

Oral Presentations - Thursday, 16 July - Afternoon

ROOM		<i>Carson 1</i>		<i>Carson 2</i>
SESSION/ SYMPOSIUM		HL GRADUATE RESEARCH AWARD		AES CONSERVATION & MANAGEMENT/ AES ICHTHYOLOGY
MODERATOR		DAVID GREEN		NICHOLAS DULVY
1:30 PM			469	Heather Brekke, <u>Nicholas Dulvy</u>
				Does it matter how many sharks are killed each year?
1:45 PM	536	<u>Jacquelyn C. Guzy</u> , Kelly M. Halloran, Jessica A. Homyack, John D. Willson	529	<u>Rachel H L Walls</u> , Nicholas K Dulvy
		Contributions of Streamside Management Zones to Conservation of Herpetofauna in Intensively Managed Forests in the Ouachita Mountains, USA		A tale of two seas: the contrasting status of Europe's elasmobranchs
2:00 PM	567	<u>Spencer Siddons</u> , Jacob Kerby	554	<u>Lindsay Davidson</u> , Nicholas Dulvy
		Effects of Batrachochytrium dendrobatidis and an Herbicide on Larval Woodhouse's Toads (<i>Anaxyrus woodhousii</i>).		Conservation Priorities and Political Responsibilities for Chondrichthyans
2:15 PM	551	<u>Kenzie Bozeman</u>	487	<u>Sonja Fordham</u>
		Dermal Gland Histology of <i>Amphiuma tridactylum</i> & Bioactivity of Skin Secretions against the Amphibian Chytrid Fungus, <i>Batrachochytrium dendrobatidis</i>		Spotlight on the Small and Flat: Conservation status updates for select U.S. Atlantic dogfish, skates, and rays
2:30 PM	137	<u>Julie Ziemba</u> , Carl Anthony, Cari-Ann Hickerson	539	<u>Dewayne Fox</u> , Bradley Wetherbee, Symone Johnson, James Kilfoil
		Invasive Asian earthworms (<i>Amyntas</i> spp.) negatively affect juvenile abundance, alter microhabitat use, and reduce foraging efficiency of woodland salamanders (<i>Plethodon cinereus</i>)		Development of a multifaceted conservation plan for Sand Tigers (<i>Carcharias taurus</i>) in the Delaware Bay and nearshore coastal waters
2:45 PM	233	<u>Luke Groff</u> , Cynthia Loftin, Aram Calhoun	71	<u>Simon Dedman</u> , Rick Officer, Deirdre Brophy, Maurice Clarke, David Reid
		Local- and Landscape-scale Predictors of Breeding Site Occupancy by Pool-breeding Amphibians in Wetland-limited, Montane Landscapes		Modelling abundance hotspots for data-poor Irish Sea rays
3:00 PM		BREAK - Tahoe Room & Reno Ballroom		
SESSION/ SYMPOSIUM		HL GRADUATE RESEARCH AWARD		AES CONSERVATION & MANAGEMENT/ AES ICHTHYOLOGY
MODERATOR		JIM SPOTILA		BRADLEY WETHERBEE
3:30 PM	502	<u>Michelle Gordon</u> , CR Tracy	392	<u>Matthew Ajemian</u> , Philip Jose, John Froeschke, Gregory Stunz
		Morphological insights into the relationships among isolated populations of <i>Anaxyrus boreas</i> in Northern and Central Nevada		Trends and Characterization of the Land-based Recreational Shark Fishery off Texas
3:45 PM	373	<u>Julia Ersan</u> , Brian Halstead, Erica Wildy, Michael Casazza, Glenn Wylie	575	<u>Bradley Wetherbee</u> , Michael Byrne, Jeremy Vaudo, Guy Harvey, Mahmood Shivji
		Diet and Prey Preference of Neonate Giant Gartersnakes (<i>Thamnophis gigas</i>) from the Sacramento Valley of California		Orientation of mako sharks (<i>Isurus oxyrinchus</i>) to environmental conditions in the open ocean
4:00 PM	320	<u>Jonathan Rose</u> , Brian Todd	121	<u>Allen Andrews</u> , Michelle Passerotti, Lisa Kerr, Lisa Natanson, Sabine Wintner
		Designing effective eradication strategies for non-native water-snakes (<i>Nerodia</i>) in California using Integral Projection Models		Maximum age and missing time in shark vertebrae: the limits and validity of age estimates using bomb radiocarbon dating
4:15 PM	543	<u>Jade Keehn</u> , Chris Feldman	445	<u>Mark Grace</u> , Michael Doosey, Henry Bart, Gavin Naylor
		SWPARC Demography and Predation Ecology of Lizards at Wind Energy Farms		First record of a pocket shark (<i>Mollisquama</i> sp.) from the Gulf of Mexico.
4:30 PM	495	<u>Brian Lavin</u>	313	<u>Victoria Elena Vásquez</u> , David A. Ebert, Douglas J. Long
		Breaking the Glass: Phylogeny, Divergence, and Cryptic Diversity in Glass Lizards (Anguinae)		A New Lanternshark (Squaliformes: Etmopteridae: <i>Etmopterus</i>) from the eastern Central Pacific Ocean
4:45 PM	180	<u>Rachel Welt</u> , Christopher Raxworthy		
		The cryptic diversity of Madagascar's ground gecko (Genus: <i>Paroedura</i>)		
5:00 PM				

Oral Presentations - Thursday, 16 July - Afternoon

	<i>Carson 3</i>		<i>Carson 4</i>	ROOM
	ASIH STOYE GENERAL ICHTHYOLOGY		ASIH STOYE CONSERVATION	SESSION/ SYMPOSIUM
	MIKE COLLYER		ROY AVERILL-MURRAY	MODERATOR
53	<u>Sarah Gibson</u>	207	<u>Sean P. Boyle</u> , <u>Jacqueline D. Litzgus</u> , <u>Chad Chordes</u> , <u>Corina Brdar</u> , <u>David Lesbarrères</u>	1:30 PM
	Multidentaculate Teeth in the Lower Actinopterygian Fish † <i>Hemicalypterus</i> : Evidence for a Specialized Feeding Niche in the Late Triassic		You Want Me to Put That Where?!? Evaluating Methods of Identifying Road Mortality Hotspots	
113	<u>Caio Isola do Amaral Dallevo-Gomes</u> , <u>George Mendes Taliaferro Mattox</u> , <u>Mônica Toledo-Piza</u>	52	<u>Drew Dittmer</u> , <u>Joseph Bidwell</u>	1:45 PM
	Osteology of the Freshwater Pipefish <i>Pseudophallus mindii</i> (Meek & Hildebrand): Setting the Path for Future Systematic Studies within Syngnathids (Teleostei: Syngnathiformes)		Baffled by buffel grass (<i>Cenchrus ciliaris</i>); the negligible effect of an invasive grass on reptile community structure and diversity at an Australian world heritage site.	
510	<u>Benjamin Frable</u> , <u>Brian Sidlauskas</u>	326	<u>Dan A. Greenberg</u> , <u>Wendy J. Palen</u> , <u>Arne Ø. Mooers</u>	2:00 PM
	Differential gill arch evolution and ancient divergences in the Neotropical superfamily Anostomoidea (Ostariophysi:Characiformes)		Predicting Disease-Induced Extinctions in Amphibians based on Host Traits and Evolutionary History.	
453	<u>Joel Corush</u>	197	<u>Luke Linhoff</u> , <u>Maureen Donnelly</u>	2:15 PM
	The evolutionary significance of a biphasic lifestyle: a case study assessing diadromy in ray-finned fishes.		A Toad that has Never Seen Dirt: Increasing Success Rates for Reintroductions of Captive Bred Wyoming Toads (<i>Anaxyrus baxteri</i>)	
468	<u>Kimberly Foster</u> , <u>Kyle R. Piller</u>	130	<u>Rochelle Stiles</u> , <u>Vanessa Kinney Terrell</u> , <u>Michael Lannoo</u>	2:30 PM
	Body shape diversification within the Goodeidae (Teleostomi)		Survivorship Estimates Across Life History Stages Suggest a 1000-m Upland Buffer is Key to Keeping Crawfish Frogs from Being Federally Petitioned	
499	<u>Elyse Parker</u> , <u>Thomas J. Near</u>	421	<u>Jeffrey Corneil</u> , <u>Chad Montgomery</u> , <u>Victor Hugo Reynoso</u>	2:45 PM
	Molecular phylogenetics and morphometrics support a dramatic reduction of recognized species diversity in <i>Pogonophryne</i> (Notothenioidi: Artedidraconidae)		Conservation Assessment of the Critically Endangered Oaxacan Spiny-Tailed Iguana (<i>Ctenosaura oaxacana</i>)	
BREAK - Tahoe Room & Reno Ballroom				3:00 PM
	ASIH STOYE GENERAL ICHTHYOLOGY		ASIH STOYE CONSERVATION	SESSION/ SYMPOSIUM
	HANK BART		ERIC HILTON	MODERATOR
457	<u>Diego Elias</u> , <u>David Camak</u> , <u>Caleb McMahan</u> , <u>Kyle Piller</u>	407	<u>Eric McCluskey</u> , <u>Thomas Hetherington</u>	3:30 PM
	Comparative phylogeography within the Grijalva-Usumacinta Area of Endemism		Role of Historical Land Use in the Distribution of Eastern Massasauga Rattlesnake Habitat in Northeastern Ohio	
361	<u>Daniel MacGuigan</u> , <u>Thomas J. Near</u>	210	<u>Michael Colley</u> , <u>Stephen Loughheed</u> , <u>Kenton Otterbein</u> , <u>Jacqueline Litzgus</u>	3:45 PM
	Molecular and Morphological Species Delimitation in the Greenhoart Darter, <i>Etheostoma lepidum</i>		PVA Reveals Importance of Road Mortality Mitigation for Preventing Extirpation of a Massasauga Population in a Protected Area	
531	<u>Raymond Simpson</u> , <u>Thomas Near</u> , <u>Steven Rider</u>	479	<u>Erica Rottmann</u> , <u>Kyle Piller</u>	4:00 PM
	A taxonomic and systematic analysis of the Walleye, <i>Sander vitreus</i> (Percidae: Luciopercinae)		Expanding detection capabilities of fishes in Louisiana: An integrative eDNA approach	
231	<u>William Ludt</u> , <u>Christopher Burrige</u> , <u>Prosanta Chakrabarty</u>	544	<u>Cameron R. Turner</u>	4:15 PM
	What, if anything, is a morwong? A genomic investigation of Cheilodactylidae using Ultraconserved Elements (UCEs)		It's Contamination! Reducing Uncertainty in Environmental DNA Monitoring of Fishes and Amphibians.	
281	<u>James Shelley</u> , <u>Stephen Swearer</u> , <u>Tim Dempster</u> , <u>Peter Unmack</u> , <u>Martin Gomon</u>	601	<u>Brenton Spies</u> , <u>David Jacobs</u>	4:30 PM
	The Kimberley Ark: Assessing and Conserving Freshwater Fish Biodiversity in Australia's Last Pristine River Systems		Status, Habitat Impacts, and Management of the Tidewater Goby (<i>Eucyclogobius newberryi</i>): A Federally Endangered California Coastal Endemic	
129	<u>Randy Singer</u>	124	<u>Zachary Wolf</u> , <u>Rebecca Blanton</u>	4:45 PM
	Telepresence as an important but underutilized tool for the modern biologist.		Conservation status and phylogeography of the Tennessee-endemic Egg-mimic Darter (<i>Etheostoma pseudovulatum</i>)	
				5:00 PM

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ROOM		<i>Crystal 1 & 2</i>		<i>Crystal 3 & 4</i>
SESSION/ SYMPOSIUM		ASIH STOYE GENERAL HERPETOLOGY I		ASIH STOYE ECOLOGY & ETHOLOGY I
MODERATOR		BRIAN HALSTEAD		SARA RUANE
1:30 PM	119	<u>Andrew Gotscho</u>	58	<u>Dale Jefferson</u> , Keith Hobson, Brandon Demuth, Maud Ferrari, Douglas Chivers
		Species Delimitation of Fringe-toed Lizards (Squamata: Phrynosomatidae: <i>Uma notata</i> complex) in the Colorado Desert		Competitive Eaters: Cannibalism as a Response to Perceived Competition among Larval Wood Frog (<i>Lithobates sylvaticus</i>) and the Conditional Benefits of Conspecifics as a Diet.
1:45 PM	516	<u>Phillip Skipwith</u> , Paul Oliver	461	<u>Katharine T. Yagi</u> , David M. Green
		Morphological Convergence in Diplodactyloid Geckos		Strategies of Dispersal in Pond Breeding Amphibians
2:00 PM	521	<u>Matthew McElroy</u> , Adrián Nieto Montes de Oca, Adam Leaché	154	<u>Breanna Putman</u> , Rulon Clark
		Comparison of Time-Calibrated Phylogenies Reveals Historical Admixture in <i>Sceloporus</i>		The fear of hidden predators: ground squirrels honestly signal vigilance toward undetected rattlesnakes
2:15 PM	62	<u>Sean Reilly</u> , Jimmy McGuire	364	<u>Brenna A. Levine</u> , Charles F. Smith, Gordon W. Schuett, Marlis R. Douglas, Mark A. Davis, Michael E. Douglas
		Biogeographical history of flying lizards (Genus: <i>Draco</i>) from the Lesser Sunda Islands, Indonesia		Reproductive Success and Sexual Selection in a North American Pitviper
2:30 PM	346	<u>Lilly Eluvathingal</u> , Maureen Donnelly	375	<u>Dan Crear</u> , Chris Lowe, Jeff Seminoff, Dan Lawson, Tomo Eguchi, Robin LeRoux
		A Global Analysis of Factors Driving Amphibian Diversity in Plantations		Comparing diel differences in habitat use of east Pacific green sea turtles, <i>Chelonia mydas</i> , between an urbanized river and estuary environment
2:45 PM	482	<u>Kristin Charles</u> , Daniel Portik, Rayna Bell	437	<u>Matthew G. Keevil</u> , Brittainy Hewitt, Ronald J. Brooks, Jacqueline D. Litzgus
		Investigating the Role of Riverine Barriers on Phylogeographic Structure of <i>Arixalus paradorsalis</i> (Anura: Hyperoliidae)		You Should See The Other Guy: Sex and Body Size Effects on Injuries from Intraspecific Aggression in Snapping Turtles
3:00 PM		BREAK - Tahoe Room & Reno Ballroom		
SESSION/ SYMPOSIUM		ASIH STOYE GENERAL HERPETOLOGY I		ASIH STOYE ECOLOGY & ETHOLOGY I
MODERATOR		MAUREEN DONNELLY		FRANZISKA SANDMEIER
3:30 PM	494	<u>Sarah M. Hykin</u> , Ke Bi, Jimmy A. McGuire	513	<u>Nassima Bouzid</u> , Adam Leaché, Lauren Buckley
		Fixing-formalin: A method to recover DNA sequence data from formalin-fixed museum specimens using High-Throughput Sequencing		Consequences of Geographic Variation in Lizard Body Size for Climate-Driven Range Shifts
3:45 PM	182	<u>River Grace</u> , Michael Grace	426	<u>Chad Sundol</u> , Janis Bush, Cathryn Greenberg, Christopher Moorman, Jerry Jacka
		Evolution of Nervous System Function and Behavior in a Micro-Vertebrate, the Brahminy Blindsnake (Ramphotyphlops brahminus)		Comparison of Herpetofaunal Communities in Areas Disturbed by Oak Regeneration Silvicultural Treatments
4:00 PM	374	<u>Edward Myers</u> , Frank Burbrink	271	<u>Evan Eskew</u> , Michael Miller, Janet Foley, Brian Todd
		Comparative Phylogeography of Snakes Across North America's Warm Deserts		Both sides of the coin: host and pathogen influence chytridiomycosis disease outcome
4:15 PM	488	<u>Helen Plylar</u> , Clifford Fontenot	565	<u>Melissa Miller</u> , John Kinsella, Ray Snow, Bryan Falk, Robert Reed, Scott Goetz, Craig Guyer, Christina Romagosa
		Shining a Light On Snake Eyes: A Photorefractive Study of Visual Accommodation In Colubrid Snakes		Are Invasive Burmese Pythons Impacting Native Snakes through Parasite Spillover?
4:30 PM	289	<u>Griffin Capehart</u> , Emily Taylor	292	<u>Parker House</u> , Larry Allen
		No drought about it: How does hydration affect rattlesnake physiology and behavior?		The Return of the King: Giant Sea Bass (<i>Stereolepis gigas</i>) Reproductive Population Assessment off Santa Catalina Island, CA.
4:45 PM			116	<u>Stephanie Benseman</u> , Larry Allen
				Distribution, Growth Estimates, and Ecology of Young-of-the-Year of Giant Sea Bass, <i>Stereolepis gigas</i> , off Southern California
5:00 PM				

Oral Presentations - Friday, 17 July - Morning

	<i>Carson 1</i>		<i>Carson 2</i>	ROOM
	HL GRADUATE RESEARCH AWARD		AES REPRODUCTION & GENETICS	SESSION/ SYMPOSIUM
	JOHN HERMAN		DAVID PORTNOY	MODERATOR
501	<u>Rachel Rhymer</u> , Jeanne Robertson, Gilberto Flores, Robert Espinoza	184	<u>Keiichi Sato</u> , Masaru Nakamura, Taketeru Tomita	8:00 AM
	Testing the benefits of maternal care in a viviparous lizard		Nourishment of White Shark Embryos with Uterine Milk during the Early Gestation Period	
87	<u>Kristoffer H. Wild</u> , C.M. Gienger	328	<u>Melissa Gonzalez De Acevedo</u> , <u>Jim Gelsleichter</u>	8:15 AM
	Fire-altered Landscapes Influence Locomotor Performance of Eastern Fence Lizards		Hormone Regulation of Sperm Storage in Female Bonnethead Sharks (<i>Sphyrna tiburo</i>)	
496	<u>Danielle Wasserman</u>	394	<u>Brenda Anderson</u> , Carolyn Belcher, JoAnn Slack, James Gelsleichter	8:30 AM
	Examining Variation of the Hyoid Apparatus in Varanid Lizards		The Use of Ultrasonic Imaging to Detect Reproductive Activity in Female Bonnetheads (<i>Sphyrna tiburo</i>)	
318	<u>David Penning</u> , Baxter Sawvel, Brad Moon	85	<u>Hayley DeHart</u> , Gavin Naylor, Bryan Frazier	8:45 AM
	Is There Always a Need for Speed? How Fast Can Ratsnakes (<i>Pantherophis obsoletus</i>) Strike?		Comparing Demographic and Genetic Estimates of Population Sizes in Three Coastal Shark Species	
148	<u>Rory Telemeco</u> , Eric Gangloff, Gerardo Cordero, Timothy Mitchell, et al	203	<u>Drew Duckett</u> , Gavin Naylor	9:00 AM
	Thermal taxis by turtle embryos: Behavioral thermoregulation or play?		Maximizing Statistical Power in Shark Population Structure Analyses	
140	<u>Jonathan Clinger</u> , C.M. Gienger	273	<u>David Portnoy</u> , Jonathan Puritz, Christopher Hollenbeck, John Gold	9:15 AM
	Metabolic Cost of Reproduction in Female Eastern Box Turtles (<i>Terrapene carolina</i>)		Adaptive genetic variation and male-mediated gene flow in the bonnethead	
BREAK - Tahoe Room & Reno Ballroom				9:30 AM
	HL GRADUATE RESEARCH AWARD		AES BIOGEOGRAPHY/ AES GRUBER	SESSION/ SYMPOSIUM
	JOHN HERMAN		TOBY DALY-ENGEL	MODERATOR
341	<u>Paul Converse</u> , Tim King, Shawn Kuchta, Willem Roosenburg	406	<u>Toby Daly-Engel</u> , Dean Grubbs, Rebecca Varney, Erin Pereira, Shawn Larson	10:00 AM
	Reduced Contemporary Gene Flow in Diamondback Terrapins, <i>Malaclemys terrapin</i> .		Strange Things Happen When You Turn Back the Molecular Clock: Evolution and Speciation in Sixgill Sharks (Genus <i>Hexanchus</i>)	
16	<u>Caroline Dong</u> , Tag Engstrom, Robert Thomson	466	Gruber - <u>Kristin A. Walovich</u> , David A. Ebert	10:15 AM
	Origins of Softshell Turtles in Hawaii with Considerations for Conservation		A revision of the short-nose chimaeras (genus <i>Hydrolagus</i>) from Southern Africa: Conservation and management implications of an enigmatic fish group	
		561	Gruber - <u>Paul J. Clerkin</u> , Jenny M. Kemper, David A. Ebert	10:30 AM
			Investigation and Taxonomy of Southwestern Indian Ocean Chimaeridae	
		291	Gruber - <u>Matthew Jew</u> , David A. Ebert	10:45 AM
			Redescription of the Bigeye Chimaera, <i>Hydrolagus macrophthalmus</i> , de Buen, 1959, (Chimaeriformes: Chimaeridae), with comments on the family Chimaeridae from the Southeastern Pacific Ocean	
		609	Gruber - <u>James Anderson</u> , Kim Holland	11:00 AM
			Holy Grail, Needle in A Haystack, or Wild-Goose Chase: Searching For A Shark Magnetoreceptor	
		179	Gruber - <u>Kyle Newton</u>	11:15 AM
			The yellow stingray, <i>Urobatis jamaicensis</i> , has a magnetic sense but can it use the geomagnetic field to derive a sense of location	
		261	Gruber - <u>Mariah O. Pflieger</u> , R. Dean Grubbs, Toby S. Daly-Engel	11:30 AM
			The Dogfish Formerly Known as Mitsukurii: a New Deep-water Shark Species from the Gulf of Mexico	
		606	Gruber - <u>Joseph Bizzarro</u> , Simon Brown, Heather Robinson, David Ebert, Adam Summers	11:45 AM
			How Can There Be So Many Skate Species?	
LUNCH ON YOUR OWN				12:00 PM

Oral Presentations - Friday, 17 July - Morning

ROOM		<i>Carson 3</i>		<i>Carson 4</i>
SESSION/ SYMPOSIUM		ASIH STOYE PHYSIOLOGY & PHYSIOLOGICAL ECOLOGY		ASIH STOYE ECOLOGY & ETHOLOGY II
MODERATOR		JAMES VAN DYKE		JAMES WATLING
8:00 AM			61	<u>Brian Clark</u> , Larry Allen
				The Reproductive Behavior Of Giant Sea Bass, <i>Stereolepis Gigas</i>
8:15 AM	574	<u>Scott Goetz</u> , Mary Mendonça, Elizabeth Hiltbold, Christina Romagosa, Craig Guyer	424	<u>Emily Miller</u> , Michael Thomas, Gabriel Singer, Matthew Peterson, Eric Chapman, Ryan Battleson, et al
		Assessing Immunocompetence in Anurans: an In Vitro assay Measuring Innate, Cell-Mediated, and Humoral Responses		The timing of green and white sturgeon movements and distribution in the San Francisco Bay, Delta, and Sacramento River
8:30 AM	464	<u>Whitney Walkowski</u> , Erica Rottman, John Tupy, Brian Crother, Kyle Piller	403	<u>Donnell Gasbarrini</u> , Edward Morris, Anna Sheppard
		Courting CORT: Glucocorticoid Concentrations in Calling and Non-Calling <i>Lithobates grylio</i>		An Investigation into the Cause of a Mass Mortality Event of Blanding's Turtles (<i>Emydoidea blandingii</i>) in Misery Bay Provincial Park, Ontario, Canada
8:45 AM	484	<u>Brianna Myre</u> , Roldan Valverde, Michael Bresette	390	<u>Thomas Radzio</u> , Michael O'Connor
		Ovarian Dynamics in Free-Ranging Loggerhead Sea Turtles		Behavior and Short-term Survival of Captive-reared Yearling Gopher Tortoises Following Hard Release
9:00 AM	232	<u>Kristin Kopperud</u> , Michael Grace	452	<u>Caleb Loughran</u> , Daniel Beck, Debbie Lewis, Megan Linn, Robert Weaver
		Circadian Rhythms of Retinal Sensitivity in the Atlantic Tarpon, <i>Megalops atlanticus</i>		Innate Recognition of Chemical Cues by Neonate Northern Pacific Rattlesnakes (<i>Crotalus oreganus oreganus</i>)
9:15 AM	517	<u>Matthew Dickson</u> , Sigfrido Zimmermann, Tanja Wolmeyer, Gillian Larson, Heather Liwanag, Robert Espinoza	51	<u>Michelle E. Thompson</u> , Maureen A. Donnelly
		Evolution in Your Hood: Rapid Continental Spread and Local Adaptation of a Successful Invasive Gecko		Amphibian and Reptile Diversity and Composition in Riparian and Upland Habitats in a Chronosequence of Secondary Forest
9:30 AM		BREAK - Tahoe Room & Reno Ballroom		
SESSION/ SYMPOSIUM		NEOTROPICAL ICHTHYOLOGICAL ASSOCIATION/ ASIH STOYE GENETICS, DEVELOPMENT, & MORPHOLOGY I		HERP PHYSIOLOGY & REPRODUCTION
MODERATOR		NORMA SALCEDO		CATHERINE BEVIER
10:00 AM	358	NIA - <u>Michael D. Burns</u>	533	<u>M. Rockwell Parker</u> , Jennifer Zachry, Saumya Patel, Michael S. Grace, Michael L. Avery
		Modularity and Body Shape Evolution in Characiformes		Possible sex pheromones in Burmese pythons: isolation, identification and behavioral testing
10:15 AM	99	NIA - <u>Mark Sabaj Pérez</u> , Daniel Fitzgerald, Leandro Sousa	395	Kiristin Budd, James Spotila, <u>Laurie Mauger</u>
		Where the Xingu bends: exploring Volta Grande by land, air and water.		Preliminary Mating Analysis of American Crocodiles, <i>Crocodylus acutus</i> , in Las Baulas, Santa Rosa, and Palo Verde National Parks, Guanacaste, Costa Rica
10:30 AM	572	NIA - <u>Norma Salcedo</u>	352	<u>Katherine Graham</u> , Cecilia Langhorne, Carrie Vance, Andrew Kouba, Scott Willard
		Finding the Holotype of <i>Chaetostoma marmorescens</i> (Siluriformes: Loricariidae)		Use of Exogenous Hormone Treatments to Induce Ovulation in the Critically Endangered Mississippi Gopher Frog (<i>Lithobates sevosus</i>)
10:45 AM	239	<u>Sarah Longo</u> , Matthew McGee, Christopher Oufiero, Peter Wainwright	38	<u>James Van Dyke</u> , Jessica Dudley, Oliver Griffith, Christopher Murphy, Michael Thompson
		Re-evaluating the Importance of the Ram-Suction Continuum in Diversification of Fish Feeding Behaviors		How to Make a Baby Skink: the Evolution of Placental Nutrient Transport
11:00 AM	136	<u>Ashley N. Marranzino</u> , Jacqueline F. Webb	552	<u>Catherine Bevier</u>
		Novel Observations of Neuromast Receptor Organ Distribution in Stomiiform Fishes		The effects of modulating the skin microbiome on skin secretion proteins in four frogs from Maine
11:15 AM	75	<u>Allison Bronson</u> , Melanie Stiassny	274	<u>Amanda Bennett</u> , Jessica Longhi, Leslie Kerr, Dennis Murray
		Olfactory anatomy of <i>Parauchenoglanis punctatus</i> , a claroteid catfish from the Congo Basin		Terror at the Old Pond: The Acute and Chronic Physiological Response of Anuran Larvae to Predation Risk
11:30 AM	262	<u>Edward Burress</u> , Milton Tan, Jonathan Armbruster	108	<u>Steve Beaupre</u>
		Craniofacial diversification across the cichlid fish adaptive radiation		Reanalysis of Long-Term Field Metabolic Rate data from Timber Rattlesnakes: Critical Factors and Implications.
11:45 AM	166	<u>Ryan Jorgensen</u> , Bruce Jayne		
		Three-dimensional Trajectories Affect the Axial Muscle Activity of Arboreal Snakes Bridging Gaps		
12:00 PM		LUNCH ON YOUR OWN		

Oral Presentations - Friday, 17 July - Morning

Crystal 1 & 2		Crystal 3 & 4		ROOM
ASIH STOYE GENERAL HERPETOLOGY II		NO SESSION		SESSION/ SYMPOSIUM
C. TRISTAN STAYTON				MODERATOR
				8:00 AM
				8:15 AM
				8:30 AM
				8:45 AM
532	<u>Leonard Jones</u> , Adam Leaché			9:00 AM
	The Patterns and Processes Underlying the Global Diversification of Viperids.			
316	<u>Nicole Karres</u> , Andrea Goodnight, Nicholas Geist			9:15 AM
	The Gastric Lavage Method, a safe and effective way to collect stomach contents from freshwater turtles in the field			
BREAK - Tahoe Room & Reno Ballroom				9:30 AM
HERP MORPHOLOGY & BIOGEOGRAPHY		GENERAL ICHTHYOLOGY I		SESSION/ SYMPOSIUM
DAVID SEVER		MICHAEL WESTPHAL		MODERATOR
506	<u>Jacqueline Chivers</u> , Craig Guyer	221	<u>Bruce Collette</u> , John Graves, Valerie Kells	10:00 AM
	Combining morphological and acoustic techniques to better understand the relationship between hybridizing toads: <i>Anaxyrus americanus</i> and <i>Anaxyrus fowleri</i>		Tunas and billfishes of the world	
251	<u>C. Tristan Stayton</u>	67	<u>Lacey Malarky</u> , Tracey Sutton	10:15 AM
	Patterns of Morphological and Mechanical Evolution in Terrestrial Turtle Shells		Faunal composition and distribution of pelagic larval flatfishes (Teleostei: Pleuronectiformes) in the northern Gulf of Mexico: connectivity between coastal and oceanic ecosystems	
236	<u>Mingna Zhuang</u> , Timothy E. Higham	74	<u>Bryan Frenette</u>	10:30 AM
	The modulation of foot position and adhesion during arboreal locomotion in day geckos (<i>Phelsuma</i>)		Aspects of Growth and Morphology of the Spotted Gar <i>Lepisosteus oculatus</i>	
13	<u>David Sever</u>	589	<u>Michael Westphal</u> , Michael Izumiya, Gary Longo, Karen Crow, Giacomo Bernardi, Ken Oda, Steve Morey	10:45 AM
	Ultrastructure of Male Courtship Glands of the Red-Backed Salamander, <i>Plethodon cinereus</i>		Life History of the Livebearing Calico Surfperch, <i>Amphistichus koelzi</i> (Teleostei: Embiotocidae)	
338	<u>Shawn Kuchta</u>	211	<u>João Pedro Silva</u> , Marcelo Carvalho	11:00 AM
	Ancient River Systems and Phylogeographic Structure in the Spring Salamander, <i>Gyrinophilus porphyriticus</i>		Brain morphology in the family Potamotrygonidae, with observations on the evolution of the brain in the order Myliobatiformes.	
607	<u>Robert Fisher</u> , Jone Niukula, Heidi Davis, Peter Harlow	480	<u>Alan Downey-Wall</u> , Derek Hogan, Jason Selwyn	11:15 AM
	Biogeography and Conservation Systematics of Pacific Iguanas (<i>Brachylophus</i> sp.)		Examination of Habitat Utilization Patterns and Source-Sink Dynamics in the Indo-Pacific Lionfish, <i>Pterois volitans</i> , for Insights into Habitat-Specific Targeted Removal.	
486	<u>Adam Leache</u> , James Archie, Nassima Bouzid, Jared Grummer, Roger Anderson			11:30 AM
	SNP-Based Phylogeography and Ecological Niche Modeling of Western Fence Lizards			
183	<u>Tereza Jezkova</u> , Jef Jaeger, Viktoria Olah-Hemmings, Bruce Jones, Rafael Lara-Resendiz, Daniel Mulcahy, Brett Riddle			11:45 AM
	Range and niche shifts in response to past climate change in the desert horned lizard (<i>Phrynosoma platyrhinos</i>)			
LUNCH ON YOUR OWN				12:00 PM

Oral Presentations - Friday, 17 July - Afternoon

ROOM		<i>Carson 1</i>		<i>Carson 2</i>
SESSION/ SYMPOSIUM		GENERAL HERPETOLOGY		AES GRUBER
MODERATOR		RYAN MCCLEARY		JIM GELSLEICHTER
1:30 PM	302	<u>Ryan McCleary</u> , Matthew Lim, R. Manjunatha Kini	135	<u>Brendan Talwar</u> , Edward Brooks, Alp Gokgoz, John Mandelman, Dean Grubbs
		Colorspace Modeling of the Whipsnakes (genus <i>Ahaetulla</i>): implications for Conspecific and Predator-Prey Interactions		Stress Physiology and Post-release Survivorship of Cuban Dogfish and Gulper Sharks Caught on Longlines
1:45 PM	483	<u>James Watling</u> , Nicole Koballa, Ian Reider	222	<u>Cassandra Ruck</u> , Fabio Hazin, Rima Jabado, Mahmood Shivji
		Using agar models to assess desiccation risk of amphibians among vegetation types in a fragmented tropical forest landscape		Global Genetic Connectivity in a Shark of High Conservation Concern, the Oceanic Whitetip, <i>Carcharhinus longimanus</i>
2:00 PM	288	<u>Rachel Anderson</u> , Sharon Lawler	306	<u>Charles Bangley</u> , Roger Rulifson
		Rapid Evolution of Adaptive Response to an Introduced Predator		Is Pamlico Sound, North Carolina a "new" nursery habitat for the bull shark (<i>Carcharhinus leucas</i>)?
2:15 PM	246	<u>Kristopher Karsten</u>	393	<u>Bryan Keller</u> , Jean-Sebastien Finger, Tristan Guttridge, Samuel Gruber
		Sexual Dimorphism in Morphology, Signaling, and Performance in Two Species of <i>Sceloporus</i> Lizards		Energetic Savings During Group Participation and the Influence of Swimming Speed on Partner Preference in the Juvenile Lemon Shark, <i>Negaprion brevirostris</i>
2:30 PM	27	<u>Daniela Dick</u>	330	<u>Connor White</u> , Yukun Lin, Jerry Hsiung, Christopher Clark, Christopher Lowe
		Patterns of Amphibian Community Organization in Central European Floodplains		Habitat Selection of the Leopard Shark, <i>Triakis semifasciata</i> , Using Fine Spatio-Temporal Movement and Temperature Data
2:45 PM	25	<u>Agnes Awharitoma</u> , Confidence Okoh, Augustus Ehiorobo, Omoyemwen Edo-Taiwo, Martins Aisien, Edema Imalele	42	<u>David Shiffman</u> , Catherine Macdonald, Harry Ganz, Neil Hammerschlag
		Parasitofauna of Reptiles from Southern Nigeria		Initial Assessment of the Scale, Practices and Conservation Implications of Land-Based Shark Fishing in South Florida
3:00 PM	21	<u>Omoyemwen Edo-Taiwo</u> , Martins Aisien	90	<u>Darcy Bradley</u> , Eric Conklin, Yannis P. Papastamatiou, Douglas J. McCauley, Kydd Pollock, et al
		Amphibians in Cocoa Plantations, southwestern Nigeria		Managing a moving target: a spatially explicit capture-recapture reef shark population density estimate at an unfished coral reef
3:15 PM			164	<u>Alexander Hansell</u> , Steve Kessel, Lauran Brewster, Steve Cadrin, Greg Skomal, Samuel Gruber, Tristan Guttridge
				Coastal Shark Assemblage, 11 – Year Fishery-Independent Shallow Water longline Survey in Bimini, Bahamas.
3:30 PM			122	<u>Emily Meese</u> , Christopher G. Lowe
				Finding a resting place: How environmental conditions affect the spatial distribution of benthic elasmobranchs at Big Fisherman's Cove, Santa Catalina Island
3:45 PM				
4:00 PM	POSTER SESSION I Tahoe Room & Reno Ballroom			
5:00 PM				
6:00 PM		HL Business Meeting 6-8 p.m.		

Oral Presentations - Friday, 17 July - Afternoon

	<i>Carson 3</i>		<i>Carson 4</i>	ROOM
	ASIH STOYE GENETICS, DEVELOPMENT, & MORPHOLOGY II		HERP BEHAVIOR	SESSION/ SYMPOSIUM
	TOM TURNER/MEGAN OSBORNE		RULON CLARK	MODERATOR
473	<u>Tyler Pilger</u>, Keith Gido, David Propst, James Whitney, Thomas Turner	583	Robert Weaver, <u>Will Clark</u>	1:30 PM
	Demography and Genetic Diversity are Correlated in a Desert River Fish Metacommunity		Intraguild competition between Ring-necked Snakes (<i>Diadophis punctatus</i>) and Desert Nightsnakes (<i>Hypsiglena chlorophaea</i>)	
460	<u>Max Bangs</u>	450	<u>Michael Grace</u>, Adam Safer	1:45 PM
	Phylogenomics and Introgression in the Evolutionary History of Catostomus		Neural Correlates of Complex Behavior: Brainstem Neuroanatomy Correlates with Pit Organ Arrangement Habitat Use in Infrared-Imaging Snakes.	
448	<u>Savannah Michaelsen</u>, Kyle Piller	69	<u>Jessie Tanner</u>, Jessica Ward, Mark Bee	2:00 PM
	Genetic structure and migration patterns of red drum (<i>Sciaenops ocellatus</i>) across the northern Gulf of Mexico		Multivariate selection on the advertisement call of <i>Hyla chrysoscelis</i> , Cope's gray treefrog	
380	<u>Rebecca Varney</u>, Dean Grubbs, Kevin Feldheim, Toby Daly-Engel	577	<u>James McLister</u>, Shane Conway, Sunny Boyd	2:15 PM
	A novel panel of microsatellite loci for the Gulf of Mexico hagfish <i>Eptatretus springeri</i>		Size-Depend Male Phonotaxis in Grey Treefrogs, <i>Hyla versicolor</i> , in Response to Stimuli of Different Intensities	
344	<u>Jason Selwyn</u>, David Portnoy, Daniel Heath, J. Derek Hogan	141	<u>Rulon Clark</u>	2:30 PM
	Kin aggregations explain a commonly observed genetic pattern in a marine fish species		Predator-Prey Interactions Between Desert Kangaroo Rats (<i>Dipodomys deserti</i>) and Sidewinder Rattlesnakes (<i>Crotalus cerastes</i>)	
272	<u>Kirill Vinnikov</u>, Kathleen Cole	147	Bruce Jayne, <u>Steven Newman</u>, Michele Zentkovich, Henry Berns	2:45 PM
	De Novo Transcriptome Sequencing and Genetic Marker Discovery for Goby Fishes (Teleostei: Gobiiformes)		Incline, Peg Height, Peg Shape and Body Shape Have Interactive Effects on the Arboreal Locomotion of Snakes	
237	<u>Gary Longo</u>, Giacomo Bernardi			3:00 PM
	Signals of Genomic Selection in Surfperches (Embiotocidae)			
278	<u>Danielle Drabeck</u>, Antony Dean, Sharon Jansa			3:15 PM
	Molecular and Functional Characterization of an Evolutionary Arms Race: Opossums and Pit Vipers			
600	<u>Evan McCartney-Melstad</u>, H. Bradley Shaffer, Peter L. Ralph, Gideon S. Bradburd, Jannet Vu, et al			3:30 PM
	Full-genome conservation genetics: Using genomic tools to evaluate the impacts of alternative energy development on the threatened Mojave desert tortoise (<i>Gopherus agassizii</i>)			
603	<u>Kevin M. Neal</u>, H. Bradley Shaffer			3:45 PM
	Nuclear-Mitochondrial Discordance of Distinct Phylogeographic Lineages within the Western Spadefoot Toad, <i>Spea hammondi</i>			
POSTER SESSION I Tahoe Room & Reno Ballroom				4:00 PM
				5:00 PM
NIA Meeting 6-7 p.m.				6:00 PM

Oral Presentations - Friday, 17 July - Afternoon

ROOM		<i>Crystal 1 & 2</i>		<i>Crystal 3 & 4</i>
SESSION/ SYMPOSIUM		LIGHTNING TALKS		GENERAL ICHTHYOLOGY II
MODERATOR		DAVID GREEN		PROSANTA CHAKRABARTY
1:30 PM		29 - <u>Dustin Siegel</u>, Brian Rabe Renal Corpuscles of the Red-spotted Newt (<i>Notophthalmus viridescens</i>)	91	<u>Thaddaeus Buser</u>, Michael Burns, J. Andres Lopez
		9 - Pamela Clarkson, <u>Christopher Beachy</u> Induction of Metamorphosis Causes Differences in Sex-specific Allocation Patterns in Axolotls (<i>Ambystoma mexicanum</i>) that have Different Growth Histories	245	<u>Peter Hundt</u>, Andrew Simons
1:45 PM				Evolution of trophic morphologies and diet in combtooth blennies (Blenniidae)
2:00 PM		591 - <u>Jared Fuller</u>, Richard Kazmaier, Rocky Ward Genetic Response of a Texas Horned Lizard (<i>Phrynosoma cornutum</i>) Population to a Catastrophic Wildfire in South Texas	247	<u>Josh Egan</u>, Andrew Simons
				Evolution of microphagy in anchovies
2:15 PM		586 - Jason L. Jones, <u>Sarra L. Jones</u> A Year in a Desert Hole	562	<u>Jennifer Hodge</u>, Francesco Santini, Peter Wainwright
				Causes and consequences of sexual dichromatism in labrid fishes
2:30 PM		570 - <u>Ron Oldfield</u> Alternative Male Mating Behavior in a Clade of Typically Monogamous Cichlid Fish Species	363	<u>Peter Wainwright</u>, Samantha Price, Sarah Friedman
				The Evolution of Spines Affects Body Shape Diversification in Teleosts
2:45 PM		474 - Nicholas Levis, Mitchell Schooler, Jarrett Johnson, <u>Michael Collyer</u> Non-adaptive Phenotypic Plasticity: Morphology, but not Swim Speed, of Spotted Salamander Larvae is Affected by "Terrestrial" and "Aquatic" Herbicides	126	<u>John Denton</u>, Dean Adams
				A New Phylogenetic Test for High-Dimensional Evolutionary Rate Differences among Body Regions Reveals Complex Interplay of Evolutionary Rates and Modularity in Lanternfish (Myctophiformes; Myctophidae) Photophore and Body Shape Evolution
3:00 PM		366 - <u>Noelikanto Ramamonjisoa</u>, Harisoa Rakotoeloely, <u>Yoshihiro Natuhara</u> Tadpoles Differentially Use Visual Cues for Detecting Predators		
		342 - <u>Eric Hilton</u>, Andrew Williston, Peter Konstantinidis Osteology of <i>Parabrotula plagiophthalma</i> (Parabrotulidae) Based on Cleared and Stained Specimens and X-ray Computed Tomography		
3:15 PM				
		312 - <u>Calvin Won</u>, Larry Allen Spatial Characterization of Barred Sand Bass Spawning Aggregations Using Active Acoustic Technology		
		194 - <u>Jin-Koo Kim</u>, Soo-Jeong Lee Evidence of Restricted Gene Flow Between Two Lineages of the Sand Lance, <i>Ammodytes personatus</i> (PISCES, Ammodytidae) Based on Larval Distributions in the Yellow and the East Seas, and Taxonomic Implications		
3:30 PM				
		161 - <u>Kenneth Thompson</u> Adventures in Africa (1974 - 75): A Graduate Student in Paradise		
3:45 PM		167 - <u>Stephen Kajiura</u>, Shari Tellman Seasonal Shark Abundance in South Florida		
		188 - <u>Sang-Yun Han</u>, Jin-Koo Kim, Yoshiaki Kai, Hiroshi Senou Cryptic Diversity of the <i>Hippocampus coronatus</i> Complex (Pisces, Syngnathidae) from Korea and Japan		
4:00 PM	POSTER SESSION I Tahoe Room & Reno Ballroom			
5:00 PM				
6:00 PM				

Oral Presentations - Saturday, 18 July - Morning

<i>Carson 1</i>			<i>Carson 2</i>		ROOM
HERP CONSERVATION I			AES INTEGRATIVE ELASMOBRANCH BIOLOGY		SESSION/ SYMPOSIUM
DANIEL LEAVITT			MISTY PAIG-TRAN		MODERATOR
					8:00 AM
					8:15 AM
		476	<u>E.W. Misty Paig-Tran</u> , Lara Ferry		8:30 AM
95	<u>Kealoha Freidenburg</u> , Alex Shepack, David Skelly		Integrative elasmobranch biology for the 21st century		8:45 AM
Species Loss in Developed Landscapes: An Experimental Evaluation					
96	<u>Daniel Leavitt</u> , Robert Lovich, Lee Fitzgerald	102	<u>Lisa B. Whitenack</u> , Matthew Kolmann		9:00 AM
The bucket brigade went pro but the library is still on fire: modern challenges in reptile conservation.			Integrative Chondrichthyan Paleobiology: The Present is the Key to the Past		9:15 AM
413	<u>Steven Whitfield</u> , Gilbert Alvarado, Juan Abarca, Hector Zumbado, Adrian Pinto, Valerie McKenzie, Jacob Kerby				
Enigmatic Survival Follows Enigmatic Decline: Conservation Ecology of Presumed Extinct Amphibians in Costa Rica					
BREAK - Tahoe Room & Reno Ballroom					9:30 AM
HERP CONSERVATION I			AES INTEGRATIVE ELASMOBRANCH BIOLOGY		SESSION/ SYMPOSIUM
JUSTIN NOWAKOWSKI			LARA FERRY		MODERATOR
571	<u>Justin Nowakowski</u> , Andrew DeWoody, Matthew Fagan, Janna Willoughby, Maureen Donnelly	18	Ronald Seidel, David Knoetel, Merlind Schotte, Daniel Baum, Daniel Huber, Michael Blumer, James Weaver, <u>Mason Dean</u>		10:00 AM
Mechanistic insights into landscape genetic structure of two tropical amphibians using field derived resistance surfaces			Interdisciplinary Approaches to Skeletal Biology and Mechanics: Design Lessons from Shark Skeletons		10:15 AM
514	<u>John Willson</u> , Jacquelyn Guzy, William Hopkins				
Influence of Landcover, Spatial Configuration, and Species Life-history on Amphibian Abundance and Productivity in Fragmented Landscapes					
43	<u>Lauren McPherson</u> , Jim Anderson	178	<u>Brooke Flammang</u>		10:30 AM
Comparing Amphibian Metamorphic Success Between Created and Natural Wetlands			Biomechanics of shark swimming		10:45 AM
355	<u>Lu Zhang</u> , Wei Jiang, Hongxing Zhang, Qijun Wang, Hu Zhao, Ruth Marcec, Scott Willard, Andrew Kouba				
Post-release Survival of Juvenile Captive-reared Chinese Giant Salamander (<i>Andrias davidianus</i>) Reintroduced to the Wild		427	<u>Christine Bedore</u> , Nicholas Wegner		11:00 AM
			Sensory ecology of elasmobranch fishes		11:15 AM
		500	<u>Nicholas Wegner</u>		11:30 AM
			The Elasmobranch Gill: A Window into Evolution and Physiology		11:45 AM
LUNCH ON YOUR OWN					12:00 PM

Oral Presentations - Saturday, 18 July - Morning

ROOM		<i>Carson 3</i>		<i>Carson 4</i>
SESSION/ SYMPOSIUM		FISH GENETICS/ FISH CONSERVATION & MANAGEMENT		HERP ECOLOGY
MODERATOR		BROOK FLUKER		PETE ZANI
8:00 AM	314	<u>Nicholas Marra</u> , Minghui Wang, Paulina Pavinski Bitar, Qi Sun, Michael Stanhope, Mahmood Shivji	569	<u>Corey Brumbaugh</u> , Alex Dornburg, Robert Weaver
		Genome sequence of an apex predator, the white shark (<i>Carcharodon carcharias</i>)		Physiographic Factors Affecting the Distribution of Amphibians and Reptiles in Southeastern Washington State
8:15 AM	443	<u>Trevor Krabbenhoft</u> , Gerald Smith, Thomas Dowling	106	<u>Geoffrey N. Hughes</u> , Jacqueline D. Litzgus
		Genome Evolution Following Whole Genome Duplication: Insight from Suckers (Catostomidae)		Thermal Landscape Ecology of Wood Turtles (<i>Glyptemys insculpta</i>) in the North
8:30 AM	435	<u>Catherine Purcell</u> , Andrew Severin, Mark Drawbridge, Kevin Stuart, John Hyde	425	<u>Mara Leyendecker</u> , <u>José Pedro do Amaral</u>
		Using transcriptomics to investigate development in California yellowtail larvae (<i>Seriola dorsalis</i>).		Thermoregulation of the Wall Lizard, <i>Podarcis muralis</i> : an Introduced Species
8:45 AM	420	<u>Megan Osborne</u> , Joshua Perkin, Keith Gido, Thomas Turner	511	<u>Roger Anderson</u>
		Comparative Riverscape Genetics Reveals Reservoirs of Genetic Diversity for Conservation and Restoration of Great Plains Fishes		Effects of climate variation compared for three syntopic lizard species across a decade in the northern Great Basin
9:00 AM	198	<u>Stuart Willis</u> , Christopher Hollenbeck, Jonathon Puritz, David Portnoy, John Gold	37	<u>Peter A. Zani</u>
		Identifying recruitment patterns among silk snapper (<i>Lutjanus vivanus</i>) off the west coast of Puerto Rico: challenges and solutions with using ddRADseq-based single nucleotide polymorphisms		The life and demography of side-blotched lizards, <i>Uta stansburiana</i> , in eastern Oregon: a tribute to Don Tinkle
9:15 AM	187	<u>John Johnson</u> , Michelle Johnston, Derek Hogan, Alex Fogg	44	<u>James Archie</u>
		Genetic composition of invasive lionfish throughout the Atlantic		Demographic Collapse (and Recovery) of Sky-island Populations of <i>Sceloporus occidentalis</i> in the Mojave Desert
9:30 AM		BREAK - Tahoe Room & Reno Ballroom		
SESSION/ SYMPOSIUM		FISH GENETICS/ FISH CONSERVATION & MANAGEMENT		HERP ECOLOGY
MODERATOR		WHITNEY ANTHONYSAMY		CRAIG LIND
10:00 AM	522	<u>Bernard Kuhajda</u> , Matthew Piteo, Paul Hartfield, George Jordan, Edward Heist	218	<u>Meaghan Gade</u> , Ralph Saporito
		Morphological and Genetic Variation in Lower Mississippi River <i>Scaphirhynchus</i> Part 1: Morphological Discrimination Among Pallid, Shovelnose, and Intermediate Sturgeon Phenotypes		Color Assortative Mating in a Mainland Population of the Strawberry Poison frog, <i>Oophaga pumilio</i>
10:15 AM	509	<u>Edward Heist</u> , Jennifer Eichelberger, Paul Hartfield, George Jordan, Bernie Kuhajda	475	<u>Gary Bucciarelli</u> , H. Bradley Shaffer, David Green, Lee Kats
		Morphological and Genetic Variation in Lower Mississippi River <i>Scaphirhynchus</i> Part 2: Congruence Between Morphological and Genetic Assignments with Perspectives on Hybridization.		Temporal Variation of Toxin Levels in a Chemically Defended Amphibian
10:30 AM	369	<u>Barry Chernoff</u> , Helen Poulos	68	<u>Craig Lind</u> , Steve Beaupre, Douglas Rhoads, Brenda Flack
		Regime Shifts and Resilience in Fish Populations following Dam Removal		The mating system and reproductive life history of female Timber Rattlesnakes in northwestern Arkansas.
10:45 AM	260	<u>Clayton Crowder</u>	508	<u>Paul Hampton</u>
		The attempted establishment of Roundtail Chub <i>Gila robusta</i> in a warm-water riverine system in Eastern Arizona		Ontogeny of prey size: A functional explanation for prey size selection patterns in snakes
11:00 AM	454	<u>Thomas Turner</u> , Megan Osborne, David Propst, Wade Wilson	599	<u>Kevin Wiseman</u> , Ronald Jackman, Joseph Drennan, Karla Marlow, Ian Chan
		Drought and Wildfire Compromise Genetic Diversity and Recovery in Gila trout		Feeding Ecology of the Sierra Garter Snake (<i>Thamnophis couchii</i>) from the North Fork Feather River, California
11:15 AM	372	<u>Karen Martin</u> , Vincent Quach, Emily Pierce	40	<u>Patrick Gregory</u>
		Population Trends in California's Original Surfers, the Beach-Spawning <i>Leuresthes tenuis</i>		A Large Communal Den of Garter Snakes (<i>Thamnophis elegans</i>) in Southwestern British Columbia
11:30 AM	94	<u>Chris L. Chabot</u> , Holly A. Hawk, Larry G. Allen	2	<u>Jessica Middleton</u> , <u>David Green</u>
		Low contemporary effective population size detected in the Critically Endangered giant sea bass, <i>Stereolepis gigas</i> , due to fisheries overexploitation		Altered Adult Age-Structure as an Amphibian Population Declines
11:45 AM				
12:00 PM		LUNCH ON YOUR OWN		

Oral Presentations - Saturday, 18 July - Morning

	<i>Crystal 1 & 2</i>		<i>Crystal 3 & 4</i>	ROOM
	FISH MORPHOLOGY & HISTOLOGY		DONN ROSEN & THE ASSUMPTIONS I	SESSION/ SYMPOSIUM
	JACKIE WEBB		BRIAN CROTHER	MODERATOR
327	<u>Sarah Friedman</u> , Peter Wainwright, Samantha Price			8:00 AM
	Ecomorphological Convergence in Zooplanktivorous Surgeonfishes			
145	<u>Christopher Martinez</u> , F. James Rohlf, Michael Frisk			8:15 AM
	Sexual Dimorphism in Sister Species of <i>Leucoraja</i> Skate and its Relationship to Reproductive Strategy and Life History			
115	<u>Vikram Baliga</u> , Rita Mehta	89	<u>Brian Crother</u>	8:30 AM
	Kinematics of Picking Behavior in Wrasses		Skepticism, Evolution, and Donn E. Rosen	
555	<u>Dylan Wainwright</u> , James Weaver, George Lauder	88	<u>Scott Schaefer</u>	8:45 AM
	The surface structure of fish scales		Uncertainty and Decision in Revisionary Systematics	
123	<u>Mariangeles Arce H.</u> , Maureen O'Leary	351	<u>David Kizirian</u> , Maureen Donnelly	9:00 AM
	Reinvestigating the Phylogeny of Ictaluridae, a Study Done Using MorphoBank.			
582	<u>Wasila Dahdul</u>		The Network Species Model	9:15 AM
	How to Accelerate the Transformation of Comparative Anatomy into Computable Anatomy?			
BREAK - Tahoe Room & Reno Ballroom				9:30 AM
			DONN ROSEN & THE ASSUMPTIONS I	SESSION/ SYMPOSIUM
			BRIAN CROTHER	MODERATOR
		481	<u>Chris Murray</u> , Caleb McMahan, Brian Crother, Dr. Craig Guyer	10:00 AM
			The Inhibition of Scientific Progress: Perceptions of Biological Units	
		175	<u>E. O. Wiley</u>	10:15 AM
			Species Concepts	10:30 AM
		160	<u>Kevin de Queiroz</u>	10:45 AM
			Nomenclatural Assumptions that Inhibit Scientific Progress	11:00 AM
		224	<u>Randall Mooi</u> , Anthony Gill	11:15 AM
			The Redefinition of Cladistics — Are All Data Really Evidence?	11:30 AM
		225	<u>John Sparks</u>	11:45 AM
			Assumptions of convergence, so-called regressive evolution, and dispersal have inhibited progress in our understanding of the evolution of subterranean biotas	
LUNCH ON YOUR OWN				12:00 PM

Oral Presentations - Saturday, 18 July - Afternoon

ROOM		<i>Carson 1</i>		<i>Carson 2</i>
SESSION/ SYMPOSIUM		HERP CONSERVATION II		AES INTEGRATIVE ELASMOBRANCH BIOLOGY
MODERATOR		ANDREW DURSO		ADAM SUMMERS
1:30 PM	242	<u>Brian Halstead</u> , Shannon Skalos, Glenn Wylie, Michael Casazza	31	<u>Yannis Papastamatiou</u>
		Terrestrial Ecology of Semi-aquatic Giant Gartersnakes (<i>Thamnophis gigas</i>)		A day in the life: combining biologging and modelling to understand shark behaviour and physiology
1:45 PM	287	<u>Anne Devan-Song</u> , Margarete Walden, Nancy Karraker		
		"Viper Season" in South China: Trimeresurus albolabris Movements Explain Patterns of Snake-human Conflict.		
2:00 PM	493	<u>Noelle Fletcher</u> , Erika Nowak, Erik Nielsen	462	<u>Heather Marshall</u> , Diego Bernal, Gregory Skomal, Richard Brill, Peter Bushnell, Nick Whitney
		Citizens and serpents: the effectiveness of citizen science in improving knowledge and conservation of two threatened gartersnake species.		The Importance of Physiology in Shark Mortality Assessments and Fisheries Management
2:15 PM	152	<u>Andrew M. Durso</u> , Ryan P. O'Donnell		
		The Future of Herpetological Citizen Science		
2:30 PM	30	<u>Brian Todd</u> , Jonathan Rose, Steven Price, Michael Dorcas	402	<u>Kady Lyons</u> , Matt Vijayan
		Citizen science data shows species' sensitivities to human land use		Compromised stress response in round stingrays exposed to PCBs along the southern California coast
2:45 PM	185	<u>Brendan Reid</u> , Richard Thiel, Zach Peery		
		If you build it, they will (slowly) come: population dynamics of endangered Blanding's turtles (<i>Emydoidea blandingii</i>) in a restored area		
3:00 PM	323	<u>Ricky Spencer</u>		DISCUSSION
		Freshwater Turtle Declines: A Global Problem		
3:15 PM	336	<u>Sarah Snyder</u> , C. Richard Tracy, Ken Nussear, Lesley DeFalco		
		After the Smoke Clears: The Effect of Wildfire on Desert Tortoise Body Temperature and Vegetative Cover Use		AES BUSINESS MEETING (3:30-4:30 p.m.)
3:30 PM	343	<u>Whitney Anthonsamy</u> , Michael Dreslik, Marlis Douglas, Dan Thompson, George Klut, Andrew Kuhns, David Mauger, Gary Glowacki, Christopher Phillips		
		Genetic Patterns Among Rare and Common Turtle Species		
3:45 PM				
4:00 PM		POSTER SESSION II Tahoe Room & Reno Ballroom		
5:00 PM				
6:00 PM				

Oral Presentations - Saturday, 18 July - Afternoon

	<i>Carson 3</i>		<i>Carson 4</i>	ROOM
	FISH BIOGEOGRAPHY/ FISH SYSTEMATICS I		HERP SYSTEMATICS & GENETICS	SESSION/ SYMPOSIUM
	CHRIS HOAGSTROM		GUIN WOGAN	MODERATOR
478	<u>Gerald Smith</u>	442	<u>Guinevere Wogan</u>	1:30 PM
	Causes and Consequences of Bad Divergence-Time Estimates		Model selection, partitioning schemes, and phylogenetic informativeness: a case study from the Dicroglossidae (Amphibia:Anura)	
418	<u>Devin Bloom</u> , Haley Ohms	365	Tony Gamble, <u>Aaron Bauer</u> , Eli Greenbaum, Todd Jackman	1:45 PM
	On the Origins of Diadromy: A Conceptual and Empirical Evaluation of Alternative Hypotheses		Diurnality Evolved Multiple Times in Geckos	
370	<u>Timothy Sosa</u>	110	<u>Lauren Oliver</u> , Elizabeth Prendini, Fred Kraus, Christopher Raxworthy	2:00 PM
	Characoidei: timing and number of colonizations across the Isthmus of Panama		A systematic and biogeographic evaluation of the Hylarana frog (Anura: Ranidae) radiation across tropical Australasia, Southeast Asia, and Africa	
564	<u>Brook Fluker</u> , Bernard Kuhajda	398	<u>Daniel Portik</u> , David Blackburn	2:15 PM
	Testing Predictions of Peripatric Speciation in the Mobile Basin of the Southeastern United States		Molecular Systematics and Trait Evolution of the Afrobatrachia, an Extensive Radiation of African Frogs	
10	<u>Christopher Hoagstrom</u> , Kathie Taylor	34	<u>Sara Ruane</u> , Chris Raxworthy, Alan Lemmon, Emily Lemmon, Frank Burbrink	2:30 PM
	Deep Endemism of fishes in the Ozarks and pre-Pleistocene highland vicariance		Estimating a Malagasy Snake Phylogeny: A Comparison of Small and Large Molecular Datasets	
46	Fernando A Zapata, <u>D Ross Robertson</u>	549	<u>Christina De Jesús-Villanueva</u> , Wilfredo Falcón, Ximena Vélez-Zuazo, Catherine Stephen, Riccardo Papa	2:45 PM
	How big the Greater Caribbean shore-fish fauna, and how long to describe it?		Genetic Population Structure and origin of the Invasive Green Iguana (<i>Iguana iguana</i>) in Puerto Rico	
362	<u>Hannah Owens</u> , Kale Bruner	339	<u>Brian Shamblyn</u> , Dean Bagley, Katherine Mansfield, Llewellyn Ehrhart, Mark Dodd, Kristen Hart, Campbell Nairn	3:00 PM
	Holocene Pacific cod (<i>Gadus macrocephalus</i>) Distributional Changes: Ecological Niche Models and Archeological Evidence		The Promise and Pitfalls of Mitochondrial DNA Repeat Markers in Marine Turtle Population Studies	
410	<u>Luke Tornabene</u> , D. Ross Robertson, Carole Baldwin	527	<u>Kristina Drake</u> , Todd Esque, Ken Nussear, Lizabeth Bowen, Shannon Waters, Keith Miles, Rebecca Lewison	3:15 PM
	Little fish in a deep dark world: evolutionary origins of deep-reef Caribbean gobies (Teleostei: Gobiidae: Gobiosomatini)		Using Genetics to Identify Subtle or Hidden Health Conditions in the Mojave Desert Tortoise	
505	<u>Dominik Halas</u>			3:30 PM
	Reconstructing Species Trees when Introgression is Common: a Case Study in the <i>Etheostoma zonale</i> (Teleostei: Percidae) Group			
455	<u>Ethan France</u> , Thomas Near			3:45 PM
	Molecular and morphological data reveal a cryptic species masquerading as <i>Percina palmaris</i> (Percidae: Etheostomatinae)			
POSTER SESSION II Tahoe Room & Reno Ballroom				4:00 PM
				5:00 PM
				6:00 PM

Oral Presentations - Saturday, 18 July - Afternoon

ROOM		<i>Crystal 1 & 2</i>		<i>Crystal 3 & 4</i>
SESSION/ SYMPOSIUM		FISH BIOLOGY		DONN ROSEN & THE ASSUMPTIONS I
MODERATOR		EDIE MARSH-MATTHEWS/MOLLY MORRIS		LYNNE PARENTI
1:30 PM	384	<u>Raelynn Deaton Haynes</u> , Julian Rios	111	<u>Melanie Stiassny</u> , Elizabeth Alter
		Fighting with Swords: Genital Combat as an Alternative Explanation for Same Sex Mating in a Coercive Livebearer?		The Evolution of Phenotypic Convergence in Fishes of the Lower Congo River.
1:45 PM	131	<u>Molly Morris</u> , Ryan Friebertshauer, Oscar Rios-Cardenas, Melissa Liotta, Jessica Abbott	519	<u>Leo Smith</u>
		Selection on Growth Rates across Alternative Reproductive Tactics in the Swordtail Fish <i>Xiphophorus multilineatus</i>		Convergent Evolution of a Hinged Premaxilla in Benthic Percomorphs
2:00 PM	439	<u>Karen Crow</u>	412	<u>Brian Sidlauskas</u>
		Multiple paternity, female bateman gradients, and cryptic female choice in the live-bearing surfperches		When has convergence really occurred?
2:15 PM	388	<u>Charles Downey</u> , Rachel Brewton, Jennifer Wetz, Matthew Ajemian, Gregory Stunz	301	<u>Paula Mabee</u>
		Reproductive biology of Red Snapper, <i>Lutjanus campechanus</i> , on natural and artificial reefs in the western Gulf of Mexico		Progress in Comparative Morphology can be accelerated through Semantic Annotation
2:30 PM	376	<u>Missy Gibbs</u> , Patrick Watson, Kelsey Johnson-Sapp	264	<u>Mary White</u>
		Rapid change in reproductive patterns of the invasive catfish <i>Pterygoplichthys disjunctivus</i> in a Florida spring system		Developmental macromutations and the "Hopeful Monster"
2:45 PM	171	<u>Fredys F. Segura-Guevara</u> , Edith A. Beltrán-Ortega, Charles W. Olaya-Nieto	170	<u>James Hanken</u>
		Reproductive biology of Barbul <i>Pimelodus blochii</i> in the Sinu River, Colombia		Ontogeny and Homology—A Cautionary Tale
3:00 PM	169	<u>William Perez-Doria</u> , José G. Mestra-Ricardo, Charles W. Olaya-Nieto		
		Reproductive ecology of Mayupa <i>Sternopygus macrurus</i> in the Sinu River, Colombia		
3:15 PM	70	<u>Andrew Nosal</u> , Yuzo Yanagitsuru, John Hyde, Philip Hastings, Nicholas Wegner	294	<u>Maureen Donnelly</u>
		The Effects of Simulated Catch-and-Release on Metabolism and Hypoxia Sensitivity in an Important Recreational Rockfish Species, the Bocaccio (<i>Sebastes paucispinis</i>)		What Does Use of a Limited Resource have to do with Biodiversity?
3:30 PM	54	<u>Terry Donaldson</u>	127	<u>Prosanta Chakrabarty</u>
		Lek-like Reproductive Behavior and Mating Success of <i>Cheilinus trilobatus</i> (Labridae) on a Resident Aggregation Site		Epistemological Concerns for Estimating Extinction
3:45 PM	189	<u>Hyo-Jae Yu</u> , Jin-Koo Kim		
		Early life history of <i>Sebastes koreanus</i> (Pisces, Scorpaenoidei) in the Yellow Sea		
4:00 PM		POSTER SESSION II Tahoe Room & Reno Ballroom		
5:00 PM				
6:00 PM		ASIH Business Meeting 6-8 p.m.		

Oral Presentations - Sunday, 19 July - Morning

	Carson 1		Carson 2	ROOM	
	NO SESSION		AES MORPHOLOGY & PHYSIOLOGY	SESSION/ SYMPOSIUM	
			CARL LUER	MODERATOR	
		440	<u>Carl Luer</u> , Cathy Walsh, Laura Edsberg, Jennifer Wyffels	8:00 AM	
		560	<u>Michael Doane</u> , Elizabeth Dinsdale	8:15 AM	
			Experimental Wounding of Atlantic Stingrays, <i>Dasyatis sabina</i> : Role of Epidermal Mucus in Protection of Early Stage Wound Beds		
		56	<u>Jonathan Davis</u>	8:30 AM	
			Revealing a physiological role of shark skin through microbial community analysis		
		357	<u>Hannah Hart</u> , Andrew Evans, Jim Gelsleichter, Greg Ahearn	8:45 AM	
			Molecular identification and functional characteristics of peptide transporter 1 (PEPT1) in the Bonnethead shark (<i>Sphyrna tiburo</i>)		
		23	<u>John Whalen</u> , Jim Gelsleichter, Dean Grubbs	9:00 AM	
			Using DNA adducts to examine polycyclic aromatic hydrocarbon exposure in shark populations affected by the Deepwater Horizon oil spill		
		220	<u>Johanna Imhoff</u> , R. Dean Grubbs	9:15 AM	
			Methylmercury Contamination in Six Species of Deepwater Sharks in the Northeastern Gulf of Mexico		
BREAK - Grand Ballroom Salon				9:30 AM	
	NO SESSION		AES ECOLOGY & BEHAVIOR	SESSION/ SYMPOSIUM	
			PETER KLIMLEY	MODERATOR	
		72	<u>Rachel Scharer</u> , Philip Stevens, Gregg Poulakis	10:00 AM	
			A Comparison of Abiotic Affinities and Spatiotemporal Distribution Patterns in Two Smalltooth Sawfish, <i>Pristis pectinata</i> , Nursery Areas		
		73	<u>Gregg Poulakis</u> , Philip Stevens, Rachel Scharer	10:15 AM	
			A Comparison of Movement Patterns in Two Smalltooth Sawfish, <i>Pristis pectinata</i> , Nursery Areas		
		444	<u>Diana A. Churchill</u> , Michael R. Heithaus, R. Dean Grubbs	10:30 AM	
			Estimating the trophic position of deep-water sharks and associated species using compound-specific nitrogen isotope analysis of amino acids.		
		219	<u>Cheston Peterson</u> , R. Dean Grubbs	10:45 AM	
			Investigating trophic relationships between sharksuckers (<i>Echeneis naucrates</i>) and their elasmobranch hosts using stable isotope analysis		
		248	<u>Robert J. Nowicki</u> , Jordan A. Thomson, James W. Fourqurean, Michael R. Heithaus	11:00 AM	
			Effects of Predation Risk from Tiger Sharks (<i>Galeocerdo cuvier</i>) on Resilience of an Iconic Seagrass Ecosystem Following a Widespread Climate Driven Disturbance		
		158	<u>Rui Matsumoto</u> , Miwa Suzuki, Kiyoshi Asahina, Kiyomi Murakumo, Yosuke Matsumoto, et al	11:15 AM	
		Long-term Observation of The Behavioral and Hormonal Trends in Male Whale Shark in Okinawa Churaumi Aquarium			
	556	<u>Csilla Ari</u> , Dominic D'Agostino	11:30 AM		
		Sensory and Cognitive Experiments on Giant Manta Rays			
	20	<u>Peter Klimley</u> , David Acuna, Randall Arauz, Sandra Bessudo, Eduardo Espinosa, et al	11:45 AM		
		The Role of Geology and the Design of Marine Reserves for Sharks in the Eastern Pacific			
LUNCH ON YOUR OWN				12:00 PM	

Oral Presentations - Sunday, 19 July - Morning

ROOM		<i>Carson 3</i>		<i>Carson 4</i>
SESSION/ SYMPOSIUM		FISH ECOLOGY I		SWPARC
MODERATOR		HANNAH OWENS		KIM LOVICH
8:00 AM	491	<u>Solomon David, Matthew Herbert, Ashley Moerke, Mary Khoury, Patrick Doran, et al</u>		Introduction
		Connecting the largest surface freshwater system on Earth: life history and distribution of Great Lakes migratory fishes		
8:15 AM	397	<u>William Matthews, Edie Marsh-Matthews</u>	12	<u>Roy Averill-Murray, Brian Henen, Terry Christopher</u>
		Traits of Individual Fish Species and their Distributions across Environmental Gradients or Success under Adverse Conditions		Reproductive Ecology of Female Sonoran Desert Tortoises (<i>Gopherus morafkai</i>)
8:30 AM	252	<u>Dustin Lynch, Daniel Magoulick</u>	432	<u>Linda Allison, Ann McLuckie</u>
		Temporal Variation in Flow-Ecology Relationships in the Ozark Highlands		SWPARC - Trends in Mojave Desert Tortoise Densities
8:45 AM	229	<u>Stuart Welsh, Joni Aldinger</u>	525	<u>Robert Lovich, Chris Petersen</u>
		Periodicity and timing of upstream migration of yellow-phase American Eels, Potomac River drainage, USA.		SWPARC - First Strategic Plan for Herpetofauna by the United States Government
9:00 AM	226	<u>Edie Marsh-Matthews, William Matthews</u>	270	<u>Cristina Jones, Audrey Owens, Bradley Poynter, Stuart Wells</u>
		Stream fish community dynamics: Confronting the conventional wisdom		SWPARC - Ask Me about Turtle Trapping
9:15 AM	386	<u>Sarah Ramsden, Mary Carla Curran</u>	304	<u>Clint Henke</u>
		Seasonal Patterns in Residency and Distribution of the Atlantic Stingray <i>Dasyatis sabina</i> in Two Tidal Creek Systems near Savannah, Georgia		SWPARC - Tribute to Hobart Smith and David Chiszar - and A Journey Across the Southwest
9:30 AM		BREAK - Grand Ballroom Salon		
SESSION/ SYMPOSIUM		FISH ECOLOGY II		SWPARC
MODERATOR		RAELYNN DEATON HAYNES		ROB LOVICH
10:00 AM	268	<u>Tracey Sutton, April Cook, Tamara Frank, Heather Judkins, Jon Moore, et al</u>	540	<u>Kelly Hunt, Jason L. Jones, Amanda Northrup</u>
		What have we learned about the diversity of oceanic fauna of the Gulf of Mexico after <i>Deepwater Horizon</i> ? Initial results of the NOAA Offshore Nekton Sampling and Analysis Program		SWPARC - Monsters in Our Midst, Or Are They? A Humble Exercise in Estimating Detection Probability
10:15 AM	186	<u>Katie Bowen, Tracey Sutton</u>	142	<u>Ashley Grimsley, Daniel Leavitt, Robert Lovich, Nicholas Heatwole</u>
		Pelagic habitat use by juvenile reef fishes in the northern Gulf of Mexico		SWPARC - Flat-tailed Horned Lizard (<i>Phrynosoma mcallii</i>) Demographic Monitoring within the Yuma Desert Management Area, Arizona
10:30 AM	307	<u>Tracey Sutton, Kevin Boswell, Heather Bracken-Grissom, April Cook, Sergio deRada, et al</u>	322	<u>Jonathan Richmond, Dustin Wood, Michael Westphal, Robert Fisher</u>
		Dynamics of Epi-, Meso-, and Bathypelagic Fish Assemblages: A Gulf of Mexico Case Study and New Research Initiative (DEEPEND)		SWPARC - Population genetic connectivity patterns in the endangered blunt-nosed leopard lizard <i>Gambelia siva</i> reveal clues about the former landscape of California's San Joaquin Desert
10:45 AM	335	<u>Alejandra Mickle, Ralph D. Grubbs, Jeffrey P. Chanton</u>	593	<u>Bryan Hamilton, Beverly Roeder, Margaret Horner</u>
		Trophic Structure, Feeding Ecology and Bioaccumulation of Hg in Gulf of Mexico Hagfishes		SWPARC - Survival and Detectability in Great Basin Rattlesnakes - A 15 Year Study
11:00 AM	350	<u>Rachel Brewton, Matthew Ajemian, Gregory Stunz</u>	524	<u>Jason L. Jones</u>
		Highly opportunistic foraging of Common Dolphinfish, <i>Coryphaena hippurus</i> , in the western Gulf of Mexico		SWPARC - The Citizen & The Snake
11:15 AM	28	<u>Jennifer Bigman, Brian Bergamaschi, Marina Brand, Garrett Liles</u>	604	<u>Samuel Fisher, Sophia Alcaraz, Ramón Gallo-Barneto, Clara Patiño-Martínez, Carlton Rochester, et al</u>
		Fishy Food Web Dynamics of the Sacramento-San Joaquin Delta		SWPARC - Rapid ecological adaptation of a snake following invasion of a novel island ecosystem
11:30 AM	282	<u>Jonathan P. Williams, Daniel J. Pondella II, Jeremy T. Claisse</u>	537	<u>Kim Lovich, Chris Brown</u>
		Kelp Forest Fish Communities at San Clemente Island, California		SWPARC - Collaborative Conservation Efforts for the Western Pond Turtle (<i>Actinemys marmorata</i>) in San Diego County.
11:45 AM	286	<u>J. Derek Hogan, Peter J. Lisi, Peter B. McIntyre, Michael J. Blum, James F. Gilliam, Nate Bickford</u>	399	<u>Erika Nowak</u>
		Variability in migration of an amphidromous goby (Gobiidae): causes and consequences		SWPARC: Using Field Research to Inform Captive Husbandry of the Federally-threatened Narrow-headed Gartersnake
12:00 PM		LUNCH ON YOUR OWN		

Oral Presentations - Sunday, 19 July - Morning

	<i>Crystal 1 & 2</i>		<i>Crystal 3 & 4</i>	ROOM
	CYPRINIFORMES INVENTORY		DONN ROSEN & THE ASSUMPTIONS II	SESSION/ SYMPOSIUM
	LARRY PAGE		CHRIS MURRAY	MODERATOR
32	<u>Larry M. Page</u>			8:00 AM
	An Overview of the NSF- funded All Cypriniformes Species Inventory, an International Project			
177	<u>Richard Mayden</u> , Chia-Hao Chang, Wei-Jen Chen			8:15 AM
	Relationships of Major Clades in the Order Cypriniformes, Derived from an Expanded Phylogenetic Analysis using Six-Nuclear Genes			
64	<u>Kenji Saitoh</u> , Tetsuya Sado, Mutsumi Nishida, Richard Mayden, Masaki Miya	605	<u>Kevin W. Conway</u> , Thomas Fraser, Carole Baldwin	8:30 AM
	Mitogenomic Phylogeny of Cypriniformes			
	Dragonets, blennioids, or none of the above: a morphological perspective on the gobiesocid sistergroup			
209	<u>Milton Tan</u> , Jonathan Armbruster	612	<u>David Johnson</u> , Peter Konstantinidis	8:45 AM
	The All Cypriniformes Tree of Life: A Resource for Comparative Studies Applied to Diversification and Evolution of Body Size			
	Homology of the Upper Jaw and Suspensorial Elements of the Deep-Sea Telescope Fish, <i>Gigantura</i> (Aulopiformes: Giganturidae): Rosen (1973) revisited.			
417	<u>Jonathan Armbruster</u> , Milton Tan, Malorie Hayes, Carla Stout	334	<u>Kirsten Nicholson</u> , Craig Guyer, John Phillips	9:00 AM
	The Cypriniform African Invasion			
353	<u>Henry Bart</u> , Ray Schmidt, Dorothy Nyingi, Nathan Gichuki		Biogeography of Central American anoles of the genus <i>Norops</i>	9:15 AM
	Phylogeographies of six co-distributed clades of cyprinine fishes in Kenya (Actinopterygii: Cyprinidae)			
BREAK - Grand Ballroom Salon				9:30 AM
	CYPRINIFORMES INVENTORY		DONN ROSEN & THE ASSUMPTIONS II	SESSION/ SYMPOSIUM
	JONATHAN ARMBRUSTER		CHRIS MURRAY	MODERATOR
48	<u>Malorie Hayes</u> , Jonathan Armbruster	114	<u>Lynne Parenti</u>	10:00 AM
	Morphological investigation of the African minnow genus <i>Enteromius</i>			
422	<u>Olga Otero</u> , Diogo Mayrinck		Raising Cain: On the Assumptions that Inhibit Scientific Progress in Comparative Biogeography	10:15 AM
	When and where fossils enlighten cypriniform and cyprinid diversification and dispersion path and timing			
45	<u>Yahui Zhao</u> , Danté B. Fenolio, Daphne Soares, Chunguang Zhang	382	<u>Mallory Eckstut</u>	10:30 AM
	Beauty under Ground: Cavefishes in China			
	Does vicariance or dispersal drive biogeographic patterns and diversity?			
199	<u>Prachya Musikasinthorn</u>	79	<u>Gareth Nelson</u>	10:45 AM
	An Undescribed Species of Loach (Family Nemacheilidae) with Piscivorous Food Habits from the Inle Lake Basin, Myanmar.			
200	<u>Chavalit Vidthayanon</u>		Donald Eric Rosen (1929-1986)	11:00 AM
	Cypriniforms as bioindicators in the Mekong Basin; how systematic research impacts monitoring			
105	<u>Chaiwut Grudpan</u> , Jarungjit Grudpan		DISCUSSION	11:15 AM
	Cypriniformes: The symbolic fishes for the Lower Mekong Basin (LMB)			
59	<u>Alison Murray</u> , Juan Liu			11:30 AM
	Eocene cypriniform fishes			
36	<u>Qiu Ren</u> , Lei Yang, Chia-Hao Chang, Richard Mayden			11:45 AM
	Molecular phylogenetic and geometric morphometric analyses of Asian barbs in the <i>Puntius sensu lato</i> complex (Teleostei: Cypriniformes)			
LUNCH ON YOUR OWN				12:00 PM

Oral Presentations - Sunday, 19 July - Afternoon

ROOM		Carson 1		Carson 2
SESSION/ SYMPOSIUM				AES MORPHOLOGY, ECOLOGY, & PHYSIOLOGY
MODERATOR				CHRIS LOWE
1:30 PM			205	<u>Steven Kessel</u> , Alexander Hansell, Samuel Gruber, Tristan Guttridge, Nigel Hussey, Rupert Perkins
				Lemon shark (<i>Negaprion brevirostris</i>) catch per unit effort (CPUE) trends, Bimini, Bahamas, derived from a fishery independent, 32-year shallow water longline survey
1:45 PM			217	<u>Taketeru Tomita</u> , Masaru Nakamura, Keiichi Sato, Hiroko Takaoka, Minoru Toda, et al
				Changes in catshark embryo respiratory mode during mid-embryonic period
2:00 PM		NO SESSION	63	<u>Aaron Carlisle</u> , Mark Denny, Nishad Jayasundara, Adrian Gleiss, Elliot Hazen, et al
				Linking thermal physiology with habitat availability in juvenile lamnid sharks
2:15 PM			144	<u>Christopher Lowe</u> , Connor White, Diego Bernal
				Behavioral Thermoregulation in Elasmobranch Fishes: What Do We Know and Where Do We Go from Here?
2:30 PM			530	<u>Christopher Clark</u> , Yukun Lin, Jerry Hsiung, Connor White, Christopher Lowe
				Planning, Control, and State Estimation for Animal Tracking with Autonomous Robots
2:45 PM			101	<u>Daniel Coffey</u> , Kim Holland
				In situ Measurements of Dissolved Oxygen from a Vertically Migrating Deepwater Shark, the Bluntnose Sixgill (<i>Hexanchus griseus</i>)
3:00 PM		BREAK - Grand Ballroom Salon		
SESSION/ SYMPOSIUM				AES MORPHOLOGY, ECOLOGY, & PHYSIOLOGY
MODERATOR				BRYAN FRAZIER
3:30 PM			83	<u>Joshua K. Moyer</u> , William E. Bemis
				Comparisons of Tooth Structure and Replacement in the Blue Shark (<i>Prionace glauca</i>) and the Great White Shark (<i>Carcharodon carcharias</i>)
3:45 PM			463	<u>Matthew Kolmann</u> , Nathan Lovejoy
				Feeding kinematics of the ocellate river ray, <i>Potamotrygon motoro</i>
4:00 PM			520	<u>Sebastian Pardo</u> , Marc Dando, Nick Dulvy
				Can fin shape explain variation in somatic growth among shark species?
4:15 PM		NO SESSION	33	<u>Emily Nelson</u> , Neil Hammerschlag, Duncan Irschick
				Variation in Body Form Influences Broad Scale Movement Patterns and Ecological Locomotor Performance by an Apex Predator
4:30 PM			526	<u>Bryan Frazier</u> , Dana Bethea, William Driggers, Robert Hueter, John Tyminski
				Growth Rates of Bonnetheads (<i>Sphyrna tiburo</i>) from the Western North Atlantic Ocean Estimated from Tag-Recapture Data
4:45 PM			528	<u>Eric Hoffmayer</u> , Jennifer McKinney, Jill Hendon, James Franks, Brett Falterman, William Driggers
				Northern Gulf of Mexico Whale Shark Research Program: what we have learned about whale shark aggregations in the northern Gulf of Mexico
5:00 PM				

Oral Presentations - Sunday, 19 July - Afternoon

	<i>Carson 3</i>		<i>Carson 4</i>	ROOM
	FISH SYSTEMATICS II		SWPARC	SESSION/ SYMPOSIUM
	BRIAN SIDLAUSKAS		KIM LOVICH	MODERATOR
419	<u>Thomas Near</u> , Brant Faircloth, Michael Alfaro	503	<u>Krystal Anderson</u> , Erika Nowak	1:30 PM
	Ultraconserved elements resolve the phylogeny of spiny-rayed fishes (Teleostei: Acanthomorpha)		SWPARC: Wildfire effects on <i>Thamnophis rufipunctatus</i>	
159	Lei Yang, <u>Shannon Corrigan</u> , Gavin Naylor	117	<u>Taylor Cotten</u>	1:45 PM
	Phylogenetic Relationships of Batoids Inferred from Gene Capture Data of 1076 Nuclear Loci and the Mitogenome		SWPARC- <i>Thamnophis eques</i> and <i>Thamnophis rufipunctatus</i> in Arizona, current research and conservation	
597	<u>Christopher Kenaley</u> , William Ludt, Prosanta Chakrabarty, Alexandra Stote	263	<u>Jenny Loda</u> , Collette Adkins	2:00 PM
	Phylogenetic and Morphometric Analysis of Hitchhiking: New Insights into the Morphological Evolution of Suction Discs in the Remoras (Percomorpha: Carangiformes: Echeeneidae)		Using the Endangered Species Act to Protect Rare Amphibians and Reptiles in the Southwest.	
429	<u>Matthew Davis</u> , Toby Daly-Engel		DISCUSSION	2:15 PM
	Evolutionary Relationships of the Deep-Sea Pearleyes (Aulopiformes: Scopelarchidae) and a New Genus of Pearleye from Antarctic Waters			
356	<u>Carole Baldwin</u> , Victor Springer		SWPARC WORKING GROUP DISCUSSIONS	2:30 PM
	Resolving <i>Ecsenius</i> (Blenniiformes: Blenniidae) Species Issues in the Middle East: It Takes an International Village			
192	<u>Se Hun Myoung</u> , Jin-Koo Kim, Choon Bok Song			2:45 PM
	Preliminary study on three morphotypes of <i>Pristiophorus japonicus</i> (PISCES, Pristiophoridae) from the Northwest Pacific			
BREAK - Grand Ballroom Salon				3:00 PM
	FISH SYSTEMATICS II		SWPARC WORKING GROUP DISCUSSIONS	SESSION/ SYMPOSIUM
	BARRY CHERNOFF			MODERATOR
191	<u>Young-Sun Song</u> , Jin-Koo Kim, Jung-Ha Kang			3:30 PM
	Cryptic diversity of <i>Atractoscion aequidens</i> (Perciformes: Sciaenidae) and a description of a new species from the Oman Sea			
300	<u>Thiago Loboda</u> , Marcelo Carvalho			3:45 PM
	Morphological diversity and taxonomic revision of <i>Paratrygon</i> Duméril (1865) (Chondrichthyes: Myliobatiformes: Potamotrygonidae): a species complex			
250	<u>Casey Dillman</u> , Brian Sidlauskas, Richard Vari			4:00 PM
	A morphological supermatrix-based phylogeny for the Neotropical fish superfamily Anostomoidea (Ostariophysi: Characiformes): Phylogeny, Missing Data, and Homoplasy			
243	<u>Maria Laura S. Delapieve</u> , Roberto E. Reis, Pablo A. Lehmann			4:15 PM
	Phylogenetic Relationships of the Species of Hypoptopomatini (Siluriformes: Loricariidae)			
228	<u>Alejandro Londoño-Burbano</u> , Roberto Reis			4:30 PM
	Taxonomic Revision and Phylogenetic Relationships of the species of <i>Dasylicararia</i> (Siluriformes, Loricariidae), with description of a new species			
109	<u>Jairo Arroyave</u> , John SS Denton, Melanie LJ Stiassny			4:45 PM
	Pattern and Timing of Diversification in the African Freshwater Fish Genus <i>Distichodus</i> (Characiformes: Distichodontidae)			
			5:00 PM	

Oral Presentations - Sunday, 19 July - Afternoon

ROOM		<i>Crystal 1 & 2</i>		<i>Crystal 3 & 4</i>
SESSION/ SYMPOSIUM		CYPRINIFORMES INVENTORY		CHEMICAL ECOLOGY
MODERATOR		RICK MAYDEN		CHRIS FELDMAN
1:30 PM	227	<u>Zachary Randall</u> , Lawrence Page		
		Revision of the Hill-stream Gecko Loaches, <i>Homalopteroides</i> Fowler 1905 (Teleostei: Balitoridae)		
1:45 PM	202	<u>David Boyd</u> , Lawrence Page	611	<u>Brian Gall</u> , Edmund Brodie III, Edmund Brodie, Jr.
		Review of the horseface loaches (Cobitidae, Acantopsis), with descriptions of new species from Thailand		Complex Ecological Interactions between Newts and Aquatic Invertebrates Modulated By The Powerful Neurotoxin Tetrodotoxin
2:00 PM	133	<u>Patrick Ciccotto</u> , Lawrence Page	22	<u>Natasha Wilson</u> , Edmund Jr Brodie, <u>Craig Williams</u>
		A Systematic Overview of the Cyprinid Genera <i>Crossocheilus</i> and <i>Lobocheilos</i> (Tribe Labeonini) from Southeast Asia		The Role of Toxin Tolerance in Predator-prey Relationships Between Freshwater Crustaceans and Amphibians
2:15 PM	298	<u>Ryan Thoni</u>	201	<u>Adriana Jeckel</u> , Taran Grant, <u>Ralph Saporito</u>
		<i>Garra</i> of Bhutan: An introduction to the diversity, taxonomy, and ecology of Bhutan's most speciose genus		Sequestered and Synthesized Chemical Defenses in the Poison Frog <i>Melanophryniscus moreirae</i> (Bufonidae)
2:30 PM	50	<u>Lei Yang</u> , Richard Mayden	315	<u>Alan Savitzky</u> , Shabnam Mohammadi, Hirohiko Takeuchi, Tatsuya Yoshida, Naoki Mori, Akira Mori
		Nuclear Gene Cloning, Polyploid Evolution and the Subdivision of the Subfamily Cyprininae		Sequestered Chemical Defense in a Lineage of Asian Natricine Snakes
2:45 PM	349	<u>Carla Stout</u> , Milton Tan, Jonathan Armbruster	240	<u>Stephen Mackessy</u>
		Phylogeography of Leuciscinae		Biochemical ecology and snake venoms: biological roles, phenotypic plasticity and venom evolution
3:00 PM		BREAK - Grand Ballroom Salon		
SESSION/ SYMPOSIUM		CYPRINIFORMES INVENTORY (CI)/ CYPRINIFORMES BIOLOGY/ ONE SPECIAL TALK		CHEMICAL ECOLOGY
MODERATOR		KEVIN CONWAY		CHRIS FELDMAN
3:30 PM	84	CI - <u>Susana Schonhuth</u> , Lourdes Lozano-Vilano, Anabel Perdicés, Hector Espinosa, Richard Mayden	347	<u>Matthew Holding</u> , H. Lisle Gibbs, James Biardi
		Phylogeny, Genetic Diversity and Phylogeographic Perspective on the Endemic Mexican Genus <i>Codoma</i> (Teleostei, Cyprinidae)		Adaptive Variation in a Complex Chemical Phenotype: Northern Pacific Rattlesnake Venom shows Environmentally-structured Local Adaptation to Venom Resistance in Ground Squirrels.
3:45 PM	92	<u>Qiongying Tang</u> , Xiaobing Li, Yurong Zhu, Baoqing Ding, Huanzhang Liu	492	<u>Christopher Jeffrey</u> , Lora Richards, Lee Dyer
		Taxonomic Revision and Phylogeny of the Cyprinid Genus <i>Saugobio</i> (Gobioninae: Cyprinidae: Cypriniformes)		Powerful chemical tools for understanding organismal interactions
4:00 PM	547	<u>Thomas Dowling</u> , Paul Marsh, Robert Clarkson		DISCUSSION
		Molecular markers identify segregation of two species of chubs (genus <i>Gila</i>) in an Arizona stream		
4:15 PM	563	<u>Richard Mahoney</u> , Erik Halverson, Todd Huspeni, Justin Sipiorski		
		Age, growth, body condition and spawning phenology of <i>Luxilus cornutus</i> (Cyprinidae: Actinopterygii) in Wisconsin: a statewide, 65-year perspective.		
4:30 PM	507	<u>Adam Summers</u>		
		Want a job in academia? Join a society.		
4:45 PM				
5:00 PM				