

2009 Joint Meeting (JMH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**THURSDAY, 23 JULY, Afternoon Sessions**

ROOM	Grand Ballroom I	Grand Ballroom II	Pavilion East	Pavilion West	ROOM
SESSION/ SYMPOSIUM	ELHS/LFC Connectivity Symposium I	Fish Systematics I	Fish Genetics I	Herp Systematics	SESSION/ SYMPOSIUM
MODERATOR	R WARNER	S DeVaney	M OSBORNE	T JACKMAN	MODERATOR
1:30 PM	INTRODUCTION	Phylogeny of Eltopomorphs Based on Nuclear and Mitochondrial DNA	S Palmerer Genetic Characterization and Conservation Status of Pupfish in River Springs, California	D Mulcahy Basal Relationships Among Squamate Reptiles Based on 25 Protein-coding Nuclear Loci	1:30 PM
1:45 PM	P Munday	T Fraser	A De Los Santos Camarillo - GDM	D Cundall	1:45 PM
	Ocean Temperature, Global Warming And Population Connectivity Of Tropical Marine Fishes	Molecular Phylogeny of the Cardinalfishes (Apogonidae) and non-monophyly of Apogon sensu lato	Genetic Structure of the Undescribed Mexican Native Trout: An Assessment with Microsatellite Loci	Drinking Homologies in Snakes: Another Window on Evolution	
2:00 PM	S Sogard	C Tracker	Y Chen	J Losos	2:00 PM
	Temperature Effects on Early Pelagic Stages of Warm Temperate Fish Species and Consequences for Connectivity Patterns	Phylogeny of Cardinalfishes (Teleostei: Gobiiformes: Apogonidae) and the Evolution of Visceral Bioluminescence	Genetic Relationships of Tui Chubs in Southwestern Great Basin and Management Plans for the Mohave Tui Chub	The Geography of Adaptive Radiation: Island vs. Mainland Diversification in Anolis Lizards	
2:15 PM	I Hunt von Herbing	R Chababria	J Eichelberger	D Leavitt	2:15 PM
	Connectivity and Conservation Physiology in Cold-Oceans	Preliminary Phylogeny of the Atlantic Members of the Goby Genus <i>Bathygobius</i> (Teleostei: Gobiidae)	Development of SNP Markers to Differentiate Pallid and Shovelnose Sturgeons and their Putative Hybrids	Phylogenetic Relationships Among Alligator Lizards of the Genus <i>Elgaria</i> : A Multi-locus DNA Sequence Approach	
2:30 PM	J Alerma	S Willis	W Clark	E Stanley - GH	2:30 PM
	Olfactory Imprinting Can Lead to Small Scale Population Structure	Testing Molecular Evolution and Morphology to Study the Evolutionary History of Deep Sea Character Adaptations of Lizardfishes and their Allies	Landscape Genetics of White Sucker ( <i>Catostomus commersoni</i> ) in North Dakota and Minnesota	A Species Level Phylogeny of the Cordylidae (Squamata) as Inferred from Five Nuclear and Three Mitochondrial Genes	
2:45 PM	R Cowen	M Davis - GI	M Osborne	T Jackman	2:45 PM
	Perception versus reality: Does larval biology differ with latitude?	Integrating Molecular Evolution and Morphology to Study the Evolutionary History of Deep Sea Character Adaptations of Lizardfishes and their Allies	Multi-locus Major Histocompatibility Complex Class IIb and Parasite Diversity in the Rio Grande Silvery Minnow	Phylogenetic Relationships of the "Gekko Group" Geckos	
3:00 PM		<b>BREAK - Exhibit Hall</b>			3:00 PM
SESSION/ SYMPOSIUM	ELHS/LFC Connectivity Symposium I	Fish Systematics I	Fish Genetics I	Herp Systematics	SESSION/ SYMPOSIUM
MODERATOR	J CASELLE	N Lang	Ma DOUGLAS	T GRANT	MODERATOR
3:30 PM	J Leis	D Roje - GDM	Ma Douglas	T Grant	3:30 PM
	How Do Biogeography and Study Species Influence Connectivity?	Mitigating the Effects of Substitution Saturation on Phylogeny Estimation: A Case Study from the Molecular Phylogenetics of the Flatfish Family Pleuronectidae	Range-wide Population Structure in a Long-lived Species, the Bluehead Sucker ( <i>Catostomus discobolus</i> )	The Phylogeny of Chemical Defense in Poison Frogs (Anura: Dendrobatiidae)	
3:45 PM	A Shanks	C Dillman	L Horth	D Blackburn	3:45 PM
	Pelagic Larval Duration and Dispersal Distance	Overlooked Utility of mtDNA Sequence Data in Native Trout? Insights from the Native Fauna From Mexico	Biased Sex-Ratio (and Color-Morph Ratio) is Associated with Melanic Color Pattern in Eastern Mosquitofish	A Quantitative Analysis of Ecomorphological Evolution in the Frog Genus <i>Kaboula</i> (Anura: Microhylidae)	
4:00 PM	R Vetter	D Halsas - GI	M Juan-Jorda	J Streicher	4:00 PM
	Darwin's Hammer: Larval Mortality and Population Persistence in an In-Temperate World	A Multi-Gene Phylogeny of the Notoptis subseries Species group: Patterns of Diversification in the Central Highlands of North America	Comparative Analysis of the Life History Traits in the Scombridae Family	Phylogenetic Placement of Type and Rare Specimens Using a priori Hypotheses from Molecular Data: A Case Study using Direct-developing Frogs (Anura: Craugastoridae) from Northern Central America	
4:15 PM	I Braubury	N Lang	Z Baldwin - GDM	M Henicke	4:15 PM
	Ocean Temperature Determines Dispersal Potential and Adaptive Connectivity in a North Temperate Marine Fish	Molecular Systematics of the Agonostomatine Mulllets (Teleostei: Mugilidae)	Population Genetics of the Bathypelagic Shining Tube-Shoulder, <i>Maulisia microlepis</i> , Along the Northern Mid-Atlantic Ridge (40°N - 60°N)	Relationships, Divergence Times, and Evolutionary History of West Indian Eleutheroidae	
4:30 PM	M Miller	D Lumbantobing - G	E Carson	D Beamer	4:30 PM
	Perspectives on the Population Connectivity of Tropical Diadromous Fishes	Phylogenetic Analysis of <i>Rasbora</i> (Teleostei: Cyprinidae) Based on Morphological Characters	Genetic Studies of Hatchery-Supplemented Populations of Red Drum, <i>Sciaenops ocellatus</i> , in Four Texas Bays	A Comprehensive, Range-wide Molecular Phylogenetic Survey of the Dusky Salamanders ( <i>Desmognathus</i> )	
4:45 PM	R McDowall		M Johansson - GDM	K Klymus	4:45 PM
	Diadromy, Recruitment, Expatial Dispersal and Colonisation in the Fish Faunas of Island Streams		Pheromone Receptor Gene Diversity in Rockfishes (Genus <i>Sebastes</i> )	The Canyon Treefrog, <i>Hyla arenicolor</i> : Unraveling a Cryptic Species	
5:00 PM	Discussion				5:00 PM
	GI = ASH Stoye General Ichthyology		GH = ASH Stoye General Herpetology		

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ROOM SESSION/ SYMPOSIUM MODERATOR	Parlor ABC AES Gruber Award I	Galleria North SSAR Seibert Ecology Award	Galleria South AES Behavior & Morphology	Broadway I & II Amphibian Pathogen Ecology	ROOM SESSION/ SYMPOSIUM MODERATOR
1:30 PM	<b>S KAJIURA</b> J Vaudo Foraging Ecology of a Nearshore Australian Batoid Community Inferred from Stable Isotopic Analysis	<b>R SAPORITO</b> L Isaac Exploring Relationships between Garter Snake Color Pattern and Behavior: A Comparison of Phenotypically Variable Populations of Wandering Garter Snake.	<b>M HEUPEL</b> M Heupel Preliminary Analysis of Grey Reef Shark Movements on the Great Barrier Reef	<b>D OLSON</b>	1:30 PM
1:45 PM	<b>E Brooks</b> Seasonal Abundance, Demographics and Habitat Use of the Caribbean Reef Shark ( <i>Carcharhinus perezi</i> ) in the North East Exuma Sound, The Bahamas.	<b>T Hagey</b> Cruise Foraging of Invasive Chameleon ( <i>Chamaeleo jacksonii xanthopterus</i> ) in Hawaii	<b>J Franks</b> Diel Movements of a Scalloped Hammerhead Shark ( <i>Sphyrna lewini</i> ) in the Northern Gulf of Mexico as Determined by High-Rate Pop-Up Satellite Archival Tagging	<b>B Metts</b>	1:45 PM
2:00 PM	<b>L Howey</b> Comparative Habitat Utilization of the Blue Shark ( <i>Prionace glauca</i> ) and Shortfin Mako ( <i>Isurus oxyrinchus</i> )	<b>D Paolletti</b> Recognition of an Introduced Predator by Foothill Yellow-legged Frog Tadpoles	<b>N Whitney</b> Biologging Love: Identifying Shark Mating Behavior Using a Three-dimensional Acceleration Data Logger	<b>D Olson</b>	2:00 PM
2:15 PM	<b>A Maljkovic</b> Hey, Where's My Dinner Gone? Fishing and the Trophic Consequences for Caribbean Reef Sharks	<b>K Landolt</b> Predator Presence and the Facultatively Paedomorphic Mole Salamander, <i>Ambystoma talpoideum</i>	<b>J Gardner</b> Odor Orientation Behavior in Sharks	<b>M Venesky</b>	2:15 PM
2:30 PM	<b>K Jirik</b> Influence of Temperature on the Habitat Use and Movement Patterns of Round Stingrays in a Southern California Estuary	<b>M Ryan</b> Ecological Impacts of Tiger Salamander Hybridization: Invasive Genotypes Impact Native Amphibians	<b>P Klimley</b> Hotspots within Hotspots? Aggregations of Pelagic Fishes at Southeastern Corner of Wolf Island, Galapagos	<b>B Rohermel</b>	2:30 PM
2:45 PM	<b>T Farrugia</b> Testing a New Long-term Fine-scale Positional System for Tracking Multiple Fish Simultaneously	<b>G Hopkins</b> Anti-Predator Granular Gland Skin Secretions of the Long-toed Salamander ( <i>Ambystoma macrodactylum</i> ) in its Northern Range.	<b>C Meyer</b> First Use of Mobile Peer-to-Peer Network (MP2P) Technology on a Marine Animal	<b>E Muhs</b>	2:45 PM
3:00 PM	<b>BREAK - Exhibit Hall</b>				3:00 PM
SESSION/ SYMPOSIUM MODERATOR	<b>AES Gruber Award I</b>	<b>SSAR Seibert Ecology Award</b>	<b>AES Behavior &amp; Morphology</b>	<b>Amphibian Pathogen Ecology</b>	SESSION/ SYMPOSIUM MODERATOR
3:30 PM	<b>S KAJIURA</b> S Kessel Movements and Migrations of the Jupiter Lemon Sharks ( <i>Negaprion brevirostris</i> )	<b>H WUSHINSKY</b> P Wheatley Estimating Long-term Diets of Alligators from Rockefeller Wildlife Refuge Using Stable Isotope Analysis	<b>M HEUPEL</b> E Hofmayer Habitat Preferences and Movement Patterns of Dusky ( <i>Carcharhinus obscurus</i> ) and Silky ( <i>Carcharhinus falcliformis</i> ) Sharks in the Northern Gulf of Mexico: Preliminary Results	<b>M GRAY</b> M Gray Ranaviruses in Southern Appalachian Salamanders	3:30 PM
3:45 PM	<b>K Stump</b> Applying Individual-Based Modeling Techniques to Address Potential Impacts of Essential Habitat Loss in a Lemon Shark Nursery	<b>J Bauder</b> Movements of Prairie Rattlesnakes in a Mountainous Landscape in Central Idaho	<b>D Fox</b> Coastal Movements of Sand Tiger Sharks ( <i>Carcharias taurus</i> ) in the Northwest Atlantic as Determined by Acoustic and Satellite Telemetry	<b>J Hoverman</b> Anuran susceptibilities to the emerging amphibian pathogen <i>Ranavirus</i>	3:45 PM
4:00 PM	<b>D Burkholder</b> Does Tiger Shark ( <i>Galeocerdo cuvier</i> ) Predation Risk Influence Habitat Use of Green Sea Turtles ( <i>Chelonia mydas</i> ) at Multiple Spatial Scales?	<b>K Mougley</b> Radio Transmitter Weight: Impacts on Home Range, Vertical Habitat Use, Body Condition, and Jumping Ability in Male Crested Anoles	<b>T Guttridge</b> Refuging and Social Behaviour of Free-ranging Juvenile Lemon Sharks, <i>Negaprion brevirostris</i> in a Tropical Lagoon	<b>D Bradford</b> Airborne Pesticides as an Unlikely Cause for Population Declines of Alpine Frogs in the Sierra Nevada, California	4:00 PM
4:15 PM	<b>W Smith</b> Distinguishing Natal Origins from Vertebral Chemical Composition: The Utility of Trace Elements as Natural Markers in <i>Etmopterus</i> Populations	<b>C Friesen</b> Sperm Precedence in a Snake: <i>Thamnophis sirtalis</i> parietalis	<b>M Soares</b> Morphological and Evolutionary Patterns of the Spiracularis Muscle in Batoids ( <i>Chondrichthyes</i> )	<b>D Miller</b> Ominous Tadpoles: American Bullfrogs are Suitable Hosts of <i>Escherichia coli</i> O157:H7	4:15 PM
4:30 PM	<b>J Maurer</b> Life History Aspects of Two Bering Sea Skate Species, <i>Bathyraja lindbergi</i> and <i>B. maculata</i>	<b>S Parsons</b> Landscape Genetics of Great Basin Rattlesnakes, <i>Crotalus oregonus lutosus</i> , on the Idaho National Laboratory	<b>D Figueroa</b> Teeth of Skates in the Southwest Atlantic	<b>F Brem</b> Variation in <i>Batrachochytrium dendrobatidis</i> Zoospore Production Rate and Tail Morphology Between a United States and Panamanian isolate	4:30 PM
4:45 PM		<b>J Wilson</b> Trap-happiness, Temporary Emigration and Other Factors Affecting Detectability and Population Estimation in Aquatic Snakes		Discussion	4:45 PM
5:00 PM		<b>R Hill</b> Habitat Restoration Influence on Amphibian Community Structure, Willamette Mission State Park, Oregon			5:00 PM

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**FRIDAY, 24 JULY, Morning Sessions**

Grand Ballroom I		Grand Ballroom II		Pavilion East		Pavilion West		ROOM
SESSION/ SYMPOSIUM	Catfish Symposium	AES Functional Morphology Symposium	Fish Ecology I	Storm Symposium	SESSION/ SYMPOSIUM	Storm Symposium	SESSION/ SYMPOSIUM	ROOM
MODERATOR	J LUNDBERG	C WILGA	B PUSEY	J BEATTY	MODERATOR	J BEATTY	MODERATOR	8:00 AM
8:00 AM	L Page C Ferraris The All Catfish Species Inventory (ACSI): A Highly Successful Planetary Biodiversity Inventory	Introduction J Ramsay C Wilga Hyoid Anatomy and Hypobranchial Muscle Function During Feeding in White-Spotted Bamboo Sharks	G Guillen Freshwater Fish as Possible Sources of Indicator Bacteria in Urban Warmwater Coastal Streams M Brady Impact of a Non-native Parasitic Nematode on American Eels ( <i>Anguilla rostrata</i> ) in Delaware Waters S Welsh Minnows, Mutualism, and Mixed-species Shoals L Scott Phenotypic Divergence among Multiple Trophic Trophic Populations of the Mexican Inebearing fish, <i>Poeciliopsis baenschii</i> B Pusey Sources of Variation in Trophic Structure of Fish Assemblages in Rivers with Variable Flow Regimes	Introduction: Robert M. Storm Symposium	8:00 AM	E Brodie	8:15 AM	
8:15 AM	C Ferraris	Introduction J Ramsay C Wilga Prey Capture Using Whole Body Fluid Dynamics in Baloids	E Paig-Tran Morphology and Selective Particulate Filtration in Cartilaginous fishes: Models, Mantas and Whale Sharks P Motta Filter Feeding in the World's Largest Fish: Form, Function and Diet		8:30 AM	R Nussbaum	8:30 AM	
8:30 AM	J Sullivan Patterns of Discovery of Sturioniformes During the All Catfish Species Inventory				8:45 AM	Post-hatching Maternal Care in Caeclians: Maternal Dermatology in <i>Boulengeria latianus</i> of Eastern Equatorial Africa	8:45 AM	
8:45 AM	J Sullivan The rag gene Catfish Tree and the "Big Bang" Theory of Sturion Global Diversification				9:00 AM	R A Iig	9:00 AM	
9:00 AM	M Hardman Clarioid Catfishes of the Congo Basin.				9:15 AM	After Forty Years of Tadpoles: A Career Spent Studying the Verb "To Vary"	9:15 AM	
9:30 AM		<b>BREAK - Exhibit Hall</b>				9:30 AM		
SESSION/ SYMPOSIUM	Catfish Symposium	AES Functional Morphology Symposium	Fish Ecology I	Storm Symposium	SESSION/ SYMPOSIUM	Storm Symposium	SESSION/ SYMPOSIUM	ROOM
MODERATOR	J LUNDBERG	M PORTER	L WILLIAMS	A BLAUSTEIN	MODERATOR	A BLAUSTEIN	MODERATOR	10:00 AM
10:00 AM	J Armbuster Loricatoid Catfishes: Species Diversity and Phylogeny	D Huber Structural Mechanics of Primitive and Derived Shark Teeth and Jaws	L Williams The Relationship Between Fish Assemblages, Watershed Form and Function, and Local Habitat in Highly Disturbed Headwater Streams N Franssen - EE Biodiversity and Community Biomass Stability of Stream Fishes in the Great Plains M Gibbs The Effects of Herbivory by <i>Pterygoplichthys disjunctivus</i> on the Ecology of a Freshwater Spring	C Feldman Evolutionary Genetics of Tetrodotoxin (TTX) Resistance in Snakes C Hanfin Of Channels and Coevolution: Tetrodotoxin (TTX) Toxicity in the Salamandridae	10:00 AM	C Feldman	10:00 AM	
10:15 AM	M Sabaj Perez Doradidae: In Complete Classification	T Ferrara Three Dimensional Computer Analysis of Jaw Mechanics in Great White and Sandtiger Sharks M Dean From Molecules to Jaws: Structural Hierarchy and Functional Morphology of the Tesselated Skeleton of Cartilaginous Fishes	J Torres Dowdall Phenotypic Plasticity as the Result of Temporal and Spatial Heterogeneity in Predation Pressure E Trjapalo Population Ecology of Brazilian Subterranean Fishes: Patterns of Individual Growth		10:15 AM		10:15 AM	
10:30 AM	J Lundberg South American Pimelodid and Pimeloid Catfishes: Species Diversity and Phylogeny	B Wueringer - G Functional Adaptations of the Elongated Rostrum of Pristid Sawfish K Mara - G Evolution and Function of the Hammerhead Cephaloid I: The Evolution of Cranial Form	J Torres Dowdall Phenotypic Plasticity as the Result of Temporal and Spatial Heterogeneity in Predation Pressure E Trjapalo Population Ecology of Brazilian Subterranean Fishes: Patterns of Individual Growth		10:30 AM		10:30 AM	
10:45 AM	J Friel Conflicting Phylogenies for Mochokid Catfishes: A rag-gene to Morphological Riches Story	S Kaljura Evolution and Function of the Hammerhead Shark Cephaloid 2: Functional Implications of Sensory Receptor Distribution L Jordan Functional Morphology of Elasmobranch Mechanosensory Lateral Line and Electroosensory Systems	M Bichuete Ecological Data for Brazilian Subterranean Catfishes: the Case of <i>Glyphyropoma spinosum</i> (Sturioniformes: Trichomycteridae: Cophnodontinae) F. Luanes Comparing Striped Bass Prey Size-predator Size Relationships across the Species Range		10:45 AM		10:45 AM	
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<b>8:00 AM</b>	<b>AES Conservation &amp; Management I / Age &amp; Growth</b> M SHIVJI M Shivji	<b>SSAR Seibert - Physiology Award</b> E BRITT G Bury	<b>ELHSLFC Connectivity Symposium II</b> J LEIS J Hare	<b>Herp Reproduction &amp; Behavior</b> K HARE K Hare	<b>8:00 AM</b>
	Heavy Metals in Market-Determined, Dried Shark Fins	Physiological Response of Larval Tailed Frogs, <i>Ascaphus trui</i> , to an Ecologically Relevant Thermal Stress	Population Connectivity and Temperate Nursery Habitats: Are Estuaries and Seagrasses So Special?	Changing Environmental Temperatures vs. Changing Weather and Whether it Matters for Viviparous Lizards	
<b>8:15 AM</b>	C Simpfendorfer	S Havens	G Jones	G Marvin	<b>8:15 AM</b>
	Shark Catches in the Inshore Waters of the Great Barrier Reef World Heritage Area	Small Frog, Big World: The Developmental Patterns of a Miniature Species, <i>Acris blanchardi</i> and their Implications	Dispersal of Coral Reef Fish Larvae: Scales of Self-recruitment and Connectivity	Sexual and Seasonal Dimorphism in the Cumberland Plateau Woodland Salamander ( <i>Plethodon kentuckii</i> )	
<b>8:30 AM</b>	F Hazin	V Arch	C Paris	J Henningsen - PPE	<b>8:30 AM</b>
	By-catch of Crocodile Shark, <i>Pseudocarcharias kamoharui</i> , in the Tuna Pelagic Longline Fishery in the Southwestern Atlantic Ocean: Abundance, Distribution, Mortality and Reproductive Parameters	An Old World Frog Communicates in Pure Ultrasound	In-situ Response of Pelagic Coral Reef Fish Larvae to Reef Odor: Conference Workshop: Temperature-tropical Differences in Connectivity – Real and Perceived	Does Testosterone Mediate Seasonal Changes in Signaling Size And Performance Capacity? A Test With Two Anoles	
<b>8:45 AM</b>	C Ward-Paige	M Haines	S Swearer	S Weiss	<b>8:45 AM</b>
	Monitoring Sharks: Evaluating and Correcting for Bias in Underwater Visual Surveys	The Effect of Tail Length on Swimming Performance in the Dusky Salamander ( <i>Desmognathus fuscus</i> ): An Experimental Manipulation	Does Landscape Context Influence the Magnitude of Connectivity in Marine Metapopulations?	Chemical Cues Indicate Familiarity and Body Size in Striped Plateau Lizards	
<b>9:00 AM</b>	S Larson	N Singh	I Nagelkerken	E Vaccaro - EE	<b>9:00 AM</b>
	Seattle Aquarium's Skiff Shark ( <i>Hexanchus griseus</i> ) Conservation Ecology Project	Going Green Takes Guts: Comparative Gross Morphology of Lizard Digestive Tracts as a Function of Diet	Intermediate Habitat Use by Post-Settlement Tropical Coastal Fishes	Pheromone Signaling System Modulates Female Receptivity in a Plethodontid Salamander	
<b>9:15 AM</b>	K Weng	K Eisenreich	J Caselle	S Fregoso	<b>9:15 AM</b>
	Juvenile White Shark Research at the Monterey Bay Aquarium	Assessment of Developmental, Behavioral and Physiological Endpoints in the Common Snapping Turtle and Red-eared Slider in Response to Polybrominated Diphenyl Ethers, a Flame Retardant, Following Embryonic and Dietary Exposure	Tropical vs. Temperate Differences in Dispersal: An MPA Perspective	Timing of Calcium Mobilization in a Predominantly Lactotrophic Viviparous Snake, <i>Virginia striatula</i>	
<b>9:30 AM</b>	<b>BREAK - Exhibit Hall</b>				<b>9:30 AM</b>
<b>SESSION / SYMPOSIUM</b>	<b>AES Conservation &amp; Management I / Age &amp; Growth</b>	<b>SSAR Seibert - Systematics &amp; Evolution Award</b>	<b>ELHSLFC Connectivity</b>	<b>Herp Reproduction &amp; Behavior</b>	<b>SESSION / SYMPOSIUM</b>
<b>MODERATOR</b>	<b>N DULVY</b>	<b>B CROTHER</b>	<b>R WARNER</b>	<b>M THOMPSON</b>	<b>MODERATOR</b>
<b>10:00 AM</b>	A Yamaguchi	D McLeod	Discussion	C Lind - PPE	<b>10:00 AM</b>
	Elaenobranch Fauna in Ariake Bay, Japan	Of Least Concern? Cryptic diversity in the Limonectes kuhlii complex		The Reproductive Cycle of the Northern Pacific Rattlesnake, <i>Crotalus o. oreganus</i> , in Central California: A Description of Hormones, Behavior, and Anatomy.	
<b>10:15 AM</b>	G Kume	G Wogan	J Shima	C Chim	<b>10:15 AM</b>
	Life History Characteristics of the Fanray Platyphina <i>sinensis</i> , Japan	Testing Refugial Hypotheses and Ancestral Range Changes in the Feline/ya Limonchans Species Complex ( <i>Anura: Dicroglossidae</i> )	Demographic Connectivity in a Temperate Reef Fish Metapopulation: The Critical Role of the Dispersal Matrix	Reproduction in a Female Population of the Dog-faced Water Snake <i>Cerberus rynchops</i> (Homaloptidae) from the Sungai Buhu Wetland Reserve, Singapore	
<b>10:30 AM</b>	I Baremore	T Jezkova	S Holt	X Glaudas	<b>10:30 AM</b>
	Propagating Measurement Error through the Calculations of Parameter Estimates	Does Climatic Change Promote Niche Evolution? A Case Study of the Desert Horned Lizard ( <i>Phrynosoma platyrhinos</i> )	Effects of Re-Opening a Tidal Inlet on Fish and Crustacean Recruitment into the Laguna Madre, Texas	Timing of Reproduction of a Cold Desert Viperid Snake from North America, the Great Basin Rattlesnake ( <i>Crotalus lutosus</i> )	
<b>10:45 AM</b>	N Durbey	J Grismer	J Hyde	J Masste	<b>10:45 AM</b>
	I Have Aged Some Sharks and Fitted a Growth Curve – Now What Do I Do?	Asexuality on the Beach: Phylogeny, Biogeography and the Origin of Parthenogenesis in <i>Lelolopsis</i>	Examination of Population Connectivity in Sandrine ( <i>Sardinops sagax caeruleus</i> ) in the North East Pacific using Microsatellite Markers	Reproductive Effort of the Common Garter Snake ( <i>Thamnophis sirtalis</i> ) in South Dakota	
<b>11:00 AM</b>		P Wood	L Guan - SR	M Thompson	<b>11:00 AM</b>
		Systematics of the Genus <i>Acanthosaura</i> Gray 1931 ( <i>Squamata: Aгамidae</i> ) Inferred from Mitochondrial and Nuclear Genes	Quantifying Mesoscale Patterns of Spatiotemporal Variability in the Ichthyoplankton Community of the Strait of Georgia	Uterine Angiogenesis in the Australian Skinks <i>Ctenolepis taeniolaemus</i> and <i>Saiphos equalis</i>	
<b>11:15 AM</b>		P Oliver	G Cook - SR	J Moore	<b>11:15 AM</b>
		Severe Underestimation of Specific and Phylogenetic Diversity in the Australian Gecko Fauna	Population Connectivity of a Temperate Rocky Reef Pomacentrid: How do Temperate Damselfs Compare?	Love on the Rocks: Seasonal Monogamy, Multiple Paternity, and Large-Male Advantage in Tuihara	
<b>11:30 AM</b>		A Peralta-Garcia	P Neubauer - SR	J Stewart	<b>11:30 AM</b>
		Historical Demography and Lineage Diversification of <i>Urosaurus ornatus</i>	Sources and Patterns of Variation in Natal Otolith Trace Element Signatures: Experimental Insights and Statistical Considerations	Consequences of Interpopulational Variation in Oviductal Egg Retention to Embryonic Calcium Nutrition	
<b>11:45 AM</b>		J Oaks		B Fry	<b>11:45 AM</b>
		Objective Partition Choice and the Phylogenetic Systematics and Biogeography of the True Crocodiles		A Central Role for Venom in Predation by <i>Varanus komodoensis</i> (Komodo Dragon) and the extinct giant <i>Varanus (Megarion) prisci</i>	
<b>12:00 PM</b>	<b>LUNCH</b>	H Alamillo	<b>LUNCH</b>	<b>LUNCH</b>	<b>12:00 PM</b>
	<b>EE = ASH Stoye Ecology &amp; Ethology</b>	Snake Diversification: Was the Miocene the Age of Snakes?	<b>SR = ELHSLFC Sally Richardson Award</b>	<b>PPE = ASH Stoye Physiology &amp; Physiological Ecology</b>	

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**FRIDAY, 24 JULY, Afternoon Sessions**

ROOM SESSION/ SYMPOSIUM MODERATOR 1:30 PM	Grand Ballroom I	Grand Ballroom II	Pavilion East	Pavilion West	ROOM SESSION/ SYMPOSIUM MODERATOR 1:30 PM
1:45 PM	<b>Catfish Symposium</b> <b>J LUNDBERG</b> W Dahdul Systematic Revision of the South American Catfishes of the Subgenus <i>Megalomena</i> (Eigenmann, 1912) (Siluriformes: Pimelodidae)	<b>AES Functional Morphology Symposium</b> <b>L FERRY-GRAHAM</b> T Tricas Critical Habitat for Sand Tiger Sharks During their Summer Residency in Delaware Bay	<b>Lizard Ecology</b> <b>T DOAN</b> T Doan Is Rock Selection by Andean Protoporus Lizards Adaptive?	<b>Storm Symposium</b> <b>R MASON</b> D Clayton A Conservation Strategy for the Siskiyou Mountains Salamander, Pleistodon stormi	1:45 PM
2:00 PM	D Adriaens Speciose and Special: Trichomycterid Catfishes and their Trophic Morphology	K Yopak Defying Evolutionary Expectations: Analysis of the Brain of the Whale Shark, <i>Rhincodon typus</i> , using Magnetic Resonance Imaging	B Brattstrom Seasonal and Microhabitat Partitioning in an Australian Skink Community	R Nauman 2:00 PM	2:00 PM
2:15 PM	M DePina Diversity and Evolution of Vampire Catfishes: a Taxonomic Review and Phylogenetic Analysis of Subfamily Vandellinae (Siluriformes, Trichomycteridae)	L Macesic Functional Morphology of Pelvic Fin Locomotion in Batoids	R Schaefer Relationships between Green Anole ( <i>Anolis carolinensis</i> ) Abundance and Strub Density, Structure, and Species Composition in Open Pine Forests	Conservation of the Pleistodon stormi complex: Management in a Changing Climate	2:15 PM
2:30 PM	J Baskin Review of the Paenmorphilic Trichomycterid Catfishes-Sarcoganidine/Glanapterygine Clade	M Porter Non-linear Viscoelasticity of Cartilaginous Vertebral Columns during Bending	P Zani The Effects of Temperature and Body Size on Winter Survival of Side-blotched Lizards, <i>Uta stansburiana</i> : Results from the Laboratory, Semi-natural Enclosures, and a Natural Population from Eastern Oregon	M Parker 2:30 PM	2:30 PM
2:45 PM	S Schaefer Andean Astrobleptid Catfishes: Pattern and Scale of Species Diversity	D Bernal The Role of the Caudal Fin in the Common Thresher Shark, It's Not Just for Swimming	J Barron Population Ecology of the Short-horned Lizard, <i>Phrynosoma hernandesi</i> : Results from Five Summers of Fieldwork in Southern Montana	The Timeline for Male Emergence from a Well-studied Hibernaculum: Optimal Patterns for Emergence and an Experimental Test	2:45 PM
3:00 PM	P Uhmack Phylogeny and Species Boundaries within the Catfish Family Ploceidae	D Bernal Adaptations for Continuous Swimming: Functional Morphology of the Locomotor Muscles in Thresher Sharks	E Britt Fire History and Florida Sand Skink ( <i>Plestiodon reynoldsi</i> ) Population Abundance.	C Searle 3:00 PM	3:00 PM
3:15 PM	R Vari The Neotropical Whale Catfishes: Unknown Diversity and Consequences of Phylogenetic Studies	N Wegner Adaptations for Fast, Continuous Swimming: Functional Morphology of the Gills in the Shortfin Mako, <i>Isurus paucus</i>	A Harrison - GH Niche Conservatism and Convergence in Anolis Lizards and Eleutherodactylus Frogs of Puerto Rico and Jamaica	Effects of UV-B Radiation and Pathogens on Amphibians in the Pacific Northwest	3:15 PM
3:30 PM	A Thomson - GI Taxonomy of the Amphiphilus jacksonii Complex (Teleostei: Amphiliidae).	L Ferry-Graham Ventilation in Chondrichthyan: A Decade of Research Reveals New Models of Aquatic Vertebrate Respiration	J Deitloff Understanding Biodiversity of Ground Anoles in Costa Rica	B McNabb 3:30 PM	3:30 PM
3:45 PM	A Lopez Systematics of the Asian Bagrid Genus <i>Pseudobagrus</i>	A Thomson - GI Taxonomy of the Amphiphilus jacksonii Complex (Teleostei: Amphiliidae).	S Poe Ancient Colonization Predicts Recent Naturalization in Anolis Lizards	Resources and Energetics Determined Dinosaur Maximal Size	3:45 PM
4:00 PM	N Lujan - GI The Physics and Chemistry of the Loricarid Trophic Radiation	<b>POSTER SESSION I</b> <b>Exhibit Hall</b>			4:00 PM
4:15 PM	M Retzer Taxonomy of Auchenoglanis (Siluriformes: Auchenoglanididae)				4:15 PM
4:30 PM					4:30 PM
5:00 PM					5:00 PM
5:30 PM					5:30 PM
6:00 PM		6:00 PM			
	<b>GI = ASIH Stoye General Ichthyology</b>		<b>GH = ASIH Stoye General Herpetology</b>		

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**FRIDAY, 24 JULY, Afternoon Sessions**

ROOM SESSION/ SYMPOSIUM	Parlor ABC	Galleria North	Galleria South	Broadway I & II	ROOM SESSION/ SYMPOSIUM
<b>MODERATOR</b>	<b>AES Gruber Award II</b>	<b>SSAR Seibert - Conservation Award</b>	<b>ELHS/LFC Connectivity II</b>		<b>MODERATOR</b>
<b>1:30 PM</b>	<b>C SIMPFENDORFER</b>	<b>B BRODMAN</b>	<b>J CASELLE</b>		<b>1:30 PM</b>
	<b>W Butley</b>	M Ostourn	D Cooper		
	Histological Staining of Vertebral Centra Increases Precision of Age Estimates Compared to Dorsal Fin Spines in Spiny Dogfish, <i>Squalus acanthias</i>	Effects of Land Use on Initial Juvenile Amphibian Dispersal	Northern Rock Sole ( <i>Lepidopsetta polyxystra</i> ) Connectivity between Larval and Juvenile Stages Along the Alaska Peninsula in Relation to Currents and Hydrography		
<b>1:45 PM</b>	<b>S Ainsley</b>	A Stingle	M Doyle		<b>1:45 PM</b>
	Age, Growth and Maturity of the Whitbrow Skate, <i>Bathyraja minispinosa</i> (Ishiyama & Ishihara, 1977), from the Eastern Bering Sea	Movements of the Eastern Rat Snake ( <i>Pantherophis alleghaniensis</i> ) in an Urban Setting at the Northeastern Edge of its Geographic Range	Contrasting Patterns of "Connectivity", and Associated Recruitment Processes, among Early Life History Dynamics of Selected Fish Species in the Gulf of Alaska		
<b>2:00 PM</b>	<b>C Cotton</b>	S Whitfield	I Mateo		<b>2:00 PM</b>
	Age, Growth and Reproduction of <i>Squalus mitsukurini</i> from Hawaiian Waters	Do Litter Dynamics Regulate Population Densities of Amphibians and Reptiles in a Declining Terrestrial Heterofauna?	Variation in Otolith Microchemistry Fingerprints of French Grunt ( <i>Haemulon flavolineatum</i> ) and Schoolmaster ( <i>Lutjanus apodus</i> ) in Nursery Habitats in Puerto Rico and St. Croix (USVI)		
<b>2:15 PM</b>	<b>F Carvalho</b>	T. Cotten	G Gerlach		<b>2:15 PM</b>
	Blue shark ( <i>Prionace glauca</i> ) Spatial Distribution and Catch Probabilities in the Southwest Atlantic Ocean	The Effects of Chinese Tallow ( <i>Sapium sebiferum</i> ) Leaf Litter on Four Species of Anuran Tadpoles	Dynamic of the Genetic Structure Indicates Post-Settlement Selection		
<b>2:30 PM</b>	<b>T Chapple</b>	A Savage	M Berumen		<b>2:30 PM</b>
	A Mark-Recapture Population Estimate of Great White Sharks, <i>Carcharodon carcharias</i> , off California	Experimental Infection with <i>Batrachochytrium dendrobatidis</i> Demonstrates Genetic Resistance to Chytridiomycosis in <i>Lithobates yavapaiensis</i>	Connectivity and Self-recruitment of Coral Reef Fishes in a Marine Reserve Network in Kimbe Bay, Papua New Guinea		
<b>2:45 PM</b>	<b>A Cicia</b>	C Goldberg	J Lipoz		<b>2:45 PM</b>
	Investigating the Physiological Effects of Environmental Salinity on the Distribution of Adult Female Atlantic Sharpnose Sharks, <i>Rhizoprionodon terraenovae</i> , in the northern Gulf of Mexico	Landscape Genetics of Columbia Spotted Frogs and Long-toed Salamanders in a Rural Landscape of Northern Idaho, USA	Variable Trophic Strategies of Planktonic Coral Reef Fish Larvae: Shining Some Light into the "Black Box" of Connectivity Research		
<b>3:00 PM</b>	<b>A Maia</b>	K Kaiser	D Hogan		<b>3:00 PM</b>
	Escape Responses in Young of the Year Spiny Dogfish	When Sounds Collide: Effects of Anthropogenic Noise on Frog Calling Behavior	Self-recruitment, Dispersal and Fluctuating Connectivity among Populations of a Coral Reef Fish		
<b>3:15 PM</b>	<b>V Di Santo</b>	V Titus	<b>M Christle - SR</b>		<b>3:15 PM</b>
	Effects of Thermotaxis on Digestion Efficiency in Two Elasmobranchs	Population Genetic Diversity and Connectivity among Populations of the Eastern Tiger Salamander ( <i>Ambystoma tigrinum tigrinum</i> ) in New York and New Jersey	Larval Retention and Population Connectivity in Two Coral Reef Fishes		
<b>3:30 PM</b>	<b>T Daly-Engel</b>	S Wisniewski	<b>K Huebert - SR</b>		<b>3:30 PM</b>
	Beneficial or Unavoidable? Sexual Conflict Drives Low Multiple Paternity and Genetic Diversity in the Shortspine Spurdog Shark ( <i>Squalus mitsukurini</i> )	A Brown Tree Snake Risk Assessment for the Continental United States	Effects of Vertical Migrations by Pelagic Reef Fish Larvae on Larval Transport		
<b>3:45 PM</b>	<b>N Aschliman</b>		S Sponaugle		<b>3:45 PM</b>
	Diversity and Constraint in the Evolution of Skates and Rays (Chondrichthyes: Batoida)		Spatial Variation in Larval Growth and Gut Fullness in a Coral Reef Fish: Implications for Population Connectivity		
<b>4:00 PM</b>			Discussion		<b>4:00 PM</b>
<b>4:30 PM</b>					<b>4:30 PM</b>
<b>5:00 PM</b>					<b>5:00 PM</b>
<b>5:30 PM</b>					<b>5:30 PM</b>
<b>6:00 PM</b>					<b>6:00 PM</b>

**POSTER SESSION I**  
**Exhibit Hall**



2009 Joint Meeting (JMH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**SATURDAY, 25 JULY, Morning Sessions**

ROOM	Grand Ballroom I	Grand Ballroom II	Pavilion East	Pavilion West	ROOM
SESSION/ SYMPOSIUM	Evolution & Ontology Symposium	Snake Reproduction Symposium	General Ichthyology I	Amphibian Ecology I	SESSION/ SYMPOSIUM
MODERATOR 8:00 AM	P MABEE H Lapp	R ALDRIDGE D Blackburn	E SCHULTZ S Young	H WELSH T Thigpen	MODERATOR 8:00 AM
8:15 AM	A Gentle Introduction to Ontologies for Biology	Evolution of Placentation in Viviparous Thamnophine Snakes	C McMahon - GI	Z Long	8:15 AM
8:30 AM	M Westerfield	T Eacy	N Brown-Peterson	D Trumbo	8:30 AM
8:45 AM	Linking Animal Models and Human Diseases	Reproductive and Developmental Physiology of Calcium Provision to Embryonic Snakes.	Effects of a Cestode Macroparasite on Oocyte Recruitment and Spawning of Alaskan Threespine Stickleback	Using GIS and Field Survey Data to Investigate the Abiotic and Biotic Factors Regulating Local Assemblages of Pond Breeding Amphibians in Eastern Missouri	8:45 AM
9:00 AM	P Mabee	S Trauth	A Gehebr - GI	H Welsh	9:00 AM
9:15 AM	Phenescap: Using Ontologies to Link Comparative Morphology to Genes	Comparative Male Urogenital Anatomy of North American Colubroid Snakes	The Fish Community of the Pearl River: A Historical Test of Community Persistence and Stability	Fluvial/geomorphic Process Domains and the Distributions of the Riparian and Aquatic Herpetofauna: a Landscape Study in an Undammed Northwestern California River Catchment	9:15 AM
9:30 AM			E Schultz	N Leuthold	9:30 AM
SESSION/ SYMPOSIUM	Evolution & Ontology Symposium	Snake Reproduction Symposium	General Ichthyology I	Amphibian Ecology I	SESSION/ SYMPOSIUM
MODERATOR 10:00 AM	P MABEE G Riccardi	R ALDRIDGE M Paiker	K PILLER N Delverthal	L MAHRT L Maärt	MODERATOR 10:00 AM
10:15 AM	Illustrating Ontologies with Morphbank and Phenescap	Sex Expression in Snakes: The Interplay Between Hormones and Pheromone Production	What I Found in Kolkata: A Trip to the Zoological Survey of India Type Collections	If You Build It, They Will Come...Oviposition Of Columbia Spotted Frogs in Man-Made Ponds in Eastern Oregon	10:15 AM
10:30 AM	P Vize	E Taylor	S Dowell	D Green	10:30 AM
10:45 AM	An Ontology for Xenopus Anatomy and Development	Hormones and Reproduction in Free-Living Snakes	Morphological and Genetic Investigations of Pennsylvania Populations of the Channel Shiner, <i>Notropis wickliffi</i>	Body Size Variation and Size-assortative Mating in Anurans	10:45 AM
11:00 AM	A Maglia	R Mason	R Day - GI	M Gibbons	11:00 AM
11:15 AM	Development of an Anatomical Ontology for Amphibians	Chemical Ecology of Snakes: From Pheromones to Receptors	K Pillar	Hatching Time and Genetics Affect Behavior and Development in the Red-eyed Treefrog ( <i>Agalychnis saltator</i> )	11:15 AM
11:30 AM	M Robinson-Rechavi	X Bonnet	M Brooks	Reproductive Mode Plasticity in the Treefrog <i>Dendropsophus ebraccatus</i>	11:30 AM
11:45 AM	Bgee: Integrating Ontology and Homology for the Study of Gene Expression Evolution	The Evolution of Semelparity	T Ford	Canopy Cover Impacts American Toads ( <i>Bufo americanus</i> ) in Multiple Life Stages	11:45 AM
12:00 PM	LUNCH	LUNCH	M Cotton - GI	Effects of Sublethal Pesticide Exposure and Larval Competitors on Multiple Life Stages in Two Pond-Breeding Anurans	12:00 PM
			Do Temperate Marine Fishes Follow the Rules? Relationships Between Body Size, Geographic Range Size and Abundance	Canopy Cover Impacts American Toads ( <i>Bufo americanus</i> ) in Multiple Life Stages	
			N Holcroft	Reducing Sampling-Induced Stress in Atlantic Cod	
			A Survey of Basal Euteleost Pectoral Girdles	Canopy Cover Impacts American Toads ( <i>Bufo americanus</i> ) in Multiple Life Stages	
			GI = ASIH Stoye General Ichthyology	Canopy Cover Impacts American Toads ( <i>Bufo americanus</i> ) in Multiple Life Stages	
			LUNCH	Canopy Cover Impacts American Toads ( <i>Bufo americanus</i> ) in Multiple Life Stages	
			EE = ASIH Stoye Ecology & Ethology	Canopy Cover Impacts American Toads ( <i>Bufo americanus</i> ) in Multiple Life Stages	

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**SATURDAY, 25 JULY, Morning Sessions**

ROOM	Parlor ABC	Galleria North	Galleria South	Broadway I & II	ROOM
SESSION/ SYMPOSIUM	AES Conservation & Management II	Herp Biogeography	AES Reproduction & Genetics	ELHSLFC General Ichthyology II	SESSION/ SYMPOSIUM
MODERATOR	J CARLSON	R FISHER	J SULIKOWSKI	L FUJIMAN	MODERATOR
8:00 AM		R Fisher Another New Brachycephalus from Fiji? New Genetic Evidence and Further Use of Morphology to Discriminate among the Described Living Species		J Lets With a Little Help from your Friends: Group Navigation in Larval Reef Fish	8:00 AM
8:15 AM		J Richmond Patterns of Evolutionary Diversification in South Pacific Scincid Lizards of the Genus <i>Emoia</i> Based on Multilocus DNA Sequence Data	R Coelho Abundance, Distribution and Reproductive Biology of the Oceanic Whitefish Shark Caught in the Luna Pelagic Longline Fishery in the Southwest Atlantic Ocean	T Rankin - SR Behavioral Basis for Selective Mortality in a Coral Reef Fish	8:15 AM
8:30 AM		D Porik - GH Phylogeography of a Skink Species from Southwestern Africa	J Marquez-Farias Observations on the Reproductive Biology of the Chilean Round Ray, <i>Urolophus chilensis</i> from the Southern Gulf of California, Mexico	L Fujiman Behavioral Traits that Determine Mortality of Newly Settled Reef Fish Larvae	8:30 AM
8:45 AM	D Ha Shark CPUE Trends from Virginia's Atlantic waters: Trends 1972-2008	D Wood Conflicting Phylogenetic Signals in the Narrow-headed Gartersnake ( <i>Thamnophis rufipunctatus</i> ): Unraveling Historical versus Contemporary Patterns of Diversity	J Sulikowski Size and Age Estimates at Sexual Maturity for the Blacknose Shark, <i>Carcharhinus acronotus</i> , from the Northern Gulf of Mexico	E D'Alessandro - SR Spatio-Temporal Distribution and Growth of Larval Snapper (Lutjanidae) along a Transect across the Straits of Florida	8:45 AM
9:00 AM	A. Morgan Population Assessment of the Dusky Shark in the Northwestern Atlantic Ocean Using an Age Structured Model	B Stuart Phylogeography of the Asian Common Toad, <i>Bufo melanostictus</i> : Deep Genetic Structure in a Widespread Human Commensal	B Pain Fecundity, Viability, and Gestational Rates of Little Skate <i>Leucoraja erinacea</i> , Egg Cases in the Gulf of Maine	K Adamski - SR Developing an Index of Abundance for Gag Groupers in North Carolina: an Analysis of Larval and Juvenile Catch	9:00 AM
9:15 AM	J Moore Critical Habitat for Sand Tiger Sharks During their Summer Residency in Delaware Bay	I Phillips Phylogeography of a Stream-dwelling Frog ( <i>Pseudacris cataverina</i> ) in Southern California	J Williams The Use of Steroid Hormone Concentrations to Determine Individual Variability in the Reproductive Cyclicality of the Little Skate, <i>Leucoraja erinacea</i> , in the western Gulf of Maine	A Ojanguren Developmental Plasticity of Antipredator Responses of Red Drum Larvae	9:15 AM
<b>BREAK - Exhibit Hall</b>					
9:30 AM					9:30 AM
SESSION/ SYMPOSIUM	AES Conservation & Management II	Herp Biogeography	AES Reproduction & Genetics	ELHSLFC General Ichthyology II	SESSION/ SYMPOSIUM
MODERATOR	J CARLSON	T TOWNSEND	D CHAPMAN	C GRIMES	MODERATOR
10:00 AM	J Carlson An update on the status of the sand tiger shark, <i>Carcharias taurus</i> for the U.S. Atlantic Ocean	T Townsend Phylogenetics and Biogeography of the Mexican Blind Lizard, <i>Anelytropsis papillosus</i>	J Giles Phylogeography of Indo-West Pacific Sharks and Rays (S10 spp.) with Applications to Monitoring the International Shark Fin Trade	M Peck Climate-driven Changes in the Survival and Growth of Maine Fish: Individual-based Model Estimates for Larval Herring ( <i>Clupea harengus</i> ) in the North Sea	10:00 AM
10:15 AM	M Evans Demographics and Habitat Partitioning of Elasmobranchs in Port Royal Sound, South Carolina	S Nielsen Something Old in New Zealand: Dating Suggests Possible Gondwanan Connections for New Zealand's Endemic Geckos	A. Versakimo Worldwide Population Structure of the Spiny Dogfish <i>Squalus acanthias</i>	K T sukamoto Ontogenetic Changes of Buoyancy in Eel Leptocephali: An Adaptation for Life in the Ocean Surface Layer	10:15 AM
10:30 AM	C.O'Connell A Quantitative Analysis Examining the Effects of Permanent Nightclosures on Recreational and Longline Fisheries	J Meik Phenotypic Evolution in Insular Speckled Rattlesnakes ( <i>Viperidae: Crotalus mitchelli</i> )	K Allen Two Genetically Distinct Lineages of the Shortfin Mako ( <i>Isurus paucus</i> )	T Hurst Ontogenic, Thermal, and Cohort-specific Effects on Growth Rates of Early Life Stages of Pacific Cod	10:30 AM
10:45 AM	M Dymon Comparing Distributions of Sharks among Estuarine, Coastal and Oceanic Regions of the Gulf of Mexico	E Heikkala Evaluation of Historic Taxonomic Affiliation and Population Genetic Parameters of Rapid Frogs Using Archival Samples	N Phillips Conservation Genetics of Pristis Species in Australian Waters	M Busby Identification of Larvae and Early Juveniles of Pricklebacks (Percomorphs: Stichaeidae) in the Northeastern Pacific Ocean and Bering Sea	10:45 AM
11:00 AM	K Andrews Calculating Shark Bycatch in the Gulf of Mexico Shrimp Trawl Fishery: A Collaborative Approach	A Reza Conservation Assessment and Prioritization of the Tropical Forest Habitats of Bangladesh: A Look on Amphibians and Reptiles	C Testerman Population Genetic Structure of the Night Shark ( <i>Carcharhinus signatus</i> ) in the Western Atlantic: Assessed Using Nuclear Microsatellite Markers and Mitochondrial Control Region Sequences	D Robert Importance of Prey Field Definition for the Assessment of the Relationship Linking Year-Class Strength to Prey Availability during the Early Larval Stage of Maine Fish	11:00 AM
11:15 AM	J Fernandez de Carvalho The National Sawfish Encounter Database: Integration, Maintenance and Growth	J Mahaffy Historic Extensions of Rattlesnake Ranges (Timber Rattlesnake <i>Crotalus tigris</i> and King Snakes <i>Liasis fuscus</i> ) from Five Counties in South-eastern and South-central Minnesota	A. Stow Patterns of Dispersal and Genetic Variation in the Sand Tiger Shark ( <i>Carcharias taurus</i> )	J Keane EAC, Variability and Spawning of Small Pelagic Fishes: Inferences from Larval Dynamics and Oceanography	11:15 AM
11:30 AM	D McGowan Evolution of the Recreational Shark Fishery of Florida, 1981-2008	K Kozak Phylogenetic Niche Conservatism Drives High Montane Species Richness in Appalachian Salamanders	K Feldheim Long-term Phylogeny and the First Case of Natal Homing in a Chondrichthyan Fish	D Richardson Does Haddock Egg Predation Decouple the Abundance of Atlantic Herring Larvae from Spawning Stock Biomass on Georges Bank?	11:30 AM
11:45 AM	M Mendoza-Carranza Does Southern Stingray <i>Dasyatis americana</i> Sustain the Artisanal Elasmobranch Fisheries in Western Campeche Bank?	L Lawson - GDM Hyperolus Diversification in Fragmented Montane Forests: An Investigation into the Accumulation and Persistence of Biodiversity in the Eastern Arc Mountains of Tanzania	D Chapman Mating System and Paternity in an Intrauterine Cannibal The Sand Tiger Shark	C Grimes The Role of Oceanographic Features in the Reproductive Strategies of Some Scorboid Fishes	11:45 AM
12:00 PM	GH = ASH Stoyer General Herpetology	LUNCH	LUNCH	J O'neil Larvae of zeiform fishes	12:00 PM
		GDM = ASH Stoye Genetics, Development & Morphology	SR = ELHSLFC Sally Richardson Award		





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**SATURDAY, 25 JULY, Afternoon Sessions**

ROOM	Parlor ABC AES Systematics/ AES General Ichthyology	Galleria North Herp Genetics	Galleria South Hubbs Symposium	Broadway I & II ELHS/LFC Ecology I	ROOM SESSION/ SYMPOSIUM
<b>MODERATOR</b>	<b>D EBERT</b>	<b>MI DOUGLAS</b>	<b>R CASHNER</b>	<b>W EKAU</b>	<b>MODERATOR</b>
1:30 PM	K Claeson - GI Phylogenetic Systematics of the Electric Rays (Torpediniformes: Batoidea)	MI Douglas ESUs, MUs, DPSs, Mesas and Biodiversity Conservation	G Powell Graduate School in the 1970's with Professor Clark Hubbs.	L Tomaro - SR Survival of Mid-upper Columbia River Spring Chinook Salmon. The effects of Size and Growth during Migration	1:30 PM
1:45 PM	M Carvalho A Systematic Overview of the Taxonomically Diverse and Evolutionarily Complex Neotropical Freshwater Stingrays (Chondrichthyes: Myliobatiformes: Potamotrygonidae)	T Devitt Simultaneous Analysis of Individual Spatial and Genetic Data from a Hybrid Zone between Terminal Forms of the Salamander Ring Species <i>Ensatina eschscholtzii</i>	FD Martin Amazon molly: Is it An Invasive Species?	Y Fukunishi - SR Comparison of UV-B Tolerance among Wild and Hatchery-reared Juveniles in Black Sea Bream ( <i>Acanthopagrus schlegelii</i> ) and Red Sea Bream ( <i>Pagrus major</i> )	1:45 PM
2:00 PM	D Ebert Resurrection and Redescription of <i>Squalus suckleyi</i> (Gard., 1854) from the North Pacific, with comments on the <i>Squalus acanthias</i> subgroup (Squaliformes: Squalidae)	K Klamnec-Tjurczy Expression of Olfactory and Pheromone Receptors in a Salamander, <i>Plethodon stermani</i>	R Edwards Selected life history attributes of the San Felipe gambusia, <i>Gambusia clarkhubbsi</i> , in San Felipe Creek, Texas	A Shanks Annual Recruitment of Three Species of Tidepool Fishes is Driven by Variation in Springtime Coastal Hydrodynamics	2:00 PM
2:15 PM	K James A New Species of Chimaeroid, <i>Hydrolagus</i> sp. nov. (Chondrichthyes: Chimaeriformes: Chimaeridae) from the Eastern North Pacific	R Williams Reproductive Success and Sexual Selection in Wild Tiger Salamanders ( <i>Ambystoma tigrinum</i> )	F Pezold Genetic Variation in The Genus <i>Kribia</i> (Eleotridae) in Guinea, West Africa	J Krug - SR A Test for Correlated Recruitment of Predator and Prey Species of Kelp Forest Fishes	2:15 PM
2:30 PM	J Kemper Chimaera sp. nov., A New Species of Chimaerid from Southern Africa (Chondrichthyes: Chimaeriformes: Chimaeridae)	A Schrey Effects of a Managed Burn Regime on Florida Sand Skink Anzures with <i>Microsatellite</i> Loci	D Hendricksen The Fishes of Texas Project: Clark Hubbs' Legacy Continues	R Borges Tidal and Vertical Distribution of Nearshore Fish Larval Assemblages at a Temperate Rocky Shore	2:30 PM
2:45 PM	E Grogan Live Birth and Superfertilation in a 318 Million Years Old Carboniferous Chondrichthyan	A Fox Genetic Relatedness in the Sand Skink, <i>Plestiodon reynoldsi</i> , in the Scrub of Central Florida	W Matthews Clark Hubbs' Contributions to Ichthyology in Oklahoma	G Aceves-Molina Mathematical Characterization of Spawning and Larval Environment of Small Pacific Fishes in the Gulf of California	2:45 PM
3:00 PM	R Lund Helicoplon and Tooth Whorls in Chondrichthyes	A Leibman - GDM Natal Beach Contributions to a Southeastern United States Subadult Loggerhead Sea Turtle ( <i>Caretta caretta</i> ) Feeding Assemblage	E Marsh-Matthews Clark Hubbs' Contribution to Fish Life History Ecology	A Faria - SR Ontogeny of Swimming Behavior of Two Temperate Reef Fishes, <i>Lepidogaster lepidogaster</i> and <i>Lepidogaster purpurea</i> (Gobiesocidae)	3:00 PM
3:15 PM			S Stevenson Travels with Clark: Perspectives on the Origin of Lore	E Inda-Diaz - SR Three-dimensional Distribution of Fish Larvae Around a Surface Front in the Gulf of California	3:15 PM
3:30 PM			B Birkhead Comparisons of stream fishes in North Central Argentina and North Central Mexico following a 40-year hiatus	F Hernandez Jr Jellyfish Predation on Ichthyoplankton in the Northern Gulf of Mexico: Estimating the Impact on Recruitment and Fisheries	3:30 PM
3:45 PM			Hubbs Family		3:45 PM
4:00 PM					4:00 PM
4:15 PM					4:15 PM
4:30 PM					4:30 PM
4:45 PM					4:45 PM
5:00 PM					5:00 PM
5:30 PM					5:30 PM
6:00 PM					6:00 PM
<b>GI = ASIH Stoye General Ichthyology</b>					
<b>GDM = ASIH Stoye Genetics, Development &amp; Morphology</b>					
<b>SR = ELHS/LFS Sally Richardson Award</b>					
<b>POSTER SESSION II</b>					
<b>Exhibit Hall</b>					

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**SUNDAY, 26 JULY, Morning Sessions**

ROOM SESSION/ SYMPOSIUM	Grand Ballroom I	Grand Ballroom II	Pavilion East	Pavilion West	ROOM SESSION/ SYMPOSIUM
<b>MODERATOR</b>	<b>Live Bearing Fish Symposium</b>	<b>Turtle Symposium</b>	<b>Fish Ecology II</b>	<b>Fish Phylogeography</b>	<b>MODERATOR</b>
8:00 AM	<b>I SCHLUPP</b> Schlupp/Johnson Introduction	<b>B BURY</b> B Bury Ecology And Conservation Of Tortoises And Freshwater Turtles: What Are The Challenges Ahead?	<b>S ROSS</b> T Sutton Deep-Sea Fishes of the Mid-Atlantic Ridge: Trophic Structure and Interactions	<b>T TURNER</b> M Kopeny Determination of the Native Range of the Orangefin Madtom ( <i>Noturus gilberti</i> )	8:00 AM
8:15 AM	D Blackburn Evolution of Vertebrate Viviparity and Matrotrophy: An Overview	D Germano Growth, Population Structure, and Reproduction of the Western Pond Turtle Across Its Range	S Ross Species Composition and Distributions of Mesopelagic Fishes Over the Slope of the North-central Gulf of Mexico	M While Intraspecific Phylogeography of the Sauger	8:15 AM
8:30 AM	E Marsh-Matthews Incipient Matrotrophy: Potential Roles in Offspring Provisioning in Leptocephalic Poeciliids	A Bennett The Effects of Habitat Fragmentation on Demography and Gene Flow in Northern Map Turtles ( <i>Graptemys geographica</i> ) on the Trent-Severn Waterway, Ontario, Canada	J Drazen Bypassing the Abyssal Benthic Food-Web: Macroinvertebrate Diet in the Eastern North Pacific Inferred from Stomach Contents, Stable Isotopes, and Fatty Acid Biomarkers	M Hayes - GI Phylogeography of <i>Percina nigrofasciata</i> (Percidae)	8:30 AM
9:00 AM	M Belk Life History Variation Within Poeciliid Species Does Not Predict Variation Among Closely Related Species	M Rasmussen Patterns of Maternal Investment in Spotted Turtles ( <i>Clemmys guttata</i> ): Implications for Trade-offs, Scale of Analyses, and Incubation Substrates	C Anderson Spatial Distributions of Bathyepelagic Fishes along the Mid-Atlantic Ridge	T Turner Phylogeography of the Orangebelly Darter	9:00 AM
9:15 AM	J Zuniga-Vega Reviewing the Causal Hypothesis for the Evolution of Superfecundation in Livebearing Fishes	J Litvius Stochastic Population Viability Analyses for an Endangered Freshwater Turtle, <i>Clemmys guttata</i>	A Quattinni Fish-Habitat Relationships at a Deepwater Coral Mound off North Carolina, USA	G Smith Cenozoic History of Western North American Freshwater Fishes	9:15 AM
9:30 AM	<b>BREAK - Exhibit Hall</b>				9:30 AM
<b>SESSION/ SYMPOSIUM</b>	<b>Live Bearing Fish Symposium</b>	<b>Turtle Symposium</b>		<b>Fish Phylogeography</b>	<b>SESSION/ SYMPOSIUM</b>
<b>MODERATOR</b>	<b>I SCHLUPP</b> M Placek	<b>B BURY</b> W Selman		<b>P CHAKRABARTY</b> J Albert	<b>MODERATOR</b> 10:00 AM
10:00 AM	Using Mollies as a Model for the Evolution of Mating Signal Divergence	The Pascagoula Map Turtle ( <i>Graptemys gibbosa</i> ): Overlooked, Declining, or Both?		Paleogeographic Dating Indicates Paleogene Origins for the Species-rich Amazonian Ichthyofauna	10:00 AM
10:15 AM	H Rodd Various Roles of Pigment-based Coloration in Guppies	G Johnston Ecology of Freshwater Turtles in a North Florida River: Spatial Variation in Assemblage Structure		G Seegert The Longitudinal Pattern of Various Fishes in the Ohio River	10:15 AM
10:30 AM	C Ghalambor Patterns of Divergence in Body Shape and Swimming Performance in Live-bearing Fish: A Model for Investigating Trade-offs in Adaptive Evolution	F Janzen Climate Change and Temperature-dependent Sex Determination in Turtles		J Eble - GDM Phylogeography of the Yellow Tang ( <i>Zebrasoma flavescens</i> ) Indicates a Hawaiian Origin and Dispersal to the West Pacific	10:30 AM
10:45 AM	B Langerhans Livebearing Fish as Models for the Study of Genital Evolution	R Vogt Nesting Strategies of Amazonian Freshwater Turtles		J Drew Multi-focus Biogeography of <i>Amblygobius</i> around the Evolution of Niamee Biodiversity in the Coral Triangle	10:45 AM
11:00 AM	F Garcia de Leon Morphological variation of <i>Poecilia mexicana</i> in Mexican populations			P Chakrabarty Blind Cave Fishes from Opposite Ends of the Indian Ocean Reveal an Ancient Gondwanan Connection	11:00 AM
11:15 AM	M Mateos Phylogeography of Poeciliids in Western Mexico			A Krutziger Long-term Isolation and Genetic Divergence Between Populations of the Threatened Rough Sculpin ( <i>Cottus asperimus</i> ) Separated by Hat Creek Fault	11:15 AM
11:30 AM	J Trexler Population Dynamics and Control of Local Density of Three Poeciliid Species in a Dynamic Landscape	S Doody Pig-nosed Turtles and their Importance to Diverse Communities in Australia			11:30 AM
11:45 AM	J Rasmussen Body Shape Variation of a Neotropical Livebearer in Relation to Predation Environment and Selected Intrinsic Factors				11:45 AM
12:00 PM	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>
			GI = ASIH Stoye General Ichthyology	GDM = ASIH Stoye Genetics, Development & Morphology	12:00 PM

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**SUNDAY, 26 JULY, Morning Sessions**

ROOM SESSION/ SYMPOSIUM MODERATOR 8:00 AM	<i>Parlor ABC</i> General Ichthyology C LOWE	<i>Galleria North</i> HL Graduate Research Award I G PERRY	<i>Galleria South</i> AES Physiology J GELSLEICHTER	<i>Broadway I &amp; II</i> ELHS/LFC Hypoxia L Ciannelli/D Breitburg	ROOM SESSION/ SYMPOSIUM MODERATOR 8:00 AM
	E Wiley Serial Homology and Teleost Epurals		The Spine of Atlantic Sloggy, <i>Dasgarrus sabinae</i> : Venom Toxicity and Role in Life History J Gelsleichter		
8:15 AM	B Froschke - GI Future Fishery? Is there Still Hope for the Future Status of the Southern Flounder ( <i>Paralichthys lethostigma</i> ) Fishery? J Orr		Toxicity of Polychlorinated Biphenyls in Atlantic and Gulf Populations of Juvenile Sharks		Hypoxia and Fish Early-life Stages: A Comparison between Human-enriched and Upwelling-driven Systems 8:15 AM
8:30 AM	C Taylor Skates of the Subgenus <i>Arctaraja</i> (Bathyraja: Rajidae): Morphological and Genetic Variation, New and Cryptic Species G Hoff	P Hampton Interspecific Prey and Predator Feeding Performance in Naticidae M Close	Assessing Fractionation Factors and Tissue Turnover Rates for Sharks	A Johnson - SR Effects of Hypoxia on Ichthyoplankton and Micronekton Communities Off the Oregon and Washington Coasts	8:30 AM
8:45 AM	C Lowe Skate Nursery Habitat in the Eastern Bering Sea	S McCracken Detection of Batrachochytrium dendrobatidis in Amphibians from the Forest Floor to the Upper Canopy of an Ecuadorian Amazon Lowland Rainforest S Spear	A Comparative Study of the Capacity for Aerobic and Anaerobic Metabolism in the Muscle Tissues of the Three Species of Thresher Shark (Family Alopiidae) J Mallard	L Lang The Effects of Hypoxia on the Vertical Distribution of Larval Fishes in the Northern Gulf of Mexico	8:45 AM
9:00 AM			Study Of The Velvet Belly Lantern Shark, <i>Etmopterus spinax</i> , Luminous System	V Buehler Hypoxia in a Changing World - What Can We Learn from Amazon Fishes	9:00 AM
9:15 AM			Colonization and Gene Flow of Coastal Tailed Frogs ( <i>Ascaphus truei</i> ) at Mount St. Helens: Population Response across Disturbance Gradients	K Craig Developing Mechanistic Links Between Hypoxia and Juvenile Fish Bycatch in the Gulf of Mexico	9:15 AM
9:30 AM		<b>BREAK - Exhibit Hall</b>		W Etkau A Change in the Larval Fish Community of the Northern Benguela Induced by the Extension of the Oxygen Minimum Layer	9:30 AM
9:45 AM					9:45 AM
SESSION/ SYMPOSIUM MODERATOR 10:00 AM	Fish Conservation I C TAYLOR R Morgan	Herp Development & Morphology C STAYTON L Regula Meyer - GH	AES Ecology II J BIZZARO J Bizzarro	ELHS/LFC Ecology II S ACEVEDO M Kuroki	SESSION/ SYMPOSIUM MODERATOR 10:00 AM
10:15 AM	C Taylor Effects of Road Salt on Fish Assemblages in Maryland A Tale of Two Rivers: Differential Change to Fish Assemblages in the Upper Tombigbee River and the Noxubee River (Mississippi) after Fragmentation by the Tennessee-Tombigbee Waterway B Chernoff	R Andrews Rates of Development and Embryonic Diapause in Chameleons W Du Determinants of Incubation Period: Do Reptilian Embryos Hatch after a Fixed Total Number of Heartbeats? P Nicodemo	Biology and Distribution of the Spill Sawshark, <i>Plicenturus warreni</i> Regan 1906, off Southern Africa M Espinoza Spatial and Temporal Patterns of Elasmobranchs in a Newly Restored Accessible Habitat M Aernian	The Role of the Leptocephalus Larva in the Evolution of Arguloid Oceanic Migrations E Morote - SR Feeding Ecology of Two Hake Larvae: <i>Merluccius merluccius</i> from NW Mediterranean and <i>Merluccius gyll</i> from Central Chile: Ontogeny versus Environmental conditions E Laural	10:15 AM
10:30 AM	B Fluker - C River of the Undamed: Recovery of the Eightmile River after Dam Removal B Fluker - C	Dierman and Biomechanical Evolution of Eurycea aquatica and Eurycea cingulata C Stayton	An Integrative Approach to Evaluating the Ecological Role of Spotted Eagle Rays ( <i>Aetobatus narinari</i> ) in Bermuda J Imhoff Evidence Of A Winter Refuge For Juvenile Bull Sharks ( <i>Carcharhinus leucas</i> ) in the Northern Banana River, Florida, USA J Froeschke	An Experimental Examination of Temperature Interactions in the Oscillation-control and Mismatch Hypothesis for Pacific Cod Larvae P Munday	10:30 AM
10:45 AM	R Arnold - C Phylogenetics and Conservation of Frogfishes (Antennariidae: Lophiiformes) A Hearn	The Morphological and Biomechanical Evolution of Emydoid Turtle Shells M Alcorn	Habitat Selection Patterns of Sharks in Northwestern Gulf of Mexico J Szczepanski	Ocean Acidification Affects Larval Growth and Olfactory Discrimination of a Marine Fish S Nakayama - SR	10:45 AM
11:00 AM			Feeding Habits of Skates and Rays in Delaware Bay: An Analysis of Resource Usage and Comparison to Batoids of Narragansett Bay D Bethea	Intraspecific Competition among Early Life Stages and the Optimal Spawning Strategy of Red Drum A Eiler - SR	11:00 AM
11:15 AM			Geometric Morphometrics Role in Phylogenetic Classification and Sexual Dimorphism Dynamics of <i>Eurycea aquatica</i> and <i>Eurycea cingulata</i> D Mahler - GDM	Abundance and Distribution of Larval Etlachon ( <i>Thaleichthys pacificus</i> ) in Bering Bay, Alaska in Relation to Physical Factors E Gonçalves	11:15 AM
11:30 AM			Convergence and Parallelism in the Evolution of Anolis Tail Length C = ASIH Stoye Conservation	Interannual Fluctuations in the Structure of Temperate Reef-Fish Larval Assemblages at the Arrábida Marine Park M Heithaus	11:30 AM
11:45 AM			Stable Isotopic Analysis Reveals Individual Variation in Feeding Behavior of Juvenile Bull Sharks GDM = ASIH Stoye General Ichthyology GH = ASIH Stoye General Herpetology		11:45 AM
12:00 PM	LUNCH	LUNCH	LUNCH	LUNCH	12:00 PM

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**SUNDAY, 26 JULY, Afternoon Sessions**

ROOM	Grand Ballroom I	Grand Ballroom II	Pavilion East	Pavilion West	ROOM
SESSION/ SYMPOSIUM	Live Bearing Fishes Symposium	Turtle Symposium	Cypriniformes Tree of Life	Fish Conservation II	SESSION/ SYMPOSIUM
MODERATOR	J JOHNSON	D GERMANO	H BART	T DONALDSEN	MODERATOR
1:30 PM	T Hrbek	B Hageny	K Tang	S Friederichs	1:30 PM
1:45 PM	Phylogenetic Relationships of the Poeciliinae (Cyprinodontiformes)	A Landscape Genetic Approach to Identifying Connectivity for the Mojave Desert Tortoise	Cypriniformes Tree of Life: Molecular Phylogeny of the Earth's Most Diverse Clade of Freshwater Fishes	Measuring Temporal, Spatial and Vertical Movements of Pacific Salmon (Istophorus platyterus) in the Eastern Tropical Pacific Using Pop-up Archival Tags	1:45 PM
2:00 PM	G Rosenthal	P Medica	K Saiboh	T Donaldson	2:00 PM
2:15 PM	Mate Choice and Evolutionary Genetics in Xiphophorus Hybrid Zones	Long-term Growth and Natural History of a Population of Desert Tortoises (Gopherus agassizii) in Southern Nevada	Cypriniformes Tree of Life: Nuclear and Mitochondrial DNA Analyses of Tetraploid Cobitis bwaie and C. striata Indicates Extensive Past Hybridization Events	Climate Change, Ocean Acidification, and Extinction Risks in Reef Fishes	2:15 PM
2:30 PM	M Tabler	S Conn	H Bart	M Steele	2:30 PM
2:45 PM	J Johnson	T Esque	L Yang - GI	J McDowell	2:45 PM
3:00 PM	O Dominguez	L Harden	M Hirt - GI	L Sorenson - C	3:00 PM
3:15 PM	D Everhardt	B Horne	A Simons	K Martin	3:15 PM
3:30 PM	I Schlupp	B Horne	R Mayden	D Topping	3:30 PM
3:45 PM	S Rages	S Rages	M Doosey - GI	Use of Ultrasonic Telemetry Methods to Estimate Mortality Rates, Residency, and Movement Patterns of Red Snapper, Lutjanus campechanus	3:45 PM
4:00 PM	G Arratia	G Arratia	S Rages	Development of Molecular Markers for the Discrimination of Atlantic and Indo-Pacific Populations of Istiophoridae Billfishes	4:00 PM
4:15 PM	J Engeman	J Engeman	G Arratia	Stock Assessment With Citizen Scientists: Trends and Trajectories for Populations of California Grunion	4:15 PM
4:30 PM	J Engeman	J Engeman	J Engeman	Use of Ultrasonic Telemetry Methods to Estimate Mortality Rates, Residency, and Movement Patterns of Red Snapper, Lutjanus campechanus	4:30 PM
5:00 PM	J Engeman	J Engeman	J Engeman	Development of Molecular Markers for the Discrimination of Atlantic and Indo-Pacific Populations of Istiophoridae Billfishes	5:00 PM
5:30 PM	J Engeman	J Engeman	J Engeman	Stock Assessment With Citizen Scientists: Trends and Trajectories for Populations of California Grunion	5:30 PM
6:00 PM	J Engeman	J Engeman	J Engeman	Use of Ultrasonic Telemetry Methods to Estimate Mortality Rates, Residency, and Movement Patterns of Red Snapper, Lutjanus campechanus	6:00 PM
7:00 PM	J Engeman	J Engeman	J Engeman	Development of Molecular Markers for the Discrimination of Atlantic and Indo-Pacific Populations of Istiophoridae Billfishes	7:00 PM
8:00 PM	J Engeman	J Engeman	J Engeman	Stock Assessment With Citizen Scientists: Trends and Trajectories for Populations of California Grunion	8:00 PM
<b>POSTER SESSION III</b>					
<b>Exhibit Hall</b>					
GI = ASH Stoye General Ichthyology      C = ASH Stoye Conservation					

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**SUNDAY, 26 JULY, Afternoon Sessions**

ROOM	SESSION/ SYMPOSIUM	Parlor ABC	Galleria North	Galleria South	Broadway I & II	ROOM
		<b>NIA Student Paper Award</b>	<b>HL Graduate Research Award II</b>	<b>General Herpetology</b>	<b>ELHS/LFC Ecology III Condition</b>	
	<b>MODERATOR</b>	<b>J BASKIN</b>	<b>H HEATWOLE</b>	<b>R CLARK</b>	<b>L Copeman/B Laurel</b>	<b>MODERATOR</b>
1:30 PM		<b>A Pease</b> Structure and Morphological Diversity of Stream Fish Communities along a Longitudinal Fluvial Gradient in the Rio Grijalva Basin, Mexico	<b>E Broytes</b> Diamondback Terrapins ( <i>Malaclemys terrapin</i> ) Of The Ashley River: Estimated Population Size, Sex Ratio, and Distribution	<b>G Perry</b> "Filling the gap": Improving Education on the Ethics of Animal Use in Field Biological Research	<b>S Acevedo</b> The Vertical and Horizontal Distribution of Fish Larvae in Central Bass Strait, South-Eastern Australia	1:30 PM
1:45 PM		<b>G Mattox</b> Phylogenetic Study of the Characidae (Ostariophysi, Characiformes, Characidae): Preliminary Results	<b>G Shillinger</b> Satellite Tracking and Remote Sensing Describe Leatherback Movements and Distribution within the Equatorial and South Eastern Pacific	<b>J Synowski - EE</b> Discrimination of Offspring by Indirect Recognition in an Egg-Feeding Dendrobated Frog ( <i>Oophaga pumilio</i> )	<b>A Sreenivasan</b> Differences between Observed Growth and a Physiological Growth Index (RNA:DNA Ratio) in Larval Pacific Cod ( <i>Gadus macrocephalus</i> ) and Walleye Pollock ( <i>Theragra chalcogramma</i> ) at Different Temperatures	1:45 PM
2:00 PM		<b>J Muriel-Cunha</b> Tales from the Underground Amazon: Diversity and Evolution of <i>Pheatochilus</i> (Sturliiformes, Ostariophysi)	<b>A Coleman</b> Diamondback Terrapin Hatching Orientation Behavior: To Sea or Not To Sea? That Is The Question.	<b>M Garson</b> Different Strokes for Different Folks: Signaling Zebra-tailed Lizards ( <i>Callisaurus draconoides</i> )	<b>R Heintz</b> Growth and Energy Allocation in Larval Pollock ( <i>Theragra chalcogramma</i> ) from the Bering Sea	2:00 PM
2:15 PM		<b>L Watson</b> Age and Growth of the Giant Arapaima in South-western Guyana	<b>L Neuman-Lee</b> Examining the Effects of Atrazine on Embryos of Turtles from Two Deeply Divergent Cryptodiran Families (Emydoidea and Trionychidae)	<b>L Bonachea</b> Predation Risk Influences the Expression of Male Choice in Tungara Frogs: <i>Physalaemus pustulosus</i> Implications for Sexual Selection	<b>D Stormer - SR</b> Cohort Structure, Growth, and Condition of Juvenile Bluefish <i>Pomatomus saltatrix</i> in the Hudson River Estuary, New York	2:15 PM
2:30 PM		<b>M Rocha</b> Two Putative New Syntopic Species of <i>Phreatobius</i> Goeldi (1905) From Aripuanã Basin, Amazonas, Brasil (Sturliiformes: Heptapteridae)	<b>K Miller</b> Maintaining Genetic Diversity in Reintroduced Populations of Skinks and Tuatara	<b>C Richards-Zawacki</b> Coloration as a Pre-mating Barrier to Reproduction in the Strawberry Poison Dart Frog ( <i>Oophaga pumilio</i> ): Have differences in female preference lead to assortative mating?	<b>K McMahon - SR</b> Patterns in Carbon Isotope Fractionation of Amino Acids Between Diet and Consumer in a Model Fish Species	2:30 PM
2:45 PM		<b>A Smith</b> Variation in the Impact of Larval History on Survival	<b>M Eckstut</b> Uniform Bisexuals and Variable Unisexuals: Morphological Variation in the Nactus <i>pelegicus</i> Complex (Reptilia: Gekkonidae) on Tanna Island, Vanuatu	<b>R Lombard</b> Mirror Self-Recognition in Chelonians	<b>D Johnson - SR</b> Quantifying Genetic and Environmental Variation in Larval Quality for a Marine Fish	2:45 PM
3:00 PM		<b>A Domingo</b> A Missing Link in Population Biology Of Reef Fishes: Molecular Ecology of Larval Dispersal in Gobies	<b>C Linkem</b> Systematics of Philippine Skinks in the Genus <i>Sphenomorphus</i> (Reptilia: Scincidae: Lygosominae)	<b>K Hume - EE</b> Anti-predator Behavior and Activity Budgets in Schooling vs. Non-schooling Tadpoles	<b>M Davis</b> Reflex Impairment is an Index for Larval and Juvenile Fish Vitality and Mortality Potential	3:00 PM
3:15 PM		<b>R Javonillo</b> Evolution of Reproductive Novelities among Characid Fishes (Teleostei: Ostariophysi) as Revealed by an Emergent Phylogenetic Signal In Molecular Data	<b>R Lovich</b> Mitochondrial Evolution and Phylogeography of the Endangered Arroyo Toad ( <i>Anaxyrus callifrons</i> )	<b>R Herman</b> Tail Autotomy and its Effects on Locomotion in the Northern Dusky Salamander	<b>L Copeman - SR</b> Increased Terrestrial Dietary Input and Decreased Lipid Storage in Juvenile Cod ( <i>Gadus morhua</i> ) during Settlement into Eelgrass Habitat	3:15 PM
3:30 PM		<b>E Harrison</b> The Invasive <i>Cichlasoma urophthalmus</i> (Mayan cichlid) in the Florida Everglades	<b>G Pauly</b> Discordance between Mitochondrial and Nuclear Gene Phylogenies and its Impacts on the Systematics of the <i>Bufo boreas</i> Species Group	<b>F Vargas Salinas</b> Abiotic Noise Explains Intraspecific Divergence in Advertisement Calls of <i>Ranitomeya bomabates</i> (Anura: Dendrobatiidae)	<b>E Caldane</b> Potential Non-lethal Methods for Estimating Condition and Growth Rates in Juvenile Fish	3:30 PM
3:45 PM			<b>J McVay</b> Evaluating methods of estimating species trees: an empirical approach using the <i>Thamnophiini</i> Amphibians	<b>S Sessions</b> An Explanation for Missing Limbs in Deformed Amphibians	<b>J Gao - SR</b> Parental Contributions to Larval Growth in Atlantic Silversides: a Heritability Study	3:45 PM
4:00 PM					<b>R Brodeur</b> Lipids and Fatty Acids of Juvenile Salmon and their Prey in Coastal Waters	4:00 PM
4:15 PM					<b>C Chambers</b> A Method for Comparing Alternative Measures of Fish Condition and other Qualitative Indices	4:15 PM
4:30 PM					<b>J Govoni</b> Feeding on Protists and Particulates by the Leptocephal of the Worm Eels <i>Myrophis</i> spp. (Loken 1852) (Teleostei, Anguilliformes, Ophichthidae), and the Potential Energy Contribution of Large Aloricate Ciliates	4:30 PM
5:00 PM					<b>ELHS Business Meeting</b>	5:00 PM
5:30 PM					<b>5 - 6 p.m.</b>	5:30 PM
6:00 PM						6:00 PM
7:00 PM						7:00 PM
8:00 PM					<b>SR = ELHS/LFC Sally Richards on Award</b>	8:00 PM
<b>POSTER SESSION III</b>						
<b>Exhibit Hall</b>						
<b>ASIH Business Meeting</b>						
<b>6 - 8 p.m.</b>						





2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**Monday, 27 JULY, Morning Sessions**

ROOM	Parlor ABC	Galleria North	Galleria South	Broadway I & II	ROOM
SESSION/ SYMPOSIUM	Fish Genetics II	Herp Physiology	Fish Morphology & Physiology		SESSION/ SYMPOSIUM
MODERATOR	D PORTNOY	A BRONOKOWSKI	D HULSY		MODERATOR
8:00 AM	C Stepien Invasion Genetics of the Round Goby ( <i>Neogobius melanostomus</i> ): Founding Sources, Spatial Patterns, and Temporal Changes	Z Kohl - PPE Are Large RBCs Indicative of Decreased Vascular Resistance? A Test of the Snyder-Sleator Hypothesis.	R Carlson Kinematics and Performance Limits of Four Species of Etheostoma Daniers (Percidae: Etheostominae) During Benthic Station-Holding		8:00 AM
8:15 AM	D Portnoy Linkage Mapping in the Red Drum, <i>Sciaenops ocellatus</i>	S Beaupre On Estimating the Cost of Growth in Timber Rattlesnakes ( <i>Crotalus horridus</i> ): Feeding Trials, Field Metabolism, and the Role of SDA	C Handelman The Shortest Distance between Two Points: Do different approaches to Geometric Morphometrics Produce Different Results?		8:15 AM
8:30 AM	B Keck - GDM Information in the Gene Trees of Introgressed Genomes: Sweeps, Zones, and Founder Effects.	A Southwood Temperature Effects on Metabolic Enzyme Activity in Muscle Tissue of Diamondback Terrapins ( <i>Malaclemys terrapin</i> )	E Hassell Male and Female Brachyraphis rhizophora Show Different Ontogenetic Morphological Responses to Predator Regime		8:30 AM
8:45 AM	T Mäkinen Molecular Clocks and the Timing of Ostariophysan Radiations	A Rosenblatt Seasonal Salinity Variability and its Impacts on Alligator Behavior in the Florida Coastal Everglades	J Bruner Spreitzer Vertebrae, A New Unreported Character for Esox (Esoxidae, Esociformes).		8:45 AM
9:00 AM	V Buonaocorsi Molecular Signals of Natural Selection in <i>Sebastes chrysomelas</i> and <i>S. carnatus</i>	M McElroy - PPE Comparative Thermal Ecology and Physiology of two Cryptic Skinks on Mo'orea, French Polynesia	D Hulsey Comparative Lower Jaw Evolution in Cichlid Adaptive Radiations		9:00 AM
9:15 AM	J Hargrove Using Polymerase Chain Reaction to Aid Visual Analysis of French Grunt Stomach Contents		A Ward Fin Reduction and Loss in Ostariophysan Fishes		9:15 AM
9:30 AM	<b>BREAK - Grand Ballroom Foyer</b>				9:30 AM
SESSION/ SYMPOSIUM	Fish Behavior	Herp Ecology	Fish Morphology & Physiology		SESSION/ SYMPOSIUM
MODERATOR	S O'STEEN	D MARSH	K MARTIN		MODERATOR
10:00 AM	S O'Steen Does Suppy Courtship Locomotion Honestly Indicate Performance, and Do Females Care?	D Marsh Season and Size-specific Demography of a Terrestrial Salamander	I Kaatz Sound Producing vs. "Silent" Catfish Families: Differences in Pectoral Spine Length, Ornamentation and Dorsal Process Surface Morphology		10:00 AM
10:15 AM	K Dammerman Substrate Color Preference and Adaptive Coloration in Two Populations of Freshwater Coastrange Sculpin	M Gifford Competition, Physiological Limitation, and the Impact of Climate Change on the Distribution and Abundance of Montane Salamanders	K Cole Reproductive Morphology among Hermaphroditic Goby Fishes: Insights into Phylogeny and Evolution		10:15 AM
10:30 AM	M Adreani Reduced Fertilization Rate in the Presence of Steak Spawners in the Hermaphroditic Seabass, <i>Serranus subligatus</i>	S Welch Crayfish Burrow Use by <i>Herpeliolaima</i>	L Hernandez Untangling the Palatal Organ: Ontogeny and Evolution of a Novel Cypriniform Structure		10:30 AM
10:45 AM	C Mireles Petroleum Platforms as Fisheries Habitat: Using Acoustic Telemetry to Investigate How Shallow Occurring Nearshore Reef Species Utilize Deep Offshore Petroleum Platforms in Southern California	A Curtis Modeling Detection Probabilities and Occupancy Estimates of Ambystomatid Salamanders	K Staab Morphological and Kinematic Variation in Upper Jaw Protrusion in Cypriniform Fishes		10:45 AM
11:00 AM	Z Benzaken The Tale of the Two Shoals: How Individual Experience Influences Shoal Behaviour	N Burgmaier Movement Patterns, Habitat Use, and Home Range Size in Eastern Hellbenders	C Kenaley - GDM From Red to Blue, and Back Again: The Evolution of Highly Adaptive Visual Systems in the Lightfishes (Teleostei: Stomiiformes)		11:00 AM
11:15 AM		J Lefebvre Does Size Matter? Sexual Size Dimorphism in three populations of Blanding's Turtles ( <i>Emydoidea blandingii</i> ) in Nova Scotia	B Clemens Migration and Maturation Characteristics of Adult Pacific Lamprey, <i>Entosphenus tridentatus</i> : Do Warm Summer Temperatures Act as a Controlling or a Selecting Factor?		11:15 AM
11:30 AM		L Dixon False Map, Spiny Softshell and Smooth Softshell Turtles Nest and Nest-site Habitat Characteristics Along the Lower Stretch of the Missouri National Recreation River in South Dakota	Z Ruddy - PPE The Role of Handling Stress in the Survival of Hatchery-Reared Spotted Seatrout ( <i>Cynoscion nebulosus</i> ) When Subjected to a Predator		11:30 AM
11:45 AM		T Radzko Overwintering Ecology of Gopher Tortoises in Southern Mississippi	J Barreda - PPE A Comparative Study of Thermal Tolerance in Air and Water for Five Species of Indo-Pacific Air-Breathing Fishes		11:45 AM
12:00 PM	LUNCH	LUNCH	LUNCH	LUNCH	12:00 PM
GDM = ASIH Stoye Genetics, Development & Morphology					
PPE = ASIH Stoye Physiology & Physiological Ecology					

2009 Joint Meeting (JMIH), Portland, Oregon  
**BREAK-OUT SESSIONS AT A GLANCE**  
**Monday, 27 JULY, Afternoon Sessions**

ROOM	Grand Ballroom I	Grand Ballroom II	Pavilion East	Pavilion West	ROOM
SESSION/ SYMPOSIUM	Darwin Symposium	Herp Conservation III	Snake Ecology	Fish Ecology III	SESSION/ SYMPOSIUM
MODERATOR	T BERRA	P HENRY	P RUTHERFORD	M PETERSON	MODERATOR
1:30 PM	M Landim Darwin in Brazil	P Henry Population Study of Diamondback Terrapins (Malaclemys terrapin) on a Marsh Island in the Chesapeake Bay.	K Wiseman Feeding Ecology of the California Kingsnake (Lampropeltis getula californicae)	J Turner Feeding Ecology of <i>Eleotris sandwicensis</i> and Xenocoerter (yelet) found in Hawaiian Archialine Ponds: A Possible Paradox	1:30 PM
1:45 PM	F Jenkins Darwin's Tangled Bank: Tiktaalik roseae and the Landmark Vertebrate Transition to Terrestrial Life	R Hogg Population Structure and Abundance of the Western Pond Turtle (Clemmys marmorata) in the Jenny Creek Watershed, Cascade-Siskiyou National Monument, Southern Oregon	R Clark Quantifying the Foraging Behavior of Ambush Hunting Snakes	T Lankford Fish Nursery Function of Ocean Surf-Zone Habitat: Response to a Human Disturbance Gradient	1:45 PM
2:00 PM	B Collette The Smithsonian and Darwin	M McCallum Predicted Climate Change May Spark Box Turtle Declines	H Lillywhite Prey Utilization of Neonatal Insular Cottonmouth Snakes: Is there an Evolved Prey Preference?	M Peterson Distribution and Habitat Characterization of the Saltmarsh Topminnow, <i>Fundulus jenkinsi</i> , Along the North-Central Gulf of Mexico	2:00 PM
2:15 PM	D Smith Darwin's Critics	K Haskett Population Dynamics of Texas Diamondback Terrapin located on Selected Estuarine Islands within Galveston Bay, Texas	P Rutherford Hibernation in Small-bodied Snakes in South-western Manitoba	M McRae Coexistence of Kuhlid fishes in the Hawaiian Islands is Facilitated by Differences in Juvenile Habitat Use	2:15 PM
2:30 PM	T Berra Closing	R Inman Predicting spring activity in desert tortoises ( <i>Gopherus agassizii</i> )	J Pierce Home Ranges and Movement Patterns of Louisiana Pine Snakes ( <i>Pluophis ruthveni</i> ) in Texas and Louisiana	T Duffy The Spatial Scale of Adaptive Variation in Temperature- Dependent Sex Determination in an Estuarine Fish, <i>Menidia menidia</i>	2:30 PM
2:45 PM		T Tuberville Mating System in a Gopher Tortoise Population Established through Multiple Translocations: Apparent Advantage of Prior Residence	P Gregory Working Towards the Matrix Matrix: Growth Curves for Grass Snakes	L Hice Latitudinal Variation in Atlantic Silverside Vertebral Number and the Adaptive Significance of Jordan's Rule	2:45 PM
3:00 PM					3:00 PM
<b>BREAK- Grand Ballroom Foyer</b>					
SESSION/ SYMPOSIUM	Herp Conservation III	Snake Ecology	H LILLYWHITE	Fish Ecology III	SESSION/ SYMPOSIUM
MODERATOR	S HEPPELL	K Buhlmann	J Waldron	C WORMALD	MODERATOR
3:30 PM	Reintroduction As A Conservation Tool For Blanding's Turtles	H Balbach Why Do We Translocate Species-at-Risk, and Do We Really Benefit the Species We Move?	S Mackessy Natural History and Den Site Fidelity of Prairie Rattlesnakes ( <i>Crotalus viridis viridis</i> ) in Northeastern Colorado	C Wormald Positive Effects of Group Living on Recruitment and Survival of a Harvested Coral Reef Fish	3:30 PM
3:45 PM		S Heppell Developing Models to Assess the Impacts of Fisheries Bycatch on Sea Turtle Populations	D Berder Population Characteristics and Diet of Western Massasauga in Central Kansas with Inferences from Stomach Contents and Stable Isotopes	J Morley Seasonal Changes in Prey Abundance and Temperature Dependent Capture Success affect Winter Feeding in Bluefish	3:45 PM
4:00 PM		L Weir Trends in Anuran Occupancy from Ten Northeast States	R Russell Multiple Road Effects on Amphibian Community Structure in Roadside Wetlands	J Turnure Effects of Reproductive Phenology on Habitat Use and Movement in Weakfish ( <i>Cynoscion regalis</i> ): Observations from a Small New Jersey Estuary Using Acoustic Telemetry	4:00 PM
4:15 PM		L Hazard Behavioral Aversion of Two New Jersey Amphibian Species to Road Deicers		M Buckhorn The Influence of Habitat and Exploitation on Reef Fish Assemblages	4:15 PM
4:30 PM				E Kahler Associations Between Marine Communities and Artificial and Natural Reefs of Maryland	4:30 PM
4:45 PM					4:45 PM
5:00 PM					5:00 PM