

2017 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin, TX

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

THURSDAY, 13 JULY, Afternoon Sessions

ROOM		<i>Glass Oaks</i>		<i>Salon/Ballroom B</i>
SESSION/ SYMPOSIUM		SSAR SEIBERT ECOLOGY I		ASIH STOYE GENERAL ICHTHYOLOGY I
MODERATOR		Betsie Rothermel		Fernando Alda
1:30 PM	574	Richard Bauer*, Gregory Skupien, Kimberly Andrews, Terry Norton Spatial Patterns of Male American Alligators on a Developed Georgia Barrier Island	517	A.J. Turner*, Fernando Aldo, Prosanta Chakrabarty Range-wide genetic and morphological variation in the sailfin molly, <i>Poecilia latipinna</i>
1:45 PM	406	Madeline Michels-Boyce*, John Krenz, Rachel Cohen, Nora Ibarquengoytia Cold-climate adaptation in lizards: A common-garden experiment	537	Diego Elias*, Elyse Parker, Caleb McMahan, Christian Barrientos, Kimberly Foster, Kyle Piller Multi-locus phylogeny of <i>Pseudoxiphophorus</i> (Poeciliidae): Re-evaluation of relationships and geographic distribution
2:00 PM	300	Jeanette Moss*, Mark Welch, Glenn Gerber, Schwirian Aumbriel, Jackson Anna Behavioral ecology of the critically endangered Sister Islands rock iguana (<i>Cyclura nubila caymanensis</i>): ongoing investigations into patterns of mate choice, dispersal, and nesting	513	C. Elyse Parker*, Kyle R. Piller Using statistical model choice to infer the biogeographic history of the live-bearing splitfins (Cyprinodontiformes: Goodeinae) in the Mesa Central of Mexico
2:15 PM	712	Brian Folt*, Craig Guyer Effects of Invertebrate Predators on Vertebrate Prey are Strong but Inconsistent with the Mainland-island Model of Anole Population Regulation	463	Maxwell J. Bernt*, James S. Albert Phylogeny and Historical Biogeography of the Ghost Knifefishes (Gymnotiformes: Apternotidae)
2:30 PM	161	Eric Nordberg*, Heather Neilly, Jeremy VanDerWal, Lin Schwarzkopf Arboreality Increases Reptile Community Resilience to Disturbance From Livestock Grazing	880	Joshua Millwood*, Michael Sandel, David Neely Environmental and Phylogenetic Effects on the Dermal Microbiome of Mobile Basin Sculpin (Teleostei: Cottus)
2:45 PM	335	Timothy Borgardt* Habitat Preference, Movement Patterns, and Behavior of the Timber Rattlesnake in southeastern Louisiana	548	Kory Evans*, Brian Schubert, James Albert Developmental bias facilitates trophic diversification in Amazonian electric fishes
3:00 PM		BREAK - Rio Grande Hall		
SESSION/ SYMPOSIUM		SSAR SEIBERT ECOLOGY II		ASIH STOYE GENERAL ICHTHYOLOGY II
MODERATOR		Tracy Rittenhouse		John Denton
3:30 PM	149	Iwo Gross*, Yong Wang, Callie Schweitzer Tracking dispersal and habitat use of neonatal copperheads (<i>Crotalinae</i> ; <i>Agkistrodon</i>) using harmonic radar technology	490	Kyle Dineen*, Brook Fluker Genetic Structure and Diversity of Disjunct Populations of Rainbow Darters (<i>Etheostoma caeruleum</i>) and Southern Redbelly Dace (<i>Chrosomus erythrogaster</i>) Throughout the Mississippi Corridor
3:45 PM	709	Shawn Snyder*, William Sutton, Christopher Howey Differentiation in Basking Habitat between Yellow and Black Morph Timber Rattlesnakes	707	Jessica Grady*, C.M. Gienger, Rebecca E. Blanton Factors Affecting Scale Shape Variation in Etheostominae Darters
4:00 PM	653	Scott Goetz*, James Godwin, Fred Antonio, Michelle Hoffman, David Steen Indigo Snakes Prefer Pit Vipers When Neonates But Not After A Year in Captivity	526	Courtney Weyand*, Kyle Piller Phylogeography of the Rosyside Dace, <i>Clinostomus funduloides</i> (Teleostei: Cyprinidae)
4:15 PM	777	Brent Newman*, Scott Henke, Susan Koenig, David Wester, Humberto Perotto-Baldivieso, Taylor Shedd Determining the Suitability of the Jamaican Boa (<i>Chilabothrus subflavus</i>) for Short-Distance Translocation in Cockpit Country, Jamaica	272	William Ludt*, Christopher Burrige, Thomas Near, Prosanta Chakrabarty Understanding Anti-Tropical Distributions in Centrarchiformes
4:30 PM	88	Miranda Figueras*, Kent Hatch, Timothy Green, Russell Burke Consumption and Assimilation Patterns of the Eastern Box Turtle. Diet Generalists	471	Adela Roa-Varon*, Eric J. Hilton, Chenhong Li Using Phylogenomics to Study the Interrelationships of Gadiformes
4:45 PM	398	Stephanie Lamb*, Eric Liebgold Estimating Habitat and Population Parameters of Spotted Turtles (<i>Clemmys guttata</i>) on the Delmarva Peninsula	457	Matthew Girard*, Leo Smith Relationships of carangiform fishes: a total evidence approach

* denotes presenter

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	<i>Wedgewood</i>		<i>Trinity</i>	ROOM
	AES GRUBER I		ASIH STOYE ECOLOGY & ETHOLOGY I	SESSION/ SYMPOSIUM
	Dean Grubbs		Brian Halstead	MODERATOR
560	Cody Nash* , Jill Hendon, Toby Daly-Engel Reproductive periodicity and the frequency of multiple paternity in the finetooth shark, <i>Carcharhinus isodon</i> , in the Northern Gulf of Mexico	446	Donald McKnight* , Roger Huerlimann, Lin Schwarzkopf, Ross Alford, Deborah Bower, Kyall Zenger The Role of Microbial Communities in the Recovery of Rainforest Frogs	1:30 PM
542	Chelsea Shields* , Jim Gelsleichter, Bryan Frazier Reproduction of the tiger shark (<i>Galeocerdo cuvier</i>) off of South Carolina	168	Kelsey Reider* , Tracie Seimon, Alessandro Catenazzi, Maureen Donnelly Seasonality of Bd Prevalence and Infection Intensity in High Elevation Anuran Populations in the Cordillera Vilcanota, Perú	1:45 PM
118	Kat Mowle* , Jim Gelsleichter Characterization of vitellogenesis in the bonnethead shark <i>Sphyrna tiburo</i> in the Northwestern Atlantic Ocean	236	Catharina Karlsson* , David Bickford, Paul Yambun, Ryan Chisholm Temporal Partitioning of Calling Activity in the Amphibian Community at Kinabalu Park	2:00 PM
275	Kelsey James* , Lisa Natanson Does sex change everything? The relationship between band pair deposition and maturity in the Little Skate, <i>Leucoraja erinacea</i>	110	Erin Kenison* , Rod Williams Environmental Conditioning goes Swimmily for Eastern Hellbenders (<i>Cryptobranchus alleganiensis alleganiensis</i>)	2:15 PM
415	Emily Seubert* , John Valentine, J. Marcus Drymon Evaluating ecosystem resiliency through stable isotope analysis of common elasmobranchs across the northern Gulf of Mexico	76	Kira McEntire* , John Maerz Integrating Biophysical and Individual Based Models to Simulate How Habitat Structure and Behavior Moderate Salamander Sensitivity to Climate	2:30 PM
627	Samantha Leigh* , Sarah Hoffmann, Adam Summers, Donovan German Spiraling into Control: Investigating the Function of the Spiral Intestine in Elasmobranchs	61	James Erdmann* This Little Piggy: Why do Amphibians Vibrate Their Feet While Hunting?	2:45 PM
BREAK - Rio Grande Hall				3:00 PM
	AES GRUBER II		ASIH STOYE ECOLOGY & ETHOLOGY II	SESSION/ SYMPOSIUM
	Kevin Weng		Mark Peterson	MODERATOR
558	Emily Meese* , Chris Lowe Diel movements and fine-scale activity patterns across heterogeneous thermal environments of the CA horn shark, <i>Heterodontus francisci</i>	749	Lauren Kircher* , Jessica Noble, Joy Young, John Baldwin Hydrologic Changes in the St. Lucie Estuary and Implications for Snook Movement Patterns	3:30 PM
384	Grace Casselberry* , Andy Danylichuk, John Finn, Bryan DeAngelis, Gregory Skomal Using Network Analysis to Examine the Spatial Ecology of the Shark Community in Buck Island Reef National Monument, St. Croix, USVI	525	Jason D. Selwyn* , Paolo Usseglio, J. Derek Hogan Fine-scale microhabitat usage of a putative habitat generalist reef dwelling goby, <i>Coryphopterus personatus</i>	3:45 PM
54	Judith Bakker* , Owen Wangensteen, Demian Chapman, Germain Boussarie, Dayne Buddo, Tristan Guttridge, Heidi Hertler, David Mouillot, Laurent Vigliola, Stefano Mariani Environmental DNA Reveals Tropical Shark Diversity and Abundance in Contrasting levels of Anthropogenic Impact	609	Jessica Noble* , Lauren Kircher, Matia Gringas, Lissette Geubelle, Joy Young, John Baldwin Effects of a Disturbance Event on Fine Scale Movement and Population Dynamics of an Estuarine Sportfish	4:00 PM
383	Thomas C. TinHan* , J. Marcus Drymon, Brett Falterman, Gregory W. Stunz, Matthew J. Ajemian, John A. Mohan, Eric R. Hoffmayer, William B. Driggers III, Jennifer A. McKinney, R. J. David Wells Space Use and Habitat Preferences of Scalloped Hammerheads in the Northern Gulf of Mexico	739	Travis Richards* , Tracey Sutton, David Wells Spatial and temporal patterns of distribution and relative abundance of meso- and bathypelagic micronekton in the northern Gulf of Mexico	4:15 PM
339	Kyle Newton* , Stephen Kajiura Cognition and magnetoreception in the yellow stingray, <i>Urobatis jamaicensis</i> , and their potential roles in elasmobranch orientation and navigation	370	Stephanie Benseman* , Larry Allen The Secret Life of Baby Giants: The Recruitment of the Endangered Giant Sea Bass	4:30 PM
170	Sarah Hoffmann* , Samantha Leigh, Cassandra Donatelli, Elizabeth Brainerd, Marianne Porter Three-Dimensional Movements of the Pectoral Fin During Routine Turns in the Pacific Spiny Dogfish, <i>Squalus suckleyi</i>	506	Matthew S. Woodstock* , Christopher A. Blonar, Tracey T. Sutton A Comparison of the Parasite Fauna and Trophic Ecology of Vertically Migrating and Non-migrating Mesopelagic Fishes in the Northern Gulf of Mexico	4:45 PM

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ROOM		<i>Salon/Ballroom A</i>		<i>San Antonio</i>
SESSION/ SYMPOSIUM		ASIH STOYE GENERAL HERPETOLOGY/ ASIH STOYE PHYSIOLOGY & PHYSIOLOGICAL ECOLOGY I		HERP REPRODUCTION & LIFE HISTORY I
MODERATOR		Abigail Berkey		Nicole Valenzuela
1:30 PM	654	GH - Rebecca Tarvin*, Cecilia Borghese, Wiebke Sachs, Juan Santos, Lauren O'Connell, David Cannatella, Adron Harris, Harold Zakon Evolution of Resistance to Epibatidine, a Potent and Toxic Analgesic Alkaloid, In Dendrobatid Poison Frogs	716	Zachary C. Adcock*, Michael R.J. Forstner Reproductive Ecology of Federally Threatened Jollyville Plateau Salamanders (<i>Eurycea tonkawae</i>) with Comments on Management Implications
1:45 PM	55	GH - Connor French*, Jason Brown Climate Fluctuation as a Driver of Diversification in Peruvian Poison Frogs	23	Joseph Butler*, J. David Lambert, Daniel Murphy Concentrations and Nest Preferences of Carolina Diamondback Terrapins, <i>Malaclemys terrapin centrata</i> , in Northeast Florida
2:00 PM	178	GH - Jeronimo Gomes Da Silva Neto*, William Sutton, Stephen Spear, Michael Freake The Use of Species Distribution Models (SDMs) and Environmental DNA to Evaluate the Distribution of the Eastern Hellbender (<i>Cryptobranchus alleganiensis alleganiensis</i>) in Tennessee, U.S.A.	202	Katherine Greenwald*, Marisa Hildebrandt, Kelsey Mitchell Context-dependent Use of "Stolen Sperm" by Unisexual <i>Ambystoma</i> Salamanders
2:15 PM	479	GH - Anat Belasen*, Tim James How does long-term habitat fragmentation affect disease susceptibility? Examining the relationships between geography, host genetics, and disease in a Brazilian Atlantic Forest frog	144	Jennifer Deitloff*, Erin Myers, Stephen Spear, Dirk Stevenson, Craig Guyer Multiple paternity and heritability of color in <i>Drymarchon couperi</i> (Eastern Indigo Snake)
2:30 PM	20	PPE - Michelle E. Thompson*, Maureen A. Donnelly Thermal Quality Influences Habitat Use of Two Anole Species	276	Jesus Rivas* Exploring the Life of an Extinct Giant Snake Using a Current Pretty Big Snakes: What Studying Anacondas Can Tell Us About <i>Titanoboa</i>
2:45 PM		#N/A #N/A	302	Kristina Cohen*, Karen Warkentin Different Hatching Mechanisms but Similar Escape-hatching Processes in Two Neotropical Treefrogs
3:00 PM		BREAK - Rio Grande Hall		
SESSION/ SYMPOSIUM		ASIH STOYE PHYSIOLOGY & PHYSIOLOGICAL ECOLOGY II/ ASIH STOYE CONSERVATION I		HERP REPRODUCTION & LIFE HISTORY II/ HERP BEHAVIOR I
MODERATOR		Jan McDowell		Nathan Byer
3:30 PM	155	PPE - Drew Davis*, Jacob Kerby Physiological Stress and Pathogen Infection in Larval Salamanders from Wetlands Influenced by Agriculture	591	Nathan Byer*, Brendan Reid, M. Zachariah Peery Perspectives on maternal selfishness: does female risk influence nesting behavior in the Blanding's Turtle?
3:45 PM	872	PPE - David Saenz*, Michael Markham, Kirk Winemiller, Jose Alves Gomes Effects of Melanocortin Hormones on the Electric Organ Discharge of Two Weakly Electric Fish	618	Brian Shamblin*, Mark Dodd, Michelle Pate, DuBose Griffin, Matthew Godfrey, Michael Coyne, Ruth Boettcher, Campbell Nairn Nest Site Fidelity of Loggerhead Turtles Characterized Through Genetic Tagging
4:00 PM	883	PPE - Michelle Herrera*, Joseph Heras, Donovan German Digestive Specialization in the Family Stichaeidae: Molecular Underpinnings and Potential for Plasticity	802	Andrew R. Wastell, Stephen P. Mackessy* Desert <i>Massasauga</i> Rattlesnakes in Colorado
4:15 PM	277	PPE - McKayla Spencer*, C. M. Gienger Comparative Energetics and Responses to Feeding of Copperhead and Cottonmouth Snakes (<i>Aqkistrodon</i>)	495	Michele A. Johnson*, Daisy M. Horr, Ellee G. Cook, Bonnie K. Kircher The Phylogeny of Lizard Display: An Analysis of Color, Motion, and Sound in Communication
4:30 PM	467	PPE - Denita Weeks*, Matthew Parris Immunity is Skin Deep: Considering Microbial Pesticides as a Disease Mitigation Strategy for Chytridiomycosis	689	Annelise Blanchette*, Ashleigh Minetti, Ralph Saporito Cryptic and Conspicuous Antipredator Strategies in the Aposematic Frog <i>Dendrobates auratus</i>
4:45 PM	568	Katie Mascovich*, Kimberly Andrews Messages in the Sand: Nesting Loggerhead Sea Turtle (<i>Caretta caretta</i>) Crawl Behavior on a Developed Beach		#N/A #N/A

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THURSDAY, 13 JULY, Afternoon Sessions

	<i>Pecos</i>		<i>San Marcos</i>	ROOM
	LFC PHENOTYPIC VARIATION I			SESSION/ SYMPOSIUM
	Klaus Huebert			MODERATOR
	Introduction: Phenotypic Variation		#N/A #N/A	1:30 PM
143	Pierre Pepin* Feeding Patterns in Larval Fish: How Taxonomy, Behaviour and Morphology affect Differences among Individuals and Species		#N/A #N/A	1:45 PM
			#N/A	2:00 PM
774	Stuart Ludsin*, Kevin Pangle, Lucia Carreon-Martinez, Alison Drelich, Brian Fryer, Daniel Heath, Timothy Johnson, Julie Reichert, Jeffrey Tyson, Kyle Wellband Does variation in larval growth rate affect the recruitment of freshwater fishes? A case study with Lake Erie Yellow Perch		#N/A #N/A	2:15 PM
			#N/A #N/A	2:30 PM
				2:45 PM
BREAK - Rio Grande Hall				3:00 PM
	LFC PHENOTYPIC VARIATION II			SESSION/ SYMPOSIUM
	Tom Miller			MODERATOR
145	Hannes Baumann*, Jacob Snyder, Christopher Murray Quantifying Offspring CO2 Sensitivity In A Fish: A Meta-Analysis Of Experimental Variability		#N/A #N/A	3:30 PM
			#N/A #N/A	3:45 PM
875	SLR - Raven M.C. Benko*, R. Christopher Chambers Sources of Variation in Early Life Traits of Atlantic Silverside, Menidia menidia		#N/A #N/A	4:00 PM
4	R Christopher Chambers* Thermal Reaction Norms of Early Life Stages of Mid-Atlantic Estuarine Fishes		#N/A #N/A	4:15 PM
			#N/A #N/A	4:30 PM
	#N/A #N/A		#N/A #N/A	4:45 PM
			ASIH Judges Meeting noon - 1:30 PM	

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 14 JULY, Morning Sessions

ROOM		<i>Glass Oaks</i>		<i>Salon/Ballroom B</i>
SESSION/ SYMPOSIUM		LIGHTNING TALKS I		ASIH STOYE GENERAL ICHTHYOLOGY III
MODERATOR		David Green		Hannah Owens
8:00 AM		584 White; 338 Martin; 44 Mundy; 81 Burke; 587 Hedrick; 556 Hardman; 87 Poo; 269 Mitchell; 153 Kelehear; 210 Palenske; 521 Hart; 472 Faria	69	Randy Singer*, Jon Moore Finding Dories: Variation in Parazen pacificus (Zeiformes: Parazenidae: Parazen) with the discovery of an undocumented reproductive strategy in a deep sea fish
8:15 AM	825		Joel Corush*, Evin Carter, Benjamin Fitzpatrick Effects of Diadromous Life Histories on Genetic Diversity and Population Structure in Fishes	
8:30 AM	785		David Camak*, Thomas Turner Estimating Levels of Introgression between Gila Trout (<i>Oncorhynchus gilae</i>) and Rainbow Trout (<i>O. mykiss</i>) using Next-generation Sequencing Data	
8:45 AM	438		Caitlin McGarigal*, Chris Lowe Behavioral Effects of Angling and Handling Stresses on Kelp Bass, <i>Paralabrax clathratus</i> , in Southern California	
9:00 AM	211		Naomi Delventhal*, Randall Mooi Intra-relationships of <i>Callogobius</i> (Teleostei:Gobiidae) - A Morphological Approach	
9:15 AM	254		Diego Vaz*, Eric Hilton, Adam Summers Title: The Intermuscular Bones and Ligaments of Batrachoidiformes (Percomorphacea: Teleostei)	
9:30 AM		BREAK - Rio Grande Hall		
SESSION/ SYMPOSIUM		SSAR SEIBERT ECOLOGY III		ASIH STOYE GENETICS, DEVELOPMENT, & MORPHOLOGY I
MODERATOR		Russ Burke		David Cannatella
10:00 AM	382	Kelsey A. Marchand*, Christopher M. Somers, Ray G. Poulin You are Where you Eat: Isotopic Resource Use of Urban Western Painted Turtles (<i>Chrysemys picta bellii</i>) in Regina, Saskatchewan	403	Evan McCartney-Melstad*, Jannet Vu, H. Bradley Shaffer Fine-Scale Population Genomics of Protected Tiger Salamanders (<i>Ambystoma tigrinum</i>) on Long Island, NY Reveals a Highly Structured Species Impacted by Major Roads
10:15 AM	154	Nicole White*, Betsie Rothermel, Kelly Zamudio, Tracey Tuberville Male Size Drives Siring Success in the Gopher Tortoise (<i>Gopherus polyphemus</i>)	52	Erica Baken*, Dean Adams Life in Trees: Macroevolution of Morphology and Diversity in Arboreal Plethodontid Salamanders
10:30 AM	755	Chava Weitzman*, Sarah Snyder, Franziska Sandmeier, C. Richard Tracy Co-infection Does Not Predict Disease in <i>Gopherus</i> Tortoises	433	Nicole Witzel*, Ali Taheri, William Sutton Detecting the Presence and Abundance of Streamside Salamanders (<i>Ambystoma barbouri</i>) in Middle Tennessee Using Environmental DNA
10:45 AM	409	Bailey Patillo*, Matthew Parris Impacts of Larval Exposure to Predators and Post-metamorphic Exposure to Chytrid Fungus on Growth in Spotted Salamanders	820	Ariel Horner*, Emily Karwacki, Cassandra Sarria, Anna Savage Ribbiting results: emergent pathogen dynamics vary spatially and temporally in subtropical wetland communities
11:00 AM	195	Tatum Katz*, Amanda Zellmer Incorporating Model Selection in Predicting The Spread of Invasive Fungal Pathogen <i>Batrachochytrium salamandrivorans</i>	410	Tyler Chafin*, Marlis Douglas, Michael Douglas Differential introgression suggests a mosaic hybrid zone in <i>Gila</i> of the Colorado River Basin
11:15 AM	746	Samantha Dean*, James Gibbs, Brian Underwood Influence of Habitat Edges and Recreational Trails on the Distribution and Abundance of Amphibians in an Urban Protected Area	856	Jason Strickland*, Miguel Borja, Andrew Mason, Darin Rokyta, Christopher Parkinson Venom evolution in Mojave Rattlesnakes, <i>Crotalus scutulatus</i>
11:30 AM	545	Samantha Thomas* Landscape Genetics of California Tiger Salamanders: Inferences from multiple methods		#N/A #N/A
11:45 AM				
12:00 PM		LUNCH ON YOUR OWN		
				ASIH Speed Networking 6:00 - 8:00 PM

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FRIDAY, 14 JULY, Morning Sessions

	<i>Wedgewood</i>		<i>Trinity</i>	ROOM
	AES GRUBER III		ASIH STOYE ECOLOGY & ETHOLOGY III	SESSION/ SYMPOSIUM
	Nick Dulvy		Tiffany Doan	MODERATOR
138	Matthew Davis*, Pablo Suárez-Moo, Toby Daly-Engel Population Structure and Phylogenetics of Atlantic and Caribbean Sharpnose Sharks (Genus: Rhizoprionodon)	273	Jessica Sanchez*, Joel Trexler Testing alternative hypotheses for the evolution of herbivory using the Sailfin Molly (<i>Poecilia latipinna</i>)	8:00 AM
216	Pavel Dimens*, David Portnoy Population structure of a migratory small coastal shark, <i>Carcharhinus acronotus</i> , across cryptic barriers to gene flow	320	Nina Pruzinsky*, Tracey Sutton Faunal Composition and Spatiotemporal Dynamics of Tuna (Family: Scombridae) Early Life Stages in the Oceanic Gulf of Mexico	8:15 AM
189	Kelcee Smith*, Michael Kaller, John Carlson, Dana Bethea, Kevin Feldheim, William Kelso, Sabrina Taylor Combining capture and genetic data to estimate population size of juvenile endangered Smalltooth Sawfish (<i>Pristis pectinata</i>)	528	Michael Novotny*, Tracey Sutton Assemblage structure and trophic ecology of the bathypelagic fish family Platytroctidae in the northern Gulf of Mexico	8:30 AM
824	Jeanette Huber*, Gavin Naylor Global Population Structure and Historical Demography of the Endangered Sawfish (Family Pristidae)	745	Gareth Blakemore*, Kristina Bozanich, Chris Feldman We Want a Shrubbery! Cheatgrass (<i>Bromus tectorum</i>) Modified Habitat has Altered the Thermal Landscape for Reptiles in the Great Basin	8:45 AM
853	Cristín Keelin Fitzpatrick*, Kimberly Finnegan, Andrea Bernard, Filip Osaer, Krupskaya Narváez, Mahmood Shivji Almost Angels? The Critically Endangered Angelshark (<i>Squatina squatina</i>) in its Last Refuge, the Canary Islands	672	Jennie Mook*, Raymond Moody, Eric Schaubert The Social Behavior and Ecology of Hatchling Texas Horned Lizards (<i>Phrynosoma cornutum</i>)	9:00 AM
				9:15 AM
BREAK - Rio Grand Hall				9:30 AM
	AES GRUBER IV		ASIH STOYE ECOLOGY & ETHOLOGY IV	SESSION/ SYMPOSIUM
	Chris Lowe		Chris Beachy	MODERATOR
274	Simon Dedman*, Rick Officer, Deirdre Brophy, Maurice Clarke, Dave Reid Mapping Elasmobranchs with Gbm.auto - a Decision Support Tool automating Boosted Regression Tree modelling of data-poor species abundance using environmental and human inputs, mapping essential habitats, and designing MSY-based MPAs considering stakeholder priorities	830	Christina Coppentrath*, Jacob Lasala, Matia Gingras, Noi Meersohn, John Baldwin Identifying Important Foraging Grounds for Florida's Nesting Leatherback Turtles (<i>Dermochelys coriacea</i>)	10:00 AM
534	Madeline Self Cashion*, Nicolas Bailly, Daniel Pauly A Shark by any Other Name: Catch Reporting Quality in the Mediterranean Sea	140	Amanda DiBella*, Scott L. Parker Dietary Composition and Prey Selectivity of the Diamondback Terrapin (<i>Malaclemys terrapin</i>) in North Inlet, SC	10:15 AM
12	John Whalen*, Jim Gelsleichter A multibiomarker analysis of pollutant effects on Atlantic stingray populations in Florida's St. Johns River	366	Megan Novak*, Scott L. Parker Through Thick and Thin: Comparative Skull Anatomy of Terrestrial and Crevice-dwelling <i>Trachylepis</i> Skinks (Squamata: Scincidae) using microCT	10:30 AM
293	Samantha Ehnert*, Jim Gelsleichter Mercury Accumulation and Effects in the Brain of Atlantic Sharpnose Sharks (<i>Rhizoprionodon terraenovae</i>)	252	Matthew Acre*, Timothy Grabowski, Dakus Geeslin, Allison Pease, Nate Smith Movements and Demography of <i>Cycleptus elongatus</i> in the lower Colorado River, TX	10:45 AM
124	Bianca Prohaska*, R Dean Grubbs Stress Physiology of Deep Demersal Sharks in the Gulf of Mexico	679	Ryan Logan*, Christopher Lowe Area Use and Spawning Activity of Three Exploited Gamefishes on a Large Artificial Reef Inferred from Passive Acoustic Telemetry	11:00 AM
554	Dan Crear*, Rich Brill, Peter Bushnell, Kevin Weng The Impact of Climate Change on the Physiology of Sandbar Sharks, <i>Carcharhinus plumbeus</i>	13	John Gatto*, Joel Trexler Using Agent Based Modeling to Describe Dispersal Potential in the Florida Everglades	11:15 AM
778	John Swenson*, Karen Crow How the Devil Ray got its horns: The molecular evolution and development of the Myliobatid body plan	340	Jon Davenport*, Alex Riley, Peter Constantides Plants Versus Salamanders: The Effects of Competition on Spotted Salamander and Bladderwort Life History	11:30 AM
				11:45 AM
LUNCH ON YOUR OWN				12:00 PM

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ROOM		Salon/Ballroom A		San Antonio
SESSION/ SYMPOSIUM		ASIH STOYE CONSERVATION II		HERP ECOLOGY I
MODERATOR		Alessandro Catenazzi		John Placyk
8:00 AM	879	Victoria Rodriguez*, Chad W. Hargrave, Christopher P. Randle Hybridization Between Two Livebearing Fish, the Endangered <i>Gambusia nobilis</i> and Introduced <i>Gambusia geiseri</i> , in Texas	114	Mitch Barazowski, Neil Ford, Josh Banta, Marsha Williams, John Placyk* Integrating habitat suitability modeling and radio telemetry to describe habitat use of the Western Massasauga, <i>Sistrurus t. tergeminus</i> , in Texas
8:15 AM	368	D. Cooper Campbell*, Kyle Piller Mysteries of the gene pool: Population genetics of springfish and poolfish (Goodeidae: <i>Crenichthys</i> and <i>Empetrichthys</i>)	106	Christopher Marshall*, Joshua Cullen, Mehsein Al-Ansi Hawksbill Sea Turtle (<i>Eretmochelys imbricata</i>) Spatial Movement in an Extreme Environment: The Arabian Gulf as a Living Laboratory for Investigating Organismal Response to Climate Change
8:30 AM	373	Joshua Stonecipher*, Rebecca Blanton Conservation status and population genetic structure of the Smallscale Darter, <i>Nothonotus microlepidus</i>	882	Jeffrey Seminoff*, Lisa Komoroske, Peter Dutton, Miguel Donoso, Maik Heidemeyer, Gabriel Hoeffler, T. Todd Jones, Shaleyla Kelez, Garrett Lemons, Nelly de Paz, Juan Manuel Rodriguez Baron, Laura Sampson, Lucia Santos Baca, Joel Schumacher, Maria Vejar Rubio, Patricia Zarate, Alan Zavala, Brian Popp Trophic Ecology of Green Sea Turtles Across the Eastern Pacific Ocean: Insights from Bulk Tissue and Compound Specific Stable Isotope Analysis
8:45 AM	360	Brooke Washburn*, Mollie Cashner, Rebecca Blanton Islands in the stream, is that what we are: assessing the spatial scale of genetic diversity in the endangered Tuxedo Darter, <i>Etheostoma lemniscatum</i>	73	Rick Shine*, Claire Goiran, Paco Bustamante Industrial melanism in a seasnake
9:00 AM	85	Taylor Lee*, Brook Fluier Environmental DNA vs. Traditional Sampling: a Case Study Using the Federally Threatened Leopard Darter, <i>Percina pantherina</i>	142	Kyle Brown*, Amelia Russell, Michaela Lambert, Tracey Tuberville, Melissa Pilgrim Bioaccumulation of ¹³⁷ Cs in Florida Green Watersnakes (<i>Nerodia floridana</i>) inhabiting former nuclear cooling reservoirs on the Savannah River Site
9:15 AM	407	Luke J. Linhoff*, Maureen A. Donnelly Evidence of domestication processes in captive-bred amphibians and implications for conservation reintroductions	128	Brad M. Glorioso*, J. Hardin Waddle, Lindy J. Muse, Jeffrey M. Lorch Snake Fungal Disease in a Louisiana Snake Assemblage
9:30 AM		BREAK - Rio Grande Hall		
SESSION/ SYMPOSIUM		ASIH STOYE CONSERVATION III		HERP ECOLOGY II
MODERATOR		Maureen Donnelly		Amanda Zellmer
10:00 AM	152	Leah Nagel*, James Gibbs From Egg to Adult: Factors Influencing Amphibian Survival in Small, Isolated Wetlands	567	Jonathan Rose*, Brian Halstead, Glenn Wylie, Michael Casazza Spatial and temporal variation in growth of the threatened giant gartersnake, <i>Thamnophis gigas</i> , in the Sacramento Valley, California
10:15 AM	372	Ciara Brodie*, Sean Graham Surrogate Riparian Habitat Use of the Big Bend Slider Turtle (<i>Trachemys quaigeae</i>) in the Chihuahuan Desert	828	Graham Dawson*, Stephen Mackessy Fourteen-year Demographic Analysis of <i>Crotalus viridis viridis</i> Hibernacula in Northern Colorado
10:30 AM	692	Steven J. Hromada*, C. A. F. Howey, C. M. Gienger Response of Reptile and Amphibian Communities to Prescribed Fire in Oak/Hickory Forests	72	Brian Todd*, Justin Nowakowski Meta-Analysis of Telemetry Studies Reveals Surprising Patterns of Home Range Scaling in Snakes
10:45 AM	511	Brittany L. McCall*, Brook L. Fluker Stability at Low Densities or Endangered? Spatiotemporal Population Dynamics of the Caddo Madtom (<i>Noturus taylori</i>)	884	Amanda J. Zellmer*, Gregory B. Pauly Citizen Science Elucidates Urban Habitat Usage by <i>Batrachoseps</i> Salamanders
11:00 AM	104	Christopher Malinowski*, Felicia Coleman, Christopher Koenig Mercury in Atlantic Goliath Grouper (<i>Epinephelus itajara</i>): sources, bioaccumulation patterns, and potential impacts to population recovery	350	Paul Bartelt*, Alyse DeVries Response of Eastern Tiger Salamanders to Restored Wetlands on an Agricultural Landscape in North Central Iowa
11:15 AM	826	Melanie Partin* Physiological Stress in <i>Hyla chrysoscelis</i> : Could Traffic Noise be a Contributing Factor?	533	Brian Halstead*, Patrick Kleeman, Gary Fellers Effects of Drought on the Demography of a Meadow Population of Sierra Nevada Yellow-legged Frogs (<i>Rana sierrae</i>)
11:30 AM	442	Kelsey Low*, Matthew Allender, Christopher Phillips, Steven Kimble A ranavirus-associated mass mortality event in an Illinois amphibian community	866	John Maerz*, Jillian Howard, Kira McEntire Climate affects spatial patterns of hybridization between two salamander species

11:45 AM	40	Anthony W. Waddle*, Jef R. Jaeger, Frank van Breukelen Emerging Infectious Disease and the Decline of the Imperiled Relict Leopard Frog	536	George Brooks*, Houston Chandler, Thomas Gorman, Carola Haas A Dynamic, Spatially Explicit Occupancy Model for the Endangered Flatwoods Salamander, <i>Ambystoma bishopi</i>
12:00 PM		LUNCH ON YOUR OWN		

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2017 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin, TX

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 14 JULY, Morning Sessions

	<i>Pecos</i>		<i>San Marcos</i>	ROOM
	LFC CONTRIBUTED I		NIA BEST STUDENT PAPER/ CONTRIBUTED/ FISH ECOLOGY	SESSION/ SYMPOSIUM
	Tony Miskiewicz		Kirsten Work	MODERATOR
136	Jessica Randall*, Morgan Busby, Adam Spear, Kathy Mier Spatial and Temporal Variation of Summer Ichthyoplankton Assemblages in the Northeast Chukchi Sea 2010 - 2015	228	NIA - João Pedro Fontenelle*, Fernando Marques, Matthew Kolmann, Nathan Lovejoy Molecular Phylogeny of the Neotropical Freshwater Stingrays (Chondrichthyes: Myliobatiformes: Potamotrygonidae), with Biogeographical Inferences	8:00 AM
221	SLR - Sebastian Velez*, Jon Moore Larval and Juvenile Population Dynamics of Families Lutjanidae and Serranidae in the Gulf of Mexico, with Respect to the Loop Current and other Hydrographic Features	547	NIA - Murilo Pastana*, Aléssio Datovo, Flávio Bockmann Morphology of the cephalic laterosensory system of Characiformes (Teleostei; Ostariophysi) with comments on its phylogenetic implications	8:15 AM
732	Denice Drass*, Glenn Zapfe, David Hanisko, Pamela Bond Abundance and distribution of larval snapper assemblages (Lutjanidae) in the northern Gulf of Mexico from 1982-2014	740	NIA - Kimberly Foster*, Devin D. Bloom Molecular Phylogenetics and Diversification of South American Darters (Characiformes: Crenuchidae)	8:30 AM
726	SLR - Angie Hoover*, Luciano Chiaverano, Alison Deary, Frank Hernandez Spatial Variation in Larval Gulf Menhaden (Brevortia patronus) Growth and Condition During a High Freshwater Discharge Event	296	Roberto Reis*, Edson Pereira, Mario de Pinna, Alexandre Clistenes An Enigmatic New Hypoptopomatinae Catfish from a Relictual Area in Northeastern Brazil	8:45 AM
803	Noelle Bowlin*, Andrew Thompson, William Watson, Philip Hastings Ontogenetic Vertical Distribution of Mesopelagic Fishes and the Development of Diel Migration	829	Bárbara Calegari*, Alberto Akama, Richard Vari, Carl Ferraris Systematics of Trachelyichthys: Exploring Biodiversity	9:00 AM
489	Lauren E. Carter*, David E. Richardson, Kiersten L. Curti Development of a Population Wide Index of Spawning Stock Biomass for Atlantic Mackerel	326	Kirsten Work* From Snapper to Darters: Video Surveys of 26 Florida Springs	9:15 AM
BREAK - Rio Grande Hall				9:30 AM
	LFC CONTRIBUTED II/ NUTRITION		SSAR SEIBERT SYSTEMATICS & EVOLUTION	SESSION/ SYMPOSIUM
	Kenneth Webb		Dan Rabosky	MODERATOR
247	Myron Peck*, Catriona Clemmesen, Marc Hufnagl, Björn Illing, Paul Kotterba, Marta Moyano, Matthias Paulsen, Patrick Polte Bottom-up and Top-down Processes Impacting Early Life Stages of Herring (Clupea harengus) in the Southwest Baltic: A Synthesis of Recent Laboratory, Field and Modelling Studies	770	Umilaela Arifin*, Stefan Hertwig, Eric Smith, Djoko Iskandar, Alexander Haas The Phylogenetic Systematics and Diversity of the Asian Frog Genus Huia Yang 1991 (Amphibia: Ranidae) Revisited	10:00 AM
173	Hubert Keckeis* Larval Recruitment in a Large River: the role of time, habitat structure and individual constraints	684	Thomas Marshall*, Carlos Baca, Decio Correa, Michael Forstner, Dittmar Hahn, David Rodriguez Population Genomics of Amphibian Chytrid in Central and East Texas	10:15 AM
764	Ione Hunt von Herbing*, Wren Busby, Mike Anderson Our Inner Oceans: Understanding the origins of the gut microbiome and how probiotics may help maintain health in early stages of fishes under chronic stress	756	Shannon Keating*, Todd Jackman Assessment of a Gene Capture Method in Resolving the Diplodactylidae Phylogeny	10:30 AM
775	SLR - Wren Busby*, Ione Hunt von Herbing Multi-strain Probiotic Effects on Growth, Mortality, Food Conversion Ratios (FCRs), and Behavior in Red drum (Sciaenops ocellatus)	748	Jonathan DeBoer*, Aaron Bauer Non-adaptive Radiations in New Caledonian Geckos	10:45 AM
25	Jian WANG*, Wen-Xiong WANG Understanding the role of rotifer in micro-element nutrition to marine fish larvae	240	Caroline Dong*, Claire McLean, Adnan Moussalli, Devi Stuart-Fox Asymmetrical Introgression of Throat Coloration Across a Contact Zone of Australian Agamids	11:00 AM
2	Lee A. Fuiman* Nutritional Programming in Red Drum: The Ecological Context	226	John Cavagnaro* UV coloration in diurnal geckos of the genus Lygodactylus: influence of habitat and visual system on color evolution	11:15 AM
713	Ken Webb*, Lee Fuiman Tissue DHA Content of Red Drum (Sciaenops ocellatus) Larvae is Affected by Factors Other than Maternal Egg DHA Concentration	217	Alexander Krohn*, Eveline Diepeveen, Ke Bi, Erica Rosenblum Local Adaptation Does Not Lead to Genome-Wide Differentiation in Lava Flow Lizards	11:30 AM
219	SLR - Corinne Burns*, Lee Fuiman What Your Momma Gave You: Importance of Maternally Invested Nutrients for Larval Performance of Southern Flounder			11:45 AM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 14 JULY, Afternoon Sessions

ROOM		<i>Glass Oaks</i>		<i>Salon/Ballroom B</i>
SESSION/ SYMPOSIUM		LIGHTNING TALKS		ASIH STOYE GENETICS, DEVELOPMENT, & MORPHOLOGY II
MODERATOR		Dustin Siegel & Stan Trauth		Nancy Brown-Peterson
1:30 PM		431 Reiland-Smith; 314 Morgan; 378 Davis; 31 Trauth; 316 Muths; 285 Platenberg; 917 Pinte; 399 Claunch; 769 Brocka; 710 Francis; 665 Willson; 411 Badhon; 27 Siegel; 329 Delisle; 313 Carlson; 589 Carter; 744 Hundt; 39 McMartin; 887 Koo; 874 Welch; 488 Curtis; 493 Crowe-Riddell; 845 McCall; 797 Blais; 151 Doan	793	Kristen A. Dahl* , William F. Patterson, III , David S. Portnoy , J. Derek Hogan , Alison Robertson , Alice Ortmann DNA Barcoding and Microsatellite Genotyping Confirm Cannibalism in Northern Gulf of Mexico Invasive Lionfish, <i>Pterois volitans</i>
1:45 PM			50	Amy Brower* , Alexis Janosik Using environmental DNA to detect lionfish in estuarine habitats of the Northern Gulf Coast
2:00 PM			430	Kirill Vinnikov* , Kathleen Cole Exon Capture Sequencing of Amphidromous Gobies from the Genus <i>Stenogobius</i> (Teleostei: Gobiiformes)
2:15 PM			519	Erika Krahl* , Aaron Schrey , Jingou Tong , Edward Heist Differentiating Between Invasive and Native Populations of Bighead and Silver Carp Using MS-AFLP
2:30 PM			613	Nadya Mamoozadeh* , Jan McDowell , John Graves An Assessment of Genetic Population Structure for Striped Marlin (<i>Kajikia audax</i>) in the Pacific and Indian Oceans Using Genome-wide SNPs
2:45 PM			855	Scott Buchanan* , Jason Kolbe , Johanna Wegener , Jess Atutubo , Nancy Karraker Comparing the Population Genetic Structure of Eastern Painted Turtles (<i>Chrysemys p. picta</i>) and Spotted Turtles (<i>Clemmys guttata</i>) in Rhode Island
3:00 PM			612	Pedro P. Rizzato* , Anna Pospíšilová , Flávio A. Bockmann , Eric J. Hilton Ontogeny and homology of dermal bones associated with the laterosensory canal system in the skull of Polypteridae (Cladistii: Polypteriformes)
3:15 PM			614	Katherine Bemis* , James Tyler , William Bemis , Eric Hilton Comparative Anatomy of the Dentition of Molidae (Ocean Sunfishes) and Diodontidae (Porcupinefishes): New Insights from Ontogeny and Patterns of Tooth Replacement
3:30 PM			156	Kole Kubicek* , Ralf Britz , Kevin Conway Ontogeny of the Pectoral Spine in Siluroid and Loricarioid Catfishes
3:45 PM			686	Jessica Maxfield* , Kathleen Cole Shifting From Egg to Sperm Production in Bisexual Fishes: What Does an Ovotestis Have to do?
4:00 PM		POSTER SESSION I Rio Grande Hall		
5:00 PM				
6:00 PM				

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 14 JULY, Afternoon Sessions

	<i>Wedgewood</i>		<i>Trinity</i>	ROOM
	AES TROPHIC ECOLOGY/ PHYSIOLOGY		REPTILE BEHAVIOR/ HERP ECOLOGY III	SESSION/ SYMPOSIUM
	Carl Luer		Gregory Pauly	MODERATOR
369	Austin Gallagher*, Rachel Skubel, Heidi Pethybridge, Neil Hammerschlag Measuring the Energetic and Nutritional Status of Large, Migratory Sharks: Implications for Studies on Movement, Diet, and Reproduction	508	Rulon Clark*, Malachi Whitford, Grace Freymiller, Tim Higham Leaps and Bounds: High Speed Predator-Prey Interactions Between Sidewinder Rattlesnakes and Desert Kangaroo Rats	1:30 PM
635	Kaitlyn A. Manishin*, Kenneth J. Goldman, Margaret Short, Curry J. Cunningham, Peter Westley, Andrew C. Seitz Estimates of annual salmon shark consumption	637	Andrew Jesper*, Scott Eckert A 3D Approach to the Analysis of Movement Patterns and Homorange Estimation for the Timber Rattlesnake (<i>Crotalus horridus</i>) in Central Illinois	1:45 PM
819	Steven Kessel*, Joanne Fraser, William Van Bonn, Jill Brooks, Tristan Guttridge, Nigel Hussey, Samuel Gruber Transcoelomic expulsion of an ingested foreign object by a carcharhinid shark	821	Rocky Parker*, Sydney Ashton, Shannon Richard Inhibition of Snake Courtship Behavior via Heterospecific Odor	2:00 PM
421	Brendan Talwar*, Ian Bouyoucos, Jake Brownscombe, Cory Suski, Steven Cooke, John Mandelman, Edward Brooks Comparative behavioral and physiological response to longline capture	543	Connor Adams*, Timothy Garrett, Toby Hibbitts, Wade Ryberg, Tyler Campbell Home Range and Movements of the Reticulate Collared Lizard (<i>Crotaphytus reticulatus</i>) in South Texas	2:15 PM
375	Sebastian Pardo*, Nicholas Dulvy Body mass, temperature, and depth independently shape productivity in sharks and rays	150	Troy Baird*, Joshua York Sexual Selection on Male Collared Lizard Broadcast Display Behavior Enhances Offspring Survivorship	2:30 PM
469	Carl Luer*, Cathy Walsh, Jess Restivo, Timothy Polk, Hannah Reid Preliminary Studies to Transform Elasmobranch Immune Cells into a Continuous Cell Line	810	Gregory Pauly* Citizen Science is Transforming the Study of Squamate Mating Behavior: An Example from Alligator Lizards (<i>Elgaria</i>)	2:45 PM
478	Lisa Natanson, Danielle Ingle, Marianne Porter* Mechanical properties of vertebral cartilage at biologically relevant strains	250	Mark Merchant*, Dusty Savage, Amos Cooper, Chris Murray Nest Maintenance and Defense Regimens of the American Alligator (<i>Alligator mississippiensis</i>)	3:00 PM
	#N/A #N/A	501	Richard Orton*, Lance McBrayer Predation Alters Local Adaptation and Sexual Dichromatism	3:15 PM
		166	Steven Salinas*, Tristen Ortega, Jesús Rivas Control of Northeastern New Mexico Rivers: American Bullfrogs (<i>Lithobates catesbeianus</i>) vs. Northern Crayfish (<i>Orconectes virilis</i>) vs. Rainbow Trout (<i>Oncorhynchus mykiss</i>)	3:30 PM
		234	Adam Rosenblatt* What Happens to Black Caiman (<i>Melanosuchus niger</i>) When Their Prey Disappear?	3:45 PM
POSTER SESSION I Rio Grande Hall				4:00 PM
				5:00 PM
				* denotes presenter

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 14 JULY, Afternoon Sessions

ROOM		Salon/Ballroom A		San Antonio
SESSION/ SYMPOSIUM		SSAR SEIBERT CONSERVATION		HL GRADUATE RESEARCH AWARD/ AMPHIBIAN BEHAVIOR/TURTLE BEHAVIOR
MODERATOR		Ralph Saporito		David Green
1:30 PM	487	Chelsea Kross*, JD Willson Effects of non-native vegetation on larval development of a prairie specialist, the Crawfish Frog (<i>Lithobates areolatus</i>)	270	HL - Cody Godwin*, Jeremiah Doody, Brian Crother Assessment of ATV Impacts on Softshell Turtle Nests
1:45 PM	440	Richard Kim*, Brian Halstead, Eric Routman, Michael Casazza, Julie Andersen Predator-prey Interactions Between the Endangered San Francisco Gartersnake and the Invasive American Bullfrog Predict the Utility of Invasive Species Removal	220	HL - Andrew MacLaren*, Shawn McCracken, Michael Forstner Automated Detection of the Endangered Houston Toad's (<i>Bufo</i> [=Anaxyrus] <i>houstonensis</i>) Vocalization
2:00 PM	78	Ariel Kruger*, Peter Morin Green Frogs Harbor Microbes that Inhibit <i>Batrachochytrium dendrobatidis</i> , a Deadly Fungal Pathogen	728	HL - Shashwat Sirsi*, Andrew R. MacLaren, Daniel H. Foley III, Michael R.J. Forstner Comparing movement patterns and consequent management implications derived from Capture-Mark-Recapture, Telemetry, and Genetic Frameworks for the Rio Grande Cooter (<i>Pseudemys gorzugi</i>)
2:15 PM	473	Emily Karwacki, Matthew Atkinson*, Anna Savage A novel quantitative PCR assay specific for the emerging amphibian pathogen <i>Dermomyces</i> spp. reveals widespread infection in larval anurans	336	HL - Decio Correa*, Mathew Leibold Unraveling the Role of Evolutionary History on Skin and Gut Microbial Communities of Anuran Amphibians
2:30 PM	304	Cory Goff*, Caitlin Gabor, Susan Walls Core vs. Periphery: Linking Amphibian Declines to Habitat Quality and Increased Stress	8	David Green* Size-Assortative Mating in Anuran Amphibians: Assessing the Evidence
2:45 PM	486	Meghan Parsley* Adaptive Variation in Tiger Salamander Populations	909	Meghan Still*, Amanda Lea, Hans Hofmann, Michael Ryan The Role of Chemical Cues during Courtship in Túngara Frogs, <i>Physalaemus pustulosus</i>
3:00 PM	477	Matthew Metcalf*, Edwin M. Everham III, John Herman Landscape Ecology of Eastern Indigo Snakes (<i>Drymarchon couperi</i>) in Southwest Florida	321	Laura Springer*, Cory Adams, Toby Hibbitts, Matt Kwiatkowski, Dan Saenz Home Range and Activity Patterns in the Southern Crawfish Frog
3:15 PM	391	Danielle Bradke*, Eric Hileman, Jeffrey Bartman, Nathan Kudla, Lisa Faust, Jennifer Moore Effective Versus Census Population Size for a Threatened Pitviper (<i>Sistrurus catenatus</i>) in Southwest Michigan	714	Richard C. Vogt*, Camila R. Ferrara Underwater Vocalizations in Freshwater Turtles and Seaturtles may be used for Management and Documenting Presence and Abundance Data
3:30 PM	832	Rhett M. Rautsaw*, Scott A. Martin, Bridget A. Vincent, Katelyn Lancot, M. Rebecca Bolt, Richard A. Seigel, Christopher L. Parkinson Stopped dead in their tracks: The impact of railways on Testudine movement and behavior	65	Brad Carlson* The Ecology of Personality in Box Turtles
3:45 PM	831	Daniel Martin*, Larissa Bailey, Cameron Aldridge, Robert Reed, Daniel Manier A Comparison of Species Distribution and Occupancy Models for Informing Reptile Conservation		
4:00 PM	POSTER SESSION I Rio Grande Hall			
5:00 PM				
6:00 PM				

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 14 JULY, Afternoon Sessions

	<i>Pecos</i>		<i>San Marcos</i>	ROOM	
	LFC	MULTI-STRESSOR EFFECTS	SSAR SEIBERT PHYSIOLOGY & MORPHOLOGY	SESSION/ SYMPOSIUM	
	Hannes Baumann/	Marta Moyano	Mary White	MODERATOR	
380	Werner Ekau*, Simon Geist		184	John Stepanek*, Natalie Claunch, Julius Frazier, Ignacio Moore, Ben Vernasco, Camilo Escallón, Emily Taylor	1:30 PM
	Climate change impacting recruitment in upwelling areas: Can we save the small pelagics' stocks from extinction?			Corticosterone-Induced Color Change in Southern Pacific Rattlesnakes (<i>Crotalus helleri</i>)	
292	Louise Cominassi*, Marta Moyano, Guy Claireaux, Patrcik Quazuguel, Sarah Howald, Felix Christopher Mark, José-luis Zambonino, Myron Peck		34	Jessica L. Tingle*, Timothy E. Higham	1:45 PM
	Combined Effects of Ocean Acidification and Warming on the Swimming Capacity of European Sea Bass Larvae			Morphological Correlates of Locomotor Specialization in Vipers	
393	Christopher Murray*, Jacob Snyder, Hannes Baumann		429	Rebecca Jasulevicz*, Aaron Bauer	2:00 PM
	A Multi-Factorial Evaluation of Temperature Dependent CO ₂ -Effects in a Coastal Forage Fish			Morphological Diversification of the Pectoral Girdle and Associated Structures within Gekkota	
259	Janet Nye, Hannes Baumann, SLR - Teresa Schwemmer*		229	Daniel F. Hughes*, Paul M. Gignac, Eli Greenbaum, Arshad M. Khan	2:15 PM
	Physiological Effects of Increased Temperature and Carbon Dioxide on Atlantic Silverside Early Life Stages			Elucidating the Cranial Diversity of Chamaeleonidae by Incorporating Validated Field-Based Brain Tissue Preservation Methods into Multi-Scale Structural Analyses	
109	Jacob Snyder*, Christopher Murray, Hannes Baumann		444	Logan Fehrenbach*, Christopher R. Tracy	2:30 PM
	Maternal effects on offspring CO ₂ sensitivity in a coastal marine fish			Physiological differences of two closely related skink species, <i>Plestiodon skiltonianus</i> and <i>Plestiodon gilberti</i> , that differ in habitat aridity	
633	SLR - Andria K. Salas*, Preston S. Wilson, Megan S. Ballard, Andrew H. Altieri, Timothy H. Keitt		510	Ariana Rupp*, David Sever	2:45 PM
	The Role of Intermittent, Short-range Acoustic Cues on Larval Fish Settlement			Junk in the Trunk: Caudal Courtship Glands Present in Plethodontid Salamanders Without Mental Glands	
	Discussion: Mult-Stressor		553	Mariah Cardoza*, Michael Wines, Jennifer Deitloff	3:00 PM
				Effect of Silver Nanoparticles on Larval <i>Ambystoma mexicanum</i>	
					3:15 PM
					3:30 PM
					3:45 PM
POSTER SESSION I Rio Grande Hall				4:00 PM	
				5:00 PM	
	ELHS Business Meeting 5-6:30 PM				6:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Morning Sessions

ROOM		<i>Glass Oaks</i>		<i>Salon/Ballroom B</i>
SESSION/ SYMPOSIUM		HL/SSAR/ASIH SYMPOSIUM THE SCIENCE, MANAGEMENT, AND POLICY OF AMPHIBIAN CONSERVATION		FISH GENETICS
MODERATOR		Julia Earl		Trevor Krabbenhoft
8:00 AM	241	Whit Gibbons*	878	Jan McDowell*, Hamish Small Genetic assessment of the population structure of Tautog, Tautoga onitis
8:15 AM		Ray Semlitsch: A Brief History of a Visionary in Amphibian Ecology	801	Ron Eytan*, Eva Paulus, Max Weber, Tracey Sutton Once bitten, twice shy: a cryptic species of Sloane's Viperfish (Chauliodus sloani) discovered in the mesopelagic waters of the Gulf of Mexico
8:30 AM	669	Freya Rowland*, Raymond Semlitsch The Ecological Role of Pond-Breeding Amphibians	343	Kayla Anatone*, Barry Chernoff, Michelle Kraczkowski, Abrial Meyer, Chloe Nash Barriers to Gene Flow for Two Species of Dace (Rhinichthys) in Three Connecticut Streams
8:45 AM	315	Keith Berven* Patterns and Trends in the Population Dynamics of Wood Frogs Based on a 33-year Study in Southeastern Michigan	586	Trevor Krabbenhoft*, Daniel Yule, Gerald Smith, Wendylee Stott, Thomas Dowling Transcriptomics Identifies Genes Associated with Phenotypic Differences among Great Lakes Ciscoes (Coregonus spp.)
9:00 AM	522	Howard Whiteman*, Alycia Lackey, Michael Moore, Jacqueline Doyle, Nicole Gerlanc, Ashley Hagan Understanding the Evolution of Alternative Life Histories Using Long-term Population Monitoring	278	S. Elizabeth Alter*, Fernando Alda, Matthew Aardema, Prosanta Chakrabarty, Melanie Stiassny How did the cichlid lose its sight? Comparative genomics and phylogenetics of the riverine lamprologines (Cichlidae, Lamprologini)
9:15 AM	1	Marty Crump* Life Histories and Conservation of Anurans in the New World Tropics		
9:30 AM		BREAK - Rio Grande Hall		
SESSION/ SYMPOSIUM		HL/SSAR/ASIH SYMPOSIUM THE SCIENCE, MANAGEMENT, AND POLICY OF AMPHIBIAN CONSERVATION		FISH BIOGEOGRAPHY & MORPHOLOGY
MODERATOR		Michelle Boone		Chris Kenaley
10:00 AM	737	Joseph Pechmann*, David Scott, Brian Metts, Erin Cork, Stacey Lance Shifts in the Salamander Community Over 36 Years at an Isolated Wetland: Has Climate Change Altered Wetland Habitat and Hydroperiod?	56	Hyo Jae Yu*, Jin-Koo Kim Clarifying the Effects of a Sister Species and Dispersal of Ichthyoplankton on the Population Genetic Structure of Goldeye Rockfish, Sebastes thompsoni (Pisces, Sebastidae)
10:15 AM	98	Winsor Lowe* A grounded approach to dispersal research	915	D Ross Robertson*, Luke Tornabene, Carole C Baldwin What do different databases indicate about Caribbean fish depth-ranges
10:30 AM	454	David Skelly* Evolution in the Shade: the Microgeography of Thermal Adaptation in the Wood Frog	492	Hannah Owens* Seeing the Invisible: Biogeographic Breaks in Circumtropical Billfishes (Istiophoridae and Xiphiidae)
10:45 AM	123	William Peterman*, Rio Schondelmeyer The Role of Genetic Diversity and Stress on Growth and Survival in Wood Frogs	244	Peter Unmack*, Mark Adams, Christine Thacker Hemi-clonal unisexual carp gudgeons (Eleotridae: Hypseleotris): systematic clarification of species boundaries and various hybrid lineages in southeastern Australia
11:00 AM	307	Elizabeth Harper*, David Patrick, James Gibbs Forestry Practices and the Dynamics of Amphibian Populations at the Landscape Scale: Modeling the LEAP Datasets	91	Daniel E. Figueroa*, Mauro Belleggia, Santiago Barbini, David Sabadín, Lorena Scenna, Melisa Chierichetti, Martin Roman The Young Argentine Sea, Its Ichthyofaunistic Colonization And Its Traumatic Evolution
11:15 AM	387	Melissa Youngquist*, Michelle Boone Understanding species distributions: the effects of landscape composition, configuration, and scale	597	Nathan Lujan*, Mark Sabaj, Leandro Sousa, Marcella Santos, Lúcia Rapp Py-Daniel, John Lundberg, Brice Noonan Comparative population genomics of seven fish taxa spanning rapids of the lower Xingu River, Amazon Basin, Brazil
11:30 AM	71	Thomas Anderson*, Brittany Ousterhout, William Peterman, Jacob Burkhart, Freya Rowland, Dana Drake, Lori Eggert, Ray Semlitsch Comparative insights on spatiotemporal dynamics of co- occurring ambystomatid salamanders	896	Michael Pauers*, Cassandra Turinske Patterns of morphological divergence in the Orangespotted sunfish, Lepomis humilis, in Wisconsin and throughout the United States

11:45 AM	28	<p>Julia E. Earl*</p> <p>Effects of Global Change on Amphibian Biomass Export from Ponds: a Meta-analysis of Mesocosm Studies</p>	690	<p>Kassandra Ford*, James Albert</p> <p>The long and short of it: Patterns of snout differentiation in four species of mormyrid electric fishes (Osteoglossiformes: Mormyridae)</p>
12:00 PM		LUNCH ON YOUR OWN		

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Morning Sessions

	<i>Wedgewood</i>		<i>Trinity</i>	ROOM
	AES SYMPOSIUM APPLICATIONS OF PHYSIOLOGICAL ECOLOGY		TEXAS AND MEXICAN BLINDCATS/ DESERT FISHES	SESSION/ SYMPOSIUM
	Christine Bedore		John Lundberg	MODERATOR
462	Christine Bedore*, Kady Lyons	266	John G. Lundberg*, Dean A. Hendrickson, Kyle Luckenbill, Mariangeles Arce-H.* Satan's Skeleton Revealed	8:00 AM
	Applications of Physiological Ecology in Elasmobranch Research	733	Laura E. Dugan*, Dean A. Hendrickson, Antonio Hernández-Espriú, Gary P. Garrett, Adam E. Cohen, Brad Wolaver, Ryan Smith Conservation status assessment of the endangered Mexican blindcat, <i>Prietella phreatophila</i>	8:15 AM
806	Dovi Kacev*, Lisa M Komoroske, Shannon Corrigan, Christine N Bedore, Kady Lyons, Andrew R Thompson	301	Dean A. Hendrickson*, Antonio Hernández-Espriú, Laura Dugan, Peter Sprouse, José Antonio Dávila Paulín, Jean Krejca, Andrew Gluesenkamp, James Reddell, Ryan Smith, Sarah Howard, Jack Johnson, Gary P. Garrett, Adam E. Cohen, Francisco J. García De León, Brad Wolaver, Dante B. Fenolio Discovery of Endangered Mexican Blindcat, <i>Prietella phreatophila</i> , in Texas: Implications for International Groundwater Management and Evolution of the Regional Karst Aquifer Biota	8:30 AM
	Advances in molecular tools and applications to understanding the ecology and physiology of elasmobranchs			
298	Kady Lyons*, Dovi Kacev, David Gillett, Antonella Preti, Heidi Dewar, Suzanne Kohin	491	Gary Garrett*, Megan Bean, Robert Edwards, Dean Hendrickson Declines and losses of spring/ciénega ecosystems in the Chihuahuan Desert of Texas	8:45 AM
	Using Organochlorine Contaminants as a Tool to Examine Ecological Physiology in Three Species of Pelagic Sharks	877	Kevin W. Conway*, Megan Osborne, Megan Bean, David Portnoy The plight of the Rio Grande Shiner, <i>Notropis jemezianus</i> , in the lower Rio Grande along the Texas/Mexico border	9:00 AM
683	G - Johanna Imhoff*, Dean Grubbs			9:15 AM
	Trophic Relationships and Mercury Contamination of Deep Sea Sharks in the Gulf of Mexico			
BREAK - Rio Grande Hall				9:30 AM
	AES SYMPOSIUM APPLICATIONS OF PHYSIOLOGICAL ECOLOGY		LIZARD CONSERVATION & LIFE HISTORY	SESSION/ SYMPOSIUM
	Christine Bedore		Michael Westphal	MODERATOR
352	G - James Anderson*	720	Dean Williams*, Amanda Hale, Ashley Wall, Daniella Biffi Conservation genetics of Texas horned lizards (<i>Phrynosoma cornutum</i>)	10:00 AM
	Navigation By Magnetic Field Information In Elasmobranch Fishes - How Environment Shapes Functionality And Capability	193	Ashley Grimsley*, Daniel Leavitt, Michael Ingraldi Flat-tailed Horned Lizard (<i>Phrynosoma mcallii</i>) Population Viability Analysis in the Yuma Desert of Arizona	10:15 AM
530	Eloise Cave*, Stephen Kajiura	455	Robert E. Lovich*, Daniel J. Leavitt Celebrating 20 Years of Conservation: Flat-tailed Horned Lizard (<i>Phrynosoma mcallii</i>) Rangewide Management Strategy	10:30 AM
780	Christine Bedore*	604	Michael Westphal*, Alex Filazzola, Amanda Liczner, Taylor Noble, Deborah Woolett-Smith, Christopher Lortie Nonrandom association of blunt-nosed leopard lizards (<i>Gambelia sila</i>) with California jointfir (<i>Ephedra californica</i>) in a high-elevation refugium	10:45 AM
348	Theresa Gunn*, Christine Bedore	616	Brenna A. Levine*, Marlis R. Douglas, Whitney J. B. Anthonysamy, Casey Brewster, Hayden D. Elliot, Michael E. Douglas Contemporary Population Connectivity of the Eastern Collared Lizard (<i>Crotaphytus collaris collaris</i>) in Arkansas	11:00 AM
841	Christopher Mull*, Kara Yopak, Nicholas Dulvy	636	Travis LaDuc*, Brad Wolaver, Ben Labay, Jon Paul Pierre, C. Michael Duran, Toby Hibbits, Wade Ryberg, Ian Wright, Matt Fujita, Corey Roelke Unraveling the Natural History of the Enigmatic Spot-tailed Earless Lizard (<i>Holbrookia lacerata</i>) through Collaborative Research	11:15 AM
	Can you spare some brain: how life history and ecology have shaped brain size evolution in sharks and rays	698	Bryan Falk*, Emma Hanslowe, Amy Yackel Adams, Robert Reed Working Towards Improved Management of Invasive Black and White Tegus (<i>Salvator merianae</i>)	11:30 AM

279	Ashley Shaw*, Doug Adams, Amanda Barker, Chris Bedore, Jim Gelsleichter, David Portnoy, Eric Reyier, Bryan Frazier Trophic ecology and condition of sympatric hammerhead species in nursery habitats in the Southeast U.S.	204	Jill Heaton*, Kirsten Dutcher Natural History and Ecology of Two Endemic Namibian Girdled Lizards: <i>Namazonurus pustulatus</i> and <i>Karusasaurus jordani</i>	11:45 AM
LUNCH ON YOUR OWN				12:00 PM

* denotes presenter

2017 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin, TX

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Morning Sessions

	Salon/Ballroom A		San Antonio	ROOM
	FISH BEHAVIOR/ FISH LIFE HISTORY			SESSION/ SYMPOSIUM
	Terry Donaldson			MODERATOR
610	Paul James*, Gerard Closs Spatial Segregation and Site Fidelity of the Canterbury Galaxias (<i>Galaxias vulgaris</i>) in a Small New Zealand Stream			8:00 AM
448	Terry J. Donaldson* Mating Systems of <i>Hemigymnus melapterus</i> and <i>Cheilio inermis</i> (Labridae) on a Spawning Aggregation Site: Weird!			8:15 AM
385	Nathaniel Zbasnik*, Steve Huskey The Impact of Invasive Lionfish, <i>Pterois volitans</i> , on the Feeding Performance of Endemic Spotted Scorpionfish, <i>Scorpaena plumieri</i>			8:30 AM
809	Bryan Keller*, Chip Cotton Preliminary Ageing of Selected Deep Demersal Fishes from the Northern Gulf of Mexico			8:45 AM
798	Rachel Grey*, Virginia Shervette, Joseph Ballenger, David Wyanski Life History of Lionfish (<i>Pterois</i> spp) in Invaded Range			9:00 AM
				9:15 AM
BREAK - Rio Grande Hall				9:30 AM
	FISH REPRODUCTION & DEVELOPMENT		AES CONSERVATION & MANAGEMENT I	SESSION/ SYMPOSIUM
	Raelynn Deaton Haynes		Marcus Drymon	MODERATOR
468	Nancy J. Brown-Peterson*, Trevor Moncrief Does Depth Influence Red Snapper Reproductive Biology Metrics?	863	Cheston Peterson*, R. Dean Grubbs A Selectivity Comparison of Gillnet and Longline Fishing Gear Composed of a Range of Mesh and Hook Sizes Using Data from Coastal Shark Survey	10:00 AM
906	Robert Jacobson* Stop Counting Eggs!: Using Computer Vision To Gather Data	121	Marcus Drymon*, Steven Scyphers Attitudes and Perceptions Influence Recreational Angler Support for Shark Conservation and Fisheries Sustainability	10:15 AM
68	Gianluca Polgar*, Hans-Georg Rupp, Hieu Van Mai, Atsushi Ishimatsu Observations on the Reproductive Cycle of the Mudskipper, <i>Periophthalmus variabilis</i> (Teleostei, Gobioidae) in Semi-natural Conditions	26	David Shiffman* Trends in Elasmobranch Research 1985-2016: Methodologies, Study Species, Conservation Framing, and Presenter Demographics	10:30 AM
800	Miguel F. Arciria Correa, René A. Gulfo Ávila, Fredys F. Segura-Guevara, Angel L. Martínez-González, Glenys Tordecilla-Petro, Charles W. Olaya-Nieto* Reproductive biology of <i>Morrúa Geophagus steindachneri</i> in the Ciénaga de Betancí, Sinu River System	451	Jose I. Castro* The Origins and Rise of Shark Biology in the 20th Century	10:45 AM
786	Karen Crow* There may be more to the Hox Code than you thought. The "Distal Phase" HoxA/D expression pattern is an ancient module that is deployed in a variety of novel features in fishes	358	Catherine Macdonald*, Julia Wester Media Coverage of Shark Attacks in Cape Town, South Africa, 1850-2000	11:00 AM
580	Richard Feeney*, Milton Love, Taylor Sakmar, William Steinriede, Kaia Joye Moyer Unusual occurrence of King-of-the-Salmon (<i>Trachipterus altivelis</i>) juveniles near Santa Catalina Island, California, during the winter of 2013	439	Sabine Wintner*, Sven Kerwath Cold Fins, murky Waters and the Moon: What Affects Shark Catches in the Bather Protection Program of KwaZulu-Natal, South Africa?	11:15 AM
213	Alora Yarbrough*, Karen Martin Effects of Increased Air and Water Temperatures on the Embryonic Development of the California Grunion	67	Pedro Ibañez, Mauro Belleggia*, Daniel E. Figueroa Biological Aspects Of The Broadnose Skate <i>Bathyraja brachyrops</i> From The Argentinean Continental Shelf	11:30 AM
		367	Matthew Scanlon*, Bryan Fluech, Christine Bedore Evaluating elasmobranch interactions in the Georgia shrimp fishery	11:45 AM
LUNCH ON YOUR OWN				12:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Morning Sessions

ROOM		<i>Pecos</i>		<i>San Marcos</i>
SESSION/ SYMPOSIUM		LFC CONTRIBUTED III		HERP ENVIRONMENT
MODERATOR		Hubert Keckeis		Michael Lannoo
8:00 AM	897	Marianne Falardeau*, Caroline Bouchard, Dominique Robert, Louis Fortier Invasion of the Canadian Arctic Archipelago by Pacific Sand Lance Detected by an Ichthyoplankton Survey	852	Arthur Barraza*, Lisa Komoroske, Camryn Allen, Varenka Lorenzi, Daniel Lawson, Jeffrey Seminoff, Tomoharu Eguchi, Robin LeRoux, Christopher Lowe Comparing Persistent Organic Pollutants and Trace Metals In Green Sea Turtles (<i>Chelonia mydas</i>) Inhabiting Two Urbanized Habitats in Southern California
8:15 AM	447	Cindy van Damme*, Niels Hintzen, Frank Kleissen, Loes Bolle, Matthias Kloppmann, Richard Nash Improving Larvae Survey Indices: A case study of North Sea Herring	644	Katie Parson*, Kimberly Andrews, Terry Norton, Joseph Colbert The Influence of Temperature Fluctuations and Habitats on the Surface Activity and Reproduction of Eastern Diamondback Rattlesnakes in Coastal Climates
8:30 AM	599	Katrin Marancik*, David Richardson, Jeffrey Guyon, Molly Lutcavage, Benjamin Galuardi, Chi Hin Lam, Harvey Walsh, Sharon Wildes, Douglas Yates, Jonathan Hare Discovery of a Slope Sea spawning ground for Atlantic bluefin tuna (<i>Thunnus thynnus</i>)	531	Mary-Ruth Low*, David Bickford, Sonja Luz Spatial Ecology of the Reticulated Python in Singapore
8:45 AM	35	Steven Porter*, Lorenzo Ciannelli Contrasting Flathead Sole (<i>Hippoglossoides elassodon</i>) spawning in the southeastern Bering Sea during warm and cold periods	691	Brian Tornabene*, Andrew Blaustein, Cheryl Briggs, Jason Rohr, Jason Hoverman Assessing the Influence of Spatial and Environmental Factors on Ranavirus Epidemiology in a California Amphibian Assemblage
9:00 AM	157	W. Howard Brandenburg*, Darrel E. Snyder, Steven P. Platania Guide to larval and early juvenile cyprinids of the middle and lower Pecos River (New Mexico and Texas)	674	Michael Lannoo*, Rochelle Stiles Effects of Short-term Climate Variation on a Long-lived Frog
9:15 AM	664	Nate Jacobson*, Kathy Koch, Chris Cieciek, Doug Bradley, Doug Dixon Internet-Based Larval Fish and Egg Taxonomic Keys for North American Freshwater and Marine Fishes	103	Jay McGhee* Use of PVC Pipe Refugia to Assess Summer Pond Use in Cope's Gray Treefrogs
9:30 AM		BREAK - Rio Grande Hall		
SESSION/ SYMPOSIUM		LFC CONTRIBUTED IV		HERP PHYSIOLOGY
MODERATOR		Hubert Keckeis		Jeffrey Goessling
10:00 AM	839	Joel Hoffman*, Christy Meredith, Anett Trebitz, Greg Peterson, Julie Lietz, Chelsea Hatzenbuehler, Erik Pilgrim, Sara Okum, John Martinson DNA Metabarcoding of Fish Larvae for Detection of Non-Native Fishes	885	Daniel Haro*, Katherine Holst, Gregory Pauly, Russell Burke, Heather Liwanag Comparing thermal physiology between introduced, urban populations of the Italian Wall Lizard (<i>Podarcis siculus</i>) in New York and California
10:15 AM	449	Tony Miskiewicz* Comparative assessment of morphological and pigmentation characters during larval development of species of 10 genera of <i>F. Gobiidae</i> and two genera of <i>F. Eleotridae</i>	779	Joseph Agugliaro*, Ayham Khrais Seasonal Changes in Metabolic Rate and Immune Function in the Rubber Boa (<i>Charina bottae</i>)
10:30 AM			719	Tanner Harvey*, Stephen Mackessy Prey specificity of <i>Boiga irregularis</i> venom toxins
10:45 AM			105	Jeffrey Goessling*, Mary Mendonca Effects of trapping on markers of acute stress in Gopher Tortoises, <i>Gopherus polyphemus</i>
11:00 AM			499	Michael Finkler*, Jessica Filer Physiological Consequences of Delayed Nest Emergence for Hatchling Snapping Turtles (<i>Chelydra serpentina</i>)
11:15 AM			29	Anthony Gilbert*, Donald Miles Natural Selection on Thermal Preference and Performance Over a Rapid Timescale
11:30 AM			58	Alessandro Catenazzi*, Robin Warne Rapid Acclimation of Critical Thermal Maximum in a Tropical Montane Frog
11:45 AM				#N/A #N/A

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Afternoon Sessions

ROOM		<i>Glass Oaks</i>		<i>Salon/Ballroom B</i>
SESSION/ SYMPOSIUM		HL/SSAR/ASIH SYMPOSIUM THE SCIENCE, MANAGEMENT, AND POLICY OF AMPHIBIAN CONSERVATION		FISH MORPHOLOGY/ FISH SYSTEMATICS
MODERATOR		Freya Rowland/ Katie O'Donnell		Kevin Conway
1:30 PM	914	Tracy Rittenhouse*, Susan Walls, Katie Beilfuss, Rochelle Renken Questions that Matter: Conducting Research that Managers Will Use	565	Christopher Martinez*, Matthew McGee, Peter Wainwright Evolution of Feeding Kinesis in African Cichlids
1:45 PM	171	Katherine O'Donnell*, Susan Walls Bridging the research-management gap: Effective conservation decisions for flatwoods salamanders through adaptive management	230	Iliana Mock*, Kevin Conway An Investigation of Oral Keratinization in North American Minnows (Teleostei: Cyprinidae)
2:00 PM	680	Jarrett Johnson* The Management Implications of Gene Flow Across Species Boundaries	481	Allison Bronson*, Henry Towbin Critical point drying improves contrast for CT scanning of soft tissue
2:15 PM	24	Ariadne Angulo*, Phillip J Bishop Providing a Global Framework for Translating Amphibian Research into Conservation Action	260	M.Laura Habegger*, Philip Motta, Dave Johnson An osteological description of the rostrum in billfishes (Xiphiidae and Istiophoridae)
2:30 PM	218	Susan Walls*, Raymond Semlitsch, Jamie Barichivich, Katherine O'Donnell A Comprehensive Multi-level Approach to Preventing Amphibian Extinction	422	Adam Summers*, Matthew Kolmann It's a hard-knock life - lepidophagy, armor, and injury in piranhas and their allies
2:45 PM	750	Priya Nanjappa* Science and the Real World: How Ray's Conservation Legacy has Influenced Management and Policy	15	Dominique Adriaens*, Jens De Meyer, Mathias Bouilliant, Joachim Christiaens, Claude Belpaire, Sam Van Wassenbergh, Anthony Herrel, Jonna Tomkiewicz, Peter Lauesen, Gregory Maes, Ron Dirks, Pascal Boeckx, Lieven Bervoets, Adrian Covaci, Govindan Malarvannan, Akihiro Okamura, Jelle Dhaene, Luc Van Hoorebeke, Barbara De Kegel European Eels...the Story of their (tough) Life
3:00 PM	158	James Collins* Amphibians in the 21st Century: The Challenge of Integrating Discovery and Loss, Conservation and Husbandry	388	Stuart Welsh*, Dean Jerry, Damien Burrows, Meaghan Rourke A New Species of Eel-tailed Catfish from New South Wales, Australia
3:15 PM			264	Eric Hilton*, Ann Matarese, Duane Stevenson Osteology of the Northern Ronquil, <i>Ronquilus jordani</i> , and the Comparative Development of the Skeleton of Bathymasteridae (Zoarcoidei): Insights into Systematic Relationships
3:30 PM			47	Young Sun Song*, Jin-Koo Kim Cryptic Diversity of Hagfishes (Family Myxinidae) collected from Korea, Japan, Vietnam and Argentina
3:45 PM		Panel & Discussion	79	Fernando Alda*, Victor A. Tagliacollo, Maxwell J. Bernt, Brandon T. Waltz, William B. Ludt, James S. Albert, Prosanta Chakrabarty Phylogenomics of Neotropical electric fishes (Gymnotiformes)
4:00 PM	POSTER SESSION II Rio Grande Hall			
5:00 PM				
6:00 PM				SSAR Business Meeting 6-8 p.m.

* denotes presenter

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Afternoon Sessions

	<i>Wedgewood</i>		<i>Trinity</i>	ROOM
	AES SYMPOSIUM APPLICATIONS OF PHYSIOLOGICAL ECOLOGY		TURTLE CONSERVATION	SESSION/ SYMPOSIUM
	Kady Lyons		Brad Shaffer	MODERATOR
743	Christopher G. Lowe*, Emily Meese, Sarah Luongo, Diego Bernal New Advances in Measuring and Modeling Metabolic Costs of Elasmobranchs To Predict the Future	784	H Bradley Shaffer*, Jannet Vu, Phil Spinks, Robert Thomson The Turtle Tree of Life and how it Informs Global Conservation Priorities	1:30 PM
		201	Roy Averill-Murray*, Kimberleigh Field Population Augmentation as a Recovery Strategy for the Mojave Desert Tortoise (<i>Gopherus agassizii</i>)	1:45 PM
579	G - Jennifer Bigman*, Nicholas Wegner, Nicholas Dulvy Does respiratory morphology explain the speed of life?	185	Kirsten Dutcher*, Amy Vandergast, Ken Nussear, Todd Esque, Anna Mitelberg, Jill Heaton A Recent History of Mojave Desert Tortoise (<i>Gopherus agassizii</i>) Genetic Connectivity in Relation to Utility-Scale Solar Development	2:00 PM
209	Kevin Weng*, Gen Del Raye, Dan Crear How Do You Know When a Shark is in Love? It's all in the Heart (Rate)	174	David Steen*, Orin Robinson Estimating Freshwater Turtle Mortality Rates and Population Declines Following Hook Ingestion	2:15 PM
559	Aaron Carlisle*, Mark Denny, Nishad Jayasundara, Adrian Gleiss, Elliot Hazen, Salvador Jorgensen, Kady Lyons, Heidi Dewar, Christopher Lowe, Barbara Block, Steven Bograd Warm Sharks in a Cold Ocean: Examining Thermal Physiological Boundaries Underlying Lamnid Shark Distribution	347	Tomo Eguchi*, Sam McClatchie, Cara Wilson, Scott Benson, Jeffrey Seminoff, Robin LeRoux Density, abundance, and distribution of loggerhead turtles off southern California during an extremely warm period	2:30 PM
		577	Erin Levesque*, Andrew Grosse An Evaluation of Culturing Diamondback Terrapins, <i>Malaclemys terrapin</i> , in Charleston, SC	2:45 PM
	Open Discussion	695	Nancy Karraker*, Kevin Shoemaker Effects of Field Mowing on Persistence of Eastern Box Turtle (<i>Terrapene carolina</i>) Populations	3:00 PM
		238	Thomas Duchak*, Russell Burke Habitat and Species-specific Factors could be causing Maternally-linked Hatching Failure in a Threatened Turtle Population	3:15 PM
		137	Donald Brown*, Madaline Cochrane, Ron Moen Standardized Design for Wood Turtle Population Monitoring in the Upper Midwest, USA	3:30 PM
		850		3:45 PM
POSTER SESSION II Rio Grande Hall				4:00 PM
				5:00 PM
				6:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Afternoon Sessions

ROOM		Salon/Ballroom A		San Antonio
SESSION/ SYMPOSIUM		HERP GENETICS		AES CONSERVATION & MANAGEMENT II
MODERATOR		Robert Page		Ramon Bonfil
1:30 PM	766	William Keitt*, Michael R.J. Forstner Examining the Utility of Environmental DNA (eDNA) as a Potential Survey Alternative to Detect the Rare, and Elusive Houston Toad (<i>Bufo</i> [= <i>Anaxyrus</i>] <i>houstonensis</i>)	886	Sonja Fordham* Wait, what? That's legal? An examination of under-appreciated inadequacies and imbalances in elasmobranch conservation policy
1:45 PM	659	Alexa Trujillo*, Matthew Lawrance, Kiernan Oknefski, Richard Seigel, Anna Savage Evolutionary Dynamics of an Expressed Class II MHC Gene in Rapid Frog Populations Impacted by Emerging Infectious Diseases	308	Karyl Brewster-Geisz*, Guy DuBeck, Jacqueline Wilson, Sarah McLaughlin, Tobey Curtis U.S. Atlantic shark management: what do the terms "overfished" and "overfishing" mean for sharks?
2:00 PM	596	Audrey Kelly*, Karin Pfennig Variation in Hybrid Post-metamorphic Survival Drives Patterns of Introgression in Spadefoot Toads	207	Chelsey N. Young*, Margaret H. Miller, John Carlson Understanding the U.S. Endangered Species Act and Examining Trends in Elasmobranch Petitions and Listings
2:15 PM	470	Iris Holmes, Maggie Grundler, Alison Davis Rabosky* Color Mosaics in Frogs and Snakes: What Drives Geographic Variation in Color Polymorphism?	394	Nicholas Dulvy*, Colin Simpfendorfer Bright spots of sustainable shark fishing
2:30 PM	93	Breanna Gould*, Sarah Corey-Rivas Immune Gene Toll-like Receptor-2 and Amphibian Tolerance to Emerging Fungal Disease	643	Linda Planthof*, Paddy Walker, Irene Kingma Elasmobranch Management in the European Union: Progress and Challenges
2:45 PM	102	Kristin Hinkson*, Stephen Richter Success of Management Practices: Genetic Diversity and Effective Size in the Endangered Dusky Gopher Frog (<i>Lithobates sevosus</i>)	656	Irene Kingma*, Paddy Walker, Linda Planthof How to protect Caribbean sharks: two recent case studies
3:00 PM	572	Anna Savage*, Matthew Lawrance, Elizabeth Abney, Katherine Mansfield Co-Evolution of Immune Genes and Herpesviruses in Juvenile Green and Loggerhead Sea Turtles	48	Olga Koubrak* A Future for a Forgotten Predator: An Assessment of International Legal Frameworks for Protection and Recovery of the Caribbean Sawfishes <i>Pristis pristis</i> and <i>Pristis pectinata</i>
3:15 PM	100	Robert Page*, Stephanie Dowell, Todd Campbell, Jared Wood Insights into the Introduction Histories and Population Genetic Dynamics of the Nile Monitor (<i>Varanus niloticus</i>) and the Argentine Black-and-White Tegu (<i>Salvator merianae</i>) in Florida	225	Ramón Bonfil*, Alexis Janosik, Oscar Uriel Mendoza-Vargas, Melina Ricaño-Soriano, Ivett Valladolid-Salazar, Nichelle VanTassel Needle in a Haystack: Preliminary Results of Using eDNA to Find the Last Sawfishes in Mexico
3:30 PM	550	Audrey Matheny*, Laura Kimmel, Gary Thomas, Emily Gertrand, Susan McKenna, Samah Houmam, Allyson Fenwick Comparative Genetic Structure of Mediterranean Geckos (<i>Hemidactylus turcicus</i>) across Central Oklahoma	638	Dean Grubbs*, John Carlson, Andrea Kroetz, Mark Bond, Bianca Prohaska, Bryan Keller First observation of the birth of wild smalltooth sawfish, <i>Pristis pectinata</i> , and the use of varied telemetry approaches to assess sawfish habitat use and residency in Andros, the Bahamas
3:45 PM	299	Benjamin Karin, Tony Gamble, Todd Jackman* Rapidly Evolving Long Exon Capture: A New Sequence Capture Dataset for Phylogenomics in Amniotes		
4:00 PM	POSTER SESSION II Rio Grande Hall			
5:00 PM				
6:00 PM				

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 15 JULY, Afternoon Sessions

	<i>Pecos</i>		<i>San Marcos</i>	ROOM
	LFC PHYSIOLOGICAL PERFORMANCE I		HERP MORPHOLOGY & DEVELOPMENT	SESSION/ SYMPOSIUM
	Prescilla Perrichon		Scott Parker	MODERATOR
	Introduction: Physiology	761	Mingna V. Zhuang*, Anthony P. Russell, Heather A. Jamniczky, Timothy E. Higham Evolution of the gecko ankle in relation to the acquisition of frictional adhesion: A geometric morphometric analysis of the mesotarsal joint	1:30 PM
532	Fernando Galvez*	509	Juan D. Daza*, Aaron M. Bauer, J. Salvador Arias, Edward L. Stanley, David A. Grimaldi At the root of the Gekkota clade, who is the oldest?	1:45 PM
	The Integrative Physiology and Comparative Genomics of Osmotic Diversification in <i>Fundulus</i> Species	199	Jessica Maisano*, Travis LaDuc, Christopher Bell, Diane Barber The Cephalic Osteoderms of <i>Varanus komodoensis</i> as Revealed by High-Resolution X-ray Computed Tomography	2:00 PM
		75	Steve Huskey*, Michael Smith, Christopher Anderson, Kenny Barnett Functional Diversity of the Gular Pouch in Chameleons: Who Gives a Hoot!	2:15 PM
911	Carlos Alfonso Alvarez-González*	94	Travis Hagey*, Jordan Garcia, Oacia Fair, Nikki Cavaliere, Barb Lundrigan Variation in Lizard Adhesive Toe Pad Shape	2:30 PM
	Digestive Physiology in Fish Larvae	43	Robin Andrews* Developmental Origin of Limb Size Variation in Lizards	2:45 PM
		355	Scott Parker*, Valerie Dimkovikj Comparative Responses to Hypobaric Versus Regional Hypoxia in Reptilian Embryos	3:00 PM
913	Benjamin Dubansky*, Warren Burggren	163	Deran Reddy* A Morphogenetic study of the Lungs of the Nile crocodile using Electron Microscopy	3:15 PM
	Growth, Development, and the Measure of Cardiovascular Physiology in Embryonic and Larval Teleost Fish	188	Christopher Thigpen*, Stanley Trauth Comparative Serous Gland Histology and Histochemistry in the Skin of North American Hylid and Ranid Frogs	3:30 PM
		22	Nicole Valenzuela*, Srihari Radhakrishnan, Robert Literman Sexually dimorphic DNA methylation of sex-determining genes in TSD painted turtle hatchlings and their historic methylation revealed by genome-wide analyses	3:45 PM
Poster Session II Rio Grande Hall				4:00 PM
				5:00 PM
				6:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 16 JULY, Morning Sessions

ROOM		<i>Glass Oaks</i>		<i>Salon/Ballroom B</i>
SESSION/ SYMPOSIUM		AES ECOLOGY I		LIZARD ECOLOGY
MODERATOR		Bryan Frazier		Daniel Leavitt
8:00 AM	92	Matthew Jargowsky*, Marcus Drymon Spatial Ecology of Rays in Mobile Bay	246	Daniel Leavitt*, Christopher Schalk Functional perspectives on the dynamics of desert lizard assemblages
8:15 AM	910	Brent Winner* A Multi-decadal Analysis of Distribution, Relative Abundance, and Habitat Utilization of the Cownose Ray, (<i>Rhinoptera bonasus</i>), in the southeastern United States	414	Matthew Lattanzio* Cool and Connected: The (Spatial) Thermal Ecology of a Montane Lizard
8:30 AM	309	Bryan Frazier*, William Driggers III, Camilla McCandless, Ashley Shaw, Elizabeth Vinyard On the importance of sampling gear: Relative abundance and habitat utilization of sharks in South Carolina revisited	624	Christopher Thawley*, Jason Kolbe Effects of Artificial Light at Night on Reproduction in Brown Anoles (<i>Anolis sagrei</i>)
8:45 AM	727	Jeffrey Plumlee*, Kaylan Dance, Phillip Match, John Mohan, Travis Richards, Thomas TinHan, David Wells Community structure of elasmobranchs in estuaries along the northwest Gulf of Mexico	661	Dan Rabosky* From Arid Australia to the Amazon: Comparative Ecology of the World's Most Diverse Squamate Communities
9:00 AM	466	Krupskaya Narváez, Filip Osaer* ANGELSHARK-ID: Creating a baseline for long-term angelshark monitoring in the Canary Islands	77	Casey Brewster*, Steven Beaupre The impact of woody vegetation encroachment on body size and reproduction in the Eastern Collared Lizard (<i>Crotaphytus collaris</i>)
9:15 AM			514	Ariel Steele*, Daniel Warner The Effect of Incubation Temperature on Sex and Morphology in a Lizard
9:30 AM		BREAK - Plaza Foyer		
SESSION/ SYMPOSIUM		AES ECOLOGY II		REPTILE CONSERVATION
MODERATOR		Joe Bizzarro		Christopher Howey
10:00 AM	255	Philip Match*, Jeremy Kiszka, Johann Mourier, Serge Planes, Michael Heithaus Species co-occurrence affects the trophic interactions of two juvenile reef shark species in tropical lagoon nurseries in Moorea (French Polynesia)	646	Ashley LaVere*, Oscar Brenes, Kimberly Andrews The Cutting Edge: A Rapid Loss of Beach Front Habitat for Reptile Communities in Costa Rica
10:15 AM	436	Matthew Smukall*, Tristan Guttridge, Samuel Gruber Seasonal and Ontogenetic Shifts in Movement and Trophic Position of Tiger Sharks <i>Galeocerdo cuvier</i> near Bimini, Bahamas	70	Brian Crawford*, Clint Moore, John Maerz, D. Todd Jones-Farrand, Mike Harris Range-wide Status Modeling to Accelerate Conservation of At Risk Species in the Longleaf System
10:30 AM	512	Rob Nowicki*, Mike Heithaus, Jordan Thomson, Derek Burkholder, Kirk Gastrich, Aaron Wirsing Does widespread resource loss influence trophic characteristics of tiger sharks?	754	Amy Yackel Adams*, Bjorn Lardner, Adam Knox, Julie Savidge, Robert Reed Evaluating searcher fatigue and taxon-bias during nocturnal visual encounter surveys for reptiles on Saipan, Commonwealth of the Northern Mariana Islands, USA
10:45 AM	262	Oliver Shipley*, Jill Olin, Michael Frisk Environmental and biological drivers of intra- and inter-specific resource use among sympatric skates in the northwest Atlantic	790	Christopher Howey* Restoration of Timber Rattlesnake Rookeries: Efficacy of Daylighting Management
11:00 AM	86	Joshua Stewart*, Christoph Rohner, Alessandro Ponzio, Daniel Fernando, Kerstin Forsberg, Brice Semmens Trophic overlap in mobulid rays: insights from stable isotope analysis	294	Sarah Baker*, Michael Dreslik, Christopher Phillips, Matthew Allender Impact of Snake Fungal Disease on Population Viability
11:15 AM	287	Liz Vinyard*, Wally Bublely, Gorka Sancho, Bryan Frazier Diet of the Finetooth Shark, <i>Carcharhinus isodon</i> , in coastal waters of the western North Atlantic Ocean	181	Craig Lind*, Ignacio Moore, Jeffrey Lorch, Terence Farrell Patterns of Circulating Corticosterone in a Population of Rattlesnakes Afflicted With Snake Fungal Disease: Stress Hormones as a Potential Mediator of Seasonal Cycles in Disease Severity and Outcomes
11:30 AM	835	Joseph J. Bizzarro*, Aaron B. Carlisle, Wade D. Smith, Enric Cortés Trophodynamics and Ecological Impacts of Eastern North Pacific Sharks	724	Kimberly M. Andrews*, Oscar Brenes, Richard G. Bauer, Lance Paden, Luis Deivi Castillo Tricks of the Trade in Researching and Managing Healthy Crocodylian Populations

11:45 AM			758	Cord Eversole*, Scott Henke, Selma Glasscock, Bart Ballard, Randy Powell, David Wester A theoretical harvest model for American alligators (<i>Alligator mississippiensis</i>) in Texas
12:00 PM		LUNCH ON YOUR OWN		

* denotes presenter

2017 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin, TX

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 16 JULY, Morning Sessions

	<i>Wedgewood</i>		<i>Trinity</i>	ROOM
	AMPHIBIAN CONSERVATION I		GENERAL HERPETOLOGY	SESSION/ SYMPOSIUM
	Jennifer Olori		Amber Hale	MODERATOR
14	Joseph R. Mendelson III* 10 Years of the Amphibian Ark: An overview of amphibian conservation-breeding programs	873	Christopher Beachy* How plethodontid lunglessness informs a perspective on ancestral state reconstruction for life cycle evolution	8:00 AM
290	Hardin Waddle*, Michael Adams, Daniel Calhoun, Robert Fisher, Evan Grant, Daniel Grear, Brian Halstead, Blake Hossack, Jeffery Lorch, Erin Muths, Susan Walls, LeAnn White A National Survey for Batrachochytrium salamandrivorans (Bsal) in the United States	768	Jarad Cochran*, Naya Eady, David Haskins, Melissa Pilgrim, Tracey Tuberville Influence of Coal Combustion Residues on Metabolic Rates and Immune Responses in Eastern Mud Turtles (<i>Kinosternon subrubrum</i>)	8:15 AM
190	Miranda Strasburg*, Michelle Boone Examining the Role of Pesticide Exposure on Parasite Infections in Amphibians	99	Samuel Tegge*, Steve Huskey, Michael Smith, Christopher Anderson, Kenneth Barnett, Emily Hamilton, Kathryn Laslie The Behavioral Context and Mechanism of Biotremors in the Veiled Chameleon, <i>Chamaeleo calytratus</i>	8:30 AM
504	Sarah Corey-Rivas* Population-Level Variation in Southern Rocky Mountain Boreal Toad Susceptibility to <i>Batrachochytrium dendrobatidis</i>	160	Ayesha Akram*, Muhammad Rais Taxonomic Review, Revised checklist and Photographic Identification Guide of Frogs (Family Dicroglossidae) of Sub-tropical scrub and Pine Forest (District Rawalpindi and Islamabad Capital Territory), Pakistan	8:45 AM
854	Jennifer Olori*, Sofia Windstam Multi-year Prevalence and Co-infection Dynamics of Ranavirus and Chytrid Fungus in Central New York	794	Andrea Villamizar-Gomez*, William Keitt, Zachary Adcock, Dittmar Hahn, Michael Forstner Prevalence of chytrid fungus (<i>Batrachochytrium dendrobatidis</i>) in the Jollyville Plateau Salamanders (<i>Eurycea tonkawae</i>) and its correlation with microhabitat	9:00 AM
289	Allison Sacerdote-Velat*, Mary Beth Manjerovic, Rachel Santymire Community, Health, and Stress Response of Reintroduced and Resident Amphibians to Oak Woodland Restoration	428	Amber Hale*, Mark Merchant Autophagy pathway in the American alligator	9:15 AM
BREAK - Plaza Foyer				9:30 AM
	AMPHIBIAN CONSERVATION II		AMPHIBIAN BIOLOGY/ ECOLOGY/ CONSERVATION	SESSION/ SYMPOSIUM
	Steve Johnson		David Blackburn	MODERATOR
167	Christopher Schalk*, Carmen Montana, Kelsey Kralman, Daniel Leavitt Functional distance and establishment of non-native species with complex life cycles	551	David Blackburn*, Edward Stanley A Digital Encyclopedia of Frogs	10:00 AM
135	Muhammad Rais*, Ayesha Akram, Muhammad Saeed, Sadia Munir, Saleha Abbassi, Tariq Mahmood, Maqsood Anwar Anuran Assemblage and Identification of Sites for Population Monitoring in Sub-tropical Scrub and Pine Forest, Rawalpindi and Islamabad Capital Territory, Pakistan	581	Leah Perez*, D. Brent Burt, Matthew A. Kwiatkowski The Evolution of Potential Color Signals in Hyliid Frogs	10:15 AM
96	Anne Devan-Song*, Justine M. Fox, Haley A. Moniz, Nancy E. Karraker Can Upland Clustering of Eastern Spadefoot Toads (<i>Scaphiopus holbrookii</i>) Predict Breeding Pool Locations?	53	Paul Crump*, Jeff Houlahan Using Out-of-Sample Predictions to Evaluate Performance of Automated Acoustic-Abundance Models	10:30 AM
443	Takashi Haramura* Acoustic cues can be used to attract invasive cane toads in Japan	782	Gerardo Carfagno*, Lucas Thompson, Andrea Sitton, Kurt Andresen, Taylor Bury, Laura Lee, Kevin Lerner, Peter Fong Results of Experimental Gold Nanoparticle Exposure in Wood Frog (<i>Lithobates sylvaticus</i>) and Bullfrog (<i>L. catesbeianus</i>) Tadpoles	10:45 AM
578	Steven Whitfield*, Jacob Kerby, Juan Abarca, Gilbert Alvarado Ecology and Conservation of Relict Amphibian Populations in Costa Rica	617	Ethan Kessler*, John Crawford, Andrew Kuhns, Christopher Phillips Local and Landscape Drivers of Amphibian Community Composition across Illinois	11:00 AM
	#N/A #N/A	45	Bryan Juarez*, Daniel Moen, Dean Adams Morphology predicts jumping performance in frogs	11:15 AM
776	Steve Johnson*, Suzanne Simpson, Emily Leary	371	Jacquelyn Guzy*, Kelly Halloran, Jessica Homyack, John D. Willson	11:30 AM

	Critical thermal minima of Cuban Treefrogs in Florida		Influence of Streamside Management Zones on Salamander Species Richness within Managed Forests of the Ouachita Mountains of Arkansas	
799	John Peterson*, Nick Boehme, Tyler Sternbach, Gary Casper Should frog vocalization surveys be conducted later at night?		#N/A #N/A	11:45 AM
LUNCH ON YOUR OWN				12:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 16 JULY, Morning Sessions

ROOM		Salon/Ballroom A		San Antonio
SESSION/ SYMPOSIUM		FISH ECOLOGY I		AES GENETICS/ SYSTEMATICS/ BIOGEOGRAPHY
MODERATOR		Tracey Sutton		Karyl Brewster-Geisz
8:00 AM	649	Tracey Sutton*, Jon Moore, April Cook, Andrea Bernard, Kevin Boswell, Ron Eytan, Kim Finnegan, Christopher Kenaley, Lacey Malarky, Ted Pietsch, Nina Pruzinsky, Mahmood Shivji, Max Weber, R. David Wells, Danté Fenolio The Epi-to-Bathypelagic Ichthyofauna of the Gulf of Mexico: Recent Surveys Reveal Exceptional Diversity and Endemism, with 180 New Species Records	374	Milton Tan*, Al Dove, Tim Read A New and Improved Genome Assembly of the Whale Shark (Rhincodon typus) and Comparative Genomics of Positive Selection
8:15 AM	602	Michael J. Andres*, Mark S. Peterson, E. John Anderson, J. Read Hendon Spatiotemporal Variation in the Parasite Community of the Bay Anchovy Across Mississippi Sound, USA	434	Alayne Chappell*, Dovi Kacev, Andrew Nosal, Kevin Feldheim, Daniel Cartamil Population Structure and Genetic Diversity in Southern California Thresher Sharks (<i>Alopias vulpinus</i>)
8:30 AM	772	Raelynn Deaton Haynes*, Kelly McNab, Caitlyn Higgins, Briana Sebastian, David Johnson Seagrass-Associated Fish Biodiversity in Texas Coastal Ecosystems	595	Tom Kashiwagi*, Andrea Marshall, Shannon Corrigan, Alistair Dove, Rafael de la Parra Venegas, Gavin Naylor, Edward Heist Are there DNA evidences for the new species of Manta ray?
8:45 AM	354	Grayce Palmer, Derek Hogan*, Blair Sterba-Boatwright, Deborah Overath Invasive lionfish <i>Pterois volitans</i> reduce the density but not the genetic diversity of a native reef fish	445	Andrea Marshall*, Tom Kashiwagi, Harry Webb, Al Dove Growing Evidence for a Distinct Third Species of Manta Ray
9:00 AM	899	George Guillen*, Jenny Oakley, Mandi Gordon, Cory Scanes Influence of Freshwater Inflow on Larval and Juvenile Fishes of the Lower Brazos River Estuary, Texas	30	Margaret McClain*, Austin Gallagher, Neil Hammerschlag, Marcus Drymon, Dean Grubbs, Tristan Guttridge, Toby Daly-Engel Connectivity and Relatedness in Tiger Sharks between the Gulf of Mexico and the West Atlantic
9:15 AM				
9:30 AM		BREAK - Plaza Foyer		
SESSION/ SYMPOSIUM		FISH ECOLOGY II		AES REPRODUCTION/ LIFE HISTORY
MODERATOR		Kirk Winemiller		Jim Gelsleichter
10:00 AM	527	Kirk Winemiller*, Pitagoras Piana, Eduardo Cunha, Angelo Agostinho, Luiz Gomes Using Fish Functional Traits for Individual-based Modeling to Simulate Food-web Dynamics in River-floodplain Systems	437	Jim Gelsleichter* Preliminary Observations on the Search for a Shark Early Pregnancy Test
10:15 AM	319	Zachery D. Zbinden*, William J. Matthews Beta Diversity of Stream Fish Assemblages: Partitioning Variation Between Spatial and Environmental Factors	227	Taketeru Tomita*, Ryo Nozu, Masaru Nakamura, Keiichi Sato Oxygen-diffusion capacity of the white shark uterus: Oxygen delivery to an embryo without a placenta
10:30 AM	32	Bill Matthews*, Bob Nairn, Nick Shepheard, Zach Zbinden, Aaron Geheber, Edie Marsh-Matthews Fishes of a Heavy Metal Contaminated Superfund Stream (Tar Creek, Oklahoma) after Operation of a Passive Treatment System	191	Mariano Elisio*, Jorge, H. Colonello, Cynthia, A. Awruch, Gustavo, M. Somoza, Gustavo, J. Macchi Inter-annual Changes in the Narrownose Smooth-hound Shark (<i>Mustelus schmitti</i>) reproductive timing in Relation to Temperature Patterns in Coastal Waters of the South-western Atlantic Ocean (34-42 °S)
10:45 AM	888	Jania M. Gómez-Romero, Ruth T. Chacón-Polo, Ángel L. Martínez-González, Glenys Tordecilla-Petro, Charles W. Olaya-Nieto ¹ , Fredys F. Segura-Guevara* Trophic ecology of Cachagua Trachelyopterus insignis in the Ciénaga de Ayapel	518	Jessica Dutton*, Kaitlyn Gioia, Nicholas Fisher, Daniel Madigan Mercury Bioaccumulation and Maternal Transfer in Spiny Dogfish (<i>Squalus acanthias</i>)
11:00 AM	33	Edie Marsh-Matthews*, William Matthews Temperature affects recruitment of Western Mosquitofish, <i>Gambusia affinis</i> , in mesocosms	858	Charles F. Cotton*, R. Dean Grubbs, Bryan Keller, Austin Heil, Alyssa Mathers, Shannon Rolfe Comparing life histories of sympatric deep-water dogfishes (<i>Squalus cubensis</i> and <i>S. cf. mitsukurii</i>) from the northern Gulf of Mexico
11:15 AM	256	Stuart Willis*, Christopher Hollenbeck, Jon Puritz, John Gold, David Portnoy Dispersal is limited by distance and depth in young-of-the-year, deep-water snappers (Lutjanidae) in the U.S. Caribbean as revealed by ddRAD population genomics	268	Kristine Stump*, David Die, John McManus, Tristan Guttridge, Samuel Gruber Using a Long-Term Mark-Recapture Dataset to Investigate Effects of Habitat Loss on Survival Probability of Juvenile Lemon Sharks
11:30 AM	203	Paul Chittaro*, Rich Zabel, Chris Grandin, Dayv Lowry Investigating Declines in Body Size of Salish Sea Pacific Hake Following Fishery Closure	608	Harold Pratt*, Theo Pratt, Dani Morley, Susan Lowerre-Barbieri ⁴ , Angela Collins, Jeffrey Carrier, Kristen Hart Partial Migration of the Nurse shark, <i>Ginglymostoma cirratum</i> , from the Dry Tortugas Islands

11:45 AM	312	Rosanna Milligan*, Tracey Sutton Quantifying Pelagic Habitat Use by Myctophids in the Northern Gulf of Mexico		
12:00 PM		LUNCH ON YOUR OWN		

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 16 JULY, Morning Sessions

	<i>Pecos</i>		<i>San Marcos</i>	ROOM
	LFC PHYSIOLOGICAL PERFORMANCE III			SESSION/ SYMPOSIUM
	Warren Burggren			MODERATOR
891	Elias Oziolor*, Cole Matson			8:00 AM
	Evolutionary toxicology: Genetic adaptation in Gulf killifish (<i>Fundulus grandis</i>) populations chronically exposed to environmental contaminants			8:15 AM
				8:30 AM
359		Edward Mager*		
	Gulf of Mexico Oil Pollution and Larval Fish Physiology			9:00 AM
				9:15 AM
BREAK - Plaza Foyer				9:30 AM
	LFC PHYSIOLOGICAL PERFORMANCE III		HERP BIOGEOGRAPHY & PHYLOGEOGRAPHY I	SESSION/ SYMPOSIUM
	Warren Burggren		Sarah Corey-Rivas	MODERATOR
812	Nancy Denslow*, Erchao Li, Derek Bolser, Kevin Kroll, David Dreier, Erica Brockmeier, Francesco Falciani	623	Tom Devitt*, David Cannatella, David Hillis Species Formation in Eurycea Salamanders of the Edwards-Trinity Aquifer System, West-Central Texas	10:00 AM
	Exposure of Fathead Minnows (<i>Pimephales promelas</i>) to Narcotic Chemicals Alters Energy Metabolism and Growth	101	Daniel Portik*, Adam Leache, Danielle Rivera, David Blackburn, Matthew Fujita Evaluating mechanisms of diversification in a Guineo-Congolian forest frog using demographic model selection	10:15 AM
		729	Edward Myers*, Frank Burbrink Does ecological divergence promote speciation across a biogeographic barrier?	10:30 AM
827		Jose Fernando Mendez Sanchez*	282	Derek Tucker*, Jack Sites, Jr., Tomas Hrbek, Adam Leache, Nelsy Rocío Pinto-Sánchez, R. Alexander Pyron, Miguel Rodrigues, Omar Torres-Carvajal, Giuseppe Gagliardi Urrutia, Pablo Venegas, Laurie Vitt, Fernanda Werneck, Guarino Colli Species Boundaries and Phylogeography of the Widespread Giant Ameiva (<i>Ameiva ameiva</i> : Teiidae)
	Physiology of Larval Air Breathing Fish	843	Eric Hoffman*, Steve Johnson, Sarah May, Anna Farmer, Stacey Lance Connectivity vs Isolation: a case study of gene flow in an imperiled salamander	11:00 AM
		902	Martin Femenías*, Luciano J. Avila, Jack W. Sites, Jr., Mariana Morando The Leiosaurae "matuastos" lizard clade endemic to southern South America: phylogeography, species limits, biogeographic history and new candidate species	11:15 AM
837	Monica Vanessa Garduño Paz*	183	Ishan Agarwal*, Aaron Bauer, Tony Gamble, Varad Giri, Uma Ramakrishnan A complex biogeographic history for the eyelid geckos (<i>Eublepharidae</i> , <i>Eublepharis</i>)	11:30 AM
	Physiological and Morphological Phenotypic Plasticity of Larval Fish			11:45 AM
LUNCH ON YOUR OWN				12:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 16 JULY, Afternoon Sessions

ROOM		<i>Glass Oaks</i>		<i>Salon/Ballroom B</i>
SESSION/ SYMPOSIUM		AES ECOLOGY III		GENERAL ICHTHYOLOGY I
MODERATOR		Charles Bangley		Ray Schmidt
1:30 PM	303	Charles Bangley*, Matthew Ogburn, Robert Fisher, Carla Curran, Robert Aguilar, Michael Goodison, Kierra Heggie, Anson Hines Migratory Behavior of Cownose Rays (<i>Rhinoptera bonasus</i>) on the U.S. Atlantic Coast	345	Brandon Waltz*, Fernando Alda, Prosanta Chakrabarty, James Albert Addressing the Achilles Heel of Biodiversity: UCEs Indicate Cryptic Speciation in the Neotropical Electric Fish <i>Eigenmannia macrops</i>
1:45 PM	697	Michael Frisk*, Keith Dunton, Chris Martinez, Catherine Ziegler, Josh Zacharias Passive acoustic telemetry reveals seasonal long distance migrations in the winter skate (<i>Leucoraja ocellata</i>)	205	Jonathan Armbruster*, Carla Stout Molecular systematics of Notropis and related shiners (Cypriniformes: Leuciscidae)
2:00 PM	838	Michael Byrne*, Heidi Dewar, Suzanne Kohin, Jeremy Vaudo, Bradley Wetherbee, Mahmood Shivji Juvenile Shortfin Mako Shark Habitat Use in the Eastern North Pacific	851	Michael Sandel*, Andres Aguilar, David Neely, Kayla Fast Evolution of the Coolest Hotspot: Interspecific Phylogeny of Baikal Sculpins
2:15 PM	397	Vital Heim*, Dieter Ebert, Samuel H. Gruber, Tristan L. Guttridge Behaviour at a provisioning site and the effects on the habitat and space use of the great hammerhead shark, <i>Sphyrna mokarran</i> , in Bimini, Bahamas	898	Christopher Kenaley*, Peter Jordan Body-Size Evolution in Ray-finned Fishes (Actinopterygii): Tempo, Mode, and Ecological Correlates
2:30 PM			792	Ray Schmidt* Community Structure and Conservation Status of Fishes in the Northern Ewaso Ng'iro in Kenya, East Africa
2:45 PM			870	Ronald Oldfield*, Mimi Guo, Jacob Hooks, Abhinav Kakuturu, Jeffrey Sommer, Shelly McCain, William Lutterschmidt, Tom Lorenz, Adam Cohen, Dean Hendrickson Taxonomy and Osmoregulatory Capacity in Non-Native <i>Herichthys</i> Cichlid Fishes in the Gulf Coast Region of the United States
3:00 PM		BREAK - Plaza Foyer		
SESSION/ SYMPOSIUM				GENERAL ICHTHYOLOGY II
MODERATOR				Eric Hilton
3:30 PM			46	Seung Eun Bae*, Jin-Koo Kim Significant Population Genetic Structure of the Grass Puffer (<i>Takifugu niphobes</i>) in Korean Waters: Evidence of Cryptic Species or Population Subdivision?
3:45 PM			331	John Denton*, John Maisey, Mark Grace, Michael Doosey, Alan Pradel, Henry Bart, Gavin Naylor, Paul Tafforeau Unusual Cranial Morphology of the Pocket Shark <i>Mollisquama</i> sp. (Squaliformes; Dalatiidae) Suggests Potentially Novel Feeding Mechanics
4:00 PM			667	Kristian Ramkissoo*, Tracey Sutton Species composition, abundance and vertical distribution of the numerically dominant meso-to-bathypelagic fish genus <i>Cyclothone</i> (Stomiiformes; Gonostomatidae) in the northern Gulf of Mexico
4:15 PM			11	Tim Berra*, Dion Wedd Salinity and spawning of nurseryfish, in the Adelaide River of northern Australia with notes on electrofishing and the only photo of a male carrying eggs
4:30 PM			711	James Beach* Supporting Biological Collections Informatics with Specify Software for the Long Run
4:45 PM				
5:00 PM				

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 16 JULY, Afternoon Sessions

	<i>Wedgewood</i>		<i>Trinity</i>	ROOM
	AMPHIBIAN CONSERVATION III		HERP SYSTEMATICS I	SESSION/ SYMPOSIUM
	Denita Weeks		Sara Ruane	MODERATOR
813	James Prather*, Shawn McCracken, Michael Forstner Increasing Habitat Connectivity of the Endangered Houston Toad (<i>Bufo houstonensis</i>) in the Lost Pines Ecological Area	402	David Cannatella* Fossils and the Deep-Time Dimension of Frog Evolution	1:30 PM
811	Anjana Parandhaman*, Madeleine J. Marsh, Michael R. J. Forstner Testing the Effectiveness of Captive Propagation as a Management Strategy for the Endangered Houston Toad (<i>Bufo [=Anaxyrus] houstonensis</i>)	405	Luis M. P. Ceriaco*, Mariana P. Marques, Ishan Agarwal, Suzana Bandeira, Matthew P. Heinicke, David C. Blackburn, Aaron M. Bauer Southwestern African Poyntonophrynus: Mmorphological and Molecular Analyses Reveal Hidden Diversity in Southwestern Angola	1:45 PM
817	Madeleine Marsh*, Shashwat Sirsi, Michael Forstner Evaluating the effects of Red Imported Fire Ants (<i>Solenopsis invicta</i>) on Juvenile Houston Toads (<i>Bufo</i> = [<i>Anaxyrus</i>] <i>houstonensis</i>) in a Coastal Prairie Grassland in Southeast Texas	847	Anthony Barley*, Adrián Nieto Montes de Oca, Robert Thomson Elucidating the evolutionary history of Mexico's most 'problematic' lizards	2:00 PM
833	Angela Burrow*, John Maerz The Contribution of Wetland Succession to Declines of Threatened Amphibians in the Longleaf Pine Ecosystem	245	Aaron M. Bauer*, Ian G. Brennan, Ishan Agarwal, Luis M.P. Ceriaco, Matthew P. Heinicke, David C. Blackburn Unexpected Diversity in Southern Angolan Lineages of the <i>Pachydactylus</i> Group (Squamata: Gekkonidae)	2:15 PM
141	Sean Graham*, Donald Walker, Crystal Kelehear Conservation Status of Dwarf Salamanders (<i>Eurycea quadridigitata</i> complex) in Georgia	736	Alexandre Ascenso*, Ana Lúcia Prudente, Fernando Rojas-Runjaic Morphological and molecular phylogeny of the <i>Erythrolamprus reginae</i> group	2:30 PM
603	Emily McCallen*, Bart Kraus, Nick Burgmeier, Songlin Fei, Rod Williams Movement and Habitat Use in Eastern Hellbenders (<i>Cryptobranchus alleganiensis alleganiensis</i>) Following Population Augmentation	64	Sara Ruane*, Christopher Austin Museum Specimens in the Age of Phylogenomics	2:45 PM
BREAK - Plaza Foyer				3:00 PM
	AMPHIBIAN CONSERVATION IV		HERP SYSTEMATICS II/ HERP BIOGEOGRAPHY & PHYLOGEOGRAPHY II	SESSION/ SYMPOSIUM
	Nancy Karraker		Daniel Cueva	MODERATOR
773	Jillian S. Howard*, Kira D. McEntire, John C. Maerz Generating robust estimates of salamander vital rates to model population responses to climate change	337	Matthew Heinicke*, James Titus-McQuillan, Edward Stanley, Aaron Bauer Evolutionary Insights from the Phylogeny of Southern African Shovel-nosed Snakes (<i>Prosymna</i>)	3:30 PM
718	William Sutton*, Michael Osborne, Jeff Bailey, Thomas Pauley Impacts of Stream Disturbances on an Appalachian Stream Salamander Assemblage	224	Justin Bernstein*, Aaron Bauer, Hinrich Kaiser, Sven Mecke Complex and Cryptic: A multilocus phylogeny of Asian Pipe Snakes (<i>Serpentes: Cyndrophis</i>) and the taxonomy of <i>Cyldrophis ruffus</i>	3:45 PM
688	William J Barichivich*, Jonathan Chandler, Katherine M O'Donnell, Terry Peacock, Joe Reinman, Susan C Walls Status of the Frosted Flatwoods Salamander, <i>Ambystoma cingulatum</i> , at St Marks National Wildlife Refuge, FL	129	Christopher Raxworthy*, Sara Ruane, Richard Pearson, Frank Burbrink Evolutionary Radiation of the Pseudoxyrhopiine Snakes in Madagascar	4:00 PM
631	Nathan Bendik*, Laurie Dries Time Series Analysis of Barton Springs Salamander Counts	594	E. Anne Chambers, Harry W. Greene, David M. Hillis* Species Delimitation in Geographically Variable Taxa: A Re-examination of the American Milksnakes (<i>Lampropeltis triangulum</i> complex)	4:15 PM
49	Donelle Robinson* Stream Habitat Recreation for the Barton Springs Salamander	16	Daniel Cueva*, Jesus Rivas, Sarah Corey-Rivas Assessing the Species Status & Distribution of <i>Eunectes beniensis</i> Utilizing a Molecular Comparative Approach	4:30 PM
134	Jason Ross*, Christina Feng, Michael Dreslik Evaluating Reptile and Amphibian Passage Gates using Remote Camera Traps	180	Samuel Sweet* Drought and Terrestrial Plethodontids: Rediscovery of <i>Batrachoseps minor</i>	4:45 PM
				5:00 PM

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ROOM		Salon/Ballroom A		San Antonio
SESSION/ SYMPOSIUM		FISH CONSERVATION I		AES BEHAVIOR
MODERATOR		Stuart Welsh		Tristan Guttridge
1:30 PM	249	Shawna Mitchell*, Bernard Kuhajda, Matt Kulp, Dave Kazyak, Jason Henegar, Tim King, Anna George Assortative mating in a headwater Appalachian stream: a case study from the Great Smoky Mountains National Park	814	Jeremy Vaudo*, Heidi Dewar, Michael Byrne, Bradley Wetherbee, Mahmood Shivji Coupling of horizontal and vertical movements of shortfin mako sharks (<i>Isurus oxyrinchus</i>) in the eastern North Pacific Ocean
1:45 PM	590	Andrew Stites*, Joshua Sherwood, Jeremy Tiemann, Michael Dreslik Assessing the Distribution of Iowa Darters (<i>Etheostoma exile</i>) in Streams of Northern Illinois	815	Tristan Guttridge*, Samuel Gruber, David Jacoby Validating Animal Social Structure Inference Methods: Acoustic Tracking vs. Direct Observations of Lemon Sharks, <i>Negaprion brevirostris</i>
2:00 PM	125	Rebecca E. Blanton*, Mollie F. Cashner Conservation Genetics of the Kentucky Arrow Darter, <i>Etheostoma spilotum</i> (Percidae)	197	Stephen Kajiura*, Jordan Waldron Seasonal Abundance and Spatial Distribution of Blacktip Sharks (<i>Carcharhinus limbatus</i>) in Southeast Florida
2:15 PM	682	Scott Clark, Jake Schaefer*, Brian Kreiser Persistence and stability of Pearl Darter (<i>Percina aurora</i>) populations	675	Michael McCallister*, Manuela Sales, Andrew Smith, John Mandelman, Andy Danylchuck, Matthew Ajemian Field Observations of Mating Behavior in Two Species of <i>Myliobatid</i> Stingrays
2:30 PM	83	Justine Whitaker*, Amy Brower, Margaret Hunter, Alexis Janosik Retracing the phylogeographic structure of the lionfish (<i>Pterois volitans</i> and <i>P. miles</i>) invasion: a two marker approach that elucidates hidden diversity	311	Mark Grace*, Daniel Huber, Kevin Travis, Michael Dosey, Jonathan Ford, Summer Decker, John Denton Physically Simulating <i>Dalatiid</i> Shark Bites
2:45 PM	907	Ángel L. Martínez-González*, Fredys F. Segura-Guevara, Glenys Tordecilla-Petro, Charles W. Olaya-Nieto Length–Weight Relationship of <i>Mayupa sternopygus macrurus</i> in the Low Sinu River, Colombia	198	Ruth Hughes*, Kristen Pedersen, Steve Huskey The Kinematics of Envenomation by the Yellow Stingray, <i>Urobatis jamaicensis</i>
3:00 PM		BREAK - Plaza Foyer		
SESSION/ SYMPOSIUM		FISH CONSERVATION II		AES MORPHOLOGY
MODERATOR		Grantly Galland		Matt Kolmann
3:30 PM	283	Caroline Arantes*, Kirk Winemiller Relationship between Forest Cover and Fish Diversity in the Amazon River	475	Benjamin Hughes*, Tilo Burghardt, Michael Scholl Large-scale Automated Photo-identification of Individual Great White Sharks
3:45 PM	175	Grantly Galland*, Shana Miller Harvest Strategies - the Next Phase of Fisheries Management for Tuna and Beyond	598	Stephanie Crofts*, Brooke Flammang Flexibility and Morphology of Shark Tails
4:00 PM	465	Bridgette Froeschke*, John Froeschke Does Size Matter?	420	Matthew Kolmann*, Fernando Marques, Mason Dean, James Weaver, Nathan Lovejoy An adaptive ray-diation? Feeding and dietary diversification in freshwater stingrays
4:15 PM	42	Leslie Jones*, Bridgette Froeschke, Brian Garman Factors influencing the population of Sheepshead, <i>Archosargus probatocephalus</i> , in Tampa Bay	916	Laurent Duchatelet*, Nicolas Pinte, Taketeru Tomita, Jérôme Mallefet Species-specific dorsal luminous pattern in Etmopterids with an emphasis on the dorsal spine associated photophores
4:30 PM	165	Mark Peterson*, Todd Slack, Erik Lang <i>Fundulus jenkinsi</i> (Evermann 1892) (Saltmarsh Topminnow) in Coastal Mississippi Watersheds, with Comments on Range-Wide Occurrences Based on Non-Vouchered and Museum	115	Flavia Petean*, Marcelo de Carvalho Taxonomic Review and Comparative Morphology of the Species of the Genus <i>Isistius</i> Gill, 1864 (Chondrichthyes: Squaliformes: <i>Dalatiidae</i>)
4:45 PM		#N/A #N/A		
5:00 PM				

* denotes presenter

2017 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin, TX

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 16 JULY, Afternoon Sessions

	<i>Pecos</i>		<i>San Marcos</i>	ROOM
	LFC PHYSIOLOGICAL PERFORMANCE IV		SNAKE BIOLOGY I	SESSION/ SYMPOSIUM
	Warren Burggren		Jeffrey Streicher	MODERATOR
419	Prescilla Perrichon*	912	Eric Januszkiewicz*, Nicole Chinicci Optimization of a Multiplex PCR Analysis for Crotalus horridus	1:30 PM
	Behavioral Tools for Assessing Neurophysiological Performances in Fish Early Life Stages	734	Jeffrey Streicher*, John Wiens Phylogenomic Analysis of More than 4000 Nuclear Loci Resolves a Difficult Branch of Squamate Reptile Phylogeny	1:45 PM
		648	Michael Dreslik*, Christopher Petersen, Scott Goetz, John Kleopfer, Alan Savitzky Factors affecting the movements of Timber Rattlesnakes (Crotalus horridus) from the Mid-Atlantic Coastal Plain	2:00 PM
		Discussion: Physiology	892	Matt Charnock* A Window into the Limbless Giants of Papua Island (New Guinea)
	529		Cara Smith*, Stephen Mackessy The Effects of Hybridization on Divergent Venom Phenotypes: Characterization of Venom from Crotalus scutulatus scutulatus x C. oreganus helleri Hybrids	2:30 PM
		412	Jacob Scribner, Matthew Kwiatkowski* Facial Stripes Influence Attack Frequency on Snake Models	2:45 PM
BREAK - Plaza Foyer				3:00 PM
			SNAKE BIOLOGY II/ SNAKE GENOMICS	SESSION/ SYMPOSIUM
			Bob Brodman	MODERATOR
		117	Kyle O'Connell*, Eric Smith, Matthew Fujita Species delimitation of North American whipsnakes and the effects of missing SNP data on phylogenetic analyses	3:30 PM
		286	Bob Brodman* Comparison of Mark-Recapture Methods for Snakes	3:45 PM
		323	Dalton Neuharth*, Connor Adams, Shelby Frizzell, Wade Ryberg, Toby Hibbitts, Josh Pierce, Craig Rudolph, Timothy Johnson A Novel Method of Snake Detection Using Time-lapse Triggered Camera Traps	4:00 PM
		705	Bradley T. Martin*, Marlis R. Douglas, Andrew T. Holycross, Stephen P. Mackessy, Michael E. Douglas Population Genomics of the Western and Desert Massasaugas (Sistrurus catenatus tergeminus and S. c. edwardsii)	4:15 PM
				4:30 PM
				4:45 PM
				5:00 PM

* denotes presenter