Llewelyn, Ben Phillips</b>	2:30 PM
281	<b>SE - <u>Alexandra Herrera</u>, Kevin de Queiroz</b>  Comparative Phylogeography of Three Widespread <i>Anolis</i> Species Across the Puerto Rico Bank		Using Connectivity to Identify Environmental Drivers of Local Adaptation	2:45 PM
750	<b>SE - <u>Gregory Jongtsma</u>, Eli Greenbaum, Mark-Oliver Roedel, David Blackburn</b>  Diversity and Biogeography of Frogs in the Genus <i>Amnirana</i> (Family Ranidae) Across Sub-Saharan Africa	273	<b><u>Steven Brady</u></b>	3:00 PM
1046	<b>SE - <u>Arianna Kuhn</u>, Marcelo Gehara, Christopher Raxworthy, Sara Ruane, Frank Burbrink</b>  Comparative Phylogeography of Malagasy Snakes		Adaptation and Maladaptation in Roadside Amphibians	3:15 PM
598	<b>SE - <u>Ian Brennan</u>, Paul Oliver</b>  Postextinction diversification of an adaptive Australian reptile radiation	988	<b><u>Mark Urban</u></b>	3:30 PM
			Do Eco-evolutionary Dynamics Promote Resilience of Amphibian Communities to Climate Change?	3:45 PM
<b>POSTER SESSION I Acadia/Bissonet</b>				4:00 PM
				5:00 PM
				6:00 PM

SE = SSAR Seibert Systematics & Evolution

# Oral Presentations - Friday, 8 July - Afternoon

ROOM		<i>Salon E</i>		<i>Salon F-H</i>
SESSION/ SYMPOSIUM		ASIH STOYE ECOLOGY & ETHOLOGY/ NIA I		ASIH STOYE GENETICS, DEVELOPMENT, & MORPHOLOGY/ ASIH STOYE CONSERVATION
MODERATOR		FERNANDO ALDA		JAN HOOVER
1:30 PM	187	EE - <b>Stephanie Benseman</b> , Larry Allen The Secret Life of Baby Giants: The Recruitment of the Endangered Giant Sea Bass	494	GDM - <b>Quynh N. Quach</b> , R. Graham Reynolds, Liam J. Revell Phylogeography and Population Structure of <i>Anolis cristatellus</i> on the island of Vieques
1:45 PM	457	EE - <b>Michael Cyrana</b> The Impact of Seasonal Hypoxia on the Abundance and Species Composition of Northern Gulf of Mexico Fish Communities.	74	GDM - <b>Tyler Chafin</b> , Marlis Douglas, Michael Douglas Reduced-representation genomics reveals reticulate evolutionary history and species boundaries in <i>Gila</i> spp. Of Colorado River
2:00 PM	564	EE - <b>Alex Marks</b> , Tracey Sutton Reproductive Ecology of Dragonfishes (Family: Stomiidae) in the Gulf of Mexico	664	GDM - <b>Milton Tan</b> , Jonathan Armbruster Transcriptome Evolution of Paedomorphic Cyprinidae
2:15 PM	298	EE - <b>Jillian Farkas</b> , Drew Davis, Brianna Henry, Jeff Wesner, Jacob Kerby The Effect of Agricultural Runoff on Fish Habitat in the Prairie Pothole Region	784	GDM - <b>Max Bangs</b> , Marlis Douglas, Michael Douglas, Tyler Chafin Comparative phylogeography and introgression of catostomids in the Little Colorado River using ddRAD
2:30 PM	135	EE - <b>Kelsey A. Marchand</b> , Christopher M. Somers, Ray G. Poulin Urban Habitat Selection and Resource Use of Western Painted Turtles near the Northern Limit of the Species Range	984	<b>CANCELED</b> GDM - <b>Eric Garcia</b> , Giacomo Bernardi Genomic Analysis of Disjunct Marine Fish Populations of the Northeastern Pacific and Sea of Cortez
2:45 PM	63	<b>D Ross Robertson</b> , Benjamin C Victor, Nuno Simoes An Indo-Pacific damselfish in the Gulf of Mexico: opening a can of worms	765	GDM - <b>Savannah Michaelsen</b> , Kyle Piller Examining the impact of the Deepwater Horizon oil spill on genetic diversity and migration in red drum ( <i>Sciaenidae</i> : <i>Sciaenops ocellatus</i> ) in Louisiana waters
3:00 PM	802	<b>Roberto Reis</b> , Edson Pereira Description of a New Genus and Three New Species of Suckermouth Catfish (Siluriformes: Loricariidae) from Easter Brazil	880	GDM - <b>Bradley Martin</b> , John Placyk, Roger Birkhead, Marlis Douglas, Michael Douglas Phylogenomics and an Assessment of Introgression in the North American Box Turtles ( <i>Terrapene</i> spp.)
3:15 PM	918	<b>Jairo Arroyave</b> , Mark Sabaj Systematics of the Loricariinae (Siluriformes: Loricariidae): comparison between independent molecular datasets and inferences from the largest matrix to date	156	C - <b>Alex Cameron</b> , Carl Anthony, Cari Hickerson, Robert Page Effects of Habitat Fragmentation on the Spatiotemporal Genetic Structure of the Eastern Red-backed Salamander ( <i>Plethodon cinereus</i> )
3:30 PM	1051	<b>Windsor Aguirre</b> , Grace Malato, Ronald Navarrete, Jonathan Valdiviezo, et al Elevational Gradients and the Evolution of Biological Diversity: The Genus <i>Rhoadsia</i> as a Case Study from the Western Slope of the Andes in Ecuador	1109	C - <b>Kevin M. Neal</b> , H. Bradley Shaffer Population Genetic Structure and Conservation Units of the Western Spadefoot Toad, <i>Spea hammondi</i>
3:45 PM			1054	C - <b>Erin Toffemier</b> , H. Bradley Shaffer Metapopulation dynamics of the critically endangered Santa Barbara Distinct Population Segment of the California tiger salamander, <i>Ambystoma californiense</i>
4:00 PM	<b>POSTER SESSION I</b> <b>Acadia/Bissonet</b>			
5:00 PM				
6:00 PM				

EE = ASIH Stoye Ecology & Ethology

GDM = ASIH Stoye Genetics, Development, & Morphology

C = ASIH Stoye Conservation

# Oral Presentations - Friday, 8 July - Afternoon

	<i>Balconies J &amp; K</i>		<i>Balconies L &amp; M</i>	ROOM
	AES GRUBER		AES PHYSIOLOGY, PALEONTOLOGY, & COLLECTIONS	SESSION/ SYMPOSIUM
	JOHN CARLSON		CHRISTINE BEDORE	MODERATOR
62	G - <u>Bianca Prohaska</u> , R. Dean Grubbs, Dana Bethea, Gregg Poulakis, Rachel Scharer Physiological Ecology of Smalltooth Sawfish ( <i>Pristis pectinata</i> ) in Florida Waters	842	<u>Christine Bedore</u> Evaluation of propofol immersion anesthesia in stingrays	1:30 PM
51	G - <u>Md Anwar Hossain</u> , Benjamin S. Thompson, Gawsia Wahidunnessa Chowdhury, Samiul Mohsanin, et al Sawfish exploitation and status in Bangladesh	40	<u>Leonardo Guida</u> , Terence I. Walker, Cynthia Awruch, Richard D. Reina Physiological Responses to the Pre-natal Stress of Fisheries Capture in Pregnant Southern Fiddler Rays ( <i>Trygonorrhina dumerilii</i> ) and Their Neonates	1:45 PM
832	G - <u>Matthew Kolmann</u> , Kenneth Welch, Adam Summers, Nathan Lovejoy Goats of the sea - bilaterally asymmetric chewing in an elasmobranch	797	<u>Elizabeth R. Jones</u> , Andrew N. Evans Corticosteroid Receptors in the Atlantic Stingray, <i>Dasyatis sabina</i> : Sequence, Expression, and Physiological Implications	2:00 PM
863	G - <u>Connor White</u> , Kady Lyon, Kevin Weng, Chuck Winkler, et al Movement of Juvenile White Sharks in Southern California: Predicting Future Nursery Habitat	934	<u>Heather Marshall</u> , Nicholas Whitney, Connor White, Diego Bernal, et al The stress response and recovery behavior of the white shark ( <i>Carcharodon carcharias</i> ) after capture on handline gear	2:15 PM
107	G - <u>Brittany Finucci</u> , Matthew Dunn, Emma Jones Aggregative Behaviour and Social Structure in Deep-sea Chondrichthyans	315	<u>Lauran Brewster</u> , Nicholas Whitney, Samuel Gruber, Tristan Guttridge, et al Accelerating Understanding of Field Metabolic Rates in Elasmobranchs	2:30 PM
216	G - <u>Sebastián Pardo</u> , Holly Kindsvater, Elizabeth Cuevas-Zimbrón, Oscar Sosa-Nishizaki, et al Devil in the Details: Growth, Productivity, and Extinction Risk of a Data-sparse Devil Ray	350	<u>Catharine J. Wheaton</u> , Andrew N. Evans, John M. Rimoldi, Rama S. V. Gadepalli, et al Development and Preliminary Validation of a Monoclonal Antibody for Enzyme Immunoassay of the Steroid 1 $\alpha$ -hydroxycorticosterone in Selected Elasmobranch Species	2:45 PM
102	G - <u>Thomas Farrugia</u> , Andrew Seitz Developing the First Stock Assessment for Skates in Alaska: What Harvest Level is Sustainable?	238	<u>Jordan Taylor</u> , Gavin Naylor A Morphometric approach for assessing the Elasmobranch Fishes from the Late Eocene of South Carolina	3:00 PM
264	G - <u>Simon Dedman</u> , Rick Officer, Deirdre Brophy, Maurice Clarke, Dave Reid A flexible decision support tool for Maximum Sustainable Yield-based MPA design	199	<u>Erin Dillon</u> , Aaron O'Dea Dermal Denticles as a Tool to Reveal Pre-exploitation Shark Communities	3:15 PM
707	G - <u>Elizabeth Vinyard</u> , Walter Bubleby, Bryan Frazier, Marcus Drymon, Jim Gelsleichter Age, growth, and maturation of the Finetooth Shark, <i>Carcharhinus isodon</i> , in coastal waters of the western North Atlantic Ocean	615	<u>Lauren Meyer</u> , Madeline Green Shark Share Global: a virtual tissue bank for collaborative elasmobranch research	3:30 PM
803	G - <u>Kaitlin K Doucette</u> , Stephanie Mounaud, William Neirman, Andrew N Evans The Elasmobranch Microbiome: Changing Our Understanding of Vertebrate-Microbe Relationships			3:45 PM
<b>POSTER SESSION I</b> Acadia/Bissonet				4:00 PM
				5:00 PM
	HL Business Meeting 6-8 p.m.		NIA Meeting 6-8 p.m.	6:00 PM

G = AES Gruber

# Oral Presentations - Saturday, 9 July - Morning

ROOM		<i>Galerie 2</i>		<i>Galerie 3</i>
SESSION/ SYMPOSIUM		LIGHTNING TALKS		HERP CONSERVATION
MODERATOR		STEVE KAJIURA		BOB BRODMAN
8:00 AM		<p>204 - John Herman 806 - Alex Van Nyattan 534 - Meagan Thomas 824 - John Swenson 711 - Lauren Fuller 491 - Ehlana Stell 623 - Jeff Hathaway 718 - Heather Waye 911 - Luis H. Escalera-Vazquez 532 - Emanuell Riberio 1055 - Norma Salcedo 858 - Cristin Keelin Fitzpatrick 307 - Amanda Bennett 232 - Ann Somers <del>979 - Rachel Arnold</del> <b>CANCELED</b> 847 - Duncan Elkins 452 - Sean Sterrett 6 - Dustin Siegel</p> <p style="text-align: center;"><b>NOTE: See page 58 for all authors and titles of lightning talks.</b></p>	516	<p><b>Matthew Kwiatkowski, Josh Pierce, Beau Gregory, James Childress, D. Craig Rudolph</b> Genetic Structure and Diversity in Louisiana Pinesnakes, <i>Pituophis ruthveni</i>: Implications for Conservation and Management</p>
8:15 AM			495	<p><b>Peter Smiley Jr., Mark Jordan, Abel Castaneda, Robert Gillespie, et al</b> Conservation Implications of Amphibian Habitat Relationships within Channelized Agricultural Headwater Streams in the Midwestern United States</p>
8:30 AM			544	<p><b>Amber Pitt, Joseph Tavano, Robert Baldwin, Benjamin Stegenga</b> Movement Ecology Demonstrates the Importance of Maintaining Diverse Aquatic Systems within Intact Forest Ecosystems for Amphibian Conservation</p>
8:45 AM			410	<p><b>Blake Hossack, Ken Honeycutt, Todd Preston, Holly Puglis, et al</b> Potential Effects of Waste Waters from Oil and Gas Extraction on Amphibians: Preliminary Results from a Multi-partner Investigation</p>
9:00 AM			441	<p><b>Payton Kellenburger, Hanna Van Meter, Daniel Perkins, Bob Brodman, Timothy Rice</b> The Effects of Cover Crop on Amphibians</p>
9:15 AM			125	<p><b>Mark Mills, Jessica Yehle Rix, Brock Couch</b> Amphibians Using Man-Made Vernal Pools in Missouri: A Four-Year Study With A Comparison of Techniques</p>
9:30 AM			<b>BREAK - Acadia/Bissonet</b>	
SESSION/ SYMPOSIUM		LIGHTNING TALKS		HERP CONSERVATION
MODERATOR		MARY WHITE/ DAVID GREEN		KATHERINE O'DONNELL
10:00 AM		<p>173 - Christopher Beachy 1029 - Freya E. Rowland 922 - Brian Deis 109 - Toby Hibbitts 469 - Julie Savidge 296 - Sara Ruane 394 - Amy Rowley 683 - Lydia Crawford 946 - Emily Taylor 403 - Kyle Newton <del>768 - Alison Webb</del> <b>CANCELED</b> 906 - Ricardo Montero 110 - Jennifer S. Bigman 685 - Emily Seubert 999 - Vicente Faria 38 - Bryan Keller <del>769 - Howard L. Jelks</del> <b>CANCELED</b> 778 - Thomas Wilson 753 - Paddy Walker 737 - Bruce Stallsmith 9 - C. Samantha Sherman 309 - Gavin Naylor 724 - Kyle Barrett</p> <p style="text-align: center;"><b>NOTE: See page 59 for all authors and titles of lightning talks.</b></p>	289	<p><b>Richard Seigel, William Saffell, Brian Durkin, Matt Gutt, Anna Savage</b> Do Constructed Wetlands Have Higher Rates of Ranavirus Infection of Amphibians Compared with Non-constructed sites?</p>
10:15 AM			671	<p><b>William Sutton, Kyle Barrett, Cynthia Loftin, Phillip deMaynadier, et al</b> Determining Vulnerability of Priority Amphibian and Reptile Conservation Areas to Climate Change and Urbanization in the Northeastern United States</p>
10:30 AM			1110	<p><b>Luke Linhoff, Pritpal Soorae, Maureen Donnelly, Jennifer Germano, et al</b> Developing the new IUCN Amphibian Conservation Translocations and Reintroduction Guidelines</p>
10:45 AM			398	<p><b>Gary Casper, Stefanie Nadeau, Ulf Gafvert, John Peterson</b> An Improved Method for Detecting Blanchard's Cricket Frog, <i>Acris blanchardi</i>, in the Upper Midwest</p>
11:00 AM			202	<p><b>Lea Randall, Des Smith, Breana Jones, David Prescott, Axel Nopouloschager</b> <b>CANCELED</b> Seasonal and Annual Occupancy Dynamics of an Imperiled Amphibian</p>
11:15 AM			640	<p><b>Katherine O'Donnell, Fred Johnson, Mathieu Bonneau, Julien Martin, et al</b> Using Structured Decision Making (SDM) and Category Count Models to Develop Optimal Management Policies for Imperiled Salamander Recovery</p>
11:30 AM			1082	<p><b>Joseph Pechmann, John Tupy, James Lee, Matthew Atkinson, et al</b> Translocation Efforts Highlight Vulnerabilities of the Endangered Dusky Gopher Frog</p>
11:45 AM		140	<p><b>Kristen Cecala, Lindsey Liles, Mary Lou Hoffacker, Joshua Ennen, et al</b> Effect of elevated temperatures on competitive outcomes in desmognathine salamanders</p>	
12:00 PM		<b>LUNCH ON YOUR OWN</b>		

# Oral Presentations - Saturday, 9 July - Morning

	<i>Salon A-C</i>		<i>Salon D</i>	ROOM
	FISH ECOLOGY I		ASIH: ASIH AT 100 SYMPOSIUM	SESSION/ SYMPOSIUM
	GARY GROSSMAN		BILL MATTHEWS	MODERATOR
24	<p><b><u>Mark Peterson, Paul Grammer, Jeanne-Marie Havrylkoff, William Slack</u></b></p> <p>Nearshore Movements and Connectivity of Gulf Sturgeon in Non-island, Shallow Designated Critical Habitat Adjacent to a Commercial Port and a Maintained Navigation Channel Within Mississippi Sound</p>			8:00 AM
459	<p><b><u>Karen Alofs, Donald Jackson</u></b></p> <p>Is Fish Body Size a Reliable Trait for Ecological Inference?</p>	98	<b><u>Eric Hilton</u></b>	8:15 AM
470	<p><b><u>Kirsten Work, Melissa Gibbs</u></b></p> <p>How effective is discharge management on maintaining Florida spring fish assemblage structure?</p>		ASIH History, Personal Reminiscences, and an Introduction to the Symposium: Setting the Stage for the Next 100 Years	8:30 AM
666	<p><b><u>Holly Kindsvater, Marc Mangel, John Reynolds, Nick Dulvy</u></b></p> <p>A New Framework Connecting Life History Traits, Population Dynamics, and the Ability to Withstand Environmental Change</p>	496	<b><u>David Smith</u></b>	8:45 AM
794	<p><b><u>Barry Chernoff, Helen Poulos</u></b></p> <p>Community Dynamics of Fishes and Aquatic Invertebrates in the Eightmile River, Connecticut</p>	732	<b><u>Mark Sabaj</u></b>	9:00 AM
772	<p><b><u>April Cook</u></b></p> <p>Historic undersampling of deep-pelagic top predators: a case study of the Chiasmodontidae of the Gulf of Mexico using multiple sampling gears</p>	123	<b><u>Larry M. Page</u></b>	9:15 AM
<b>BREAK - Acadia/Bissonet</b>				9:30 AM
	FISH ECOLOGY I		ASIH: ASIH AT 100 SYMPOSIUM	SESSION/ SYMPOSIUM
	TOM TURNER		BRAD SHAFFER	MODERATOR
647	<p><b><u>Thomas Turner</u></b></p> <p>Stable Isotopes and museum specimens offer new insights into ecological processes over centuries of environmental change</p>	39	<b><u>Henry Mushinsky</u></b>	10:00 AM
339	<p><b><u>Armand Kuris, Ana Garcia-Vedrenne, Sara Weinstein</u></b></p> <p>Trophic Position of Oarfish, <i>Regalecus</i> spp., in the Mesopelagic Food Web</p>	157	<b><u>Mollie Cashner</u></b>	10:15 AM
848	<p><b><u>Alejandra Mickle, Dean Grubbs, Jeffrey Chanton</u></b></p> <p>Feeding Ecology and Mercury Bioaccumulation in Gulf of Mexico Myxinids</p>	240	<b><u>Shabnam Mohammadi</u></b>	10:30 AM
787	<p><b><u>Cheston Peterson, Erica Holdridge, Dean Grubbs</u></b></p> <p>Trophic ecology of two species of ariid catfishes: gut contents, stable isotope analysis, and comparisons with small coastal sharks</p>	19	<b><u>Malorie Hayes, Jonathan Armbruster</u></b>	10:45 AM
26	<p><b><u>Robert Shields, Mark Pyron, Mario Minder</u></b></p> <p>Effects of Silver Carp on the Wabash River Ecosystem</p>	150	<b><u>Bruce Collette</u></b>	11:00 AM
1092	<p><b><u>Griffin Srednick, Mark Steele</u></b></p> <p>Influence of the Structure of an Invasive Alga on the Distribution of Fishes</p>	278	<b><u>Stephen Ross</u></b>	11:15 AM
558	<p><b><u>Carmen G. Montana, Rocío Rodiles-Hernández, Miriam Soria-Barreto</u></b></p> <p>Food web dynamics in a Mesoamerica floodplain river</p>	593	<b><u>Alan Savitzky</u></b>	11:30 AM
		101	<b><u>Prosanta Chakrabarty</u></b>	11:45 AM
			Looking Back to the Future: ASIH at 200, The 2116 Perspective for the next 100 years	
<b>LUNCH ON YOUR OWN</b>				12:00 PM

# Oral Presentations - Saturday, 9 July - Morning

ROOM		<i>Salon E</i>		<i>Salon F-H</i>
SESSION/ SYMPOSIUM		HERP BIOGEOGRAPHY, PHYLOGEOGRAPHY, & SYSTEMATICS		FISH SYSTEMATICS I
MODERATOR		ANTHONY BARLEY		THOMAS MUNROE
8:00 AM	843	<u>Frank Burbrink</u>  Modeling the effects of ecology on the mtDNA genome in ratsnakes	1094	<u>Thomas Munroe</u>  Ocean Exploration, Morphological and Molecular Approaches Contribute to Discoveries of Unrecognized Diversity of Tonguefishes (Pleuronectiformes: Cynoglossidae)
8:15 AM	192	<u>Kathlene Joyce</u> , <u>Jacqueline Chivers</u> , <u>Craig Guyer</u> , <u>Malorie Hayes</u>  Phylogeography of Slimy Salamanders in Alabama	589	<u>Matthew Davis</u>  Evolutionary Relationships and Patterns of Diversification among the Lizardfishes and their Allies (Teleostei: Aulopiformes)
8:30 AM	222	<u>Derek Filipek</u> , <u>Ginny Adams</u> , <u>Donald Shepard</u>  Phylogeography and Historical Demography of the Queensnake, <i>Regina septemvittata</i>	585	<u>W. Leo Smith</u> , <u>Jennifer Stern</u> , <u>Matthew Girard</u> , <u>Matthew Davis</u>  Phylogenetic and Anatomical Diversity of Venomous Cartilaginous and Ray-Finned Fishes
8:45 AM	656	<u>R. Graham Reynolds</u> , <u>Alberto Puente-Rolon</u> , <u>Anthony Geneva</u> , <u>Kevin Aviles-Rodriguez</u> , <u>Nicholas Herrmann</u>  Discovery of a Remarkable New Boa From the Bahamas	700	<u>Mark Westneat</u>  Evolutionary history and global biogeographic patterns of reef fishes using all-species phylogenetic trees
9:00 AM	617	<u>Michael F. Bates</u> , <u>Donald G. Broadley</u> , <u>Luis M.P. Ceriaco</u> , <u>William R. Branch</u>  A Review of the <i>Gerrhosaurus nigrolineatus</i> Species Complex (Sauria: Gerrhosauridae) in sub-Saharan Africa	852	<u>Adela Roa-Varon</u> , <u>Chenhong Li</u> , <u>Weicai Wang</u> , <u>Eric Hilton</u>  Phylogenetic Relationships within the Family Merlucciidae (Gadiformes) using Genome-Wide Protein Coding Genes
9:15 AM	955	<u>Adrián Nieto-Montes de Oca</u> , <u>Anthony Barley</u> , <u>Rubi Meza-Lázaro</u> , <u>Uri García-Vázquez</u> , et al  Phylogenomics of the knob-scaled lizards ( <i>Xenosaurus</i> )	103	<u>Yer Lor</u> , <u>David Boseto</u> , <u>Ken Maeda</u> , <u>Frank Pezold</u>  Elucidating species diversity in the amphidromous Indo-Pacific goby genus <i>Stiphodon</i>
9:30 AM		BREAK - Acadia/Bissonet		
SESSION/ SYMPOSIUM		HERP BIOGEOGRAPHY, PHYLOGEOGRAPHY, & SYSTEMATICS		FISH SYSTEMATICS I
MODERATOR		ANTHONY BARLEY		HERNAN LOPEZ-FERNANDEZ
10:00 AM	272	<u>Stuart V Nielsen</u> , <u>Paul M Oliver</u>  Stripes, jewels and spines: further investigations into the evolution of defensive strategies in a chemically defended gecko radiation ( <i>Strophurus</i> , Diplodactylidae)	223	<u>Fernando Alda</u> , <u>Caleb D. McMahan</u> , <u>Victor A. Tagliacollo</u> , <u>Maxwell J. Bernt</u> , et al  Phylogenomic analyses of two major Neotropical freshwater fish radiations
10:15 AM	672	<u>Gregory Mayer</u>  Variation and Distribution of an Endangered Species, <i>Anolis</i> <i>roosevelti</i>	433	<u>Kyle Piller</u> , <u>Alan Lemmon</u> , <u>Emily Moriarty Lemmon</u>  Interrelationships of Cyprinodontiform Fishes Using Anchored Phylogenomics
10:30 AM	1039	<u>Cesar Aguilar</u> , <u>Luciano J. Avila</u> , <u>Mariana Morando</u> , <u>Ignacio De la Riva</u> , et al  Low and high in the Andes: Phylogeny of the poorly known South American lizards of the <i>Liolaemus montanus</i> group	379	<u>Melanie Stiassny</u> , <u>Prosanta Chakrabarty</u> , <u>Fernando Alda</u>  Out of Tanganyika or into Tanganyika? Genome-wide UCE data elucidate the relationships and biogeographic history of the enigmatic lamprologines of the Lower Congo River
10:45 AM	1104	<u>Jonathan Richmond</u> , <u>Andrew Gottscho</u> , <u>Tod Reeder</u>  Does Next-Generation Sequencing Data Support the Case for Parallel Ecological Speciation in Scincid Lizards of the <i>Plestiodon</i> <i>skiltonianus</i> Species Group?	376	<u>S. Elizabeth Alter</u> , <u>Jason Munshi-South</u> , <u>Melanie Stiassny</u>  Genome-wide SNP data reveal cryptic phylogenetic structure and history of hybridization in a rapids-adapted clade of cichlids from the Congo River
11:00 AM	246	<u>Allyson Fenwick</u> , <u>Christopher Parkinson</u>  Taxon-dense Phylogeny of Crotalinae Using Combined Morphological and Multigene Analysis	706	<u>Katriina Ilves</u> , <u>Hernán López-Fernández</u>  A Targeted Exon approach for (Neotropical) Cichlid Phylogenomics
11:15 AM	951	<u>Robert Thomson</u> , <u>Phillip Spinks</u> , <u>Bradley Shaffer</u> , <u>Anthony Barley</u>  Phylogeny of the Map Turtles ( <i>Graptemys</i> )	126	<u>Katriina Ilves</u> , <u>Maria Claudia Malabarba</u> , <u>Hernán López-Fernández</u>  Phylogenomics, Fossils and a Tip-dating approach to the Age of Neotropical Cichlids
11:30 AM	877	<u>Daniel Portik</u>  A phylogenomic comparative analysis of sexual size dimorphism and body size evolution in African Reed Frogs	920	<u>Ting Kuang</u> , <u>Luke Tornabene</u> , <u>Chenhong Li</u>  Phylogenomics of the Gobioidi (Teleostei: Gobiiformes) and possible evidence of adaptive evolution based on target-enrichment gene-capture data
11:45 AM			547	<u>Kevin Tang</u>  Systematics of Damselfishes
12:00 PM		LUNCH ON YOUR OWN		

# Oral Presentations - Saturday, 9 July - Morning

	<i>Balconies J &amp; K</i>		<i>Balconies L &amp; M</i>	ROOM
	<b>AES ECOLOGY &amp; BEHAVIOR II</b>		<b>AES CONSERVATION &amp; MANAGEMENT II</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>TOBY DALY-ENGEL</b>		<b>JEFFREY CARRIER</b>	<b>MODERATOR</b>
755	<u>Aaron Carlisle</u> , Wade Smith, Salvador Jorgenson Insights into the natal origin and early life history of sharks from intrinsic chemical markers within vertebrae	35	<u>Jeffrey Carrier</u> , Jillian Morris, Derek Burkholder, Judith Gregoire, et al Expanding Opportunities for Young Women in Shark Research: A STEM Initiative in the Florida Keys	8:00 AM
783	<u>Eric Hoffmayer</u> , Adam Pollack, William Driggers, Christian Jones, Matthew Campbell Neritic distribution of bonnetheads, <i>Sphyrna tiburo</i> , indicates limited use of inshore nurseries in the western Gulf of Mexico	381	<b>CANCELED</b> <u>Emily Nelson</u> , Hannah Galich, Neil Hammerschlag Shark Abundance and CPUE in South Florida: A habitat use analysis using ArcGIS	8:15 AM
590	<u>Conrad Speed</u> , Mark Meekan, Mike Cappo Evidence of recovery of shark and ray populations at a remote Marine Reserve in north Western Australia	932	<u>Rachel Graham</u> , <u>Ivy Baremore</u> , Samantha Strindberg A Tale of Two Atolls: Differences in Elasmobranch Abundance and Density Between Two Offshore Atolls in Belize	8:30 AM
241	<u>Thomas TinHan</u> , R.J. David Wells Feeding Ecology of Juvenile Bull Sharks in the Northwest Gulf of Mexico	899	<u>Cassidy Peterson</u> , Robert Latour Abundance and Community Interactions of Atlantic Coastal Sharks	8:45 AM
850	<u>Leanne Currey</u> , Michelle Heupel Northern Great Barrier Reef: a Haven of Shark Diversity and Abundance	462	<u>Kelcee Smith</u> , Sabrina Taylor, William Kelso, Michael Kaller, et al Estimating Abundance of Smalltooth Sawfish ( <i>Pristis pectinata</i> ) with Capture-Mark-Recapture Data	9:00 AM
90	<b>CANCELED</b> <u>David Wells</u> , Natalie Spear, Michael Kinney, Suzanne Kohin Application of Chemical Tags to Age Validation Studies of Sharks in the Northeastern Pacific Ocean	673	<b>CANCELED</b> <u>K.V. Akhilesh</u> , K.K. Bineesh, P.U. Zacharia, A. Gopalakrishnan Records of sawfishes (Chondrichthyes: Pristidae) in Indian waters: A historical review and survey results	9:15 AM
<b>BREAK - Acadia/Bissonet</b>				9:30 AM
	<b>AES ECOLOGY &amp; BEHAVIOR II</b>		<b>AES CONSERVATION &amp; MANAGEMENT II</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>NEIL HAMMERSCHLAG</b>		<b>STEVE KESSEL</b>	<b>MODERATOR</b>
691	<u>Maurits van Zinnicq Bergmann</u> , Tristan Guttridge, Mark Bond, Samuel Gruber, Yannis Papastamatiou Movement Networks and Habitat Preferences of a Multi-Species Elasmobranch Assemblage in Bimini, Bahamas	785	<u>Jeremy M. Higgs</u> , Jill M. Hendon, Dana M. Bethea, James A. Sulikowski, et al Age and growth of the finetooth shark, <i>Carcharhinus isodon</i> , in the northern Gulf of Mexico: a multi-model approach	10:00 AM
213	<u>Christopher Mull</u> , Nicholas Dulvy Size doesn't matter: offspring production scales across sharks, skates, rays and chimaeras	790	Tara Boag, <u>Angela Cicia</u> , William Driggers III, David Kulka, et al Utilizing histologically processed vertebrae to estimate age and size at sexual maturity of black dogfish ( <i>Centroscyllium fabricii</i> ) from the western north Atlantic	10:15 AM
111	<u>Mark Grace</u> , Laura Dias, Lance Garrison, Keith Mullin, et al Ectoparasitic Predators; Cookie Cutter Shark Bite Wounds on Cetaceans of the Gulf of Mexico	345	<u>Tristan Guttridge</u> , Lucy Howey-Jordan, <u>Maurits Van Zinnicq Bergmann</u> , Jean-Sebastien Finger, et al Better in the Bahamas? Regional connectivity and seasonal residency of the great hammerhead shark in the U.S.A. and the Bahamas	10:30 AM
710	<u>Rachel Dreyer</u> , Kim Bassos-Hull, Krystan Wilkinson, Breanna DeGroot When the Shark Bites and the Remora Sucks: Incidence of Injury on Spotted Eagle Rays ( <i>Aetobatus narinari</i> ) and Lesser Devil Rays ( <i>Mobula hypostoma</i> )	1017	<u>Steven Kessel</u> , David Yurkowski, Tarik Chekchak, Graham Hill, et al Spatial use of coastal manta rays ( <i>Manta alfredi</i> ) in Sudan relative to marine reserve boundaries, and proximity to a proposed coastal development	10:45 AM
414	<u>Neil Hammerschlag</u> , Shanta Barley, Duncan Irschick, Jessica Meeuwig, et al Fishery depletion of sharks cause morphological changes in prey	99	<u>Julia Lawson</u> , Rachel Walls, Sonja Fordham, Mary O'Malley, et al Sympathy for the devil: a conservation strategy for devil and manta ray	11:00 AM
678	<u>Mark Meekan</u> , Lauren Fear, Andy Radford, Steve Simpson A Model Predator: The Influence of Predation Threat on the Behaviour, Abundance and Diversity of Coral Reef Fishes	545	<u>Daniel Fahy</u> , Richard Spieler, William Hamlett Synchrony of Male and Female Reproductive Parameters during the Biannual Reproductive Cycle of the Yellow Stingray, <i>Urobatis jamaicensis</i> (Myliobatiformes: Urotrygonidae)	11:15 AM
603	<u>Vera Schluessel</u> Sharks don't just have Sharp Teeth but are also Sharp Thinkers - Cognition in Elasmobranchs			11:30 AM
867	<u>Melanie Kolacy</u> , James Sulikowski, Teresa Dzieweczynski Effects of Temperature on Behavior and Brain Development of the <i>Little Skate</i>			11:45 AM
<b>LUNCH ON YOUR OWN</b>				12:00 PM



# Oral Presentations - Saturday, 9 July - Afternoon

ROOM		Galerie 2		Galerie 3
SESSION/ SYMPOSIUM		LIGHTNING TALKS/ GENERAL HERPTOLOGY		AMPHIBIAN REPRODUCTION & HERP CONSERVATION
MODERATOR		DAVID CUNDALL		GREG PAULY
1:30 PM		<p style="text-align: center;"><u>Lighting Talks</u></p> <p><b>0342 - Takahiro Kusaka, Koujirou Hara, Keisuke Furumitsu, Shinji Uehara, et al</b> Genetic population structure of a Japanese common skate <i>Dipturus cf. kwangtungensis</i> in Japan inferred from mitochondrial cytochrome b gene</p> <p><b>186 - Meagan Roy, Carol Johnston</b> From GIS to eDNA: A habitat risk assessment and breeding site projection for the Slackwater Darter (<i>Etheostoma boschungii</i>)</p>	282	<p style="text-align: center;"><u>Alessandro Catenazzi, Robin W. Warne</u></p> <p>Secrets of the marsupial frogs: maternal nutrient transfer in a direct developing species</p>
1:45 PM	940	<p style="text-align: center;"><u>Luis Ceriaco, Mariana Marques</u></p> <p>170 years of herpetological studies on Gulf of Guinea: a review of the current knowledge on the amphibians and reptiles of the São Tomé &amp; Príncipe islands</p>	302	<p style="text-align: center;"><u>Renata Platenberg, Kelcie Troutman, Avram Primack</u></p> <p>Frogs and Cell Phones: An Experiment with Citizen Scientists in the Virgin Islands</p>
2:00 PM	372	<p style="text-align: center;"><u>Erin Hodson, Richard Lehtinen</u></p> <p>Decline of an Adaptation in a Coral Snake Mimic.</p>	71	<p style="text-align: center;"><u>Erin Muths, Brad Lambert, Scott Schneider, Rob Schorr, Larissa Bailey</u></p> <p>Long-term Demography: Movements and disease</p>
2:15 PM	873	<p style="text-align: center;"><u>Katharine Ozenberger, Mark Hayes</u></p> <p>Assessing the Quality of Early Detection and Distribution Mapping System (EDDMapS) Data for Use in Analyzing the Distributions and Spread of Invasive Reptiles</p>	506	<p style="text-align: center;"><u>Elizabeth Roznik, Ross Alford</u></p> <p>Thermal and hydric environments interact with behavior to affect <i>Batrachochytrium dendrobatidis</i> infection in Australian rainforest frogs</p>
2:30 PM	930	<p style="text-align: center;"><u>Hardin Waddle, Brad Glorioso</u></p> <p>Site Occupancy Characteristics of the Gulf Coast Waterdog (<i>Necturus beyeri</i>)</p>	670	<p style="text-align: center;"><u>Steven Whitfield, Jacob Kerby, Juan Abarca, Gilbert Alvarado</u></p> <p>Enigmatic survival follows enigmatic amphibian decline - A turning point for amphibian conservation?</p>
2:45 PM	618	<p style="text-align: center;"><u>Rebecca John, Robert Gitzen, Christine Easterwood</u></p> <p>Occupancy and Detection of Green Salamander (<i>Aneides aeneus</i>) on Redstone Arsenal, Alabama</p>	992	<p style="font-size: 2em; font-weight: bold; color: red;">CANCELED</p> <p style="font-size: 0.8em; color: gray;">Jesus Rivas, Steven Salinas Invasive American Bullfrog (<i>Lithobates catesbeianus</i>) Friend or foe?</p>
3:00 PM	73	<p style="text-align: center;"><u>Joseph Milanovich, Stanislaw Warcholek, Brock Struecker, Leigh Anne Harden</u></p> <p>A Look Underground at the Ornate Box Turtle: Hibernaculum Thermal Ecology and Microhabitat of Hibernacula in North-central Illinois</p>	1059	<p style="text-align: center;"><u>Scott Boback, Robert Reed, Alberto Puente-Rolón, Graham Reynolds</u></p> <p>Body size, reproduction, and diet characteristics of an expanding population of exotic boa constrictors (<i>Boa constrictor</i>) in Puerto Rico, U.S.A.</p>
3:15 PM	36	<p style="text-align: center;"><u>James L. Christiansen, Elliott Jacobson, Travis LaDuc</u></p> <p>An Algae Mediated Shell Disease of Yellow Mud Turtles, <i>Kinosternon flavescens</i>, confirmed</p>	1106	<p style="text-align: center;"><u>Gregory Pauly</u></p> <p>Is California the Next Florida?: The Rapid Increase of Nonnative Reptiles and Amphibians in Southern California as Documented through Citizen Science</p>
3:30 PM	571	<p style="text-align: center;"><u>Laura B. Kimmel, Michelle L. Haynie, Allyson M. Fenwick, Paul A. Stone</u></p> <p>Phylogeography of Sonoran Mud Turtles (<i>Kinosternon sonoriense</i>) in the Madrean Sky Islands based on Mitochondrial D-loop Analysis</p>	837	<p style="text-align: center;"><u>Shannon Pittman, Paul Andreadis, Ian Bartoszek, Cailin Ervin, et al</u></p> <p>Simulating Dispersal Patterns of Neonatal Burmese Pythons (<i>Python molurus bivittatus</i>) in South Florida</p>
3:45 PM	1074	<p style="text-align: center;"><u>David Cundall, Edward Fernandez, Frances Irish</u></p> <p><i>Pipa pipa</i>: Evolutionary Innovation in a Suction Mechanism</p>	838	<p style="text-align: center;"><u>Bryan Falk, Amy Yackel Adams, Robert Reed</u></p> <p>How can we use activity patterns to improve the management of invasive reptiles?</p>
4:00 PM	<p style="font-weight: bold;">POSTER SESSION II</p> <p>Acadia/Bissonet</p>			
5:00 PM				
6:00 PM		<p style="font-weight: bold;">ASIH Business Meeting</p> <p>6-8 p.m.</p>		<p style="font-weight: bold;">SSAR Business Meeting</p> <p>6-8 p.m.</p>

# Oral Presentations - Saturday, 9 July - Afternoon

	<i>Salon A-C</i>		<i>Salon D</i>	ROOM
	FISH ECOLOGY II		ASIH: ASIH AT 100 SYMPOSIUM	SESSION/ SYMPOSIUM
	CHRIS WALSER		ERIC HILTON	MODERATOR
1053	<p><u>Christoph Walser</u>, Sarah Walsh, Matthew Campbell, Helen Neville</p> <p>Distribution and movement of Columbia River redband trout, <i>Oncorhynchus mykiss gairdneri</i>, in an intermittent southern Idaho stream</p>	1096	<p style="text-align: center;"><u>Brad Shaffer</u></p> <p style="text-align: center;">ASIH in the Genomics Era</p>	1:30 PM
317	<p style="text-align: center;"><u>Bret Harvey</u>, Jason White</p> <p>Axes of Fear for Stream Fish: Water Depth and Distance to Cover</p>	592	<p style="text-align: center;"><u>Mike Thompson</u></p> <p>Eggs and Live Birth: A Retrospective and Prospective Look at the Evolution of Viviparity in Reptiles</p>	1:45 PM
541	<p style="text-align: center;"><u>Ryan Freedman</u>, Chris Caldwell, Jenn Caselle</p> <p>Tropicalization and Community Change in the Transition Zone: A Case Study for Fish in the Channel Islands National Marine Sanctuary</p>	96	<p style="text-align: center;"><u>Martha Crump</u></p> <p style="text-align: center;">ASIH, Conservation, and the Future</p>	2:00 PM
68	<p style="text-align: center;"><u>Fabio Castagnino</u>, Ana Alegre, John G. Ramirez, Alfonso Alonso, Ximena Velez-Zuazo</p> <p>Individual-based analysis evidences dynamic functional roles of marine fishes</p>	120	<p style="text-align: center;"><u>Aaron Bauer</u></p> <p>The American Society of Ichthyologists and Herpetologists on the Global Stage of Herpetology</p>	2:15 PM
343	<p style="text-align: center;"><u>Nathania Brooke</u>, Phil Ross, Tom Trnski, Chris Battershill, Keith Gregor</p> <p>Larval fish of Tauranga Harbour, New Zealand</p>	104	<p style="text-align: center;"><u>Patrick Gregory</u></p> <p style="text-align: center;">ASIH: A View from the North</p>	2:30 PM
147	<p style="text-align: center;"><u>Glenn Parsons</u></p> <p>Shark Attack, Fisheries Landings, and Environmental Parameters: Getting to the Meat of the Topic</p>	236	<p style="text-align: center;"><u>Keiichi Matsuura</u></p> <p style="text-align: center;">Ichthyology Crossing the Pacific</p>	2:45 PM
305	<p style="text-align: center;"><u>Tracey Sutton</u>, April Cook, Jon Moore</p> <p>Active Linkage of Large Vertebrates and the Deep-Pelagic Fauna of the Oceanic Gulf of Mexico after <i>Deepwater Horizon</i>: Vertical Dynamics of the Epipelagic, Mesopelagic and Bathypelagic Ichthyofauna</p>	320	<p style="text-align: center;"><u>Kathleen Cole</u></p> <p style="text-align: center;">Thirty Years of ASIH: a View from the Outer Ring (Galaxy)</p>	3:00 PM
429	<p style="text-align: center;"><u>Patrick McGrath</u>, Brian Watkins, Ashleigh Magee, Eric Hilton</p> <p>Age and Growth of Alewife (<i>Alosa pseudoharengus</i>) and Blueback Herring (<i>Alosa aestivalis</i>) from Virginia</p>	165	<p style="text-align: center;"><u>Marvalee H Wake</u></p> <p style="text-align: center;">ASIH At Crossroads</p>	3:15 PM
484	<p style="text-align: center;"><u>Michael Andres</u>, Mark Peterson, William Slack, Kayla Kimmel, et al</p> <p>Estimation of Length-at-Age, Growth, and Condition of Gulf Sturgeon, <i>Acipenser oxyrinchus desotoi</i>, from the Pearl and Pascagoula Rivers</p>	12	<p style="text-align: center;">ASIH through the Secretary's Prism - 100 years of work laying a foundation for the next 100 years</p>	3:30 PM
1099	<p style="text-align: center;"><u>Fredys F. Segura-Guevara</u>, Ángel L. Martínez-González, Charles W. Olaya-Nieto</p> <p>Feeding Habits of Moncholo Hoplias malabaricus in the Ciénaga de Ayapel, Sinu River System</p>			3:45 PM
<p><b>POSTER SESSION II</b> Acadia/Bissonet</p>				4:00 PM
				5:00 PM
				6:00 PM

# Oral Presentations - Saturday, 9 July - Afternoon

ROOM		<i>Salon E</i>		<i>Salon F-H</i>
SESSION/ SYMPOSIUM		HL: SOCIAL BEHAVIOR IN REPTILES SYMPOSIUM		FISH SYSTEMATICS II
MODERATOR		GORDON BURGHARDT		KEVIN CONWAY
1:30 PM	686	<u>Gordon Burghardt</u>  Reptile Sociality: Ignored, Mischaracterized, and Still Misunderstood	117	<u>Anthony Gill, Jeffrey Leis</u>  More than archetypal coral-reef fishes: Revision and relationships of the Acanthuroidei based on adult and larval morphology
1:45 PM			308	<u>Lei Yang, Gavin Naylor</u>  Mitogenome Sequencing and the Tree of Life of Chondrichthyan Fishes
2:00 PM	587	<u>Erik Wapstra, Tobias Uller, Geoff While</u> <b>CANCELED</b> The evolutionary ecology of family living in lizards	1115	<u>Kevin W. Conway, Cragen King, Adam Summers, Philip Hastings</u>  Clingfish classification: problems and progress
2:15 PM	575	<u>Richard Vogt, Camila Ferrara, Virginia Bernardes</u>  Communication and Social Life of the Giant South American River Turtle ( <i>Podocnemis expansa</i> )	247	<u>Donald Davesne, Cyril Gallut, Olga Otero</u>  Towards a Consensus for Deep Intra-relationships of Acanthomorph Teleosts
2:30 PM	1045	<u>Vladimir Dinets</u>  Cooperative hunting in reptiles: an overview	773	<u>Brian Sidlauskas, Michael Alfaro, Michael Burns, Casey Dillman, et al</u>  Morphological and Macroevolutionary Implications of a Densely Sampled Molecular Phylogeny for Anostomoidea (Characiformes)
2:45 PM	830	<u>Rulon Clark, Shannon Hoss</u>  The role of maternal care in the development of social behaviors of pitvipers	445	<u>Casey Dillman, Richard Vari, Brian Sidlauskas</u>  A Complete Morphological Supermatrix for the Superfamily Anostomoidea (Teleostei: Characiformes). What can it tell us about history?
3:00 PM	436	<u>Jennifer Moore, James Gillingham, David Clark, Nicola Nelson</u>  Social Behavior of Tuatara	1072	<u>Michael Sandel</u>  Deep, Cold, Dark and Old: Accounting for Non-neutral DNA Sequence Variation Reconciles the Perciformes Mitochondrial Phylogeny
3:15 PM	333	<u>Kirke Lindencrone Munch, Daniel Nobel, Geoffrey While</u> <b>CANCELED</b> Mate familiarity influences social learning strategies in a monogamous lizard	709	<u>Dominik Halas</u>  Nuclear loci support morphological, not mitochondrial, species delimitations in the <i>Notropis rubellus</i> species group
3:30 PM	1069	<u>Robert Heathcote, James Stroud</u>  Social networks and species coexistence of <i>Anolis</i> lizards	849	<u>Kendall Cupp, Benjamin Keck</u> <b>CANCELED</b> Genetic and Morphological Characterization of Highly Disjunct Populations of the Greenfin Darter, <i>Nothonotus chlorobranchius</i>
3:45 PM	689	<u>Melissa Amarello, Jeffrey J. Smith</u>  The Secret Social Lives of Snakes and Why They Matter	486	<u>Michael Tringali, Brandon Barthel, John Knight</u> <b>CANCELED</b> An undescribed species of <i>Micropterus</i> in Florida and Southeastern Alabama
4:00 PM	996	<u>Sean Doody</u>  Challenges and Future Directions of Social Behavior Research in Reptiles	<b>POSTER SESSION II</b> Acadia/Bissonet	
5:00 PM				
6:00 PM				

# Oral Presentations - Saturday, 9 July - Afternoon

	<i>Balconies J &amp; K</i>		<i>Balconies L &amp; M</i>	ROOM
	AES GENETICS, GENOMICS, BIOGEOGRAPHY, & SYSTEMATICS		AES CONSERVATION & MANAGEMENT III	SESSION/ SYMPOSIUM
	SHANNON CORRIGAN		DOVI KACEV	MODERATOR
255	<p><u>Shannon Corrigan</u>, William White, Lei Yang, Aaron Henderson, Gavin Naylor</p> <p>Phylogeny of the manta and devilrays (Chondrichthyes: Mobulidae), with an updated taxonomic arrangement for the family</p>	879	<p>Michael Kinney, <u>Dovi Kacev</u>, Suzanne Kohin, Tomoharu Eguchi</p> <p>Quantitative approach for analyzing telemetry data in data-limited situations</p>	1:30 PM
705	<p><u>Nicholas J. Marra</u>, Minghui Wang, Paulina Pavinski Bitar, Qi Sun, et al</p> <p>Comparative Genomics and Transcriptomics of Elasmobranchs: Insights into a Primitive Adaptive Immune System</p>	409	<p><u>Michael Byrne</u>, Jeremy Vaudo, Guy Harvey, Bradley Wetherbee, Mahmood Shivji</p> <p>Using Satellite Telemetry to Quantify Fisheries Interactions and Survival of Shortfin Mako Sharks</p>	1:45 PM
680	<p><u>Tony Gamble</u>, Martin Cohn, David Zarkower</p> <p>Sex-specific genetic markers and sex chromosomes in the Little Skate (<i>Leucoraja erinacea</i>)</p>	796	<p><u>Andrew Fields</u>, Gunter Fisher, Stanley Shea, Huarong Zhang, et al</p> <p>Species composition of the global shark fin trade assessed by a genetics-based survey of the retail market</p>	2:00 PM
661	<p><u>Drew Duckett</u>, Greg Skomal, Adam Leache, Gavin Naylor</p> <p>Contrasting mitochondrial and nuclear signals in Great White Sharks, <i>Carcharodon carcharias</i></p>	122	<p><u>Mareike Dornhege</u>, Anne McDonald</p> <p>Shifts in Shark Community Assemblage in the North Pacific Indicated by the Japanese Longline Fishery</p>	2:15 PM
29	<p><u>Owen O'Shea</u>, Elizabeth Wallace</p> <p>Gene flow and connectivity in an elusive batoid from The Bahamas</p>	64	<p><u>M Aaron MacNeil</u>, Christopher J Fonnesebeck</p> <p>BRUVS relative abundance estimation for global shark surveys</p>	2:30 PM
757	<p><u>Agostino Leone</u>, Gregory Neils Puncher, Francesco Ferretti, Emilio Sperone, et al</p> <p>Mediterranean Jaws: Origin of the Mediterranean Population of Great White Shark, <i>Carcharodon carcharias</i>, Inferred from aDNA variation</p>	118	<p><u>Patrick Burke</u>, Maurits van Zinnicq Bergmann, Mark Bond, Samuel Gruber, et al</p> <p>Use of Baited Remote Underwater Video Surveys to Assess the Diversity and Distribution of Elasmobranchs and their Prey Species in Bimini, Bahamas</p>	2:45 PM
969	<p><u>Francisco Concha</u>, Janine Caira, Dave Ebert</p> <p>On the identities and affinities of South American skates: Two case studies</p>	25	<p><u>Lindsay Davidson</u>, Nicholas Dulvy</p> <p>Global Marine Protected Areas for Avoiding Extinctions</p>	3:00 PM
659	<p><u>Kristene Parsons</u>, Jan McDowell, Heidi Brightman, Eric Hilton, Robert Latour</p> <p>Review of the Smooth Butterfly Ray, <i>Gymnura micrura</i> (Myliobatiformes: Gymnuridae) Reveals a Species Complex in the Western North Atlantic Ocean</p>	556	<p><u>Kady Lyons</u>, Douglas H Adams</p> <p>Tissue distribution, accumulation, and maternal offloading of organochlorine contaminants in Bonnethead Sharks</p>	3:15 PM
1013	<p><u>Eduardo Villalobos</u>, Héctor Espinosa, Paulo Brito, Jesús Alvarado</p> <p>Morphological analysis of the genus <i>Zapteryx</i> (Rhinobatidae: Batoidea) and its phylogenetic implications</p>	726	<p style="text-align: center;"><b>Catherine Macdonald</b> <b>CANCELED</b></p> <p>Media Coverage of Shark Attacks in Cape Town, South Africa, 1850-2000</p>	3:30 PM
60	<p><u>Christian Jones</u>, Eric Hoffmayer, Jill Hendon, Joseph Quattro, et al</p> <p><i>Rhinoptera brasiliensis</i> Müller, 1836 in the northern Gulf of Mexico</p>			3:45 PM
<b>POSTER SESSION II</b> Acadia/Bissonet			<b>AES Business Meeting</b> 4-5 p.m.	4:00 PM
				5:00 PM
				6:00 PM

# Oral Presentations - Sunday, 10 July - Morning

ROOM		<i>Galerie 2</i>		<i>Galerie 3</i>
SESSION/ SYMPOSIUM		HERP CONSERVATION		FISH CONSERVATION
MODERATOR		AMY YACKEL ADAMS		TREVOR KRABBENHOFT
8:00 AM	221	<u>Jennifer Frey</u> , Ali Leggett The Mississippi Department of Marine Resources Coastal Preserves Program: Biological Inventory and Monitoring	149	<u>Rebecca Asch</u> , <u>Brad Erisman</u> Effects of Climate Change on the Distribution and Phenology of Nassau Grouper ( <i>Epinephelus striatus</i> ) Spawning Aggregations
8:15 AM	816	<u>Amy Yackel Adams</u> , Bjorn Lardner, Gordon Rodda, Julie Savidge, Robert Reed Can Detectability of Brown Treesnakes Reveal its Ability to Predict When it is Worth Foraging?	1060	<u>Clare Steele</u> , <u>Vanessa van Heerden</u> , <u>Mark Steele</u> , <u>Sean Anderson</u> <b>CANCELED</b> Evidence for Human Impacts on Reef Fish Communities on an Isolated Oceanic Island
8:30 AM	994	<u>Adam Knox</u> , Amy Yackel Adams, Robert Reed Transforming Rapid Response of Invasive Herps with Consumer Electronics	791	<u>David Edds</u> , David Gillette, Bibhuti Jha, Bhogendra Mishra Assessing fish community change in Nepal
8:45 AM	526	<u>Mark Davis</u> , Michael Dreslik, Sarah Baker, Chris Phillips, et al A Comparative Assessment of Pitviper Life Histories Using Robust Quantification	1031	<u>Julia Wester</u> <b>CANCELED</b> Opportunities in Hands-on Shark Outreach and Education
9:00 AM	217	<u>Allison Sacerdote-Velat</u> , Charles Calafiore, Lisa Raimondi Nest survival of Smooth Greensnakes, <i>Opheodrys vernalis</i> , in Illinois Grasslands	651	<u>Grantly Galland</u> , Anthony Rogers, Amanda Nickson A first global value of commercial tuna fisheries
9:15 AM	1116	<u>Dustin Wood</u> , Erika Nowak, Randy Jennings, Bruce Christman, et al Genetic Connectivity of Mexican and Narrow-headed gartersnakes across the major US watersheds using genome-wide SNP data	752	<u>Anna George</u> , Duncan Elkins, Sarah Hazzard, Bernie Kuhajda, Seth Wenger Conservation Planning for Southeastern Aquatic Biodiversity
9:30 AM		BREAK - 3rd Floor Foyer		
SESSION/ SYMPOSIUM		HERP CONSERVATION		HERP MORPHOLOGY & GENETICS
MODERATOR		ROBERT FISHER		ABIGAIL BERKEY
10:00 AM	1014	<u>John Willson</u> , Shannon Pittman, Tracey Tuberville, Jeffrey Beane, Michael Dorcas A Novel Approach to Estimating Density of Secretive Terrestrial Snakes	703	<u>Juan D. Daza</u> , Raynie Leard, Aaron M. Bauer, Emma Sherratt The Amber Gecko <i>Sphaerodactylus dommeli</i> : One Species or Two?
10:15 AM	1073	<u>Kimberly Terrell</u> , Daniel Breaux, Shelley Stiaes High Incidence of Snake Mortality at Bayou Sauvage National Wildlife Refuge (New Orleans, LA)	224	<u>C. Tristan Stayton</u> What Proportion of Turtle Shell Shape Evolution Can Be Explained by Functional Performance?
10:30 AM	991	<u>Kim Lovich</u> , Matthew Shirley, Shawn Heflick A Species Survival Plan Program for the West African Slender-snouted Crocodile ( <i>Mecistops cataphractus</i> ), a case study for the conservation of Critically Endangered crocodiles with <i>in</i> and <i>ex situ</i> partners	498	<u>Bruce Young</u> , Dawei Han The dynamic middle ear of the water monitor lizard ( <i>Varanus salvator</i> )
10:45 AM	563	<u>Mickey Parker</u> , Matt Goode Translocation as a Mitigation Strategy for Flat-tailed Horned Lizards ( <i>Phrynosoma mcallii</i> ) in Southwestern Arizona	798	<u>Travis Hagey</u> , Christofer Clemente Variation in Limb Length Across Lizards
11:00 AM	1107	<u>Robert Fisher</u> , Peter Harlow, Ramesh Chand, Jone Niukula, et al Community-Based Recovery of the Monuriki Island Crested Iguana ( <i>Brachylophus</i> cf. <i>vitiensis</i> ) in Fiji	958	<u>Danielle Edwards</u> , Luciano Avila, Lorena Martinez, Jack Sites, Mariana Morando Evolution of niche and ecomorphological traits in a phylogenetic context in lizards of the <i>Liolaemus bibroni</i> complex (Squamata: Liolaemini)
11:15 AM	751	<u>Lee Fitzgerald</u> , Wade Ryberg Conservation Scaling: Confronting the mismatch between ecological knowledge and conservation strategies	652	<u>Anna Savage</u> , Brian Gratwicke, Katherine Hope, Ed Bronikowski, Robert Fleischer Acquired immunity causes susceptibility in frogs infected with a deadly fungus
11:30 AM	762	<u>Michelle Collier</u> , Emma Hanslowe, Frank Ridgley, Bryan Falk, et al Do Invasive, Free-ranging Black and White Tegus ( <i>Tupinambis merianae</i> ) Exhibit Facultative Endothermy During Brumation?	650	<u>Abigail Berkey</u> , Marlis Douglas, Christopher Phillips Population genetics of the Four-Toed Salamander, <i>Hemidactylum scutatum</i> , at local and regional scales
11:45 AM				
12:00 PM		LUNCH ON YOUR OWN		

# Oral Presentations - Sunday, 10 July - Morning

	<i>Salon A-C</i>		<i>Salon D</i>	ROOM
	<b>FISH BEHAVIOR &amp; DEVELOPMENT</b>		<b>ASIH: LESSONS FROM SYMPOSIUM</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>TERRY DONALDSON</b>		<b>EDIE MARSH-MATTHEWS</b>	<b>MODERATOR</b>
864	<b><u>Stephen Szedlmayer</u>, Megan McKinzie</b> Gray Triggerfish, <i>Balistes capricus</i> , Movement Patterns, Residency, and Mortality on Artificial Reefs in the Northern Gulf of Mexico	95	<b><u>William Matthews</u>, Edie Marsh-Matthews</b> Long-term studies in Piney and Brier Creeks, the Midwest, and stream sites in Oklahoma: Lessons learned over 40 years	8:00 AM
338	<b><u>Terry Donaldson</u></b> Lek-like Mating Systems in Reef Fish Spawning Aggregations: What's Going on Here?	779	<b><u>Ginny Adams</u>, Reid Adams, Heather Saco</b> Persistence and Stability of Ozark Highland Fish Assemblages in Relation to Landscape and Local Variables	8:15 AM
881	<b><u>Christopher Brooks</u>, Jennifer Gumm</b> Territoriality and heterospecific 'dear enemy' recognition in two freshwater fishes (genus <i>Cyprinodon</i> )	658	<b><u>Donald Jackson</u>, Cindy Chu, Nigel Lester</b> Long-term (and Large-scale) Monitoring of Lake Fish Communities in Ontario	8:30 AM
214	<b><u>Darcy Bradley</u>, Yannis P. Papastamatiou, Steven D. Gaines, Jennifer E. Caselle</b> Do SCUBA divers affect the long-term spatial behavior of reef sharks? <b>CANCELLED</b>	212	<b><u>Martin O'Connell</u></b> Lessons from Long-term Studies of Fish Assemblages in the Pontchartrain Basin, Louisiana	8:45 AM
1047	<b><u>Timothy C. Tricas</u>, Kelly S. Boyle</b> Evolutionary Patterns of Sound Production in Coral Reef Butterflyfishes (Chaetodontidae)	77	<b><u>Christopher Hoagstrom</u></b> Using long-term data to solve a minnow-conservation puzzle	9:00 AM
714	<b>Yinan Hu, <u>Jacqueline F Webb</u></b> Ontogeny of the Olfactory and Gustatory Systems in <i>Elacatinus</i> spp. (Gobiidae): Potential for Chemosensory-Guided Navigation in Pelagic Fish Larvae?	174	<b><u>David Propst</u>, Keith Gido</b> Using Long-term Datasets to Characterize Effects of Major Disturbances on Dynamics of Arid-land Fish Assemblages	9:15 AM
<b>BREAK - 3rd Floor Foyer</b>				<b>9:30 AM</b>
	<b>TURTLE ECOLOGY</b>		<b>ASIH: LESSONS FROM SYMPOSIUM</b>	<b>SESSION/ SYMPOSIUM</b>
	<b>STAN TRAUTH</b>		<b>EDIE MARSH-MATTHEWS</b>	<b>MODERATOR</b>
735	<b><u>Pilar Santidrián Tomillo</u>, Meritxell Genovart, Frank Paladino, James Spotila, Daniel Oro</b> Temperature-dependent sex determination (TSD) is linked to temperature-dependent embryo mortality in sea turtles	862	<b><u>Joel Trexler</u>, William Loftus</b> Thirty years of bird food in the Everglades: Monitoring key links in the food web of an iconic ecosystem	10:00 AM
185	<b><u>Ryan Chabot</u>, Katherine Mansfield</b> Migratory Ecology and Reproduction in the Florida Green Turtle ( <i>Chelonia mydas</i> )	27	<b><u>Mark Pyron</u>, Robert Shields, Mario Minder</b> Long-term fish assemblages of the Wabash River is not enough	10:15 AM
621	<b><u>Matthew Carey</u>, David Rostal</b> Clutch Effects on Growth Rates in Gopher Tortoise, <i>Gopherus polyphemus</i> , Hatchlings	489	<b><u>Joshuah Perkin</u></b> Rubber bands & ratchets: Why does it take so much MacGyvering to establish a long-term freshwater fish community study?	10:30 AM
744	<b><u>Christopher Rowe</u>, Ryan Woodland, Paula Henry</b> Assessing Sea Level Rise and Future Habitat Availability for Diamondback Terrapins in Maryland	613	<b><u>Kit Wheeler</u>, Mary Freeman, Phillip Bumpers, Megan Hagler, Byron Freeman, Seth Wenger</b> Rates Add Meaning to Long-term Monitoring Data	10:45 AM
65	<b><u>Stan Trauth</u>, Dustin Siegel, Malcolm McCallum, David Jamieson, et al</b> Long-term Monitoring and Recovery of a Population of Alligator Snapping Turtles, <i>Macrochelys temminckii</i> (Testudines: Chelydridae), from a Northeastern Arkansas Stream	482	<b><u>Aaron Geheber</u></b> Incorporating Phylogenetic Relatedness Measures in Long-term Fish Community Studies: What can Temporal Patterns of Evolutionary Similarity Tell us?	11:00 AM
158	<b><u>Ylenia Chiari</u>, Arie van der Meijden, Julien Claude, Benjamin Gilles</b> Self-Righting Performance and Shell Evolution in Galápagos Tortoises	206	<b><u>Nathaniel Hitt</u>, Erin Snook, Danielle Massie</b> Inference from long-term data for theoretical and applied freshwater fish ecology	11:15 AM
295	<b><u>Francis Rose</u>, Thomas Simpson, Ivana Mali</b> Nesting and Repeated Use of Exit Sites for Nesting by Two Freshwater Turtles, <i>Pseudemys texana</i> and <i>Trachemys scripta</i> : Results from a 20-year study	722	<b><u>Gary Grossman</u></b> Long-term Data in a Changing World: Lessons from Stream Fishes	11:30 AM
669	<b><u>Corey Devin Anderson</u>, Brittany A. Mixon, Colleen M. McDonough, Gregory W. Lee, J. Mitchell Lockhart</b> Burrowing by the Nine-Banded Armadillo ( <i>Dasypus novemcinctus</i> ) Does Not Affect the Spatial Distribution of Gopher Tortoise ( <i>Gopherus polyphemus</i> ) Burrows		<b>Panel Discussion (11:45 AM - 12:15 PM)</b>	11:45 AM
<b>LUNCH ON YOUR OWN</b>				<b>12:00 PM</b>

# Oral Presentations - Sunday, 10 July - Morning

ROOM		<i>Salon E</i>		<i>Salon F-H</i>
SESSION/ SYMPOSIUM		AES SAWFISHES SYMPOSIUM		HERP ECOLOGY
MODERATOR		DEAN GRUBBS		BRIAN TODD
8:00 AM	795	<u>R. Dean Grubbs</u> , John Carlson, Mark Bond, Bianca Prohaska, Johanna Imhoff Smalltooth Sawfish in Florida and the Bahamas – National Parks as Potential “Lifeboats” for Recovery	93	<u>Brian Todd</u> , Justin Nowakowski, Steven Whitfield, Evan Eskew, et al Variation in Host Thermal Tolerances Explains Patterns Of <i>Batrachochytrium dendrobatidis</i> Infection In Amphibians
8:15 AM	253	<u>Andrea Kroetz</u> , Dana Bethea, John Carlson Predictive modeling of habitat use by juvenile smalltooth sawfish ( <i>Pristis pectinata</i> )	229	<u>Mark Hayes</u> Temporal Patterns of Invasion by Non-native Reptiles in Florida
8:30 AM	382	<u>Cecily Burton</u> , Rachel Scharer, Philip Stevens, Gregg Poulakis Diel Movements and Habitat Use of the Smalltooth Sawfish, <i>Pristis pectinata</i> , in the Peace River: Implications for Defining the Boundaries of a Nursery Hotspot	540	<u>Brian J. Smith</u> , Christina M. Romagosa, Frank J. Mazzotti, Mathieu Basille, Kristen M. Hart Does GPS Technology Help Refine Our Understanding of Invasive Burmese Python Spatial Ecology?
8:45 AM	560	<u>Jeff Whitty</u> , James Keleher, Adrian Gleiss, Brendan Ebner, et al Heterogeneous habitat use of the critically endangered largetooth sawfish ( <i>Pristis pristis</i> ) in a riverine nursery	829	<u>Clifford Fontenet</u> The Influence of Hurricanes on Local Snake Abundance and Road Mortality: 11 Years of Data From a Southeastern Louisiana Wetland Assemblage
9:00 AM	600	<u>Peter Kyne</u> , Pierre Feutry, Rob Lindsay, Amos Shields, et al Floodplain Waterholes as High Risk Nursery Habitat for the Critically Endangered Largetooth Sawfish in Northern Australia	609	<u>Scott Goetz</u> , Craig Guyer, Scott Boback, Christina Romagosa Snakes Fail to Recognize the Costs of Eating Invasive Cuban Treefrogs, <i>Osteopilus septentrionalis</i>
9:15 AM		363 - Rachel Scharer 811 - Lisa Hollensead 370 - Gregg Poulakis <b>NOTE: See page 60 for all authors and titles of lightning talks.</b>	518	<u>Michael Benard</u> , Hilary Rollins Combined Effects of Variable Snow Cover and Shifting Phenology on Wood Frogs
9:30 AM		BREAK - 3rd Floor Foyer		
SESSION/ SYMPOSIUM		AES SAWFISHES SYMPOSIUM		HERP ECOLOGY
MODERATOR		KARA YOPAK		JOHN MAERZ
10:00 AM	262	<u>Andrew Fields</u> , <u>Kevin Feldheim</u> , Gregg Poulakis, Rachel Scharer, Demian Chapman Insights on Smalltooth Sawfish, <i>Pristis pectinata</i> , Biology and Life History from Over a Decade of Genetic Sampling	611	<u>Timothy J. Colston</u> , Brice P. Noonan, Colin R. Jackson The Evolution of Squamate Reptile Gut Microbiomes
10:15 AM	644	<u>Jeanette Huber</u> , Gavin Naylor, Tanya Darden From past to present: A global population structure and genetic diversity study of a critically endangered fish using historical specimens	359	<u>Jon Davenport</u> , Blake Hossack, LeeAnn Fishback Additive impacts of experimental climate change increase risk to an ectotherm at the Arctic's edge
10:30 AM	259	<u>Nicole Phillips</u> , David Morgan Genetic Bottlenecks in <i>Pristis</i> Sawfishes in Australia	554	<u>Matthew Lattanzio</u> Diet shifts and the morphological response of tree lizards to recent climate change
10:45 AM	340	<u>Kara Yopak</u> , Barbara Wueringer, Kirk Feindel, Shaun Collin What you Saw Isn't always What you Get: Patterns of Brain Organization in Sawfishes	53	<u>Christopher Thawley</u> , Tracy Langkilde Invasive Fire Ant ( <i>Solenopsis invicta</i> ) Predation of Eastern Fence Lizard ( <i>Sceloporus undulatus</i> ) Eggs
11:00 AM	738	<u>Monique Welten</u> , Moya Meredith Smith, Charlie Underwood, Zerina Johanson Teeth inside and outside the mouth: an X_CT analysis of topographic relationships in sawshark and sawfish dentitions (Elasmobranchii; Chondrichthyes)	716	<u>John Maerz</u> , Susan Wilde, Vanessa Kinney Terrell, Sonia Hernandez, et al Amphibian and Reptile Vulnerability to Hydrilla Invasions and the Spread of <i>Aetokthonos hydrillicola</i>
11:15 AM	422	<u>Jim Gelsleichter</u> , R. Dean Grubbs, John Carlson Updated information on the reproductive biology of the smalltooth sawfish <i>Pristis pectinata</i>	1067	<u>Amber Wright</u> , Gregory Pauly, Anthony Barley, Robert Thomson Historical Resurveys of Lizard Communities in the Mojave Desert
11:30 AM	129	<u>Colin Simpfendorfer</u> , Peter Kyne, Tansyn Noble, Julie Goldsbury, et al Environmental DNA detects Critically Endangered largetooth sawfish in the wild	8	<b>CANCELED</b> <u>Javier Pinto</u> , Omar Torres Ecology of a Community of Lizards ( <i>Anolis</i> : Dactyloidae) in Yasuni National Park, Ecuador
11:45 AM		974 - Dana Bethea 42 - John Carlson <b>NOTE: See page 60 for all authors and titles of lightning talks.</b>	14	<u>Daniel Mesquita</u> , Gabriel Costa, Guarino Colli, Tais Costa, et al Life history patterns of lizards of the world
12:00 PM		LUNCH ON YOUR OWN		

# Oral Presentations - Sunday, 10 July - Morning

	<i>Balconies J &amp; K</i>		<i>Balconies L &amp; M</i>	ROOM
	FISH REPRODUCTION, PHYSIOLOGY, & CONSERVATION		SQUAMATE BIOLOGY	SESSION/ SYMPOSIUM
	NANCY BROWN-PETERSON		DIANA HEWS	MODERATOR
479	<p style="text-align: center;"><u>Julie L Day</u>, Ron Barnes, Darrick Weissenfluh</p> <p>From Manuscript to Management: Development of a New Assisted Rearing Program for Endangered Klamath Suckers (Catostomidae)</p>	112	<p style="text-align: center;"><u>Diana Hews</u>, Ryan Seddon, Cuauhcihuatl Vital-Garcia, Jaime Zúñiga-Vega, Emilia Martins</p> <p>Phylogenetic Analyses of <i>Sceloporus</i> Lizards Reveal that Species with Abdominal Blue Patches Have Higher Plasma Testosterone Levels</p>	8:00 AM
1061	<p style="text-align: center;"><u>Solomon David</u>, Scott Hansen, Peter McIntyre, Andrew Rypel, et al</p> <p>Call It a Comeback: Reemergence and Restoration of Great Lakes Coregonid Fishes</p>	936	<p style="text-align: center;"><u>Zachary Rodriguez</u>, Christopher Austin</p> <p>Why so green? Investigating the evolutionary history of unusual traits in New Guinea lizards</p>	8:15 AM
28	<p style="text-align: center;"><u>Nancy J. Brown-Peterson</u>, Alexander Q. Fogg, Mark S. Peterson</p> <p>Reproductive Biology of Invasive Lionfish, <i>Pterois</i> spp., in the northern Gulf of Mexico</p>	748	<p style="text-align: center;"><u>Christopher R. Peterson</u>, Arthur C. Echternacht</p> <p>Intraspecific color and habitat use variation in <i>Anolis Conspersus</i></p>	8:30 AM
1071	<p style="text-align: center;"><u>Mark Steele</u>, Mia Adreani</p> <p>Effects of temperature on interannual variation in reproduction of three batch-spawning kelp forest fishes</p>	523	<p style="text-align: center;"><u>Ben Halliwell</u>, Tobias Uller, Erik Wapstra, Geoffrey White</p> <p>Habitat structure mediates social and mating behaviour in a family living lizard</p>	8:45 AM
152	<p style="text-align: center;"><u>Bryan Frenette</u>, Michael Tobler, Keith Gido</p> <p>Physiological Constrains on the Distribution and Abundance of Two Prairie Stream Fishes in Relation to Thermal Regime</p>	82	<p style="text-align: center;"><u>Kevin Avilés-Rodríguez</u>, Andrew Battles, Jason Kolbe</p> <p>Structural habitat alterations caused by urbanization influence escape behavior of a common lizard</p>	9:00 AM
902	<p style="text-align: center;"><u>Jennifer Granneman</u>, Steve Murawski, Ernst Peebles</p> <p>Metal Exposure, as Documented in Otoliths, may be Detrimental to Gulf of Mexico Fish Health</p>	52	<p style="text-align: center;"><u>Michael Grundler</u></p> <p>SquamataBase: The Squamate Diet Database - <i>Building a "next-generation" natural history database for ecology and evolutionary biology</i></p>	9:15 AM
<b>BREAK - 3rd Floor Foyer</b>				
	GENERAL ICHTHYOLOGY I		GENERAL HERPETOLOGY	SESSION/ SYMPOSIUM
	CHRIS TAYLOR		JOHN VANEK	MODERATOR
142	<p style="text-align: center;"><u>Phillip Parsley</u>, David R. Stewart</p> <p>Investigating the Utility and Relative Accuracy of Nonlethal Ageing Structures to Age Two Nonnative (Brook Trout and Brown Trout) and One Native (Rio Grande Cutthroat Trout) Trout Species Collected in Carson National Forest, New Mexico</p>	442	<p style="text-align: center;"><u>Amber Hale</u>, Mark Merchant</p> <p>Structure and expression analysis of crocodylian NF-κB in American alligators</p>	10:00 AM
276	<p style="text-align: center;"><u>Rosalee Reese</u>, <u>Thomas Turner</u>, David Propst, Keith Gido</p> <p>Retrospective food web analysis of the Gila River reveals limited resource availability during drought</p>	10	<p style="text-align: center;"><u>Mark Merchant</u>, Jenn Brueggen, Shawn Heflick, Curt Harbsmeier, et al</p> <p>Crocodylian Adaptation to Environment: A Croc of a Different Color</p>	10:15 AM
1000	<p style="text-align: center;"><u>Warren Stiles</u>, Carol Johnston</p> <p>Hydrologic Change as a Driver in Fish Assemblage Shifts in Alabama, USA</p>	261	<p style="text-align: center;"><u>Jonathan Warner</u>, Xander Combrink, Jan Myburgh, Colleen Downs</p> <p>Blood Lead Concentrations in Nile Crocodiles (<i>Crocodylus niloticus</i>) from South Africa</p>	10:30 AM
21	<p style="text-align: center;"><u>Ruthie Barbas</u>, Matthew Gilg</p> <p>Tests of Reproductive Isolation Between the Killifishes <i>Fundulus heteroclitus</i> and <i>F. grandis</i></p>	836	<p style="text-align: center;"><u>Jennifer Deitloff</u>, Jacob Fetterman, Todd Pierson</p> <p>Variation in mating tactics of <i>Eurycea wilderae</i>: Does morphology correlate with mating strategy used by males?</p>	10:45 AM
33	<p style="text-align: center;"><u>Mario Minder</u>, Mark Pyron</p> <p>Are Diets of Native Fishes the Same as Silver Carp in the Wabash River?</p>	1078	<p style="text-align: center;"><u>John Vanek</u>, Russell Burke</p> <p>Behavioral Ecology of Dwarfed Eastern Hog-nosed Snakes (<i>Heterodon platirhinos</i>) on a Barrier Island</p>	11:00 AM
369	<p style="text-align: center;"><u>Frank Pezold</u>, Ray Schmidt, Melanie Stiasny</p> <p>Fishes of the Geebo – Dugbe River Confluence, Liberia, with an Emphasis on Tributary Creeks</p>	950	<p style="text-align: center;"><u>Kimberly Andrews</u>, Katie Parson</p> <p>The Influence of Temperature on Activity Patterns and Surfacing Behavior of Coastal Rattlesnakes</p>	11:15 AM
267	<p style="text-align: center;"><u>Kassandra Ford</u>, Samba Diallo, Frank Pezold</p> <p>A new online reference to the freshwater and estuarine fishes of Guinea West Africa</p>	736	<p style="text-align: center;"><u>Christopher Howey</u>, Michaleia Mead, Mark Herr, Tracy Langkilde</p> <p>Thermoregulation and Predation Risk Trade-offs at Timber Rattlesnake Rookery Sites</p>	11:30 AM
349	<p style="text-align: center;"><u>Karen Field</u>, Karen Maruska</p> <p>Context-dependent chemical signaling and social behaviors in reproductively-receptive female cichlids</p>	367	<p style="text-align: center;"><u>Sarah Baker</u>, Michael Dreslik, Christopher Phillips, Matthew Allender</p> <p>Hematology and Emergence of Snake Fungal Disease in Illinois Eastern Massasaugas (<i>Sistrurus catenatus</i>)</p>	11:45 AM
<b>LUNCH ON YOUR OWN</b>				
				12:00 PM



# Oral Presentations - Sunday, 10 July - Afternoon

ROOM		Galerie 2		Galerie 3
SESSION/ SYMPOSIUM		HERP CONSERVATION & ECOLOGY		SNAKE ECOLOGY
MODERATOR		JAMES SPOTILA		ROCKY PARKER
1:30 PM	840	<del>Krista Mouney, Gad Perry</del> <b>CANCELED</b> Status of the Stout Iguana ( <i>Cyclura pinguis</i> ) on Guana Island, British Virgin Islands	926	<b>M. Rockwell Parker, Saumya M. Patel, Jennifer Zachry, Bruce A. Kimball</b> The smell of success: pheromones in brown tree snakes and their hormonal regulation
1:45 PM	1018	<b>Melia Nafus, Todd Esque, Kenneth Nussear, Roy Averill-Murray, Ronald Swaisgood</b> Seeking to Hide: Habitat Effects on Dispersal and Survival of Translocated Juvenile Desert Tortoises	121	<b>Bjorn Lardner, Amy A. Yackel Adams, Julie A. Savidge, Gordon H. Rodda, Robert N. Reed</b> Invasive Brown Treesnakes ( <i>Boiga irregularis</i> ) suppress the rat population that governs their vital rates
2:00 PM	306	<b>Aliki Panagopoulou, Samir H. Patel, Stephen J. Morreale, Dimitris Margaritoulis, et al</b> Using Satellite Telemetry to Optimize Protection of Loggerhead Turtles ( <i>Caretta caretta</i> ) Nesting on Crete, Greece	294	<b>Eric Suarez, Christina Romagosa, Carla Dove, Bryan Falk, Robert Reed</b> Prey species composition and dietary shifts of the Burmese python ( <i>Python molurus bivittatus</i> ) in southern Florida
2:15 PM	48	<b>Tomoharu Eguchi, Scott Benson, David Foley, Karin Forney</b> Predicting Overlap Between Drift Gillnet Fishing and Leatherback Turtle Habitat in the California Current Ecosystem	766	<b>Jessica Harvey, Karl Larsen</b> Rattlesnake migration in Canada and its relationship to the thermal properties of landscapes
2:30 PM	721	<b>James Spotila, Pilar Santidrián Tomillo, Gabriela Blanco, Nathan Robinson, et al</b> 27 Years and Counting: Leatherback Turtles, <i>Dermochelys coriacea</i> , at Parque Marino Nacional Las Baulas in Costa Rica- Down but not Out!	145	<b>Michael Dreslik, John Crawford, Sarah Baker, William Peterman, Christopher Phillips</b> Factors Affecting the Detection Probability and Capture Yield of an Imperiled Species
2:45 PM	1086	<b>Steven Salinas, Alfonso Trujillo, Justin Saiz, Lisa McBride, et al</b> Is the American Bullfrog ( <i>Lithobates catesbeianus</i> ) as successful and invader as it seems, or does it receive help from other invasives?	635	<del>Mitchell Barazowski, Neil Ford, John Placyk, Joshua Banta, Richard Seigel</del> <b>CANCELED</b> Testing the Ability of Ecological Niche Modeling to Identify Habitat Needs of the Western Massasauga ( <i>Sistrurus tergeminus</i> ) Using Radio Telemetry
3:00 PM		<b>BREAK - 3rd Floor Foyer</b>		
SESSION/ SYMPOSIUM		FISH CONSERVATION & MORPHOLOGY		NIA II
MODERATOR		STACY FARINA		MARK SABAJ
3:30 PM	570	<b>Jan Jeffrey Hoover, Daniel P. Zielinski, Peter W. Sorensen</b> Swimming Performance and Hydraulic Containment of Bigheaded Carp ( <i>Hypophthalmichthys</i> spp.)	1006	<b>Donald Stewart</b> Taxonomic and Conservation Status of <i>Arapaima mapae</i> : Data Deficient Fishes in Limited Habitat
3:45 PM	898	<b>Kristine Stump, Craig Dahlgren, Krista Sherman, Charles Knapp</b> Discovery of an Unknown Grouper Spawning Aggregation in The Bahamas Through the Use of Acoustic Telemetry	980	<b>Carlos DoNascimento</b> Disentangling the Systematics of the Neotropical Catfish Genus <i>Trichomycterus</i> (Siluriformes, Trichomycteridae)
4:00 PM	886	<b>Bridgette Froeschke, Leslie Jones, Brian Garman</b> The Influence of Gear Type, Environmental, Spatial, and Temporal Parameters on Distribution Patterns of Sheepshead ( <i>Archosargus probatocephalus</i> ) in Tampa Bay, Florida from 1996 to 2014	94	<b>Tiago Carvalho, Roberto Reis, John Friel, Jonathan Baskin, John Lundberg</b> High-Resolution Computed Microtomography of Two New and Rare Species of Banjo Catfishes from Venezuela (Siluriformes: Aspredinidae: Hoplomyzontini)
4:15 PM	1022	<b>Charles W. Olaya-Nieto, Ángel L. Martínez-González, Fredys F. Segura-Guevara</b> Multiannual Length-Weight Relationship of Moncholo <i>Hoplias malabaricus</i> in the Ciénaga de Ayapel, Colombia	720	<b>Allison Pease, Krista Capps, Rocio Rodiles-Hernández, María Mercedes Castillo, Manuel Mendoza-Carranza</b> Fish Assemblages and Aquatic Food-web Structure in Two Mesoamerican River Networks with Contrasting Flow Regimes
4:30 PM	927	<b>Stephen Szedlmayer, Peter Mudrak</b> A Comparison between Conventional and Transmitter Tagged Red Snapper, <i>Lutjanus campechanus</i> , to estimate Fishing Mortality in the Northern Gulf of Mexico	717	<b>Benjamin Frible, Bruno Melo, Claudio Oliveira, Brian Sidlauskas</b> Paleoecological influence and the historical biogeography of the Neotropical fish family Prochilodontidae (Ostariophysi:Characiformes)
4:45 PM	870	<b>Stacy Farina</b> Virtual fish gills: Computational modeling of gills to examine hydrodynamic trade-offs in fishes from diverse habitats	529	<b>Joseph Waddell, William Cramptom</b> Condition-dependent Electric Signaling in a Community of the Gymnotiform Knifefish <i>Brachyhypopomus</i> from the Upper Amazon
5:00 PM				

# Oral Presentations - Sunday, 10 July - Afternoon

	<i>Salon A-C</i>		<i>Salon D</i>	ROOM
	FISH MORPHOLOGY & BIOGEOGRAPHY		FISH GENETICS	SESSION/ SYMPOSIUM
	CHRIS KENALEY		SHANNON O'LEARY	MODERATOR
1112	<u>Christopher Kenaley</u> , John Yoo, Mary Toner, David Cartier, et al Mechanics of Fish Skin: Contrasting Material Properties Between Functional Systems	293	<u>Shannon J. O'Leary</u> , Christopher M. Hollenbeck, John R. Gold, David S. Portnoy Genomics as a Tool for Restoration Enhancement of Southern Flounder	1:30 PM
684	<u>Charlene McCord</u> , Mark Westneat Functional Morphology of the Unique Triggerfish Jaw Apparatus (Teleostei: Balistidae)	277	<u>Stuart Willis</u> , Jonathan Puritz, David Portnoy, John Gold Low genomic divergence among King Mackerel ( <i>Scomberomorus cavalla</i> ) in northern temperate waters of the western Atlantic Ocean revealed by ddRAD sequencing	1:45 PM
719	<u>Katherine Bemis</u> , Samantha Burke, Taylor Hughes, Carl St. John, William Bemis Tooth development, attachment, and replacement in Atlantic Cutlassfish, <i>Trichiurus lepturus</i>	86	<u>Jake Schaefer</u> , Brian Kreiser, Stephen Flanagan Population genomics of <i>Fundulus grandis</i> following the Deepwater Horizon oil spill	2:00 PM
17	<u>Tim Berra</u> , You He, Dion Wedd A Microtomographic Osteology of the Forehead Hook of Nurseryfish, <i>Kurtus gulliveri</i> (Perciformes: Kurtidae)	423	<u>Andrew Thompson</u> , Jason Podrabsky, Guillermo Orti The Transcriptomics of Delayed Hatching and Desiccation Tolerance in the Non-Annual Killifish <i>Aplocheilichthys lineatus</i>	2:15 PM
159	<u>Adam P. Summers</u> , Kevin Conway, Thaddeus Buser Scan All the Fishes - Open Source CT data	474	Christopher Hollenbeck, <u>David Portnoy</u> , John Gold Population Genomics of Red Drum, <i>Sciaenops ocellatus</i>	2:30 PM
728	<u>Juliette Tariel</u> , <u>Gary Longo</u> , Giacomo Bernardi Tempo and Mode of Speciation in <i>Holacanthus</i> Angelfishes Based on RADseq Markers	1011	<u>Trevor J. Krabbenhoft</u> , Thomas E. Dowling Population Genomics and Local Adaptation in Invasive Sea Lamprey ( <i>Petromyzon marinus</i> ) in the Great Lakes	2:45 PM
<b>BREAK - 3rd Floor Foyer</b>				<b>3:00 PM</b>
	FISH MORPHOLOGY & BIOGEOGRAPHY		FISH GENETICS	SESSION/ SYMPOSIUM
	BROOK FLUKER		TYLER PILGER	MODERATOR
602	<u>Claudio Quezada-Romegialli</u> , Gloria Arratia, Irma Vila, David Véliz The Abanico Basin and the Biogeography of the Andean Ichthyofauna	645	<u>Alexis Janosik</u> , Mariah Pflieger, Steven Rider, Carol Johnston Saving the Doomed: the Importance of Detection for Conservation of Sturgeon (Acipenseridae)	3:30 PM
11	<u>Greg Seegert</u> Evaluation of the Wabash River Fish Community After a Power Plant Shutdown	677	<u>Jeremy Tiemann</u> , Trent Thomas, John Epifanio, Wendy Schelsky The Redspotted Sunfish Saga: From statewide surveys to genetic analyses, captive propagation, and reintroduction efforts	3:45 PM
353	<u>James S. Albert</u> , Victor A. Tagliacollo, Scott M. Duke-Sylvester Barrier displacement on a neutral landscape: Towards a theory of continental biogeography	481	<u>Chloe Nash</u> , Michelle Kraczkowski, Barry Chernoff Genetic Structure of <i>Atherinomorus stipes</i> , Hardhead Silverside, in Belize and Florida based upon <i>nd2</i>	4:00 PM
742	<u>Andrew Furness</u> , David Reznick, John Avise Ecological, evolutionary, and human-mediated determinants of Poeciliid species richness on Caribbean islands	451	<u>Michael Franklin</u> , Chris Chabot, Larry Allen A Baseline Investigation into the Population Structure of White Seabass, <i>Atractoscion nobilis</i> , in California and Mexican Waters Using Microsatellite DNA Analysis	4:15 PM
1083	<u>Brook Fluker</u> Identifying Phylogeographic Breaks in Darters Across the Gulf Coastal Plain of the Southeastern United States	638	<u>Thomas Dowling</u> , Paul Marsh, Robert Clarkson Molecular markers identify segregation of two species of chubs (genus <i>Gila</i> ) in an Arizona stream	4:30 PM
230	<u>Bruce Mundy</u> , Mackenzie Gerringer, Astrid Leitner, Randal Singer Bridging a Deep Gap: First Records of Wide-spread Bathyal and Abyssal Fish Genera from the Central North Pacific Gyre	1032	<u>Tyler Pilger</u> , Keith Gido, David Propst, James Whitney, Thomas Turner Wildfires differentially affect population genetics of native and nonnative fishes of the Gila River	4:45 PM
909	<u>Nicholas Zielinski</u> , Ian Bollinger, Ryan Lavoie, Julianne Rawson, Jeff Eble The Black Triggerfish ( <i>Melichthys niger</i> ): A Circumtropical Species or Species Complex?			5:00 PM

# Oral Presentations - Sunday, 10 July - Afternoon

ROOM		<i>Salon E</i>		<i>Salon F-H</i>
SESSION/ SYMPOSIUM		AES SAWFISHES SYMPOSIUM		AMPHIBIAN ECOLOGY & GENERAL HERPETOLOGY
MODERATOR		SONJA FORDHAM		BRIAN HALSTEAD
1:30 PM	327	<u>Ruth Leeney</u> , Nick Dulvy, Frances Humber, Aude Carro Madagascar and Mozambique - the last hope for Africa's sawfishes?	58	<u>Richard Shine</u> , Michael Crossland, Jayna DeVore, Simon Ducatez, Greg Clarke Malevolent Tadpoles and Their Rapidly Evolving Weaponry
1:45 PM	47	<u>Ramón Bonfil</u> , Melina Ricaño-Soriano, Oscar Uriel Mendoza-Vargas, Nataly Bolaño-Martínez, Paola Yanira Palacios-Barreto Gone right under our noses? - Conservation Status of 'El Tiburón Sierra' ( <i>Pristis</i> ssp.) in México	1043	<u>Julia Earl</u> , Luke Pauley, Raymond Semlitsch Frogs as Fertilizer? Effects of Metamorph Amphibians on Plant Growth
2:00 PM	713	<u>Armelle Jung</u> , Mohamed Kamara, Salatou Sambou, Inluta Incom, et al Sawfishes in Northwestern Africa	960	<u>Sandra P. Galeano</u> , Kyle E. Harms Assembly Patterns of Leaf-litter Anurans on Neotropical Land-bridge Islands: Species Co-occurrence and The Role of Morphological Traits
2:15 PM	723	<u>Rima Jabado</u> , Reem Al Baharna, Sultan Al Ali, Mohsin Al Ameri, Ayesha Al Blooshi The Last Stand of the Critically Endangered Green Sawfish, <i>Pristis zijsron</i> , in the Arabian Gulf?	405	<u>Brian Folt</u> Trees as Templates for the Abundance of Tropical Herpetofauna: A Test of the Guyer Hypothesis
2:30 PM	297	<u>Iqbal Elhassan</u> The Occurrence of the Green Sawfish ( <i>Pristis zijsron</i> ) along the Sudanese Red Sea with Observations on Some Reproductive Parameters	971	<u>Brian Halstead</u> , Patrick Kleeman Ecology of California Red-legged Frogs ( <i>Rana draytonii</i> ) in Coastal Dune Systems
2:45 PM		37 - William White 136 - Jason C. Seitz 569 - Muhammad Moazzam  <b>NOTE: See page 60 for all authors and titles of lightning talks.</b>	1052	<u>Sarah Bolton</u> , Kelsie Dickerson, Ralph Saporito Variation in Alkaloid Defenses of the Dendrobatid Poison Frog <i>Oophaga pumilio</i> Lead to Differences in Avoidance by the Neotropical Ant <i>Ectatomma ruidum</i>
3:00 PM		BREAK - 3rd Floor Foyer		
SESSION/ SYMPOSIUM		AES SAWFISHES SYMPOSIUM		AMPHIBIAN ECOLOGY & GENERAL HERPETOLOGY
MODERATOR		GREGG POULAKIS		MARK MILLS
3:30 PM	115	<u>Nicholas Dulvy</u> , Will Stein, Chris Mull, Tyler Kuhn, et al Using trees to save sharks and rays	892	<u>Elijah White</u> , Joseph Pechmann Life Cycles of a Facultatively Paedomorphic Salamander at High Elevation
3:45 PM	292	<u>Tonya Wiley-Lescher</u> , <u>Adam Brame</u> Endangered Species Act Five-year Review and Recovery Plan Updates for US Smalltooth Sawfish, <i>Pristis pectinata</i>	132	<u>Ishan Agarwal</u> , Praveen Karanth Mass Extinctions with Miocene Warming
4:00 PM	330	<u>Stacia White</u> , <u>Katy Duke</u> , Paula Carlson, Alan Henningsen, et al Making Connections for Sawfish: The Role of Public Aquaria in Sawfish Biology and Conservation	191	<u>Luke Pearson</u> , WB Cash Seasonal Variations in Corticosterone and Testosterone Concentrations of Male Ouachita Map Turtles ( <i>Graptemys ouachitensis</i> )
4:15 PM	949	<u>Alec Moore</u> Guitarfishes: can learning from the sawfish disaster prevent a similar fate?	354	<u>John Steffen</u> , Stephen Drozda, Jessica Hultberg The effects of carotenoid and food supplementation on Blood Plasma Reactive Oxygen Species levels in Painted Turtles
4:30 PM	995	<u>Sonja Fordham</u> Saving Sawfish: Progress and Priorities for Preventing Extinction and Promoting Recovery	822	<u>Betsie B. Rothermel</u> , K. Nicole White, Michael T. White, Kelly R. Zamudio, Tracey D. Tuberville Patterns of reproductive output in Gopher Tortoises inhabiting modified sandhill in southern Florida, USA
4:45 PM		416 - Micah Barkenhaster 580 - Jason C. Seitz 610 - Barbara Wueringer  <b>NOTE: See page 60 for all authors and titles of lightning talks.</b>	636	<u>Aundrea Westfall</u> , <u>Melissa Miller</u> , Christopher Murray, Bryan Falk, et al Morphological Plasticity of a Non-Native Parasite in Novel Snake Hosts
5:00 PM				

# Oral Presentations - Sunday, 10 July - Afternoon

	<i>Balconies J &amp; K</i>		<i>Balconies L &amp; M</i>	ROOM
	GENERAL ICHTHYOLOGY II		GENERAL HERPETOLOGY	SESSION/ SYMPOSIUM
	DEVIN BLOOM		EDWARD STANLEY	MODERATOR
		153	<b>Kate Jackson, Ange-Ghislain Zassi-Boulou, Sylvestre Boudzoumou, Lise-Bethy Mavoungou, et al</b> Prevalence of amphibian chytrid fungus across the Congo River drainage basin	1:30 PM
425	<b>Devin Bloom, Haley Ohms</b> On the Origins of Diadromy: A Conceptual and Empirical Evaluation of the Productivity Hypothesis	933	<b>Brad Glorioso, Hardin Waddle</b> Effect of Salinity on Anuran Occupancy in Big Thicket National Preserve, Texas	1:45 PM
169	<b>John Denton</b> Diversification patterns in myctophiform fishes suggest a positive response to a range of oceanic perturbations	695	<b>Craig Lind, Terence Farrell</b> Hormonal Regulation of Maternal Care Behavior in a Viviparous Pitviper	2:00 PM
490	<b>Kenneth Thompson</b> Karyotypes of Two Species of Sculpin ( <i>Cottus</i> ) and their Hybrid in Central Pennsylvania with a Discussion of Chromosomal Evolution in the Cottidae	891	<b>Sarah Kirkpatrick, Vincent Cobb</b> Do Timber Rattlesnakes Exhibit Postprandial Thermophily in the Field?	2:15 PM
180	<b>Viviana Astudillo-Clavijo, Katriina, L. Ilves, Walter Salzburger, Melanie, L.J. Stiassny, Hernán López-Fernández</b> A Phylogenomic Tree for African non-Rift-Lake Cichlids	810	<b>Terence Farrell, Sarah Smiley-Walters, Diane McColl</b> Pigmy rattlesnake ( <i>Sistrurus miliarius</i> ) foraging behavior in trials with skinks ( <i>Scincella lateralis</i> ) and centipedes ( <i>Scolopendra viridis</i> )	2:30 PM
727	<b>João Pedro Fontenelle, William Crampton, Nathan Lovejoy</b> Does Water Color Matter? Phylogeny and Phylogeography of the Genus <i>Steatogenys</i> (Boulenger, 1898) (Gymnotiformes: Hypopomidae)	792	<b>Edward Stanley</b> Phylogenetic and ecological diversity within the widespread melanistic species <i>Hemicordylus capensis</i>	2:45 PM
<b>BREAK - 3rd Floor Foyer</b>				<b>3:00 PM</b>
	GENERAL ICHTHYOLOGY II		GENERAL HERPETOLOGY	SESSION/ SYMPOSIUM
	GLENN PARSONS		JOSE DO AMARAL	MODERATOR
301	<b>Macaulay White, J. Derek Hogan, Luke Tornabene, Frank Pezold</b> Pelagic Larval Duration and Amphidromy Not Linked to Endemism in Stiphodon Gobies	1085	<b>José Pedro do Amaral, Duaa Mureb</b> Patterns of movement during wall lizard thermoregulation	3:30 PM
1004	<b>Page E. Vick, Mark S. Peterson, William T. Slack, Paul O. Grammer</b> Are there differences in critical habitat use between western and eastern Gulf Sturgeon ( <i>Acipenser oxyrinchus desotoi</i> ) population segments on Ship Island, Mississippi Sound, north-central Gulf of Mexico?	465	<b>Veronica Saenz, Jamie Voyles, Bree Rosenblum, Corinne Zawacki</b> How Does <i>Batrachochytrium dendrobatidis</i> Pathogenicity Change After An Epidemic?	3:45 PM
362	<b>David Reeves, Ryan Munnely, Edward Chesney, Donald Baltz</b> Fish Assemblage Structure at Small Oil and Gas Platforms on and around a Sand Shoal in the Northern Gulf of Mexico	351	<b>Kyle Hovey, Emily Seiter, Erin Johnson, Ralph Saporito</b> Do Variable Alkaloid Defenses in the Dendrobatid Poison Frog <i>Oophaga pumilio</i> Provide Equal Protection from Microbial Pathogens?	4:00 PM
530	<b>Amelia Smith, James Sulikowski, John Mandelman, David Rudders</b> Stress and discard mortality of <i>Lophius americanus</i> in the scallop dredge fishery	219	<b>Jennifer Swanson, Clay Pierce, Erin Muths, Kelly Smalling, Mark Vandever</b> Habitat Use and Pesticide Exposure in Northern Leopard Frogs in Conservation Reserve Enhancement Program Wetlands	4:15 PM
15	<b>Philip Willink, Gregory Jacobs, Dimitry Gorsky, Zy Biesinger, Andrew Kough</b> Activity patterns of Lake Sturgeon ( <i>Acipenser fulvescens</i> ) in Lakes Erie and Ontario using Pop-off Archival Satellite Tags	579	<b>Jodi Rowley, Dao Tran, Greta Frankham, Anthony Dekker, Huy Hoang</b> Little Brown Frogs That Sound Like Crickets: Gone Before We Even Know They Exist?	4:30 PM
1095	<b>Veronica Mendoza, Héctor Espinosa</b> Morphological Variation of Three Species of <i>Cynoscion</i> (Sciaenidae) in the Eastern Pacific	172	<b>Leroy Nuñez, Kenneth Krysko, Michael Avery</b> Molecular analyses of two non-indigenous lizard species in Florida: testing hypotheses of introduction pathways, species identity, and native range origins	4:45 PM
				<b>5:00 PM</b>

# Lightning Talks - Saturday, 9 July

**8:00 – 9:30 a.m.**

**204 - John Herman, Wendy Brosse**

Movement ecology and natural history of *Crotalus adamanteus* (Eastern Diamondback Rattlesnake) in South Florida

**806 - Alex Van Nyattan, Devin Bloom, Belinda Chang, et al**

Visual Evolution in Marine Derived Amazonian Fishes

**534 - Meagan Thomas, Alanna Horton, Michael Dorcas**

Predicting Total Body Length of Incomplete Rattlesnake Skeletons Through X-ray Technology and Vertebral Measurements

**824 - John Swenson, Karen Crow**

How the Devil Ray Got Its Horns: The Evolution and Development of Cephalic Lobes

**711 - Lauren Fuller, Glenn Parsons**

Sedation as a Means to Reduce Capture Stress of Sharks

**491 - Ehlana Stell, Glen Parsons, Jan Hoover**

Estimating Burst Swim Speeds and Jumping Characteristics of Silver Carp (*Hypophthalmichthys molitrix*) Using Video Analyses and Projectile Physics

**623 - Jeff Hathaway**

Next steps for the Saving Turtles at Risk Today (START) Project

**718 - Heather Waye, Zach Smith**

Tiger salamander larval density and aquatic invertebrate communities in the prairie potholes of West-Central Minnesota

**911- Rafael Hernández Guzmán, Luis H. Escalera-Vazquez, Ileri Suazo**

Predicting the Distribution of *Ambystoma ordinarium* Under Different Climate Scenarios in Central Mexico

**532 - Emanuel Ribeiro, Dahiana Arcila, Ricardo Betancur**

The end-Cretaceous mass extinction promoted lineage diversification, morphological disparity and habitat shifts in the spectacular radiation of carangimorph fishes

**1055 - Norma Salcedo**

Fleshy Excrescence Explorations: the Skin from the Supraoccipital Region of two *Chaetostoma* species (Siluriformes: Loricariidae)

**858 - Cristin Keelin Fitzpatrick, Andrea Bernard, Filip Osaer, Krupskaya Narváez, Mahmood Shivji**

A Genetic Exploration in a Last Refuge: The Common Angelshark (*Squatina squatina*) in the Canary Islands

**307 - Amanda Bennett, Matthew Keevil, Jessica Steiner**

A Systematic Review of Headstarting Programs for Freshwater Turtle Populations

**232 - Ann Somers, Aerin Benavides, Catherine Matthews**

Lassoing Lizards, Trapping Turtles, and Snatching Snakes

**979 - Rachel Arnold**

Hooligans: Assessing Population Size and Structure of the Longfin Smelt (*Spirinchus thaleichthys*) in the Nooksack River **CANCELED**

**847 - Duncan Elkins, Anna George, Sarah Hazzard, Bernie Kuhajda, Seth Wenger**

Who follows the fish? Patterns in the fishes, mussels, and crayfishes of the Southeast

**452 - Sean Sterrett, Todd Dubreuil, Evan Grant**

Development of a novel passive integrated transponder (PIT) vertical telemetry system for studying hypogean movements of woodland salamanders (*Plethodon*)

**6 - Dustin Siegel, Yousif Al-Baghdadi, Michael Frangello, Madison Herrboldt, Sam Alvino, Stanley Trauth, David Sever**

"sexual Tears" in a salamander?

# Lightning Talks - Saturday, 9 July

**10:00 a.m. – 12:00 p.m.**

**173 - Alex Radi, Christopher Beachy**

The Tiger in Winter: larval *Ambystoma mavortium* under the ice

**1029 - Freya E. Rowland, Thomas L. Anderson, Jacob J. Burkhart, Brittany H. Ousterhout, Dana L. Drake, Arianne F. Messerman, Raymond D. Semlitsch**  
Nutrient Concentrations, Slope, and Area Predict Amphibian Richness in Intermediate-Sized Ponds

**922 - Brian Deis, Kathleen Cole**

Reproductive Behavior and Bi-directional Sex Change in a Cryptobenthic Reef Fish, *Eviota epiphanes* in Hawaii

**109 - Toby Hibbitts, Wade Ryberg, Dalton Neuharth, Connor Adams, Drew Dittmer, Johanna Harvey, Gary Voelker, Ben Labay, John Paul Pierre, Brad Wolaver, Travis LaDuc**

Current Distribution and Phylogenetic Relationships of *Holbrookia lacerata* in Texas

**469 - Julie Savidge, Martin Kastner, Thomas Seibert**

A Novel Climbing Behavior Displayed by the Brown Treesnake (*Boiga irregularis*)

**296 - Sara Ruane, Jordyn deHaan, Lindsey Shapiro**

Assessing Arboreal Snake Traits Across Families and Zoogeographic Regions

**394 - Amy Rowley, Toby Daly-Engel, Mariana Rego, Francisco Garcia-Gonzalez, John Fitzpatrick**

Sexual Selection and the Evolution of Reproductive Traits in Sharks and Rays

**683 - Lydia Crawford, Ian Davenport, Henry Bart**

Association between Novel Ova Morphology and Chondrichthyan Reproduction

**946 - Emily Taylor**

What's behind the critical thermal maximum?

**403 - Kyle Newton, Stephen Kajiura**

I Knew I Should've Taken That Left Turn in Albuquerque: Using Magnetic Field Polarity to Solve a Navigational Task in the Yellow Stingray, *Urolophus hannah*

~~768 - Alison Webb, Lori Neuman-Lee, Eleanor Watson, Susannah French~~

~~Timecourse of the immune response in non-model organisms, *Thamnophis elegans* and *Iguana iguana*~~ **CANCELED**

**906 - Ricardo Montero, Juan Diego Daza, Nicholas Holovacs, Eduard L. Stanley, Cecilia Guerra**

The shovel headed *Calyptommatius leirolepis* (Gymnophthalmidae)

**110 - Jennifer S. Bigman, Nicholas K. Dulvy**

Body size and the speed of life

**685 - Emily Seubert, Marcus Drymon**

Species and functional biodiversity of apex and mesopredators in the northern Gulf of Mexico

**999 - Vicente Faria, João Eduardo Freitas, Bruno Macena, Andrey Castro, Pedro Afonso, Jorge Miguel Fontes, Simon Thorrold, Patricia Bordallo, Fábio Hazin, Tito Lotufo**

Population genetic structure of the whale shark, *Rhincodon typus*, in the Atlantic Ocean

**38 - Daniel Abel, Dean Grubbs, Bryan Keller, John Simcox, Alexandra Dowlin, Megan Novak**

Do Osmoregulatory Adaptations of Deep-Sea Sharks Represent a Paradigm Shift? Evidence from Rectal Glands of *Hexanchus nakamurai* and Other Species

~~769 - Howard L. Jelks, Thomas M. Orrell~~

~~Updating Fishes, Reptiles, and Amphibians in the Integrated Taxonomic Information System (ITIS)~~ **CANCELED**

**778 - Thomas Wilson, Brad Reynolds, Margaret Dempsey, Alexandra Korshun, Ashton Mitchell, Erin Shrenker, Richard Schwartz, Team Salamander**

The Development and Implementation of a Natural Science Living and Learning Community and a Case for Hands-On Herpetology Utilizing the Biological Field Stations at UT-Chattanooga

**753 - Paddy Walker, Irene Kingma**

Baseline Study for Underpinning of the Management of Sharks and Rays in the Dutch Caribbean

**737 - Bruce Stallsmith, Tiffany Bell**

Unusual Female-Biased Sex Ratios in Syntopic Populations of Two Species of *Ulocentra* Darters, *Etheostoma simoterum* and *E. duryi*, in the Flint River of Alabama

**9 - C. Samantha Sherman, Andrew Chin, Michelle R. Heupel, Colin A. Simpfendorfer**

Encountering batoids on coral reefs in Malaysian Borneo

**309 - Gavin Naylor, Jason Davies**

An Interactive Online Database About the Biology of Sharks, Skates, Rays and Chimaeras

**724 - Kyle Barrett, Craig Guyer, Stephen Samoray, Yoichiro Kanno**

Species Richness and Occupancy Patterns for Anurans Along a Forested Gradient in Western Georgia, USA

# AES Sawfishes Symposium

## Lightning Talks - Sunday, 10 July

### 9:15-9:30 a.m.

363 - Rachel Scharer, Philip Stevens, Gregg Poulakis

Not All Nurseries are Created Equal: Differences in Large-scale Habitat Use Patterns between Two Smalltooth Sawfish, *Pristis pectinata*, Nursery Areas

811 - Lisa Hollensead, Dean Grubbs, John Carlson, Dana Bethea

Assessing Residence Time and Habitat Use of Juvenile *Pristis pectinata* Using Acoustic Monitoring in a Nursery

370 - Gregg Poulakis, Karissa Lear, Rachel Scharer, Nicholas Whitney

Where and How do Smalltooth Sawfish, *Pristis pectinata*, Spend Time in their Nurseries? Insights from Acoustic and Accelerometer Data

### 11:45 a.m. – 12:00 p.m.

974 - Dana Bethea, John Carlson, R. Dean Grubbs, Gregg Poulakis

Growth Rates of Smalltooth Sawfish, *Pristis pectinata*, Using Length-frequency and Tag-recapture Data

42 - John Carlson, Enric Cortés

Estimates of Maximum Rate of Population Increase for Sawfish: Do Sawfish have the Highest Risk of Extinction?

### 2:45-3:00 p.m.

37 - William White, Sharon Appleyard, Leontine Baje, Benthly Sabub

Preliminary Investigation into Sawfish Catches in Papua New Guinea

136 - Jason Seitz, John Waters

Should Florida really be considered part of the historic range for the endangered Largetooth Sawfish (*Pristis pristis*)?

569 - Muhammad Moazzam, Hamid Badar Osmany

Are sawfishes locally extinct in Pakistan? Recent evidences suggest otherwise!

### 4:45-5:00 p.m.

416 - Micah Barkenhaster, Lauren Partridge, Rachel Scharer, Gregg Poulakis

Parasites as Indicators of Sawfish and Ecosystem Health: How "bad guys" can be Good News

580 - Jason C. Seitz, Jan Jeffrey Hoover

Taxonomic Resolution of Sawfish Rostra from a Private Collection

610 - Barbara Wueringer, Teagan Marzullo, Vera Schluessel

Sawfish research in Queensland, Australia