



Program Book
JMIH 2014

Hosted By
Tennessee Aquarium Conservation Institute
University of Tennessee at Chattanooga

This program book is current as of 20 June 2014. Any cancellations or changes received after this date will be posted outside of the session rooms and on the message boards located near the registration desk in the lobby of the Chattanooga Convention Center.



2014 Joint Meeting of Ichthyologists and Herpetologists 30 July – 3 August, 2014

Organizing Societies

American Elasmobranch Society 30th Annual Meeting



President: Christopher Lowe
Treasurer: Cathy Walsh
Secretary: Jennifer Wyffels
Editor and Webmaster: David Shiffman
Immediate Past President: Lara Ferry

American Society of Ichthyologists and Herpetologists 94th Annual Meeting



President: H. Bradley Shaffer
President Elect: Larry G. Allen
Past President: William J. Matthews
Prior Past President: Steven J. Beaupre
Treasurer: F. Douglas Martin
Secretary: Maureen A. Donnelly
Editor: Christopher Beachy

Herpetologists' League 72nd Annual Meeting



President: James Spotila
Vice-President: David M. Green
Treasurer: Meredith Mahoney
Secretary: John Herman
Publications Secretary & Webmaster: Ken Cabarle

Society for the Study of Amphibians and Reptiles (in conjunction with the International Society for the History and Bibliography of Herpetology) 57th Annual Meeting



President: Robert D. Aldridge
Immediate Past President: Joseph Mendelson, III
Treasurer: Ann V. Paterson
Secretary: Marion R. Preest
Publications Secretary: Breck Bartholomew

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Chattanooga Convention and Visitors Bureau

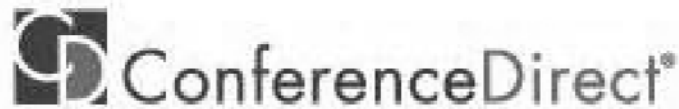


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A list of 2014 JMIH participants will be available on the website beginning 18 August 2014
<http://global.k-state.edu/conf/jointmeeting/>

Local Hosts

Anna George, Tennessee Aquarium Conservation Institute, LHC chair

Josh Ennen, Tennessee Aquarium Conservation Institute

Bernie Kuhajda, Tennessee Aquarium Conservation Institute

David Neely, Tennessee Aquarium Conservation Institute

Eric O'Neill, University of Tennessee at Chattanooga

Volunteers

Sarah Hazzard

Kathlina Alford

Heather Boyd

Louise McCallie

Lindsay White

Shawna Mitchell

General Meeting Information

Meeting Room Information

During presentations, please turn off all cell phones or set them to vibrate.

SSAR President's Travelogue – Banquet Room E, F & G

Plenary Session – Banquet Room E, F, & G

Beverage Breaks

Thursday, Friday, & Saturday, 7:00 a.m. – Lobby

Thursday, Friday, & Saturday, mid-morning – Exhibit Hall C & D

Thursday, Friday, & Saturday afternoon – Exhibit Hall C & D

Sunday – Lobby

Exhibits – Exhibit Hall C & D

Poster Presentations – Exhibit Hall C & D

Oral Presentations

Banquet Room E, Banquet Room F, Banquet Room G, Banquet Room H,

Banquet Room I, Banquet Room J, Meeting Room 4 & 5

Presentation Submission Room

Meeting Room 7

Speaker Prep Rooms

Meeting Room 8, Meeting Room 9, Meeting Room 10

AES Store – Meeting Room 2

SSAR/HL Live Auction Viewing Room – Meeting Room 3

SSAR Silent Auction – Lobby

ASIH Graduate Student Book Raffle – Lobby

SSAR/HL Live Auction – Banquet Room E, F, H & I

SSAR/HL Student Social – South Rotunda, Upper Level

Internet Access

A small Internet café is available in the lobby of the Chattanooga Convention Center near registration for JMIH participants. The café will be available from 7:00 a.m. – 5:00 p.m., Thursday, 31 July - Sunday, 3 August.

If you have your own laptop, there is free internet throughout the entire convention center and in all guest sleeping rooms of the Days Inn Rivergate, Chattanooga Marriott Hotel, and Sheraton Read House Hotel for all JMIH participants.

Registration Desk

The JMIH Registration Desk, located in the lobby of the Chattanooga Convention Center, is open from 7:00 a.m. – 5:00 p.m. Wednesday, 30 July – Sunday, 3 August. The Registration Desk is staffed to answer any questions you might have regarding the meeting.

Messages and Job Announcements

Message boards are located near registration in the lobby of the Chattanooga Convention Center. Participants may post messages for friends and colleagues. The registration staff will also post telephone and other messages on these boards. Urgent messages should be directed to the Chattanooga Convention Center at (423) 756-0001 during meeting hours. These will be relayed to meeting coordinators and posted for participants as soon as possible.

Job announcements or information about employment opportunities may be posted on the message boards as well.

Food and Beverage

Morning and afternoon beverage breaks will be served in the following locations:
Thursday, Friday, and Saturday 7:00 a.m. and Sunday a.m. and p.m. - Lobby
Thursday, Friday, and Saturday midmorning and afternoon. - with the exhibitors in Exhibit Hall C & D.

A cash bar will be available during poster sessions, 4:00 - 6:00 p.m., Friday and Saturday, 1-2 August.

Lunch is on your own each day. A variety of restaurants are available within walking distance of the convention center.

Event Tickets

A variety of tickets may be included in your name badge. The number of tickets you have is determined by your personal registration choices.

Reception tickets

All registered participants, first exhibitor representatives, accompanying persons, and any tickets purchased for guests will receive two (2) reception drink tickets good for beer, wine, or soda.

Additional food and beverage tickets (by registration only) may include:

- AES Banquet for Sunday, 3 August at the Chattanooga Hotel
- ASIH Closing Picnic for Sunday, 3 August at the Tennessee Pavilion

JMIH Meeting App – NEW!

With the generous support of the Chattanooga Convention and Visitor's Bureau, we're excited to be offering a mobile event guide to attendees featuring speaker information, session schedules, and much more! Best of all, it's accessible from all devices with an internet browser: smartphones, tablets, laptops, and even desktops.



How to Access our Mobile Event Guide

Method 1: Scan the QR Code above

Method 2: Go to <http://eventmobi.com/JMIH2014> on your mobile browser to instantly access your mobile event guide!

Presenter Information

Oral Presenters

Oral Presenters should submit their presentations to an Alliance AV representative by 3:00 p.m. the day preceding their presentation. Alliance AV will be set up in Meeting Room 7 of the Chattanooga Convention Center to receive presentations at the following times:

Wednesday, 30 July - 1:00 p.m. - 3:00 p.m.

Thursday, 31 July - Saturday, 2 August - 7:00 a.m. - 3:00 p.m.

The technical coordinators available will immediately load and review presentations as they are submitted. A presenter's memory stick or CD will be returned when the presentation has been successfully loaded.

An Alliance AV representative will be present in each meeting room to monitor equipment and presentations.

Three *Speaker Prep Rooms* are available in the convention center.

Meeting Room 8, Meeting Room 9, and Meeting Room 10 located in the Chattanooga Convention Center, will have computers and projectors available for speakers to practice their presentations. A sign-up sheet is posted outside each room.

Speaker prep rooms are available from 7:00 a.m. - 7:00 p.m. beginning Wednesday, 30 July.

Session moderators have been designated to facilitate each session. The names of moderators are noted in the session schedule. Moderators should have received their packet of instructions when checking in at the Registration Desk.

Poster Presenters

Poster session dates and times are as follows:

Friday, 1 August 4:00-6:00 p.m.

Saturday, 2 August 4:00-6:00 p.m.

At least one author must be present during the entire poster session time period. Please remove your poster immediately following the poster session. Posters not claimed by 5:00 p.m. on Sunday, 3 August will be discarded.

Poster Board Assignments

A listing of poster sessions is current as of the printing of this program book (June 20). All poster boards are numbered. The title and author will be posted on each board as well. Because some posters are part of competitions, it is important that each presenter place their poster in the correct location. Presenters can place their poster on their assigned board anytime between 9:00 a.m. and 12:00 p.m. on the day they are presenting. Presenters are asked to have their poster set by 12:00 p.m. in order that attendees may view the posters prior to the scheduled session time.

Special Announcements from Societies

ASIH General Endowment Fund Information

ASIH thanks all the members who have made contributions to the General Endowment Fund. Currently your gifts are used to support ASIH symposia each year at the Joint Meeting of Ichthyologists and Herpetologists.

ASIH also thanks meeting attendees who participate in the student-run book raffle, which directly supports student travel to the JMIH. In recognition that today's student members are the future of ASIH and that attendance at the JMIH encourages society involvement, ASIH matches dollar for dollar funds raised at the raffle. Please help ASIH promote our students. Be generous and make this year's raffle a great success.

AES Store

Thursday, 30 July – Sunday, 3 August

Meeting Room 2

The AES Store is open! A variety of elasmobranch-related goods, including pens, water bottles, and shirts are available. Proceeds go to support AES student funding.

SSAR President's Travelogue

Wednesday, 30 July, 7:00 p.m.

Banquet Room E, F & G

SSAR invites everyone to this year's President's Travelogue. David C. Blackburn, Ph.D. with the Institute for Biodiversity Science and Sustainability at the California Academy of Sciences will speak on "Adventures with African Amphibians."

HL/SSAR Live Auction Viewing Room

Thursday, 31 July – Sunday, 3 August

Meeting Room 3

All items for the HL/SSAR Live Auction will be available for viewing. Items can be viewed at the following days and times:

Thursday, 31 July through Saturday, 2 August from 8:00 a.m. - 5:00 p.m.

Sunday, 3 August from 8:00 a.m. – 4:30 p.m.

HL/SSAR Live Auction

Sunday, 3 August, 9:00 p.m. – midnight

Banquet Room E, F, H & I

All JMIH participants are welcome to attend and bid on donated items. A cash bar will be available.

Exhibit Hall Floor Plan

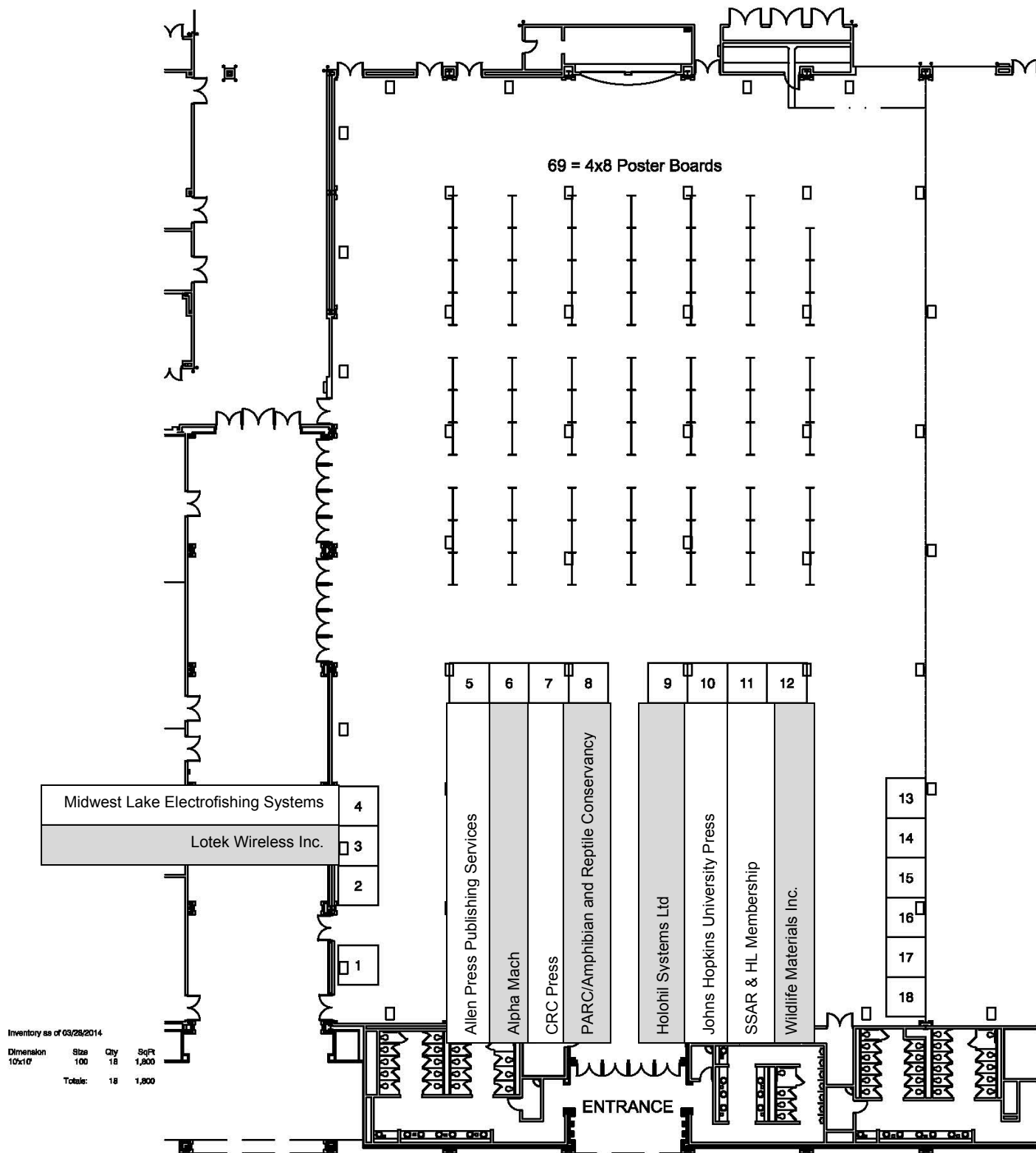


Exhibit Hall C & D

Social Events

No-Host Social – Hotel restaurant bars

Wednesday, 30 July; 7:00p.m.

Join your colleagues on Wednesday evening in the hotel lobby bars.

Group Photos

JMIH Group Photo – North Lobby of Chattanooga Convention Center

Thursday, 31 July; 12:00 p.m. (immediately following Plenary Session)

The traditional JMIH group photo will be taken on Thursday, 31 July at 12:00 p.m. immediately following the plenary session. Please gather in the North end of the Lobby in the Chattanooga Convention Center. Photos will be posted to the JMIH website for free download by all participants.

AES Group Photo – Chattanooga Hotel

Sunday, 3 August at the AES Banquet

The traditional AES group photo will be taken on Sunday, 3 August during the AES Banquet. Photos will be posted to the JMIH website for free download by all participants.

SSAR/HL Student Social – South Rotunda, Upper Level, Chattanooga Convention Center

Thursday, 31 July; 5:30-6:30 p.m.

This is a special reception for current student members of SSAR and HL, along with SSAR and HL Board members and several invited senior herpetologists. Finger food and drink tickets will be provided.

JMIH Opening Reception - Tennessee Aquarium

Thursday, 31 July; 7:00-10:00 p.m.

This year's Joint Meeting opening reception will be at the world famous Tennessee Aquarium. With over 10,000 animals, come see why it has been rated the Best Aquarium in America for three consecutive years. The aquarium offers a journey through two buildings loaded with things to do and engaging experiences on Chattanooga's beautiful downtown riverfront. River Journey fascinates visitors with river otters, turtles, alligators, giant catfish, and thousands of freshwater wonders. Ocean Journey delights guests with penguins, sharks, butterflies, and often scuba divers who interact with guests.

The Joint Meeting reception is included in all full conference, first exhibitor representative, and accompanying persons registration fees. All others must purchase a reception ticket. Additional guest reception tickets are \$40 each.

The Tennessee Aquarium is within walking distance of the Chattanooga Convention Center. Volunteers will be located outside of the convention center to direct attendees. Attendees may also take the free electric shuttle. There are several pickup locations along Broad Street.

Shuttle busses will also be provided and will depart from outside of the Chattanooga Convention Center starting at 6:45 p.m. and will run continuously until 8 p.m. The shuttle buses will start departing from the Tennessee Aquarium starting at approximately 8:30 p.m. and will run continuously until 10 p.m.

AES Student Social – Offsite Location TBD

Saturday, 2 August; 7:30p.m.

Join your fellow AES students for an informal social. The location will be announced at the meeting, or you can check the AES Store in Meeting Room 2 located in the Chattanooga Convention Center.

AES Banquet – Chattanooga Hotel

Sunday, 3 August; 6:00 p.m. – midnight

Professional AES Member = \$50; Student AES Member = \$35 ; Non-member = \$55

On Sunday, August 3 from 6:00 p.m. until midnight, the American Elasmobranch Society Banquet will be held in the ballroom of the Chattanooga Hotel located at 1201 Broad Street. The social hour will start at 6:00 p.m., with dinner served at 7:00 p.m. The buffet menu will consist of classic Caesar salad, mini salad bar, sweet tea brined rotisserie chicken, garlic studded roast beef, four cheese ravioli, roasted garlic whipped potatoes, wilted baby spinach, and dessert. Wine will be served with dinner, plus cash bars will be available.

ASIH Closing Picnic – Tennessee Pavilion

Sunday, 3 August; 7:00-10:00 p.m.

Professional - \$45; Student = \$35

On Sunday, August 3 from 7:00-10:00 p.m., join friends and colleagues at the Tennessee Pavilion for the ASIH Closing Picnic. A picnic dinner will be served in the Tennessee Pavilion with BBQ meats, baked beans, coleslaw, dessert, beer, wine, and non-alcoholic beverages. Each ticket includes two free drink tickets good for beer, sangria, soda and water.

Live music will be playing in the pavilion, with games across the street at Finley Stadium – Davenport Field, home to the University of Tennessee at Chattanooga football team. It will be a fun night!

HL/SSAR Live Auction – Banquet Room E, F, H & I

Sunday, 3 August; 9:00 p.m. – midnight

The HL/SSAR Live Auction is an opportunity to support the programs of SSAR and HL and to clean out your office or house of those interesting and valuable herp related items. Any herp related item - including books, art, sculptures, famous autographs, field equipment, or clothing - is appreciated. Please note that items made from amphibians, reptiles, or parts thereof, should NOT be donated. Donations are tax deductible. Receipts will be issued on request (please request receipt at time of donation).

Business and Committee Meetings

Note: All meeting rooms listed below are location in the Chattanooga Convention Center unless otherwise indicated.

Wednesday, 30 July

8:00 a.m. – 2:00 p.m. SSAR Board of Directors – Meeting Room 12 (lunch provided)
8:00 a.m. – 12:00 p.m. AES Executive Committee – Meeting Room 16 (lunch provided)
9:00 a.m. – 2:00 p.m. ASIH Executive Committee – Meeting Room 17 (lunch provided)
9:00 a.m. – 12:00 p.m. ASIH Past Presidents – Meeting Room 6 (lunch provided)
2:00-5:00 p.m. ASIH Editorial Policy Committee – Meeting Room 11
2:00-5:00 p.m. AES Board of Directors – Meeting Room 16
2:00-6:00 p.m. HL Board of Trustees – Meeting Room 13
5:00-7:00 p.m. ASIH Board of Governors – Banquet Room H
7:00-8:00 p.m. SSAR President's Travelogue – Banquet Room E, F & G
7:00 p.m. - ? Informal Ho-Host Social – Hotel Restaurant Bars

Thursday, 31 July

12:00-1:00 p.m. AES Student Business Meeting – Offsite location TBA
12:00-2:00 p.m. ASIH Judges Meeting – Meeting Room 11 (lunch provided)
12:00-2:00 p.m. ASIH Conservation Committee – Meeting Room 16 (lunch provided)
12:00-2:00 p.m. ASIH Endowment & Finance Committee – Meeting Room 17 (lunch provided)
12:00-2:00 p.m. SSAR Seibert & Poster Judges – Meeting Room 18 (lunch provided)
5:00-7:00 p.m. *Freshwater Fishes of North America* Author Meeting – Meeting Room 12

Friday, 1 August

12:00-1:30 p.m. ASIH Centennial Committee – Meeting Room 18 (lunch provided)
3:00-5:00 p.m. ASIH Collections Committee – Meeting Room 18
5:00-7:00 p.m. ASIH Ad Hoc Committee on Membership – Meeting Room 18
6:00-8:00 p.m. HL Business Meeting – Banquet Room H
8:00-10:00 p.m. NIA Meeting – Banquet Room E

Saturday, 2 August

12:00-1:30 p.m. AES Graduate Student Workshop – Banquet Room E
12:00-1:30 p.m. ASIH Graduate Student Business Meeting – Meeting Room 11 (lunch provided)
12:00-1:30 p.m. JMIH Meeting Management and Planning Committee – Meeting Room 5 (lunch provided)
12:00-3:00 p.m. ASIH Names of Fishes – Meeting Room 16 (lunch provided)
12:00-1:30 p.m. ASIH Ad Hoc Committee on Copeia – Meeting Room 6
2:00-5:00 p.m. SSAR Long Range Planning Committee – Meeting Room 17
4:00-5:00 p.m. AES Business Meeting – Banquet Room E
4:00-6:00 p.m. ASIH Web Content Management Committee – Meeting Room 18
5:00-6:30 p.m. ASIH Long Range Planning Committee – Meeting Room 16
6:00-8:00 p.m. ASIH Business Meeting – Banquet Room G
6:00-8:00 p.m. SSAR Business Meeting – Banquet Room I

Sunday, 3 August

12:00-1:30 p.m. ASIH Graduate Student Workshop – Meeting Room 11

Symposia

Friday, 1 August

8:00 a.m. – 3:45 p.m.

American Society of Ichthyologists and Herpetologists

Bridging the gaps: The remarkable career of Gordon M. Burghardt in the study of herpetofaunal behavior

Room: Banquet Room I

The goal of this symposium is to recognize and celebrate the scientific contributions of Gordon Burghardt, Alumni Distinguished Service Professor of Psychology and Ecology & Evolutionary Biology at the University of Tennessee, Knoxville. Gordon has had a tremendous impact on herpetology. He pioneered the use of reptiles as study organisms for fundamental questions in behavioral biology, especially chemical ecology, sensory biology, and the interactions of genetic and ontogenetic influences on the behavioral phenotype. His use of neonatal snakes to reveal innate behavioral preferences was ground breaking, and continues to be a methodology employed by researchers today. He straddles the boundary between herpetology and behavioral science, just as he does between psychology and ethology, his successes promoting the study of 'nontraditional' species to a broader scientific community. Concomitant with his theoretical advances, Gordon has followed his passion for reptiles throughout his life. He first subscribed to a taxonomically focused journal (*Copeia*) in 1959, at the tender age of 17. Now a Life Member of ASIH, it is testament to the length of his career that Gordon delivered the Distinguished Herpetologist lecture all the way back in 1985. In another example of his taxonomic passion, Gordon co-edited an extraordinarily influential volume on iguana biology.

An author search for Gordon in the citation database Web of Science returns a total of 154 publications to date. These publications have been cited a total of 2430 times. Breaking these down, 42% of his publications have been cited 10 or more times, and eleven of his papers have been cited more than 100 times. The importance of Gordon's work shows no signs of diminishing with time.

The occasion of this meeting is extremely timely, as 2014 is the 50th anniversary of Gordon's first published paper (*Copeia* 1964:576-578). Gordon has worked at the University of Tennessee, Knoxville since 1968, and so it is particularly fitting geographically for a symposium in his honor to be held in his beloved East Tennessee.

One of the greatest measures of Gordon's impact is the number of young scientists that he has mentored. Gordon has advised 40 students (25 doctoral dissertations, 20 masters theses). A full day of presentations by Gordon's students and other close collaborators will showcase his prior and continuing scientific impact, and celebrate his scholarship and his mentorship. In addition to the formal scientific program of the symposium, we are planning an evening meal and social gathering to continue the celebration.

Organizer: Paul T. Andreadis

Co-Organizer: Harry W. Greene

Saturday, 2 August

8:15 a.m. – 4:00 p.m.

Herpetologists' League

Reproductive biology and phylogeny of lizards and tuatara

Room: Banquet Room H

The Reproductive Biology and Phylogeny Series currently has 9 volumes encompassing a wide array of vertebrates including fishes, amphibians, and snakes. However, the volumes have yet to include all of the Lepidosauria with the exception of snakes. As a continuation of the series, the 10th volume has been set as "Reproductive Biology and Phylogeny of Lizards and Tuatara" to include the remainder of the Lepidosauria. This volume encompasses a diverse group of topics, which include but are not limited to morphology, development, systematics, and ecology. The volume currently has 11 chapters with authors from all over the world. This collaborative effort will enhance our understanding of various topics on reproductive biology. Furthermore this

symposium is intended to cover various aspects of reproduction that will gain the interest of many biologists at the meeting.

Organizers: Stanley Trauth & Dustin Siegel

Sunday, 3 August

1:30-4:30 p.m.

Society for the Study of Amphibians and Reptiles

Infrared Imaging: Cellular/Molecular Mechanisms, Behavioral Biology and Ecology of Pit Vipers, Pythons and Boas

Room: Banquet Room J

The infrared imaging systems of boid and crotaline snakes has long interested biologists and the public alike, but a deep and broad understanding of these fascinatingly novel sensory systems has been sorely lacking. This is truly one of the last great mysteries in sensory biology, and has important evolutionary and ecological implications.

Applying modern molecular, physiological and behavioral approaches to the study of snake infrared imaging has recently produced a variety of advances in our understanding of how the pit organ operates, infrared information is processed in the brain, and snakes utilize their infrared imaging systems to target prey avoid potential predators and locate suitable thermal refugia.

This symposium will bring together a diverse group of biologists from a variety of fields to discuss the current state of knowledge of and research on infrared imaging systems and their roles in the lives of snakes. The goals also include an analysis of the next important steps in snake thermal biology, the ecological implications of invasions of exotic species possessing novel "weaponry", and a look at the technological advancements that may derive from a thorough understanding of the mechanisms of snake infrared imaging.

Organizer: Dr. Michael S. Grace

Workshops

Saturday, 2 August

12:00-1:30 p.m.

AES Graduate Student Workshop

Getting a Job: Preparing in Graduate School, Applying, and Making the Transition

Room: Banquet Room E

With a continually changing job market landscape and increasing competition for jobs, students need to know how to set themselves up for success in their anticipated career path, whether that path leads to academia, government, non-governmental organizations, or other types of positions. The objective of this workshop is to discuss topics related to getting a job, and will consist of three sections. In the first section, we will discuss what to do as undergraduate and graduate students to become outstanding job candidates. The second section will focus on the nitty-gritty of applying for jobs, including where to look, how and when to start applying, and tailoring your application to different positions. This could include academic vs. government vs. NGO positions, or different types of academic positions (e.g. ecology vs. physiology). We will conclude with a discussion of how to make a successful transition from an undergraduate to a graduate student and from a student to a professional, on interviewing, negotiating and how long to post-doc. Students will have the opportunity to listen to a panel of experts and ask questions.

Panelists: TBD

Sunday, 3 August

12:00-1:30 p.m.

ASIH Graduate Student Workshop

Social Media and Academic Applications

Room: Meeting Room 11

Social media provides a valuable platform for establishing rapport between the public and scientific communities, rapidly disseminating scientific findings to a world-wide audience, and generating connections with other scientists across the world. Accordingly, the use of social media can be an extremely valuable tool for young scientists looking to connect and become established in a rapidly growing scientific community. At this workshop, four panelists will share their different experiences with a variety of social media platforms (e.g., Facebook, Twitter, blogs), and provide insights into how graduate students can successfully use these platforms to further their academic careers.

Panelists: Dr. Prosanta Chakrabarty, Dr. Mo Donnelly, Dr. Karen Lips, David Shiffman

SESSION AND SYMPOSIA MASTER

		THURSDAY	FRIDAY	SATURDAY	SUNDAY
	ROOM	31-Jul	1-Aug	2-Aug	3-Aug
AM	Banquet Room E	PLENARY (Banquet Room E, F & G)	AES Gruber	Snake Ecology/ AES Ecology	Herp Ecology/ AES Morphology & Reproduction
	Banquet Room F	↓	Herp Conservation/ ASIH Stoye Physiology & Physiological Ecology/ ASIH Stoye Ecology & Ethology	Fish Ecology/ Fish Morphology, Histology & Development	Fish Behavior/ NIA
	Banquet Room G		ASIH Stoye General Ichthyology/ ASIH Stoye Genetics, Development & Morphology	Fish Systematics & Taxonomy	Fish Systematics & Taxonomy
	Banquet Room H		HL Graduate Student Award/ Herp Ecology	HI Lizard and Tuatara Reproduction Symposium	Herp Development, Morphology & Histology/ Herp Ecology
	Banquet Room I		ASIH Burghardt Symposium	Herp Conservation/Herp Behavior	Herp Reproduction/ Herp Behavior
	Banquet Room J		SSAR Seibert Physiology & Morphology/ SSAR Seibert Systematics & Evolution	Reptile Genetics & Evolution/ Herp Conservation	Herp Biogeography & Phylogeography/ Herp & Ich Genomics
	Meeting Room 4 & 5		Climate Change & Disease		
			↓		
		LUNCH	LUNCH	LUNCH	LUNCH
PM	Banquet Room E	AES Behavior	AES Gruber	AES Genetics, Genomics & Systematics	AES Conservation & Physiology/ Herp Ecology & Phylogeography
	Banquet Room F	ASIH Stoye Ecology & Ethology	ASIH Stoye Ecology & Ethology/ ASIH Stoye Conservation	Fish Ecology	Fish Conservation & Management
	Banquet Room G	ASIH Stoye General Ichthyology	ASIH Stoye General Ichthyology/ NIA Student Competition/ Fish Ecology	Fish Genetics	General Ichthyology/ Fish Systematics & Taxonomy
	Banquet Room H	HL Graduate Student Award	Lizard Ecology	HI Lizard and Tuatara Reproduction Symposium	Herp Systematics/ Turtle Ecology
	Banquet Room I	SSAR Seibert Ecology	ASIH Burghardt Symposium	Ich & Herp Physiology	Herp Genetics
	Banquet Room J	ASIH Stoye Ecology & Ethology/ ASIH Stoye Genetics, Development & Morphology/ ASIH Stoye General Herpetology	SSAR Seibert Conservation/ SSAR Seibert Ecology	Herp Conservation	SSAR Infrared Imaging Symposium
	Meeting Room 4 & 5		General Herpetology		
	POSTER SESSIONS		POSTER SESSION I Exhibit Hall C & D	POSTER SESSION II Exhibit Hall C & D	
	BUSINESS MEETINGS (Rooms vary)		HL (6 - 8 p.m.) NIA (8-10 p.m.)	AES (4 - 5 p.m.) SSAR (6 - 8 p.m.) ASIH (6 - 8 p.m.)	
EVE	SOCIAL EVENTS	SSAR/HL STUDENT SOCIAL (5:30-6:30 p.m.) South Rotunda, Upper Level JMIH OPENING RECEPTION (7 - 10 p.m.) Tennessee Aquarium			AES BANQUET Chattanooga Hotel (6 p.m. - midnight) ASIH CLOSING PICNIC (7 - 10 p.m.) Tennessee Pavilion SSAR/HL LIVE AUCTION (9 p.m. - midnight) Banquet Room E, F, H & I

Thursday, 31 July

Morning Plenary Session

Chattanooga Convention Center, Banquet Room E, F & G

- 8:15 a.m.** **Welcome**
Anna George, Chair, Local Host Committee
- 8:30 a.m.** **Award Presentations**
ASIH Gibbs, Fitch and Johnson Awards
SSAR/HL/ASIH Meritorious Teaching Award in Herpetology
PARC Alison Haskell Award for Excellence in Herpetofaunal Conservation
Joseph Nelson Award
- 9:00 a.m.** **JMIH Plenary Keynote Speaker**
"The Deeper South: Immersive Stories and Imagery from North America's Aquatic Biodiversity Hotspot"
Jeremy Monroe, Filmmaker, Aquatic Biologist and Director, Freshwaters Illustrated
- 10:00 a.m.** **Beverage Break**
- 10:30 a.m.** **ASIH Past Presidential Address**
"Synthesizing Your Career Data: A Challenge for Old Folks and Suggestions for Young Folks"
William Matthews, University of Oklahoma
- 10:50 a.m.** **AES Plenary Speaker**
"Is 'The-Sky-Is-Falling' Science Really the Only Solution for Elasmobranch Conservation?"
Chris Lowe, California State University
- 11:10 a.m.** **HL Distinguished Herpetologist**
"What We Didn't Know in 1964: Fifty Years of Herpetology"
J. Whitfield Gibbons, University of Georgia, Savannah River Ecology Laboratory
- 11:30 a.m.** **Closing and Announcements**

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

THURSDAY, 31 JULY, Afternoon Sessions

ROOM		<i>Banquet Room E</i>		<i>Banquet Room F</i>
SESSION/ SYMPOSIUM		AES BEHAVIOR		ASIH STOYE ECOLOGY & ETHOLOGY
MODERATOR		DEAN GRUBBS		KRISTIN BAKKEGARD
1:30 PM	488	Gregory Skomal*, John Chisholm	50	Joshua Holbrook*, Nathan Dorn
		Movements of White Sharks in the Western North Atlantic		Factors Influencing Wetland Reptile and Amphibian Community Composition
1:45 PM	425	James Sulikowski*, Amy Carlson, Lance Jordan	186	Nicholas Levis*, Jarrett Johnson
		The Little Shark that Could: The Amazing Travels of a Young of the Year Porbeagle Shark		Level of UV-B Radiation Influences the Effects of Glyphosate-based Herbicide on Fitness of the Spotted Salamander (<i>Ambystoma maculatum</i>)
2:00 PM	600	Elizabeth Clingham, Judith Brown, Alistair Dove, John Tyminski, Robert Hueter*	198	Abigail Berkey*, Marlis Douglas, Christopher Phillips
		Observations and First Tagging of Whale Sharks off St. Helena in the South Atlantic		Influence of Kinship on the Social Behavior of the Four-Toed Salamander, <i>Hemidactylium scutatum</i>
2:15 PM	202	Tristan Guttridge*, Steven Kessel, Demian Chapman, et al	289	Kortney Jaworski*, Cari-Ann Hickerson, Carl Anthony
		Movement Patterns and Habitat Use of the Great Hammerhead Shark, <i>Sphyrna mokarran</i> in Bimini, Bahamas and Florida, USA.		Male Mate Choice as a Potential Mechanism for Assortative Mating in a Polymorphic Salamander (<i>Plethodon cinereus</i>)
2:30 PM	645	R. Dean Grubbs*, Charles Cotton, Toby Daly-Engel, David Kerstetter	384	Mason Murphy*, Steven Price, Michael Dorcas
		Post-release Survival and Vertical Movements of Bluntnose Sixgill Sharks (<i>Hexanchus griseus</i>) in Four Oceanic Regions		The Effects of Urbanization on Salamander Body Sizes Using a Before-after Control-impact Design
2:45 PM	172	Andrew Nosal*, Philip Hastings	571	Brittany Ousterhout*, Raymond Semlitsch
		Shoreward Homing in Experimentally Displaced Leopard Sharks (<i>Triakis semifasciata</i>)		Natal Pond Conditions and Juvenile Habitat Affect Distance Moved By Ringed Salamanders (<i>Ambystoma annulatum</i>)
3:00 PM		BREAK - Exhibit Hall C & D		
SESSION/ SYMPOSIUM		AES BEHAVIOR		ASIH STOYE ECOLOGY & ETHOLOGY
MODERATOR		CHRISTINE BEDORE		TOM TURNER
3:30 PM	563	Andrea Launer*, Richard Starr, David Ebert	190	Parker House*, Larry Allen
		Sex-specific Differences in Residency and Movement of Leopard Sharks (<i>Triakis semifasciata</i>) in a California Estuary		Direct and Indirect Impacts of Fishing on the Trophic Structure of Kelp Forest Fishes Off Southern California
3:45 PM	38	Owen O'Shea*, John Mandleman, Brendan Talwar, Edward Brooks	568	Lynne Wetmore*, Jay Rooker, William Heyman
		Hierarchical Predation Behaviour in Four Species of Marine Apex Predator: Does Size Matter?		Watershed Impacts on Food Web Dynamics and Trophic Productivity for Nursery-Associated Juvenile Snappers in Belize
4:00 PM	117	Csilla Ari	750	Daniel Fitzgerald*, Mario Zuluaga, Tommaso Giarrizzo, et al
		Rapid and Long-term Coloration Changes of Manta Rays (genus <i>Manta</i>)		Food Web Structure of the Lower Xingu River: A Unique and Immediately Imperiled Ecosystem in the Lower Amazon Basin
4:15 PM	646	Christine Bedore*, Stephen Kajiura, Sönke Johnsen	599	Bonnie Ahr*, Michael Farris, Christopher Lowe
		Bioelectric Crypsis in Cephalopods Reduces Detection by Shark Predators		Hierarchical Habitat Selection and Utilization of White Croaker (<i>Genyonemus lineatus</i>) in the Los Angeles and Long Beach Harbor and the Development of Predictive Habitat Use Models
4:30 PM	516	Jayne Gardiner*, Nicholas Whitney, Robert Hueter	635	Brenton Spies*, Mark Steele
		Smells Like Home: Olfactory Contributions to Homing Behavior in Blacktip Sharks		Effects of Temperature and Latitude on Larvae Traits of Two Estuarine Fishes in Differing Estuary Types
4:45 PM			751	Jerrod Tynes*, Lani Lyman-Henley
				A Comparison of the Arboreal Behavior of Old World (<i>Coelognathus</i>), New World (<i>Pantherophis</i> & <i>Scotophis</i>), and Hybrid (<i>Pantherophis</i> + <i>Scotophis</i> , <i>Pituophis</i> + <i>Scotophis</i>) Colubrid Snakes
5:00 PM				

* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

THURSDAY, 31 JULY, Afternoon Sessions

	<i>Banquet Room G</i>		<i>Banquet Room H</i>	ROOM
	ASIH STOYE GENERAL ICHTHYOLOGY I		HL GRADUATE STUDENT AWARD	SESSION/ SYMPOSIUM
	BARRY CHERNOFF		MEREDITH MAHONEY	MODERATOR
580	Edward Burress*, Milton Tan, Jonathan Armbruster	129	Amanda Bennett*, Dennis Murray	1:30 PM
	Ecological Diversification Among Adaptive Radiations of Neotropical Cichlids		Thanks Mom! Maternal Body Condition Influences Magnitude of Anti-predator Response in Tadpoles	
583	Samuel Borstein*, Matthew McGee	252	Rachel Rhymer*, Jeanne Robertson, Gilberto Flores, Robert Espinoza	1:45 PM
	Mouthbrooding Does Not Constrain Craniofacial Diversity in Lake Tanganyikan Cichlids		Why do Parents Care? Testing the Roles of Maternal Care in an Argentinean Lizard	
660	Jack Craig	397	Christopher Schalk*, Daniel Saenz	2:00 PM
	Community Phylogenetics Illuminates the Origin of the Fitzcarrald Fish Fauna, Peruvian Amazon		Abiotic Drivers of Anuran Calling Activity in a Seasonal Neotropical Environment	
524	Andrea T. Thomaz*, Vinicius A. Bertaco, Luiz R. Malabarba, L. Lacey Knowles	44	Nathan Byer*, Richard Seigel, Scott Smith	2:15 PM
	Species Delimitation Integrating Morphological and Genetic Data Within a Bayesian Framework Using iBPP: Application in the Southeastern Brazilian Species Complex <i>Hollandichthys</i> (Teleostei: Characiformes)		Threatened from the Start: Nest Success and Nesting Ecology of the Federally-Threatened Bog Turtle, <i>Glyptemys muhlenbergii</i>	
573	Kory Evans	596	Sandra Galeano*, Kyle Harms	2:30 PM
	On Knifefishes and Needlefishes: Ontogeny and phylogeny of mouth position		Coloration in the Polymorphic Frog <i>Oophaga pumilio</i> Predicts Aggressiveness and the Outcome of Intraspecific and Interspecific Interactions	
247	Maxwell Bernt	225	Jennifer Lamb*, Hardin Waddle, Carl Qualls	2:45 PM
	The <i>Apteronotus bonapartii</i> Species Group (Apteronotidae: Gymnotiformes): A Widespread Phenotype across the South American Platform		Asymmetric Interactions among Brook Salamanders (Genus <i>Eurycea</i> , Family Plethodontidae) in the Gulf Coastal Plain.	
BREAK - Exhibit Hall C & D				3:00 PM
	ASIH STOYE GENERAL ICHTHYOLOGY I		HL GRADUATE STUDENT AWARD	SESSION/ SYMPOSIUM
	MARK WESTNEAT		DAVID GREEN	MODERATOR
658	Ray Schmidt	406	Thomas Anderson*, Raymond Semlitsch	3:30 PM
	Historical Biogeography of Fishes of the Fouta Djallon Highlands and Surrounding Areas		Multiple Predator Effects and Habitat Complexity Alter a Larval Salamander Intraguild Predation Module	
259	James Cureton	454	Katherine O'Donnell*, Frank Thompson, Raymond Semlitsch	3:45 PM
	Phenotypic Divergence With or Without Gene Flow? That is the Question		Using Binomial Mixture Models to Partition Detectability Components in Terrestrial Salamander Populations	
42	Hannah Owens	611	Kyle Miller Hessed*, William Link	4:00 PM
	Investigating Modes of Speciation in Trans-Isthmian Haemulid Grunts		Growth, Maturation, and Spatial Ecology of the Red-backed Salamander (<i>Plethodon cinereus</i>)	
292	Jennifer Martin*, Eric Hilton	62	Andrea Long*, Lora Smith, Mike Conner, Robert McCleery	4:15 PM
	Ontogeny and Biogeography of the Ribbonfish Genus <i>Zu</i> (Lampridiformes: Trachipteridae): a Revision		The Effect of Red-imported Fire Ants on Eastern Fence Lizard Recruitment and Survival	
30	Valerie Derouen*, William Ludt, Prosanta Chakrabarty	608	Kirsten Hecht*, Max Nickerson, Michael Freake, Phil Colclough	4:30 PM
	Phylogeny and Divergence Time Estimation in Batfishes (Lophiiformes: Ogocephalidae)		The Potential Influence of Geology on Hellbender (<i>Cryptobranchus alleganiensis</i>) Populations	
603	Rachel Arnold	182	Chelsea Kross*, Stephen Richter	4:45 PM
	Evolutionary Relationships of the Enigmatic Anglerfishes (Teleostei: Lophiiformes): Can Nuclear DNA Provide Resolution for Conflicting Morphological and Mitochondrial Phylogenies?		Effects of Interactions Between Species in an Anthropogenically Altered Ridge-Top Wetland Ecosystem.	
		91	Molly Wright*, Sara Brown, Steven Sallinas, et al	5:00 PM
			The Impacts of Wildfire on the Population Dynamics of Amphibians in northern New Mexico and southern Colorado.	

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

THURSDAY, 31 JULY, Afternoon Sessions

ROOM		<i>Banquet Room I</i>		<i>Banquet Room J</i>
SESSION/ SYMPOSIUM		SSAR SEIBERT ECOLOGY		ASIH STOYE ECOLOGY & ETHOLOGY/ ASIH STOYE GENETICS, DEVELOPMENT & MORPHOLOGY
MODERATOR		HENRY MUSHINSKY		WHITNEY ANTHONYSAMY
1:30 PM	319	Philip N. Vogrinc*, John D. Willson, Andrew M. Durso	69	EE - Brendan Reid*, Zachariah Peery
		Landscape-scale Responses of Semi-aquatic Snakes to Drought		Using Genetic and Demographic Methods to Characterize Nesting Philopatry in a Long-lived Turtle
1:45 PM	224	Jennifer Fill*, Jayme Waldron, Shane Welch, Timothy Mousseau	203	EE - Rachel King*, Lora Smith, Alan Covich
		Eastern Diamondback Rattlesnake (<i>Crotalus adamanteus</i>) Habitat Selection in the Southeast Coastal Plain Tidewater Region		Spatial Ecology and Wetland Habitat Selection of Common Snapping Turtles (<i>Chelydra serpentina</i>) and Yellow-bellied Sliders (<i>Trachemys scripta</i>) In a Longleaf Pine Ecosystem
2:00 PM	137	Jacob Owen*, Jesse Meik, T. Wayne Schwertner	424	EE - Dan Crear*, Dan Lawson, Jeff Seminoff, et al
		Effects of Agriculture on Snake Diversity and Abundance in Northeastern Swaziland		Seasonal Shifts in the Distribution of Green Sea Turtles (<i>Chelonia mydas</i>) within Anthropogenically-Altered Water Temperatures
2:15 PM	526	Tanya O'Brien	532	EE - Matthew Ramirez*, Larisa Avens, Lisa Goshe, et al
		The Importance of Pre- and Postnatal Thermal Conditions in Determining Growth Trajectories in Three Viviparous Grassland Snakes		Loggerhead Sea Turtle (<i>Caretta caretta</i>) Ontogeny and Growth: Evidence of Facultative Ontogenetic Shifts Using Skeletochronology and Stable Isotope Analysis
2:30 PM	692	Mark Herr*, Sean Graham, Tracy Langkilde	588	EE - Brian Tornabene*, Robert Bramblett, Stephen Leathe, Alexander Zale
		Stressed Snakes Strike First: Hormone Levels and Defensive Behavior in Free Ranging Cottonmouths (<i>Agkistrodon piscivorus</i>).		Nesting Ecology of the Turtle <i>Apalone spinifer</i> in a Large River-Floodplain Ecosystem
2:45 PM	334	Meagan Thomas*, Stephen Mullin	339	GDM - Evan McCartney-Melstad*, H. Bradley Shaffer
		Quantifying Dietary Overlap in a Community of Invertebrate Eating Snakes		Exon Capture Optimization for a Large-Genome Amphibian
3:00 PM		BREAK - Exhibit Hall C & D		
SESSION/ SYMPOSIUM		SSAR SEIBERT ECOLOGY		ASIH STOYE GENERAL HERPETOLOGY
MODERATOR		JOE PECHMANN		MAUREEN DONNELLY
3:30 PM	522	Jason Bohenek*, Lauren Eveland, William Resetarits	461	Erin Kenison*, Andrea Litt, David Pilliod, Tom McMahon
		The Influence of Newts (<i>Notophthalmus viridescens louisianensis</i>) on Oviposition Site Choice of Mosquitoes		Investigating Direct and Indirect Effects of Introduced Fish Predators on Long-toed Salamander Larvae
3:45 PM	496	Jose Griego*, Sarah Corey-Rivas	491	Carl Hutter*, Shea Lambert, John Wiens
		Genetic Structure and Hybridization of the Northern Leopard Frog (<i>Lithobates pipiens</i>) in the Mora Watershed in Northern New Mexico		Explaining Andean Megadiversity: The Evolutionary and Ecological Causes of Elevational Species Richness Patterns in Neotropical Frogs (Hylloidea).
4:00 PM	375	Samantha Rumschlag*, Michelle Boone	141	Andy Connolly*, Larry Martin, Stephen Hasiotis
		The Effects of Size at Metamorphosis and Overwintering on Susceptibility to <i>Batrachochytrium dendrobatidis</i> in Northern Leopard Frogs		Positive Correlation Between Parietal Foramen Size and Latitudinal Distribution in Iguanids (Squamata: Iguanidae)
4:15 PM	67	Graziella DiRenzo*, Penny Langhammer, Kelly Zamudio, Karen Lips	219	Pascal Title*, Dan Rabosky
		Fungal Infection Intensity and Zoospore Output of <i>Atelopus zeteki</i> , a Potential Acute Chytrid Supershedder.		Niche Evolution Dynamics and Their Role in Australian Reptile Diversification
4:30 PM	354	Carl Cloyd*, Perri Eason	736	James Stroud*, Ken Feeley
		Using Stomach Content Analysis and Stable Isotope Analysis to Describe Adult Anuran Diets		Using Biological Invasions to Model the Fundamental Niche: A Case Study Using the Cuban Brown Anole (<i>Anolis sagrei</i>)
4:45 PM	545	Christopher Thawley*, Travis Robbins, Nicole Freidenfelds, Tracy Langkilde	298	Lisa Cantwell*, Joe Altobelli, Arthur Echternacht
		The Costs and Benefits of Adaptation: A case Study Using Native Fence Lizards and Invasive Fire Ants		Who's There? The Importance of Familiarity in Discrimination of Avian Calls by the Brown Anole (<i>Anolis sagrei</i>)
5:00 PM				
		EE = ASIH Stoye Ecology & Ethology		GDM = ASIH Stoye Genetics, Development & Morphology

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Morning Sessions

	<i>Banquet Room E</i>		<i>Banquet Room F</i>	ROOM
	AES GRUBER		HERP CONSERVATION I	SESSION/ SYMPOSIUM
	CHRIS CHABOT		BOB BRODMAN	MODERATOR
		236	Bob Brodman	8:00 AM
			The Effects of Plastics and Aquatic Herbicide Application on Jefferson Salamander Eggs and Larvae.	
		439	Marcia Snyder*, W. Matthew Henderson, Donna Glinski, S. Thomas Purucker	8:15 AM
			Biomarker Analysis Of Leopard Frog (<i>Rana pipiens</i>) Tadpoles Following Exposure To Atrazine	
		661	Devin Jones*, Rick Relyea	8:30 AM
			Lasting Effects of Pesticide Exposure: How Early Exposure to a Pesticide Influences Tolerance of Later Life Stages in Gray Treefrogs (<i>Hyla versicolor</i>)	
673	Dovi Kacev*, John Hyde, Andrew J Bohonak, et al	281	Jessica Hua*, Devin Jones, Nathan Morehouse, Rick Relyea	8:45 AM
	Combining Genetics and Tagging Data to Test for Sex Biased Dispersal in Shortfin Mako Sharks (<i>Isurus oxyrinchus</i>).		A Novel Mechanism for Insecticide Tolerance: The Role of Phenotypic Plasticity in Amphibian Tolerance and Cross-tolerance to Insecticides	
728	Melissa Giresi*, David Portnoy, Dean Grubbs, et al	396	M. Kevin Hamed*, Matthew Gray	9:00 AM
	Genetic Population Structure of the Dusky Smoothhound Shark, <i>Mustelus canis</i> , in U.S. Waters		Temporal and Spatial Changes of Mercury Contamination of Black-bellied Salamander (<i>Desmognathus quadramaculatus</i>) from Whitetop Mt., Virginia.	
445	Mariah O. Pflieger*, R. Dean Grubbs, Toby S. Daly-Engel	630	Steven Kimble*, Ajit Karna, April Johnson, et al	9:15 AM
	DNA Barcoding in the Genus <i>Squalus</i> Reveals a Novel Dogfish Species from the Gulf of Mexico		Mosquitoes as a Potential Vector of Ranavirus Transmission in Chelonians	
BREAK - Exhibit Hall C & D				9:30 AM
	AES GRUBER		ASIH STOYE PHYSIOLOGY & PHYSIOLOGICAL ECOLOGY/ ASIH STOYE ECOLOGY & ETHOLOGY	SESSION/ SYMPOSIUM
	GREG CAILLET		NANCY BROWN-PETERSON	MODERATOR
546	Kyle Newton	447	PPE - Jeffrey N. Zeyl*, Carol E. Johnston	10:00 AM
	Magnetic Field Perception, Learning and Memory in the Yellow Stingray, <i>Urobatis jamaicensis</i> .		Examining Amphibious Hearing in Turtles: Auditory Evoked Potentials in the Box Turtle, <i>Terrapene carolina</i> Relative to the Stinkpot, <i>Sternotherus odoratus</i>	
734	James Anderson*, Luisa Queiroz, Kim Holland	707	PPE - Alyssa Hoekstra*, Vincent Cobb	10:15 AM
	Perception and Discrimination of Magnetic Fields in Sandbar (<i>Carcharhinus plumbeus</i>) and Scalloped Hammerhead (<i>Sphyrna lewini</i>) Sharks.		Timber Rattlesnake (<i>Crotalus horridus</i>) Thermoregulation in a Fragmented Environment	
507	Lauran Brewster*, Tristan Guttridge, Robert Bullock, et al	694	PPE - Corey Cates*, Daniel Warner	10:30 AM
	Accelerometry to Determine the Field Metabolic Rate of Marine Predators		Effect of Moisture and Substrate on Egg Water Uptake and Phenotypes of Hatchling Lizards (<i>Anolis sagrei</i>)	
204	Rob Bullock*, Lauran Brewster, Mark Bond, et al	119	PPE - Shabnam Mohammadi*, Alan Savitzky, Lori Neuman-Lee, Georg Petschenka	10:45 AM
	Assessing the Effects of Prey Interactions on Habitat Use Patterns and Foraging Effort in Lemon Sharks.		Molecular and Physiological Mechanisms of Bufadienolide Resistance in Toad-Eating Snakes.	
637	Joseph Bizzarro*, Kristin Broms, Miles Logsdon, et al	21	EE - Alejandro Molina-Moctezuma*, J. Jaime Zuniga-Vega	11:00 AM
	Spatial Segregation in Eastern North Pacific Skate Assemblages		Food Availability and Matrotrophy: a Test of the Trexler-DeAngelis Model of Maternal Provisioning	
29	Tobey Curtis*, Jonathan Hare, Robert Kenney, et al	95	EE - Danny D'Amore*, Oscar Rios-Cardenas, Molly Morris	11:15 AM
	Movements and Habitat Selection of Basking Sharks (<i>Cetorhinus maximus</i>) in Relation to Zooplankton Abundance in the Gulf of Maine		Maternal Environment Influences Development of Behavioral Syndrome in Swordtail Fish, <i>Xiphophorus multilineatus</i>	
627	Heather M. Christiansen*, Nigel E. Hussey, Jeremy Cliff, et al	286	EE - Bryan Keller*, Jean Sebastian Finger, Tristan Guttridge, et al	11:30 AM
	Investigating Within and Among-individual Variation in the Trophic Ecology of the Marine Apex Predator White Shark, <i>Carcharodon carcharias</i>		Partner Preference and the Mechanism of Group Formation in Lemon Sharks, <i>Negaprion brevirostris</i> , During the Introduction of Strangers to Familiar Groups	
316	Cheston Peterson*, Dean Grubbs	520	EE - Lauren Eveland*, Alon Silberbush, William Resetarits Jr.	11:45 AM
	Community Structure and Stable Isotope Ecology of Sharks and Large Teleost Fishes in the Florida Big Bend		Detection of Predatory Fish Kairomones by Ovipositing Mosquitoes	
LUNCH ON YOUR OWN				12:00 PM
	PPE = ASIH Stoye Physiology & Physiological Ecology		EE = ASIH Stoye Ecology & Ethology	

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Morning Sessions

ROOM		Banquet Room G		Banquet Room H
SESSION/ SYMPOSIUM		ASIH STOYE GENERAL ICHTHOLOGY II		HL GRADUATE STUDENT AWARD
MODERATOR		PROSANTA CHAKRABARTY		STEVE MULLIN
8:00 AM	542	Todd R. Clardy*, Eric J. Hilton	510	Melissa Youngquist
		Phylogenetic Systematics of the Prickleback Family Stichaeidae (Cottiformes: Zoarcoidei) Based on Morphological Data		Utility of Human-made Ponds for Amphibian Conservation: Effects of Land-use on Tadpole Growth and Survival
8:15 AM	515	Hayley Schroeder*, Kevin Tang	631	Jared Grummer*, Adam Leaché
		Phylogeny of Rabbitfishes (Teleostei: Perciformes: Sigandae)		Those Dammed Frogs: Investigating the Impacts of River Dams on the Micro-population Genetic Structure of the Tailed Frog (<i>Ascaphus truei</i>) Using Thousands of SNPs
8:30 AM	536	William Ludt*, Prosanta Chakrabarty, Luiz Rocha	738	Mariana Vasconcellos*, Guarino Colli, David Cannatella
		Crossing the Tropics: Insights from Temperate-restricted <i>Prionurus</i> Surgeonfishes		Recent Diversification of Treefrogs Into and Out of the South American Cerrado Savanna
8:45 AM	156	Edwin Leung*, Larry Allen	463	Robert Denton*, Lisle Gibbs
		The Influence of Environmental Variation on Year-Class Strength in White Seabass (<i>Atractoscion nobilis</i>) off Southern California		Sexuality on the Move: Dispersal of Unisexual and Sexual Mole Salamanders (<i>Ambystoma</i>) Across a Fragmented Landscape
9:00 AM	60	Shelby Richins*, Chris Walser	64	David O'Connor*, David M. Green
		Genetics and Summer Movement and Habitat Use of Columbia River Redband Trout, <i>Oncorhynchus mykiss gairdneri</i> , in Dry Creek, Idaho (Boise River Drainage)		Latitudinal Variation in the Sexual Dimorphism of the American toad (<i>Anaxyrus americanus</i>).
9:15 AM	94	Callie Crawford*, Amy Balanoff, John Denton, et al	56	David Delaney*, Daniel Warner
		Anatomical Characters as Ornaments on the Chondrichthyan Tree of Life		Do Adults Drive Variation in Juvenile Habitat Use in a Territorial Lizard?
9:30 AM		BREAK - Exhibit Hall C & D		
SESSION/ SYMPOSIUM		ASIH STOYE GENETICS, DEVELOPMENT & MORPHOLOGY		HL GRADUATE STUDENT AWARD/ HERP ECOLOGY I
MODERATOR		MIKE COLLYER		ROBERT POWELL
10:00 AM	452	Krista Boysen*, Robert M. Wood	322	HL - Jacquelyn Guzy*, Steven Price, Evan Eskew, Michael Dorcas
		Genetic Evaluation of the Threatened Shovelnose Sturgeon, <i>Scaphirhynchus platyrhynchus</i> , Throughout the Mississippi River Basin and a Portion of the Missouri River Basin		The Influence of Damming on Anuran Species Richness in Riparian Areas.
10:15 AM	441	Savannah Michaelsen*, Kyle R. Piller	471	Kevin Smith*, Walter Bien
		Spatio-temporal Variation in Genetic Structure of Red Drum <i>Sciaenops ocellatus</i> in the Northern Gulf of Mexico.		The Neonatal Spatial Ecology of the Northern Pinesnake (<i>Pituophis melanoleucus</i>) in the New Jersey Pine Barrens
10:30 AM	138	Corinne Paterson		
		The Genetic Diversity and Population Structure of Barred Sand Bass (<i>Paralabrax nebulifer</i>)		
10:45 AM	285	Alison Deary*, Eric Hilton		
		Using Phylogeny to Address Ecomorphology, Development of Feeding Structures and Dietary Shifts of Early Life History Stage Drums (Family Sciaenidae) from the Chesapeake Bay		
11:00 AM	449	Sarah Z. Gibson		
		The Enigmatic Taxon † <i>Hemicalypterus weiri</i> (Osteichthyes: Actinopterygii) from the Late Triassic: New Insights into its Evolutionary History and Ecological Role		
11:15 AM	235	Julia Schmidt-Petersen*, James W. Orr, Christopher D. Marshall, Dominique Adriaens		
		Functional Morphology of the Jaw Protrusion in Seamoths (<i>Eurypegasus draconis</i>) (Pisces, Pegasidae)		
11:30 AM	342	Kirill Vinnikov		
		Phylogeny and Adaptive Evolution of Righteye Flounders (Pleuronectiformes: Pleuronectidae)		
11:45 AM	115	Sharon F. Clemmensen*, C. Darrin Hulsey		
		Morphological Convergence in Durophagous Heroine Cichlids		
12:00 PM		LUNCH ON YOUR OWN		

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Morning Sessions

	<i>Banquet Room I</i>		<i>Banquet Room J</i>	ROOM
	ASIH BURGHARDT AND BEHAVIOR SYMPOSIUM		SSAR SEIBERT PHYSIOLOGY & MORPHOLOGY	SESSION/ SYMPOSIUM
	PAUL ANDREADIS		BOB ALDRIDGE	MODERATOR
	Introduction			8:00 AM
435	Paul Andreadis			8:15 AM
	The Academic Phylogeny of Gordon Burghardt			
514	Mark Waters*, Paul Andreadis, Debra Andreadis	223	Jacqueline Chivers*, Craig Guyer	8:30 AM
	Effects of Gordon Burghardt and his Scientific Work on the Behavior of Herpetologists and Ethologists		Frequency and Geographic Location of Hybridization of the American Toad (<i>Anaxyrus americanus</i>), Fowler's Toad (<i>Anaxyrus fowleri</i>) and the Southern Toad (<i>Anaxyrus terrestris</i>) in Alabama Based on Morphological Traits	
127	Monique Halloy	774	Matthew M. Dickson*, Sigfrido A. Zimmermann, Tanja Wolfmeyer, et al	8:45 AM
	Gordon Burghardt and the Butterfly Effect		Rapidly Adapting to the Neighborhood: Physiological Responses of Mediterranean House Geckos to their Introduced Climates	
503	Kerry Hansknecht	769	Dustin Owen*, Evin Carter, Matthew Holding, et al	9:00 AM
	Do What You Love, Love What You Do - That's "Easy" in the Burghardt Lab		You Cruise, You Lose: Roads Facilitate a Blunted Stress Response in Copperheads (<i>Agkistrodon contortrix</i>)	
405	John Placyk	175	Patrick D. Moldowan*, Ronald J. Brooks, Jacqueline D. Litzgus	9:15 AM
	The Details of a Conservation Genetics Lab Founded on Burghardtian Principles		Turtles with Teeth: Tomiodont Morphology and Functional Significance in the Painted Turtle (<i>Chrysemys picta</i>)	
BREAK - Exhibit Hall C & D				9:30 AM
	ASIH BURGHARDT AND BEHAVIOR SYMPOSIUM		SSAR SEIBERT SYSTEMATICS & EVOLUTION	SESSION/ SYMPOSIUM
	PAUL ANDREADIS		DAVID BLACKBURN	MODERATOR
543	Gary Casper*, Julia Robson, Brian Halstead, et al	477	Sean Reilly*, Jimmy McGuire	10:00 AM
	Wisconsin Butler's Gartersnake Populations in a Conservation Context		Evolutionary History of Flying Lizards (Genus: <i>Draco</i>) from the Lesser Sunda Islands, Indonesia	
335	Karen Davis	700	Arianna L. Kuhn*, Aaron M. Bauer, Todd R. Jackman	10:15 AM
	New Findings on Social Complexity in North American Turtles (<i>Emydidae</i>)		Molecular Phylogeny and Historical Biogeography of <i>Trachylepis</i> Skinks (<i>Reptilia: Scincidae</i>) and the Evolution of <i>Viviparity</i>	
237	James Gillingham*, David Clark, Jennifer Moore	541	Eric Rittmeyer*, Christopher Austin	10:30 AM
	Tuatara Crest Morphology: Spine Size and Refectance May Contribute to Large Male Breeding Success in <i>Sphenodon punctatus</i>		Species Boundaries and Niche Evolution in the New Guinean <i>Carlia bicarinata</i> group (<i>Squamata: Scincidae</i>)	
255	Matthew Anderson*, Stanley Fox	544	Elyse Freitas*, Aaron Bauer, Todd Jackman	10:45 AM
	The Effects of Tail Autotomy on Behavior, Mating Strategies, and Territorial Quality in the Lizard <i>Uta stansburiana</i>		Molecular Phylogenetics and Patterns of Limb Loss in the Genus <i>Scelotes</i>	
702	Arthur Echternacht*, Todd Vincent	559	Rachel Skinner*, Todd Jackman, Aaron Bauer	11:00 AM
	Asymmetrical Density Effects on Reproduction: Another Mechanism by Which an Introduced Anole Impacts a Native Congener?		Phylogenetic Relationships of South African Geckos in <i>Pachydactylus geitje</i> Species Complex (<i>Squamata: Gekkonidae</i>)	
260	Brian C. Bock*, Vivian P. Páez, Gordon M. Burghardt, A. Stanley Rand	113	Thornton Larson*, Eli Greenbaum, Delilah Castro	11:15 AM
	Life Table Matrix Projections for the Green Iguana (<i>Iguana iguana</i>): Implications for Conservation and Control.		Systematics of the African River Frog Genus <i>Amietia</i> (<i>Anura: Pyxicephalidae</i>) in Eastern Democratic Republic of the Congo	
704	Jesús Rivas			11:30 AM
	Population Dynamics of Green Iguana (<i>Iguana iguana</i>): Does it Pay for Little Boys to Save Their Sisters?			
591	Rita Mehta*, Benjamin Higgins			11:45 AM
	Feeding Performance of the California moray, <i>Gymnothorax mordax</i>			
LUNCH ON YOUR OWN				12:00 PM

* denotes presenter

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Morning Sessions

ROOM		<i>Meeting Room 4 & 5</i>		
SESSION/ SYMPOSIUM		CLIMATE CHANGE & DISEASE		
MODERATOR		ANDREW DURSO		
8:00 AM	164	Jesse Meik		
		Climate Data Should Not be Used to Infer Ecological Divergence in Species Delimitation		
8:15 AM	48	Peter J. Mahoney, Karen H. Beard, Andrew M. Durso*, et al		
		Introduction Effort, Climate Matching, and Species Traits as Predictors of Global Establishment Success in Non-native Reptiles		
8:30 AM	33	Philip Willink		
		Mottled Sculpin <i>Cottus bairdii</i> in Illinois; A Motley Tale of Subspecies, Invasive Species, Habitat Degradation, and Climate Change		
8:45 AM	201	Taylor Green, David M. Green*		
		Environmental Correlates of Spring Emergence in Fowler's Toad, <i>Anaxyrus fowleri</i> .		
9:00 AM	724	John Maerz*, Katharine Servidio, Kira McEntire, et al		
		Climate and Plethodon Ecology at the Coweeta LTER		
9:15 AM	557	Renata Platenberg		
		Bd in a Hot Climate: Detection of Amphibian Chytrid Fungus in the US Virgin Islands		
9:30 AM		BREAK - Exhibit Hall C & D		
SESSION/ SYMPOSIUM		CLIMATE CHANGE & DISEASE		
MODERATOR		STEVE CORN		
10:00 AM	416	Stephen Corn		
		Can Amphibian Distributions Respond to Rapid Climate Change?		
10:15 AM	341	David Pike		
		Why Sea Turtles are Great Survivors of Climate Change		
10:30 AM	555	William Sutton*, Kyle Barrett, Allison Moody, et al		
		Determining Vulnerability of Priority Amphibian and Reptile Conservation Areas to Climate Change in the Northeastern United States		
10:45 AM	479	Jason Hoverman*, Andrew Blaustein, Cherie Briggs, et al		
		Disease Risk Within Complex Communities: The Influence of Coinfection by Virulent Pathogens on an Amphibian Assemblage		
11:00 AM	590	Vanessa Wuerthner*, Jason Hoverman		
		Prior Exposure to the Trematode <i>Echinostoma trivolvis</i> Increases Ranavirus Infection Prevalence in Gray Tree Frogs (<i>Hyla versicolor</i>)		
11:15 AM	474	Ben Fitzpatrick		
		Diffuse Associations Between Salamanders and Skin Bacteria		
11:30 AM				
11:45 AM				
12:00 PM		LUNCH ON YOUR OWN		

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Afternoon Sessions

	<i>Banquet Room E</i>		<i>Banquet Room F</i>	ROOM
	AES GRUBER		ASIH STOYE ECOLOGY & ETHOLOGY/ ASIH STOYE CONSERVATION	SESSION/ SYMPOSIUM
	ROBERT HUETER		ROBERT LOVICH	MODERATOR
125	Bianca Prohaska*, Paul Tsang, William Driggers III, et al	486	EE - Brittany V. Furtado*, Jessie J. Green, Ginny L. Adams, Reid Adams	1:30 PM
	Effects of Delayed Phlebotomy on Plasma Steroid Hormone Concentrations in Elasmobranchs		The Impact of Natural Gas Development on Fish Communities of the Fayetteville Shale, Arkansas	
766	Christopher Mull*, Kara Yopak, Nick Dulvy	428	EE - Michael Schram*, Mark Steele	1:45 PM
	Placentation and the Evolution of Brain Size and Structure in Sharks, Skates, and Rays		Effects of Simulated Size-Selective Harvesting on a Protogynous Temperate Reef Fish, <i>Rhinogobios nicholsii</i>	
498	Valentina Di Santo	589	EE - Laura Jay Williams*, Stephen Szedlmayer	2:00 PM
	Ocean Acidification Exacerbates the Impacts of Global Warming on Embryonic Skates		Fishery Independent Estimates of Red Snapper, <i>Lutjanus campechanus</i> , Mortality Using Ultrasonic Telemetry in the Northern Gulf of Mexico	
270	Arianne Leary*, Jim Gelsleichter, Dean Grubbs	377	C - Connor Capizzano*, John Mandelman, William Hoffman, et al	2:15 PM
	Oil Related Biomarkers in <i>Centropristis striata</i> and <i>Squalus</i> Species in the years following the Deepwater Horizon Oil Spill		Estimating and Mitigating Post-Release Mortality of Atlantic Cod in the Gulf of Maine's Recreational Hook-and-Line Fishery	
570	Jeremy Higgs*, Jill Hendon, Eric Hoffmayer, et al	682	C - A. Brigid Wieman*, Peter Berendzen, Mark Myers	2:30 PM
	Reproduction of the Finetooth Shark, <i>Carcharhinus isodon</i> , in the Northern Gulf of Mexico		Demographic Parameters and Conservation Units for Longnose Dace, <i>Rhinichthys cataractae</i> , in Northeast Iowa from Ecological and Genetic Perspectives.	
214	Amanda Brown*, Jim Gelsleichter, Bryan Frazier	467	C - Dane Ward*, Walter Bien	2:45 PM
	The Reproductive Biology of the Finetooth Shark, <i>Carcharhinus isodon</i> , in the Northwest Atlantic Ocean		The Effect of Roads on the Movement and Landscape Structure of the Northern Pine Snake, <i>Pituophis melanoleucus</i> in the Pinelands of New Jersey.	
336	Charles Bangley*, Roger Rulifson	621	C - Eric McCluskey*, Thomas Hetherington	3:00 PM
	Sharks in the Sound: Delineating Potential Coastal Shark Habitat Within Pamlico Sound, North Carolina		Species Distribution Modeling for the Eastern Massasauga Rattlesnake (<i>Sistrurus catenatus catenatus</i>) in Northeastern Ohio	
369	Ryan Knotek*, David Rudders, John Mandelman, et al	365	C - Stephanie Chavez*, Amanda Williard	3:15 PM
	The Survival of Rajids Discarded in the New England Scallop Dredge Fisheries		Assessment of the Impact of Bycatch Reduction Devices on Diamondback Terrapin and Blue Crab Catch	
565	Fiona Graham*, Neil Hammerschlag, Maria Estevanez	613	C - Matthew Hamilton*, John Finger, Andrew Grosse, et al	3:30 PM
	Quantifying Habitat Protection for Shark Species in South Florida and The Bahamas Using Satellite Telemetry		American Alligator (<i>Alligator mississippiensis</i>) Population Trends on Radiologically-Contaminated Reservoirs	
18	Andrea Dell'Apa*, Jeffrey Johnson, Dave Kimmel, Roger Rulifson	349	C - Megan Winzeler*, Cara Love, David Scott, et al	3:45 PM
	A Social Network Analysis of the International Trade of Spiny Dogfish (<i>Squalus acanthias</i>): fishery management aspects		Prevalence of Two Amphibian Diseases at Contaminated Wetlands on the Savannah River Site, SC	
POSTER SESSION I				4:00 PM
Exhibit Hall C & D				
				5:00 PM
	NIA Meeting			6:00 PM
	8-10 p.m.			
	EE = ASIH Stoye Ecology & Ethology		C = ASIH Stoye Conservation	

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Afternoon Sessions

ROOM		<i>Banquet Room G</i>		<i>Banquet Room H</i>
SESSION/ SYMPOSIUM		ASIH STOYE GENERAL ICHTHYOLOGY III/ NIA STUDENT COMPETITION/ FISH ECOLOGY		LIZARD ECOLOGY
MODERATOR		HANK BART/JAMES ALBERT		DAN WARNER
1:30 PM	150	GI - Malorie Hayes*, Jonathan Armbruster	76	Daniel Warner*, Alexis Harrison, Aaron Reedy
		Making Sense of the Confusion: A molecular assessment of the genus 'Barbus' (Cypriniformes: Cyprinidae)		Adult Population Density is a Strong Selective Force on Juvenile Body Size in the Lizard <i>Anolis sagrei</i>
1:45 PM	128	GI - Carla Stout*, Milton Tan, Alan Lemmon, et al	697	Matthew Lattanzio*, Donald Miles
		Preliminary Phylogeny of Cypriniformes Based on Anchored Hybrid Enrichment with a Focus on Leuciscinae		Disturbance, Microhabitat Use, and the Thermal Ecology of Male Tree Lizards
2:00 PM	103	GI - Milton Tan*, Carla Stout, Alan Lemmon, et al	562	Krista Mougey*, Douglas Bell, Frederic J. Burton
		Phylogenomics and the Evolution of Paedomorphism in the Cyprinidae		Spatial Ecology of the Caymanian Blue Iguana (<i>Cyclura lewisi</i>): The Influence of Restored Populations on the Spatial Dynamics and Establishment of Captive Releases
2:15 PM	27	GI - Kara Million*, Luciano Matzkin, Bruce Stallsmith	533	Kaitlin Allen, Robert Powell*
		Comparison of Monogenean Gill Parasite Infection Levels in Three Darter Species in Mill Creek		Thermal Biology and Microhabitat Use in Puerto Rican Eyespot Geckos (<i>Sphaerodactylus macrolepis</i>)
2:30 PM	509	GI - Aaron Geheber*, Philip Geheber	269	Laine Giovanetto
		The Effect of Spatial Scale on Darter Community Assembly: Evolutionary Relationships Illustrate Ecological Processes		Preliminary Findings on the Habitat Selection and Diet in a Population of Eastern Water Skinks (<i>Eulamprus quoyii</i>) During a Drought in New South Wales, Australia.
2:45 PM	310	NIA - Benjamin Frable*, Brian Sidlauskas	280	Crystal Kelehear*, Gregory Brown, Mark Torchin, et al
		It's Inner Beauty that Counts: Ecomorphological Diversification and Speciation in the Neotropical Fish Superfamily, Anostomoidea (Ostariophysi:Characiformes).		A Novel Host Facilitates the Spread of an Invasive Parasite in Tropical Australia and Panama
3:00 PM	602	NIA - Michael Burns	329	Andrew Battles*, Kevin Aviles, Jason Kolbe
		Body Shape Evolution in Characiformes		Performance Loss Does Not Deter Anoles from Using Artificial Perches
3:15 PM	614	NIA - Sarah Steele*, Hernán López-Fernández	585	Enrique Santoyo-Brito*, Matthew Anderson, Stanley Fox
		Consequences of Extreme Body Size Evolution in Neotropical Cichlid Fishes		Sex Ratio According to Incubation Temperature in the Collared Lizard, <i>Crotaphytus collaris</i>
3:30 PM	677	NIA - Daniel J. Gurdak*, Donald J. Stewart, Paulo A. Buckup	220	Cameron Siler*, Rafe Brown
		A New Species of <i>Arapaima</i> (Osteoglossomorpha, Osteoglossidae) from the Lower Amazon, near Santarém, Brazil		From Ancient Dispersals to Conservation Genetic Insights—The State of Philippine Geckos
3:45 PM	683	Viviana Astudillo-Clavijo*, Hernan Lopez-Fernandez		
		Divergence of Locomotor Morphology in the Radiation of Neotropical Geophagine Cichlids		
4:00 PM	POSTER SESSION I Exhibit Hall C & D			
5:00 PM				
6:00 PM				HL Business Meeting 6-8 p.m.
		GI = ASIH Stoye General Ichthyology		NIA = NIA Best Student Paper

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Afternoon Sessions

	<i>Banquet Room I</i>		<i>Banquet Room J</i>	ROOM
	ASIH BURGHARDT & BEHAVIOR SYMPOSIUM		SSAR SEIBERT CONSERVATION/ SSAR SEIBERT ECOLOGY	SESSION/ SYMPOSIUM
	HARRY GREENE		BRIAN HALSTEAD	MODERATOR
254	Paul Weldon*, Matthew Kramer, Robert Vender Meer, et al	456	SSAR-C - Jason O'Connor*, Tracy Rittenhouse	1:30 PM
	Anuran Skin Secretions Contain Contact Toxins Against Arthropods		Importance of Late Fall Movement and Snow Cover to Overwinter Survival of Wood Frogs	
327	Akira Mori*, Alan Savitzky	382	SSAR-C - Luke Linhoff	1:45 PM
	When a Mysterious Japanese Natricine Snake Met an American Natricine Expert: Unraveling the Enigmatic Nuchal Glands		The Role of Husbandry in Amphibian Conservation: A Review and Meta-analysis	
148	Neil Ford*, Kaitlyn Pettingill, Corey Cates	752	SSAR-C - Nicole F. Angeli*, Ian Lundgren, Clayton Pollock, et al	2:00 PM
	Behavioral and Reproductive Consequences of Compensatory Growth in Snake Species Exhibiting Differential Sexual Size Dimorphism		Occupancy, Density, and Dispersal of a Critically Endangered Lizard on a Small Island	
187	Bonnie Bowers*, Morgan Wilson, Renee Godard	157	SSAR-C - Brian Crawford*, Amielle DeWan, Kevin Green	2:15 PM
	Are Eastern Garter Snakes (<i>Thamnophis sirtalis</i>) Attracted to Alarm Substance from Fathead Minnows (<i>Pimephales promelas</i>)?		Does Pride work? Evaluating an NGO's integrative model for promoting community conservation behavior	
679	Lani Lyman-Henley*, Jerrod Tynes	32	SSAR-C - Patrick J. Ruhl*, Rob N. Chapman, John B. Dunning	2:30 PM
	Effects of Experience on Responses to Standard Testing Procedures in Colubrid Snakes		The Effect of Biomass Harvests on Eastern Red-backed Salamanders (<i>Plethodon cinereus</i>)	
106	Matthew Kramer*, Enrique Font, Gordon Burghardt	325	SSAR-C - Drew Davis*, Matthew Schwarz, Jacob Kerby	2:45 PM
	Tongue-flick Attack Scores Revisited: A Decomposition and a Reconstitution Using Canonical Discriminant Analysis.		Effects of Agricultural Tile Drainage on Amphibians in Eastern South Dakota	
124	Vladimir Dinets	475	SSAR-C - Jeremy Feinberg*, Joanna Burger	3:00 PM
	Swamp Smarts: Discovering Cryptic Intelligence in Crocodilians.		Fitness and Survival Effects of the Invasive Grass, <i>Phragmites australis</i> , on Tadpoles Transplanted into an Extirpation Zone.	
122	Harry Greene	710	SSAR-E - Matthew G. Keevil*, Shawna Sanders, Ronald J. Brooks, Jacqueline D. Litzgus	3:15 PM
	Snakes and Primates, an 80 Million Year Dialog?		Density-dependence and Phenology of Juvenile Somatic Growth in Snapping Turtles and Painted Turtles	
134	Gordon Burghardt	633	SSAR-E - Ryan Vincent*, Jarrett Johnson	3:30 PM
	A Serpentine Life in Science		Investigating Population Structure and Connectivity of California Tiger Salamanders (<i>Ambystoma californiense</i>) in the Los Vaqueros Watershed.	
				3:45 PM
				4:00 PM
	POSTER SESSION I Exhibit Hall C & D			
				5:00 PM
				6:00 PM
	SSAR-C = SSAR Seibert Conservation		SSAR-E = SSAR Seibert Ecology	

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

FRIDAY, 1 August, Afternoon Sessions

ROOM		<i>Meeting Room 4 & 5</i>		
SESSION/ SYMPOSIUM		GENERAL HERPETOLOGY		
MODERATOR		SCOTT BOBACK		
1:30 PM	626	Edward Kabay*, Graziella DiRenzo, Julie Ray, Karen Lips		
		Sorting a Neotropical Snake Community into groups using Morphological Relationships		
1:45 PM	331	Mark Davis*, Michael Collyer, Marlis Douglas, Michael Douglas		
		Morphological Evidence for Adaptive Radiation in Western Rattlesnake (<i>Crotalus viridis</i>)		
2:00 PM	385	Jordan Chaney*, Patrick Reilly, Debra Miller, et al		
		Wood Frogs (<i>Lithobates sylvaticus</i>) May Function as Superspreaders of Ranavirus		
2:15 PM	648	James Julian*, Robert Brooks, Gavin Glenney, John Coll		
		Surveys of Amphibian Emergent Infectious Diseases in Human-Created and Natural Wetlands in Pennsylvania		
2:30 PM	74	Scott Weir*, Shuangying Yu, Ami Knox, et al		
		The Oral and Dermal Toxicity of Several Pesticides to the Western Fence Lizard (<i>Sceloporus occidentalis</i>)		
2:45 PM	136	Koy Regis*, Jesse Meik		
		Body Size and Sexual Size Dimorphism in Turtles: A Comparison of Mass and Length Data		
3:00 PM	65	James Christiansen*, Travis LaDuc, Margaret Stummer		
		An Undescribed Shell Disease in the Yellow Mud Turtle, <i>Kinosternon flavescens</i>		
3:15 PM	722	John Willson*, Michael Dorcas		
		Effects of Python-Associated Mammal Declines on Nesting Success of Turtles in South Florida		
3:30 PM	584	Scott Boback*, Nicole Davidson, Nick Schwab, Matt Miller		
		Spatial Distribution of Painted Turtle (<i>Chrysemys picta</i>) Nests in an Artificial Wetland		
3:45 PM	651	Thomas Pauley*, William Sutton		
		Cheat Mountain Salamander (<i>Plethodon nettingi</i>): What We Know after 37 Years of Observation		
4:00 PM	POSTER SESSION I Exhibit Hall C & D			
5:00 PM				
6:00 PM				

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Morning Sessions

	<i>Banquet Room E</i>		<i>Banquet Room F</i>	ROOM
	SNAKE ECOLOGY		FISH ECOLOGY I	SESSION/ SYMPOSIUM
	CHRISTOPHER HOWEY		EDIE MARSH-MATTHEWS	MODERATOR
622	Shane Welch*, Jayme Waldron, John Holloway	265	Edie Marsh-Matthews*, Alejandro Molina Moctezuma, Rosemary Knapp	8:00 AM
	Coastal Island Eastern Diamondback Rattlesnake Habitat Selection and Landscape-scale Spatial Fidelity		Effects of Cortisol on Brood Characteristics of Western Mosquitofish, <i>Gambusia affinis</i>	
497	Jennifer Howze*, Lora Smith	51	J. Jaime Zuniga-Vega	8:15 AM
	Snake Activity Patterns Within the Longleaf Pine Forest		Superfetation and the Terminal Investment Hypothesis. Does Superfetation Increase with Age in Poeciliid Fishes?	
61	Patrick Gregory	747	Henan J. López-Corrales*, César Medrano-de la Hoz, Charles W. Olaya-Nieto	8:30 AM
	The Relationship Between Body Size and Cover Use in Five Species of Natricine Snakes		Reproductive Ecology of <i>Liseta leporinus muyscorum</i> in the Sinu river, Colombia	
403	Christopher Howey*, Willem Roosenburg, Matthew Dickinson	392	Michael Collyer	8:45 AM
	Thermoregulation and Energy Expenditures of Black Racers (<i>Coluber constrictor</i>) in Thermally Contrasting, Burned and Unburned Landscapes		Sexual Dimorphism of a Pupfish Species in Varied Sinkhole Fish Communities	
344	Ryan McCleary*, Hun Kiat Tan, David Bickford	39	Nancy J. Brown-Peterson*, James S. Franks	9:00 AM
	Temporal Comparisons of the Homalopsid Snake Assemblage at Pasir Ris Park Mangrove, Singapore		Reproductive Biology of Yellowfin Tuna, <i>Thunnus albacares</i> , in the Northern Gulf of Mexico	
63	Brett DeGregorio*, Patrick Weatherhead, James Westervelt, Janelle Sperry	24	Gen Kume	9:15 AM
	Ratsnakes as Predators of Bird Nests: Now and in a Warming World		Oogenesis Without Vitellogenesis by <i>Apogon lineatus</i> Females: A Reproductive Constraint or Strategy ?	
BREAK - Exhibit Hall C & D				9:30 AM
	AES ECOLOGY		FISH MORPHOLOGY, HISTOLOGY & DEVELOPMENT	SESSION/ SYMPOSIUM
	BRAD WETHERBEE		NORMA SALCEDO	MODERATOR
232	Gregor Cailliet*, Kenneth Goldman, Henry Mollet, Henry Mollet	718	Norma Salcedo*, Haley O'Brien	10:00 AM
	The Use of Demographic Parameters to Assess the Population Size of Shark Species: A Test Case Using the White Shark (<i>Carcharodon carcharias</i>) Sub-population off Central California, USA		Morphology of the Hyoid Arch and Branchiostegal Rays of <i>Lipopterichthys carrioni</i> (Siluriformes: Loricariidae) Based on Computed Tomography Scan Data.	
733	Justin Lewis*, William Patterson III, Katherine McLachlin, John Carlson	11	Tomas Praet, Dominique Adriaens*, Céline Neutens, et al	10:15 AM
	Distinguishing Blacktip Shark, <i>Carcharhinus limbatus</i> , Nursery Areas in the Northern Gulf of Mexico with Vertebral Chemical Signatures		Understanding the Mechanics of Tail Grasping in Seahorses using a Parametrized Computer Model	
68	William Driggers, Bryan Frazier*, Douglas Adams, et al	749	Christopher Kenaley*, George Lauder	10:30 AM
	Site Fidelity of Bonnetheads (<i>Sphyrna tiburo</i>) to Two Discrete Coastal Ecosystems in the Western North Atlantic Ocean		Robotic Modeling of Prey-capture Mechanics in Fishes: The Role of Hyoid Musculature	
618	Bradley Wetherbee*, Mahmood Shivji, Michael Byrne, et al	358	Laura Habegger*, Philip Motta, Pulasky Daniel, et al	10:45 AM
	Mako Migratory Movements ... mmm		Feeding Biomechanics in Billfishes: Inferring the Role of the Rostrum Through FEA	
191	J. Marcus Drymon*, Matthew Ajemian, Sean Powers	324	Jacqueline Webb*, Jason Ramsay	11:00 AM
	Dynamic Habitat Use of Young Bull Sharks <i>Carcharhinus leucas</i> in a Northern Gulf of Mexico Estuary		3-D Configuration of Lateral line Scales and the Lateral Line Canal Contained Within Them: The Textbooks are Wrong	
209	Dana Bethea*, Matthew Ajemian, John Carlson, et al	121	Fabio Pupo*, Vitor Abrahão, Hernán Ortega	11:15 AM
	Distribution and Community Structure of Coastal Sharks in the Northeastern Gulf of Mexico		Brain and Olfactory Organs from Some Species of the Family Astroblepidae (Teleostei: Ostariophysi: Siluriformes)	
		282	Michael Doosey*, Nicholas Domke	11:30 AM
			Development of the Caudal Fin Skeleton of Capelin <i>Mallotus villosus</i> (Osmeridae)	
		35	Zeehan Jaafar*, Lynne Parenti	11:45 AM
			Phylogenetic Analysis of the Oxudercus Clade: Morphology Meets Molecules	
LUNCH ON YOUR OWN				12:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Morning Sessions

ROOM		<i>Banquet Room G</i>		<i>Banquet Room H</i>
SESSION/ SYMPOSIUM		FISH SYSTEMATICS & TAXONOMY I		HL LIZARD AND TUATARA REPRODUCTION SYMPOSIUM
MODERATOR		KYLE PILLER		STAN TRAUTH
8:00 AM	666	Mark Westneat		
		Parrotfishes are Wrasses: Large Scale Phylogeny, Morphology, Taxonomy and Evolution of Labrid Fishes		
8:15 AM	151	Prosanta Chakrabarty*, Caleb McMahan		Introduction
		How Old are Cichlids?		
8:30 AM	531	Henry Bart*, Dorothy Nyingi, Nathan Gichuki, et al	268	John Wiens
		Molecular Phylogenetic Evidence of Unrecognized Diversity and Differing Divergence Histories Across Several Clades of Freshwater Fishes from Central and Southern Kenya		Phylogeny of Lizard Families: Resolving Relationships, Overcoming Controversy
8:45 AM	453	Jonathan Armbruster*, Carla Stout, Malorie Hayes		
		An Empirical Test for Convergence and Social Mimicry Using African Barbs (Cypriniformes)		
9:00 AM	465	Kyle Piller*, Emily Moriarty Lemmon, Alan Lemmon	78	James Van Dyke
		A Phylogenetic Investigation of the Cyprinodontiformes Using Anchored Phylogenomics		To Breed or Not to Breed: Transcriptomic Approaches for Determining how Reptiles Decide to Reproduce
9:15 AM	79	Caleb McMahan*, Lauren Cooper, Wilfredo Matamoros, et al		
		Systematics of the Genus Poeciliopsis (Cyprinodontiformes: Poeciliidae)		
9:30 AM		BREAK - Exhibit Hall C & D		
SESSION/ SYMPOSIUM		FISH SYSTEMATICS & TAXONOMY I		HL LIZARD AND TUATARA REPRODUCTION SYMPOSIUM
MODERATOR		BEN KECK		STAN TRAUTH
10:00 AM	493	Benjamin Keck*, Phillip Hollingsworth, Thomas Near	37	Dustin Siegel
		Geologic Stability and the Diversification of Fishes within the Eastern Highlands.		Cloacal Anatomy of Female Lepidosaurs
10:15 AM	686	William Crampton*, Nathan Lovejoy, Carlos David de Santana, Joseph Waddell		
		Phylogeny, Biogeography, and Electric Signal Diversification in the Neotropical Electric Knifefish Genus Brachyhypopomus.		
10:30 AM	689	Nathan Lovejoy*, Kristen Brochu, Javier Maldonado- Ocampo, William Crampton	23	David Sever
		The Biogeography of Electro-crypsis in Gymnotus Electric Fishes		Anatomy of Female Sperm Storage in Lizards
10:45 AM	52	Christopher Hoagstrom*, Kathie Taylor		
		Evidence that a Centrifugal-Speciation/Taxon-Cycle Process Produced Endemism in the Ouachita Mountains via Peripheral Isolation		
11:00 AM	26	D Ross Robertson*, Katie Cramer	40	Stan Trauth
		Defining and Dividing the Greater Caribbean: a shorefish biogeographical perspective		Anatomy of the Distal Urogenital Duct System and Cloaca in Lizards
11:15 AM	146	Jay Stauffer, Timothy King*		
		Designation of a Neotype for Brook Trout, <i>Salvelinus fontinalis</i>		
11:30 AM	609	Peter Unmack*, Justin Bagley, Aaron Davis, et al	695	Edith Arenas Rios, Nora Irbargüengoytia, Norma Manriquez, Fausto Méndez*
		Phylogeny, Biogeography and Evolution of the Temperate Perches (Percichthyidae)		Male Reproductive Cycles in Lizards
11:45 AM				
12:00 PM		LUNCH ON YOUR OWN		

* denotes presenter

2014 Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN

ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Morning Sessions

	<i>Banquet Room I</i>		<i>Banquet Room J</i>	ROOM
	HERP CONSERVATION II		REPTILE GENETICS & EVOLUTION	SESSION/ SYMPOSIUM
	ROBERT REED		GRAHAM REYNOLDS	MODERATOR
440	Bruce Kingsbury*, Evin Carter			8:00 AM
	Copperheads, Invasive Plants, and Ecological Traps			
744	Robert E. Ortega*, Steven Salinas, Justin Saiz, Jesus Rivas	575	Matthew Heinicke*, Aaron Bauer, Todd Jackman	8:15 AM
	The Impact Of Invasive Bullfrogs On The Demographics Of Northern Leopard Frogs In Northern New Mexico		Phylogenetic Relationships in a Mini-radiation South African Geckos	
549	Robert N. Reed*, Brian Todd, Oliver Miano, et al	284	Maria Fernanda Medina*, Eli Greenbaum, Aaron Bauer, William Branch	8:30 AM
	Biology and Control of Exotic Banded Watersnakes (Nerodia fasciata) in an Urban Lake in Los Angeles, California		Systematics of African Skinks in the Panaspis wahlbergi Complex	
444	Elisa Cabrera Guzmán*, Michael Crossland, Richard Shine	246	Aaron Bauer*, Juan Daza, Edward Stanley, et al	8:45 AM
	Native Arthropods Prey on Invasive Cane Toads (Rhinella marina) in Tropical Australia		A Mid-Cretaceous Lizard Fauna in Amber from Myanmar	
145	Lu Zhang*, Andrew Kouba, Hongxing Zhang, et al	530	Nicole Valenzuela*, Itay Mayrose, Niv Sabath, Shai Meiri	9:00 AM
	Post-release Movement of Captive-reared Chinese Giant Salamanders (Andrias davidianus) in the Qinling Mountains, China		Sex Determination and the Birth and Death of Turtle and Squamate Species.	
257	Erin Muths*, Larissa Bailey, Mary Kay Watry	131	R. Graham Reynolds*, Matthew Niemiller, Liam Revell	9:15 AM
	Quantifying Reintroduction: Interim Results and an Innovative Assessment of Survival		The Boa and Python Tree of Life	
BREAK - Exhibit Hall C & D				9:30 AM
	HERP CONSERVATION II/ HERP BEHAVIOR		HERP CONSERVATION III	SESSION/ SYMPOSIUM
	STANLEY FOX		THOMAS WILSON	MODERATOR
696	Sarah Wylie*, Daniel Wylie, Michael Dreslik, Christopher Phillips	231	Phil Bishop*, James Lewis, Candace Hansen, et al	10:00 AM
	Translocation as a Conservation Tool for an Endangered Rattlesnake in Illinois		Resuscitating the Amphibian Conservation Action Plan (ACAP)	
537	Anne Devan-Song*, Nancy Karraker	669	Thomas Wilson*, Andy Carroll, Joe Simpson, et al	10:15 AM
	Long-Distance Translocation is Not a Viable Conservation Option for Bamboo Pit Vipers (Trimeresurus albolabris)		Amphibians, Wetlands and the Faces of Development: Who gets the Gig?	
499	Andrea Acevedo, Matt Lovern, Stanley Fox*	606	Bradley Reynolds*, Thomas Wilson	10:30 AM
	Effects of Testosterone and Dihydrotestosterone on Coloration and Behavior of Male Hatchling Collared Lizards <i>Crotaphytus collaris</i>		Transformational Leadership, Hands-on Herpetology, and Reflective Journaling: Impacting Student Conservation Ethic	
525	Tracy Langkilde*, Lindsey Swierk, Courtney Norjen	107	Kristen Cecala	10:45 AM
	Bearded Ladies: Female Lizards Suffer Fitness Consequences When Bearing Male Traits		Estimating the Efficacy of Alternate Conservation Scenarios for Wetland Amphibian Conservation	
20	Leah Jacobs*, Jeanne Robertson, Andres Vega	764	Robert Lovich*, Chris Petersen, Sarah Stallings	11:00 AM
	Female Mate Choice in Divergent Populations of Red-Eyed Treefrog		Herpetofauna on Department of Navy Lands in the Continental United States	
313	Mark Oliva	500	Brian Shamblyn*, Mark Dodd, DuBose Griffin, et al	11:15 AM
	Mate Recognition and Attraction in the Executioner Treefrog: Producing a Killer Attractive Call		Genetic Capture-recapture to Assess Reproductive Parameters for Loggerhead Turtles Nesting in the	
87	Xavier Glaudas	650	Todd Jackman*, Aaron Bauer, Ross Sadler, et al	11:30 AM
	The Effect of Food Intake on Male Mate-Searching Activities in Puff Adders (Bitis arietans)		Conservation Priorities for Endemic Geckos and Skinks in Southern New Caledonia Using Mitochondrial and Nuclear Sequence Data	
300	Samantha Dean*, Betsie Rothermel, Michael Yuan	184	Max Nickerson*, Kirsten Hecht-Kardasz, Joseph Mitchell	11:45 AM
	Effects of Age and Size on Gopher Tortoise (Gopherus polyphemus) Courtship and Mating Behaviors		Are Fish Responsible for the Decline of Hellbender Salamander (Cryptobranchus alleganiensis) Populations?	
LUNCH ON YOUR OWN				12:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Afternoon Sessions

ROOM		Banquet Room E		Banquet Room F
SESSION/ SYMPOSIUM		AES GENETICS, GENOMICS & SYSTEMATICS		FISH ECOLOGY II
MODERATOR		TOBY DALY-ENGEL		KIRK WINEMILLER/MARK PETERSON
1:30 PM			31	Bradley Ennis, Mark S. Peterson*
				Nekton and Macro-Crustacean Habitat Use of Mississippi Micro-Tidal Saltmarsh Landscapes
1:45 PM			144	Jake Schaefer*, Nkrumah Frazier, Jonathan Barr
				Mississippi Coastal Fish Assemblage Structure and Dynamics Before and After the Deepwater Horizon Oil-spill
2:00 PM	490	Toby Daly-Engel*, Dean Grubbs, Shawn Larson	263	Kirk Winemiller*, Chouly Ou
		Phylogeography Across the Global Range of an Ancient Deep-water Predator: the Bluntnose Sixgill Shark (<i>Hexanchus griseus</i>)		Fishes and Food Webs in the Mekong River and Its Tributaries: A Preview of Life after New Dams Are Constructed
2:15 PM	373	Chris Chabot*, Mario Espinoza, Ismael Mascareñas Osorio, Axayacatl Rocha-Olivares	299	Mauro Belleggia*, Daniel E. Figueroa, Gabriela Irusta, et al
		Population Structure and Gene Flow in the Brown Smoothhound Shark, <i>Mustelus henlei</i> , in the Northeastern Pacific		The Diet of the Argentine Hake <i>Merluccius hubbsi</i> in Patagonian Waters
2:30 PM	655	David Portnoy*, Chris Hollenbeck, John Gold	723	Charles W. Olaya-Nieto*, José D. Pérez-González, Aracely Ojeda-Julio
		Historical Genetic Demography and Stock Structure of the Blacknose Shark, <i>Carcharhinus acronotus</i> , in the western North Atlantic		Trophic Ecology of <i>Chipe Hoplosternum magdalenae</i> in the Ciénaga Grande de Llorica, Colombia
2:45 PM	110	Shannon Corrigan*, Lei Yang, Chenhong Li, et al	654	Seiji Miyazono*, Christopher Taylor
		The Chondrichthyan Tree of Life Project		Environmental Correlates of Fish Life-history Strategies in Spring-fed Desert Tributaries
3:00 PM	576	Jennifer Wyffels*, Benjamin King, James Vincent, et al	36	Tim Berra*, Tim Berra, David Crook, Dion Wedd
		Transcriptome Sequencing, De novo Assembly, and Annotation of Three Chondrichthyan Fishes, <i>Leucoraja erinacea</i> , <i>Scyliorhinus canicula</i> , and <i>Callorhynchus milii</i>		Use of Otolith Strontium Isotope Analysis to Determine the Salinity Histories of a Tropical Riverine Fish, the Nurseryfish <i>Kurtus quilliveri</i> (Perciformes: Kurtidae)
3:15 PM	221	Joao Pedro Fontenelle*, Marcelo Carvalho	615	Jennifer Herbig*, Stephen Szedlmayer
		Morphological Variation and Distribution of the Potamotrygon scobina Species Complex in the Amazon Basin (Chondrichthyes: Potamotrygonidae)		Movement Patterns of Gray Triggerfish, <i>Balistes capricus</i> , around Artificial Reefs in the Northern Gulf of Mexico.
3:30 PM	242	Joao Paulo Capretz Batista da Silva*, Marcelo Rodrigues de Carvalho	92	Kathryn Buckley
		A Reinterpretation of the Pectoral Articulation in Elasmobranchs (Chondrichthyes)		The Ecology of Juvenile Largemouth Sawfish <i>Pristis pristis</i> in the Adelaide River, Northern Territory, Australia: Movement Patterns and Habitat Use.
3:45 PM		AES Business Meeting	539	Reid Adams*, Lindsey Lewis, Tommy Inebnit, et al
				Seven Years of Monitoring the Reproductive Ecology of Alligator Gar in the Fourche LaFave River System, Arkansas
4:00 PM	POSTER SESSION II Exhibit Hall C & D			
5:00 PM				
6:00 PM				

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Afternoon Sessions

	<i>Banquet Room G</i>		<i>Banquet Room H</i>	ROOM
	FISH GENETICS		HL LIZARD AND TUATARA REPRODUCTION SYMPOSIUM	SESSION/ SYMPOSIUM
	MARLIS DOUGLAS/TIM KING		DUSTIN SIEGEL	MODERATOR
617	Michelle Kraczkowski*, Barry Chernoff	159	Kevin Gribbins*, Justin Rheubert	1:30 PM
	Post-glacial Recolonization History of the Eastern Blacknose Dace, <i>Rhinichthys atratulus</i>		Histological Survey of Spermiogenesis in Lizards	
726	Peter Berendzen*, Ryan Kurtz			1:45 PM
	Distribution, Habitat Preference, and Demographic Pattern of <i>Moxostoma duquesnei</i> (Black Redhorse) in Iowa			
351	Thomas Turner*, Megan Osborne, Tyler Pilger, David Propst	147	James R. Stewart*, Tom W. Ecyay	2:00 PM
	Origin and Diversification of Rio Grande Sucker (<i>Pantosteus plebeius</i>) in the Gila River Basin		Reproductive Biology of Lizards: Influence of Mode of Parity on Embryonic Calcium Nutrition	
527	Max Bangs*, Marlis Douglas, Michael Douglas			2:15 PM
	Range-wide Assessment of Hybridization and Introgression in Bluehead Sucker (<i>Catostomus discobolus</i>)			
275	Marlis R Douglas*, Whitney JB Anthony, Mark A Davis, et al	46	Daniel Blackburn*, James Stewart	2:30 PM
	Bluehead Sucker and the Complex Drainage History of the Upper Little Colorado River		Placental Specializations in Placentotrophic Viviparous Lizards	
535	Tim King*, Jay Stauffer, Matthew Kulp, et al			2:45 PM
	Islands in the Stream: Genetic Analysis of Brook Trout (<i>Salvelinus fontinalis</i>) Population Structure and Demographics Reveals a High Degree of Population Fragmentation and Prodigious Differentiation Within and Among Streams			
361	Amanda Haponski, Carol Stepien*	343	Alison Cree	3:00 PM
	Genetic History of Maumee River Spawning Walleye (<i>Sander vitreus</i>): Comparisons of Adult and Larval Gene Pools		The Challenges of an Evolutionary Relict: Reproductive Biology of the Tuatara	
408	Barry Chernoff*, Michelle Kraczkowski, Julio Angel, et al			3:15 PM
	Over the falls: Population Differentiation of Blacknose and Longnose Dace, <i>Rhinichthys atratulus</i> and <i>R. cataractae</i> , in Connecticut			
754	Jennifer Gumm*, Cory Becher, Christopher Brooks, Gene Wilde		DISCUSSION	3:30 PM
	Genetic and Behavioral Analysis of Hybridization Between Red River Pupfish (<i>Cyprinodon rubrofluvialis</i>) and Sheepshead Minnow (<i>Cyprinodon variegatus</i>)			
412	Michael Schwemm*, Anthony Echelle, Ronald Van Den Bussche, Jason Schooley			3:45 PM
	Comparison of Genetic Structure Across Age-Groups of Paddlefish in Grand Lake, Oklahoma			
POSTER SESSION II Exhibit Hall C & D				4:00 PM
				5:00 PM
	ASIH Business Meeting 6-8 p.m.			6:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SATURDAY, 2 August, Afternoon Sessions

ROOM		<i>Banquet Room I</i>		<i>Banquet Room J</i>
SESSION/ SYMPOSIUM		ICH & HERP PHYSIOLOGY		HERP CONSERVATION IV
MODERATOR		EMILY TAYLOR		BRIAN HALSTEAD
1:30 PM	333	Michael DeLea*, Dale DeNardo, Emily Taylor	783	Michael F. Bates
		The Role of Chemoreception in Rattlesnake Spatial Navigation		The Southern African Reptile Conservation Assessment Project
1:45 PM	130	Kyle Weichert, Emily Taylor*	104	Timothy Baldwin*, Yong Wang, Callie Schweitzer
		Lizard vs. Spirochete SmackDown! Fat Females Take the Bactericidal Title		The Influence of Forest Management Practices on Breeding Pool Accessibility, Breeding Site Selection, and Breeding Performance of Amphibians in Grundy County, Tennessee
2:00 PM	415	Benjamin Johnson*, Kelly Zamudio	218	Jessica Duke*, Joseph Pechmann
		Range-Wide Variation in Physiological and Transcriptomic Response to Thermal Challenge in the Spotted Salamander (<i>Ambystoma maculatum</i>)		Assessing the Effectiveness and Value of Wetland Habitat Created for Amphibians in the Nantahala National Forest in NC.
2:15 PM	678	Frank Bailey, Vince Cobb, Matthew Klukowski*, Jake Pruett	238	Kaite Anderson
		Sexually Dimorphic Corticosterone Responses to an Acute Stressor in Cottonmouths (<i>Agkistrodon piscivorus</i>)		Impacts of Human Recreation and Hydroelectric Flow Regime on Basking Behavior in Northern Map Turtles, <i>Graptemys geographica</i>
2:30 PM	155	Jenna Crovo*, Carol Johnston	330	Brian Halstead*, Glenn Wylie, Melissa Amarello, et al
		A Little Less Noise There: Traffic Noise Increases Cortisol Levels in <i>Cyprinella venusta</i>		Short-term Effects of Prescribed Fire on Apparent Survival of San Francisco Gartersnakes (<i>Thamnophis sirtalis tetrataenia</i>)
2:45 PM	647	Nicholas Wegner*, Owyn Snodgrass, Heidi Dewar, John Hyde	279	Pietro Mello*, Ricardo Machado, Cristiano Nogueira
		Evidence for Pectoral Endothermy in the Opa, <i>Lampris guttatus</i>		Extinction Risk and Conservation of Endemic Squamates in the Cerrado Savanna, a Highly Threatened Biodiversity Hotspot
3:00 PM	302	Amber Ferguson*, Daniel Huber, Philip Motta	114	Allison Sacerdote-Velat
		Feeding Performance of King Mackerel, <i>Scomberomorus cavalla</i>		An Occupancy-based Conservation Assessment of Smooth Greensnakes (<i>Opheodrys vernalis</i>) in Northern Illinois.
3:15 PM	628	Jeffrey Goessling*, Mary Mendonca, Craig Guyer	616	Mickey Agha*, Jeffrey E. Lovich, Joshua R. Ennen, et al
		Seasonal Acclimation of Immune Parameters in Gopher Tortoises		Variation in Agassiz's Desert Tortoise (<i>Gopherus agassizii</i>) Survivorship along a Wilderness to Industrial Disturbance Gradient
3:30 PM	245	Leigh Anne Harden*, Amanda Williard, Kimberley Duernberger, T. Todd Jones	458	Brian Todd*, J. Mark Peaden, Melia Nafus, et al
		Water Relations of the Estuarine Diamondback Terrapin from Dormancy to Activity		Quantifying Road Effect Zones for Desert Tortoises (<i>Gopherus agassizii</i>) to Estimate Benefits of Mitigation and Habitat Protection
3:45 PM	216	Amanda Williard*, Leigh Anne Harden, Stephanie Chavez	772	Matthew Cross*, Gregory Lipps, Jr., Karen Root
		Effects of Temperature on Metabolism and Osmotic Balance in the Estuarine Diamondback Terrapin		Temporal Distributions of Female Eastern Box Turtles in a Biodiversity Hotspot
4:00 PM	POSTER SESSION II Exhibit Hall C & D			
5:00 PM				
6:00 PM		SSAR Business Meeting 6-8 p.m.		

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Morning Sessions

	<i>Banquet Room E</i>		<i>Banquet Room F</i>	ROOM
	HERP ECOLOGY II		FISH BEHAVIOR	SESSION/ SYMPOSIUM
	LISA REGULA MEYER		MOLLY MORRIS	MODERATOR
256	Drew Dittmer*, Joseph Bidwell	303	Joshua Hubbell*, Heidi Banford	8:00 AM
	What's the Rock Got to do with it? The Influence of Australia's Iconic Inselberg on Herpetofaunal Assemblages		Analysis of the Spawning Behavior and Microhabitat of the Tallapoosa Darter	
357	Sean Giery*, Nathan Lemoine, Caroline Hammerschlag-Peyer, et al	762	Raelynn Deaton Haynes*, J. Alex Carr, Hillary Evans, Natalie Willard	8:15 AM
	Cross-habitat Trophic Coupling by Anolis Lizards: Allochthonous Inputs Follow Diverse Routes Between Food Webs		Social Dominance-based Mating Preferences in Livebearing Fishes	
566	Joseph Simpson*, Thomas Wilson, Team Salamander	550	Karen Martin	8:30 AM
	An Assessment of a Herpetofaunal Community in Southeastern Tennessee: Ecology, Biodiversity, Threats, and Conservation Status		A Leap of Faith: Beach Spawning in Fishes has Multiple Independent Origins	
667	Lisa Regula Meyer	521	Thomas Luhring*, Michael Wagner	8:45 AM
	Experimental Venue and Effects on Experimental Results in a Study of Amphibian Ecology		Chemical Risk Information Guides Migratory Movements of Semelparous Sea Lamprey: Implications for Control and Conservation.	
59	Jon Davenport*, Blake Hossack, Winsor Lowe	476	Leo Demski	9:00 AM
	Partitioning the Non-consumptive Effects of Predators on Prey with Complex Life Histories		The Vertical Body Bands in Bluegills (<i>Lepomis macrochirus</i>): a Review of Studies and a Possible Model System for Understanding Neural Substrates of Fear and Inhibition of Aggression	
168	Megan Young*, Toby Hibbitts	71	Molly Morris	9:15 AM
	Home Range and Movements of the Dunes Sagebrush Lizard (<i>Sceloporus arenicolus</i>) in Fragmented Habitat		Intralocus Tactical Conflict and the Evolution of "Reversible" Alternative Reproductive Tactics	
BREAK - Foyer				9:30 AM
	AES MORPHOLOGY & REPRODUCTION		NIA	SESSION/ SYMPOSIUM
	KARA YOPAK		BRIAN SIDLAUSKAS	MODERATOR
308	Kara Yopak*, Thomas Lisney, Shaun Collin	587	Brian Sidlauskas*, Michael Alfaro, Michael Burns, et al	10:00 AM
	Wake Up and Smell the Evolution: Variation in Olfactory Bulb Size in Cartilaginous Fishes		New Molecular Insights into the Exceptional Morphological Radiation of Neotropical Headstanding Fishes (<i>Characiformes: Anostomoidea</i>)	
703	Ashley Peterson, Misty Paig-Tran*, Adam Summers	380	James Albert*, Donald Schoolmaster, Scott Duke-Sylvester	10:15 AM
	Mega Filtration: Using Biomimetic Models to Understand Manta Ray Feeding.		A Spatially-explicit Neutral Model Predicts Accumulation of Early Branching, Species-poor Clades Towards the Geographic Periphery	
126	Carl Luer*, Cathy Walsh, Jennifer Wyffels, Laura Edsberg	701	Brandon Waltz	10:30 AM
	Experimental Wounding of Atlantic Stingrays, <i>Dasyatis sabina</i> : Correlating Gross Physical Changes with Wound Bed Histology in the Healing Response		Morphological Variation in the <i>Eigenmannia virescens</i> Species Group (<i>Gymnotiformes: Sternopygidae</i>)	
731	Jim Gelsleichter*, R. Dean Grubbs, Gregg Poulakis, et al	578	Cristina Cox Fernandes*, Adília Nogueira, Andrew Williston, José Alves-Gomes	10:45 AM
	Hermaphroditism and Other Aspects of Reproduction in the Endangered Smalltooth Sawfish (<i>Pristis pectinata</i>)		Diversity of <i>Microsternarchus</i> (<i>Gymnotiformes, Hypopomidae</i>) from Negro River Basin	
243	Jill Hendon*, Eric Hoffmayer, Jeremy Higgs, et al	561	Marcelo Melo*, Flavio Lima, Mauro Ribeiro	11:00 AM
	Reproductive Biology of the Blacknose Shark, <i>Carcharhinus acronotus</i> , in the Northern Gulf of Mexico		The Rectangle of Fish Biodiversity in Central Brazil: Insights from the Genus <i>Characidium</i> (<i>Crenuchidae: Characiformes</i>)	
390	Melissa Gonzalez De Acevedo*, Jim Gelsleichter, Bryan Frazier, et al	404	Victor Tagliacollo*, Scott Duke-Sylvester, Fabio Roxo, et al	11:15 AM
	Characterization of Reproduction in Bonnethead Sharks (<i>Sphyrna tiburo</i>) from the Southeastern U.S. Atlantic Coast		Uncovering Large-scale River Capture Events in Amazonian Lowlands	
446	Melisa Chierichetti, Lorena Scenna, Daniel Figueroa*, et al	160	Tiago Pinto Carvalho	11:30 AM
	Reproductive Biology of the Cockfish, <i>Callorhynchus callorhynchus</i> (<i>Holocephali: Callorhynchidae</i>), in a Coastal Area off Argentina		A New Miniature Species of Banjo Catfish (<i>Siluriformes: Aspredinidae</i>) from Lower Purus River in the Amazon Basin, Brazil.	
		376	Caroline Arantes*, Kirk Winemiller, Miguel Petreire, et al	11:45 AM
			Influence of Deforestation on Fisheries in the Amazon Floodplains	
LUNCH ON YOUR OWN				12:00 PM

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Morning Sessions

ROOM		<i>Banquet Room G</i>		<i>Banquet Room H</i>
SESSION/ SYMPOSIUM		FISH SYSTEMATICS & TAXONOMY II		HERP DEVELOPMENT, MORPHOLOGY & HISTOLOGY
MODERATOR		CASEY DILLMAN		FRAN IRISH
8:00 AM	304	Diego Vaz*, Marcelo Carvalho	288	Thomas Lozito*, Rocky Tuan
		Morphological and Taxonomic Revision of the Genus <i>Centroscyminus</i> with Comments on the Generic Arrangement Within the Family Somniosidae (Chondrichthyes: Squaliformes).		Lizard Tail Regeneration, a New Model to Study Cartilage Regeneration: Role of Indian Hedgehog
8:15 AM	264	Shobnom Ferdous*, Jonathan Armbruster	639	Carlos Infante*, Sungdae Park, Alexandra Mihala, Douglas Menke
		The Identity of Catfishes Identified as <i>Mystus gulio</i> (Hamilton, 1822) (Teleostei: Bagridae), and Designation of a Neotype		The Evolution of Limb Enhancers in Lizards and Snakes
8:30 AM	192	Stuart Welsh*, Dean Jerry, Damien Burrows	41	Joseph R. Mendelson III*, Hamidreza Marvi, Chaohui Gong, et al
		A New Species of Freshwater Eel-tailed Catfish of the Genus <i>Tandanus</i> (Teleostei: Plotosidae) from the Wet Tropics Region of Eastern Australia		Sidewinder Rattlesnakes Inform Design of Robotic Devices: the Beauty of Multidisciplinary Research Teams
8:45 AM	356	Kean Clifford*, Donald Stewart	10	Stan Trauth*, Kevin Gribbins, David Sever, et al
		Morphological Variation in the Bowfin (<i>Amia calva</i>), with a Review of Nominal Species: Conservation Implications		Unusual Spermatogenic, Spermiogenic, and Spermatozoal Features in the Western Lesser Siren, <i>Siren intermedia nettingi</i>
9:00 AM	185	Katie May Laumann*, Eric J. Hilton, Casey B. Dillman, et al	523	Dean Adams
		Sturgeon Phylogenetics: A Whole Mitogenomic Approach		Elevated Rates of Morphological Evolution in Montane Endemic Species of Plethodon Salamanders
9:15 AM	468	Casey Dillman*, Eric Hilton	730	Frances Irish*, Jennifer Kober
		Nuclear DNA Sequences and Their Bearing on Our Understanding of the Phylogenetic Relationships of Sturgeons (Acipenseridae).		Sand Boa Jaws are Specialized for Snagging Prey
9:30 AM		BREAK - Foyer		
SESSION/ SYMPOSIUM		FISH SYSTEMATICS & TAXONOMY III		HERP ECOLOGY III
MODERATOR		MARK SABAJ PEREZ		KATHERINE GREENWALD
10:00 AM	511	Mark Sabaj Pérez	624	Katherine Greenwald
		On the Identity of Catesby's Fish in Armour, "Cataphractus Americanus" (Siluriformes: Doradidae); a Handmaiden's Tale.		Capture-Mark-Recapture Analysis and Demography in a Unisexual-Bisexual <i>Ambystoma</i> Salamander Community
10:15 AM	258	Nathan K. Lujan*, Jonathan W. Armbruster, Nathan R. Lovejoy, Hernán López-Fernández	574	Jesse Miles*, Walter Smith
		Multilocus Molecular Phylogeny of the Suckermouth Armored Catfishes (Siluriformes: Loricariidae) with a Focus on the Subfamily Hypostominae		Effects of Riparian Habitat Disturbance on Salamander Occupancy and Assemblage Composition
10:30 AM	434	Richard L. Mayden*, Brooks M. Burr, Lourdes Lozano-Vilano	58	Richard Bruce
		A New Species of <i>Cycleptus</i> (Cypriniformes: Catostomidae) from the Rio Grande Drainage		Reproductive Allometry in Three Species of Dusky Salamanders as Evidence of Life-History Symmetry in the genus <i>Desmognathus</i>
10:45 AM	309	Phillip Hollingsworth*, C. Darrin Hulsey	101	Joseph Milanovich*, William Peterman
		Adaptive Radiation Along a Benthic/Pelagic Foraging Axis in Eastern North American Cyprinids		Examining the Spatial Variation of the Standing Crop of Nutrients Within A Terrestrial Salamander in a Forest Ecosystem
11:00 AM	28	Carole C. Baldwin*, G. David Johnson, D. Ross Robertson	170	Julia Earl*, Sean Blomquist, Christopher Conner, et al
		New Discoveries in the Caribbean Sea: Integrative Taxonomy Reveals Two New Species of <i>Liopropoma</i> (Serranidae: Epinephelinae: <i>Liopropomini</i>) from Deep Reefs off Curaçao and the Surprising Identity of an Unusual Fish Larva from the Florida Straits.		Estimates of Amphibian Biomass Export from Ponds in Maine and Missouri, USA
11:15 AM	464	Matthew Craig*, Elizabeth Smith, John Hyde, Larry Allen	179	Rick Relyea*, John Hammond, Patrick Stephens, et al
		How Many Species of Wreckfishes (Genus <i>Polyprion</i>) are There?		Phylogenetic Patterns of Plasticity: Insights from Amphibian Embryos and Tadpoles
11:30 AM	418	Rich Harrington*, Matt Friedman	72	James Godwin*, Lesley de Souza
		Morphological Diversification in Carangimorphs: Perspectives from the Modern Day and the Fossil Record		Black Warrior Waterdog (<i>Necturus alabamensis</i>) and Flattened Musk Turtle (<i>Sternotherus depressus</i>) Status Survey using Environmental DNA (eDNA)
11:45 AM			213	Roy Scudder-Davis*, Christina Benedict, Alyssa Hubbard, et al
				Diversity and Abundance of Salamanders in Relation to Human Development in Six Selected Stream Habitats in Central Kentucky
12:00 PM		LUNCH ON YOUR OWN		

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Morning Sessions

	<i>Banquet Room I</i>		<i>Banquet Room J</i>	ROOM
	HERP REPRODUCTION		HERP BIOGEOGRAPHY & PHYLOGEOGRAPHY	SESSION/ SYMPOSIUM
	CRAIG LIND		MICHAEL DOUGLAS	MODERATOR
				8:00 AM
306	M. Rockwell Parker	276	Michael E Douglas*, Mark A Davis, Marlis R Douglas, et al	8:15 AM
	How to Smell Sexy: Hormonal Architecture Underlying Pheromone Expression in Garter Snakes		From Pleistocene to Anthropocene: Climate Change and its Impact on Distribution of the Arizona Black Rattlesnake (<i>Crotalus cerberus</i>)	
105	Craig Lind*, Steven Beaupre	25	Fernanda Werneck*, Rafael Leite, Silvia Geurgas, Miguel Rodrigues	8:30 AM
	The Relationship Between Stored Energy, Steroid Hormones, Movement, and Behavior During the Breeding Season in Male Timber Rattlesnakes, <i>Crotalus horridus</i> .		Diversification of the Neotropical Rock Specialist Lizards from the <i>Tropidurus semitaeniatus</i> Species Group (Squamata: Tropiduridae)	
90	Neil Ford, Richard Seigel*	16	Adam Leache*, Rebecca Harris, Max Maliska, Charles Linkem	8:45 AM
	The Influence of Female Body Size and Shape on the Trade-Off Between Offspring Number and Offspring Size in Two Viviparous Snakes		Comparative Species Divergence Across Eight Triplets of Spiny Lizards (<i>Sceloporus</i>) Using Genomic Sequence Data	
188	Wade Carruth*, Brad Lock, David Rostal	320	Kerry Cobb*, Cameron Siler, Arvin Diesmos, Rafe Brown	9:00 AM
	The Reproductive Cycle of the Guatemalan Beaded Lizard, <i>Heloderma charlesbogerti</i>		Cryptic Diversity In a Widespread Island Archipelago Forest Frog	
57	Olivera Joksimovic*, Stephen De Lisle	229	Wade Ryberg*, Johanna Harvey, Anna Blick, et al	9:15 AM
	Static Allometry and the Evolution of Sexual Dimorphism in the Green Frog (<i>Lithobates clamitans</i>)		Interspecies Genetic Determination of the Massasauga Distribution in Texas	
BREAK - Foyer				9:30 AM
	HERP BEHAVIOR II		HERP & ICH GENOMICS	SESSION/ SYMPOSIUM
	SHERRI EMER		RAFE BROWN	MODERATOR
739	Sherri Emer*, Cordula Mora, Mark Harvey, Michael Grace	765	Michelle Gaither, Moises Bernal, Richard Coleman, Brian Bowen, Shelley Jones, Brian Simison, Luiz Rocha*	10:00 AM
	The Heat is On: Behavioral Sensitivity of Burmese Pythons to Thermal Stimuli		Genomic Evidence for Ecological Speciation in a Coral Reef Fish	
253	Ryo Ito*, Akira Mori	494	Kevin Kingsland*, Matthew Geisler, Brian Small, et al	10:15 AM
	Non-vocal Lizards in Madagascar Eavesdrop on Avian Alarm Calls		Transcriptome Annotation in Scaphirhynchus Sturgeons	
346	Enrique Font*, Esther Ortí, Elisa Toscano, Pau Carazo	355	Trevor Krabbenhoft*, Thomas Turner	10:30 AM
	Structure and Function of Lacertid Visual Displays: Foot Shaking in European Wall Lizards (<i>Podarcis muralis</i>)		Comparative Transcriptomics as a Tool for Fish Ecology: Functional Genetic Variation in Cyprinid Fishes	
711	Jake Pruett*, Cuauhcihuatl Vital, Jaime Zúñiga-Vega, et al	323	Carol Stepien*, Carson Prichard, Thomas Blomquist	10:45 AM
	Behavioral Responses to Conspecific Chemical Cues Among Four Species of <i>Sceloporus</i>		Species Identities and Relative Abundances of Entire Fish Communities Using Environmental DNA and Next-Generation Sequencing: Case Studies from the Great Lakes	
732	Melissa Wright*, Luciano Chiaverano, Brenden Holland	366	Rafe Brown*, Scott Travers, Karen Olson, et al	11:00 AM
	Role of Social Interaction and Habitat Suitability in Movement Behavior of Jackson's Chameleons in Hawaii		Ultraconserved Elements Resolve Shallow Divergences within a Complex of Cryptic Gecko Species from an Island Archipelago	
717	Richard Vogt*, Virginia Bernardes, Camila Ferrara	239	Charles Linkem*, Adam Leaché	11:15 AM
	Tracking Migrating Hatchling Giant Amazon River Turtles <i>Podocnemis expansa</i> in the Rio Trombetas, Brazil with Sonic Transmitters		Resolving Rapid Diversification Events in Scincidae Using Lizard-specific Sequence Capture Probes	
277	Sean Graham*, Crystal Kelehear, Tracy Langkilde	582	Catriona Hendry*, Frank Burbrink, Vincent Chou, et al	11:30 AM
	Trouble in Paradise: Responses of Anoles to Fire Ants in the British Virgin Islands.		Phylogenomic Data and Coalescent Species-Tree Methods for Resolving Difficult Nodes in the Phylogeny of Advanced Snakes (Serpentes: Caenophidia).	
528	Travis Robbins*, Tracy Langkilde			11:45 AM
	Exposure to an Invasive Species During Juvenile Development Results in Adaptive Behavior Mediated by the Stress Hormone Corticosterone			
LUNCH ON YOUR OWN				12:00 PM

* denotes presenter

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ORAL PRESENTATIONS SCHEDULE AT A GLANCE

SUNDAY, 3 August, Afternoon Sessions

ROOM		<i>Banquet Room E</i>		<i>Banquet Room F</i>
SESSION/ SYMPOSIUM		AES CONSERVATION & PHYSIOLOGY		FISH CONSERVATION & MANAGEMENT
MODERATOR		SONJA FORDHAM		GINNY ADAMS
1:30 PM	699	Sonja Fordham	234	Brad Pusey*, Sue Jackson, Michael Douglas, et al
		Conserving America's Forgotten Shark: Management of Dusky Smoothhound (<i>Mustelus canis</i>) Fishing in the U.S. Atlantic		"We Like to Listen to Stories about Fish": Integrating Indigenous Ecological and Scientific Knowledge to Inform Environmental Flow Assessments
1:45 PM	407	Catherine Macdonald	657	Justin Mann*, Henry Bart
		Risky Business: Shark Conservation and Limits on the Potential Global Expansion of Shark Tourism		Population Trends and Conservation Status of Louisiana's Rare Freshwater Fishes Using Data from Natural History Collections
2:00 PM	14	David Shiffman*, Neil Hammerschlag	409	Pablo Gesundheit*, Constantino Macías-García
		Conservation and Management Policy Preferences of Elasmobranch Researchers		The Roles of Hydrological Modification, Water Quality, and Species Introductions in the Decline of Native Freshwater Fishes in Central Mexico
2:15 PM	193	Jason O'Bryhim*, Douglas Adams, Julia Spaet, et al	363	Gerald Smith
		Relationships of Mercury Concentrations Across 23 Tissue Types For Three Shark Species		Conservation of Fishes and Amphibians in the Era of Hydraulic Fracturing for Gas and Oil
2:30 PM	19	Kady Lyons*, Ramon Lavado, Daniel Schlenk, Christopher G Lowe	383	Nicholas Mandrak
		Bioaccumulation of Organochlorine Contaminants and Response to Exposure in Male and Female Round Stingrays (<i>Urobatis halleri</i>) from Southern California		Fish Communities of the Great Lakes Have Changed, but not Homogenized
2:45 PM			644	Ginny Adams*, Casey Cox, Reid Adams, et al
				Should We Explore Passage Opportunities for American Eel (<i>Anguilla rostrata</i>) in the Ouachita River Basin, Arkansas?
3:00 PM		BREAK - Foyer		
SESSION/ SYMPOSIUM		HERP ECOLOGY & PHYLOGEOGRAPHY		FISH CONSERVATION & MANAGEMENT
MODERATOR		ALISON CREE		PHILIP LIENESCH
3:30 PM	80	David Steen*, Jim Godwin	567	Jacob Fose, Peter Zervas, Philip Lienesch*
		Recent Investigations of Snake Community Ecology with Potential Implications for Ongoing Indigo Snake Reintroductions in Alabama		Possible Reproductive Interference by Introduced Yellow Bass (<i>Morone mississippiensis</i>) on Native White Bass (<i>Morone chrysops</i>) in Barren River Lake, KY.
3:45 PM	773	Matt McElroy	538	David Bechler*, Josh Salter, Brett Albanese
		Phylogeographic Structure and Reduced Gene Flow Reveal the Potential for Local Thermal Adaptation in the Puerto Rican Crested Anole (<i>Anolis cristatellus</i>).		The Status of the Blackbanded Sunfish and Other Species of Concern in the State of Georgia
4:00 PM	249	Stephanie Dowell*, Evon Hekkala	652	Michael Flinn*, Jared Miliello
		Phylogeography of the Widespread Nile monitor, <i>Varanus niloticus</i>		Restoration and Movement Patterns of Juvenile Alligator Gar in Western Kentucky.
4:15 PM	388	Jeffrey Weinell*, Christopher Austin	529	Christina Saidak, Mark Cantrell, Carlos Echevarria, Kathlina Alford, Jason Henegar, Bernard Kuhajda*
		Phylogeography of the Scarlet Snake (<i>Cemophora coccinea</i>)		Movement Patterns of Lake Sturgeon (<i>Acipenser fulvescens</i>) in the Upper Tennessee River
4:30 PM	481	André Felipe Barreto-Lima*, Guarino Colli, Sandra Maria Hartz	389	Bret Harvey*, Rodney Nakamoto, Andrew Kinziger
		Ecology Niche Overlap between <i>Enyalius</i> ' Species (Squamata, Leiosaurinae): A Distribution Modelling for Neotropical Forest Lizards		Short Trips, Small Numbers: Introduced Cyprinids in the Eel River, Northwest California
4:45 PM			768	Glenys Tordecilla-Petro*, Fredys F. Segura-Guevara, Charles W. Olava-Nieto
				Length-Weight Relationship of Dorada Brycon sinuensis in the Sinu River Basin, Colombia
5:00 PM				

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SUNDAY, 3 August, Afternoon Sessions

	<i>Banquet Room G</i>		<i>Banquet Room H</i>	ROOM
	GENERAL ICHTHYOLOGY		HERP SYSTEMATICS	SESSION/ SYMPOSIUM
	PHIL COCHRAN		DAVID BLACKBURN	MODERATOR
				1:30 PM
318	Phil Cochran*, Scott Malotka, Daragh Deegan	17	Frank Portillo*, Eli Greenbaum, Maximilian Dehling, et al	1:45 PM
	Biology of Chestnut Lampreys (<i>Ichthyomyzon castaneus</i>) in the St. Joseph River Drainage in Northern Indiana		Phylogeography and Species Boundaries of Glode Eyed Treefrogs from the Albertine Rift	
638	Mark Meade*, Lindsay White, Megan Meade	34	David Blackburn*, Mareike Hirschfeld, Mark-Oliver Rödel	2:00 PM
	Occurrence of Asiatic Weatherfish, <i>Misgurnus anguillicaudatus</i> , in Northeast Alabama		A Complete Species-level Phylogeny of the Long-fingered Frogs (genus <i>Cardioglossa</i> , Arthroleptidae) and the Evolution of Their Coloration	
22	Bruce Stallsmith*, Gisela Reina, Rigoberto Gonzalez, et al	123	Lauren Oliver*, Elizabeth Scott-Prendini, Christopher Raxworthy	2:15 PM
	Monogonoidean Gill Parasites of the Poeciliid Fish <i>Brachyrhaphis episcopi</i> in Panama		Dispersal and Diversification of <i>Hylarana</i> Across Multiple Biogeographic Regions	
472	Stacy Farina*, Thomas Near, William Bemis	195	Eli Greenbaum*, Nancy Conkey, Rachel Romero, et al	2:30 PM
	Evolution of the Branchiostegal Membrane and Restricted Gill Openings in Actinopterygian Fishes		A Phylogeny of Central African Spiny Reed Frogs (Anura: Hyperoliidae: <i>Africalus</i>).	
374	Randy Singer*, Phillip Harris	267	Donald Shepard*, Rebecca Chong, Cheng Sun, et al	2:45 PM
	Back to the Future: Carrying the University of Alabama Ichthyology Collection into the Modern Age		Nuclear Markers for Shallow-scale Phylogenetics in Taxa with Giant Genomes: Resolving Relationships within the Plethodontid Salamander Genus <i>Desmognathus</i>	
BREAK - Foyer				3:00 PM
	FISH SYSTEMATICS & TAXONOMY IV		TURTLE ECOLOGY	SESSION/ SYMPOSIUM
	ERIC HILTON		GEORGE GUILLEN	MODERATOR
112	Kenneth Thompson	670	Meghan Kelley	3:30 PM
	Karyotype of <i>Centropristis striata</i> , the Black Sea Bass with a Discussion of Chromosome Evolution in the Serranidae.*		Maternal Midland Painted Turtle (<i>Chrysemys picta marginata</i>) Cues Attracting Olfactory Mammalian Predators to Nests	
487	Rebecca Varney*, Toby Daly-Engel, Dean Grubbs	54	Carla Eisemberg*, Arthur Georges	3:45 PM
	Preliminary Analysis of Genetic Variation in Three Species of Gulf of Mexico Hagfishes		Pig-nosed Turtle (<i>Carettochelys insculpta</i>) Coastal-riverine Nesting Dichotomy in the Kikori River, Papua New Guinea: Choice and Trade-offs	
719	Leo Smith	100	Sasha Greenspan, Erin Condon, Lora Smith*	4:00 PM
	Evolution of the Scorpionfishes and Allies		Home Range and Habitat Selection in the Eastern Box Turtle (<i>Terrapene carolina carolina</i>) in a Longleaf Pine forest	
685	Rebecca Farr*, Asadullah Siddiqui, Kevin Tang	261	Vivian P. Pérez*, Beatriz Rendón Valencia, Paula Espinal, Brian C. Bock	4:15 PM
	Molecular Phylogeny of Cusk-eels (Teleostei: Ophidiiformes: Ophidiidae)		Assessment of the Population Demographics of <i>Podocnemis lewyana</i> in the Middle Magdalena Drainage, Colombia.	
430	Matthew Davis	359	Joshua Ennen*, Marley Kalis, Adam Patterson, et al	4:30 PM
	Evolution and Diversification of the Lizardfishes (Teleostei: Aulopiformes)		Intradrainage Morphological and Pigmentation Variation and the Potential for Sexual Dichromatism within Several <i>Graptemys</i> Species.	
362	Peter Konstantinidis*, G. David Johnson	368	George Guillen	4:45 PM
	From <i>Rosaura</i> to <i>Gigantura</i> : An amazing Ontogenetic Journey		Movement and Habitat Utilization by the Texas Diamondback Terrapin, <i>Malaclemys terrapin littoralis</i>	
348	Eric Hilton			5:00 PM
	Osteology of Wolffishes (Zoarcoidei: Anarhichadidae): Historical Context and Preliminary Comparisons			

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ROOM		<i>Banquet Room I</i>		<i>Banquet Room J</i>
SESSION/ SYMPOSIUM		HERP GENETICS		SSAR INFRARED IMAGING SYMPOSIUM
MODERATOR		AARON SCHREY		MICHAEL GRACE
1:30 PM				Introduction
1:45 PM	250	Jared Wood*, Todd Campbell, Robert Page	779	G.S. Bakken, A.R. Krochmal*, W.B. Gerwig, T.J. LaDuc
		Population Genetic Analysis Enables Insights into the Introduction Histories of Two Florida Invasives: The Nile Monitor (<i>Varanus niloticus</i>) and the Argentine Black & White Tequ (<i>Tupinambis merianae</i>)		Evolution is in the (Thermal) Eye of the Beholder: Anatomical and Ecological Influences on the Evolution of the Facial Pits of Pitvipers
2:00 PM	437	Aaron Schrey*, Kyle Adams, Joyce Bongang, et al	780	Wilmar Bolivar-Garcia*, Marta M. Antoniazzi, Taran Grant, Carlos Jared
		The Effect of Fire-based Habitat Disturbances on the Genetic Characteristics of Florida Scrub Herpetofauna.		Relationship Between Pit Organ Morphology and Ecology of Central and South American Crotaline Snakes
2:15 PM	457	Rebecca Tarvin*, Juan Santos, Lauren O'Connell, et al	781	S.A. Emer*, C. Mora, M. Harvey, M.S. Grace
		Genetic Basis of Alkaloid Resistance in <i>Atelopus</i> and <i>Dendrobatidae</i>		Hot or Not: Conditioned Responding and Pit Organ-Based Thermal Stimulus Detection by Burmese Pythons
2:30 PM	729	Paul Hime*, Emily Lemmon, Alan Lemmon, et al	742	Maria Myrback*, Sherri Emer, Michael Grace
		Genomic Approaches to <i>Cryptobranchus</i> Conservation: Testing Range-Wide Species Boundaries and Searching for a Genetic Sex Assay		A Non-invasive Electrocardiography Method for Measuring Responses to Thermal Stimuli in Burmese Pythons
2:45 PM	174	Obed Hernandez-Gomez*, Steven Kimble, Jeffrey Briggler, Rod Williams	776	William T. McLamb*, Michael S. Grace
		The Identification of Cutaneous Microbiota on Eastern and Ozark Hellbenders Through Use of High-throughput Genetic Sequencing		TRPA1 Ion Channels Mediate Thermal Targeting Behavior in Pit Vipers
3:00 PM		BREAK - Foyer		
SESSION/ SYMPOSIUM		HERP GENETICS		SSAR INFRARED IMAGING SYMPOSIUM
MODERATOR		BRUCE KINGSBURY		MICHAEL GRACE
3:30 PM	196	Todd Pierson*, Thomas Floyd, Paul Moler, et al	775	Michael S. Grace*, William T. McLamb, Sherri A. Emer, Trevor T. Zachariah
		Detection of Plethodontid Salamanders Using Environmental DNA		A TRiP Through the Snake Brain: Functional Magnetic Resonance Imaging (fMRI) of the Infrared Sensory System in the Burmese Python
3:45 PM	228	Jeffry Anderson, Robert Page*	782	J.U. VanDyke
		Genetic Resource Development in the Red-backed Salamander (<i>Plethodon cinereus</i>)		Convergent evolution of pit organs in snakes: costs and benefits of a novel sensory system
4:00 PM	230	Evin Carter*, Benjamin Fitzpatrick		Q & A
		Reproductive Strategy and the Efficiency of Selection in Small Populations		
4:15 PM	162	Whitney Anthonysamy*, Sarah Wylie, Michael Dreslik, et al		
		Genetic Assessment of an Eastern Massasauga (<i>Sistrurus catenatus</i>) Population in Illinois		
4:30 PM	643	Breanna Gould*, Patrick Laarman, Jennifer Moore		
		Fine-scale Genetic Structure in Eastern Box Turtles		
4:45 PM				
5:00 PM				

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POSTER PRESENTATIONS SCHEDULE AT A GLANCE
FRIDAY, 1 August, POSTER SESSION I
Exhibit Hall C & D

POSTER #	Abstract #	Presenter	Title
1	227	SI - Joshua Hittie*, Mark Wilson, Terry Grande	Development of Patterns of Branching in Caudal Fin Rays of Northern Pike (<i>Esox lucius</i>) Based on Growth Series of Cleared and Stained Specimens
2	556	SI - Kole Kubicek*, Rafael Garcia, Carlos González, Kevin Conway	Early Development of the Mexican Snook, <i>Centropomus poeyi</i> (Teleostei: Centropomidae)
3	540	SI - Kristin Kopperud*, Michael Grace	Temporal Changes in Retinal Architecture of the Atlantic Tarpon, <i>Megalops atlanticus</i>
4	715	SI - MaryKate Swenarton*, Eric Johnson, Jim Gelsleichter	Lionfish (<i>Pterois</i> spp.) Population Structure and Size at Maturity in Eastern Florida Waters
5	759	SI - Emily Meese*, Christopher Lowe	Spatial Distribution, Habitat Selection, and Effects of Temperature on Benthic Elasmobranch Species at Big Fisherman's Cove, Santa Catalina Island, CA
6	143	SI - Stephanie Benseman*, Larry Allen	Distribution and Growth Estimates of Young-of-the-Year Giant Sea Bass, <i>Stereolepis gigas</i> , off Southern California
7	577	SI - Lynne Wetmore*, Jay Rooker, William Heyman	Otolith Stable Isotopes as a Natural Marker Quantifying Relative Contribution of Inner- and Outer-Shelf Nurseries for Juvenile Snappers in Belize
8	399	SI - Erica Rottmann*, Kyle Piller	Revealing What Lies Beneath: Utilizing Environmental DNA (eDNA) to Detect Rare Fishes in Louisiana
9	417	SI - Luke Bower*, Kyle Piller	Spatial and Temporal Resource Utilization by a Gulf Coast Stream Fish Assemblage
10	413	SI - Kimberly Foster*, Luke M. Bower, Kyle R. Piller	Getting in Shape: Habitat-based Body Shape Divergence for Two Sympatric Fishes
11	462	SI - Pamela Hart*, Jonathan Armbruster	Morphological Variation Among Southern Cavefish (<i>Typhlichthys subterraneus</i>) Lineages in Alabama
12	473	SI - Tyler Chafin*, Whitney Anthony, Marlis Douglas, Michael Douglas	Riverscape Genetics of Roundtail Chub in the Upper Colorado Basin
13	189	SI - Luke Etchison*, Mark Pyron	GIS Analysis of River Habitat and Fish Assemblage Structure
14	480	SI - Anthony Rodger*, Corey Krabbenhoft, Kirk Winemiller	Intra-annual Flow Variation and its Impact on Larval Fish Abundance in two Texas Gulf Coast Rivers
15	687	SI - Keith Ray*, Jonathan Armbruster	Phylogeography of Longnose Dace, <i>Rhinichthys cataractae</i> (Cypriniformes: Cyprinidae), in the Southern Appalachian Mountains
16	489	SI - Ryan Thoni, Ninon Martinez*, Richard Mayden	Diversification of Gila (Cypriniformes: Cyprinidae) in Western Mexico, with the Description of a New Species.
17	720	SI - Ryan Thoni	Morphological Variation and Diversity Within the <i>Catostomus plebeius</i> Complex (Cypriniformes, Catostomidae) in Mexico
18	81	SI - Qiu Ren	Comparative Phylogenetics of the Asian genus "Puntius" and relatives (Cypriniformes: Cyprinidae): Explorations into the potential impacts of taxon and character sampling
19	135	SI - Erika R. Krahl*, Malorie M. Hayes, David C. Werneke, et al	Genetic Structure and Dispersal Potential of the <i>Pteronotropis euryzonus</i> (Suttkus, 1955)
20	293	SI - Bruce Stallsmith, Joshua Mann*	Reproductive Characteristics of Four Cyprinid Species in One River
21	395	SI - Jessica Sanchez*, Joel Trexler	Studying the Evolution of Herbivory Using the Sailfin Molly, <i>Poecilia latipinna</i>
22	165	SH - Michelle E. Thompson*, A. Justin Nowakowski, Maureen A. Donnelly	Amphibians and Reptiles in Changing Landscapes
23	518	SH - Helen Plylar*, Clifford Fontenot Jr.	Visual Accommodation in Semi-aquatic Colubrid Snakes: A Photorefractive Study of Defocus and Refractive State
24	619	SH - Lauren Hall*, Bruce Kingsbury	Basking Platforms and Wildlife Cameras as Novel Monitoring Techniques for Aquatic Reptiles
25	663	SH - Sarah Green*, Felisa Hseih, Alex Pyron	Ecomorphotypes of Snakes: Preliminary Results of a Global Analysis
26	713	SH - Alyssa Hoekstra*, Vincent Cobb	Does "One Size Fits All" Apply to Snake Body Temperature Sampling Rates?
27	755	SH - Bradley T. Martin*, Isaac M. Hemby, Larrimy B. Brown, John S. Placyk, Jr.	Molecular Phylogenetics of the Ribbonsnakes (<i>Thamnophis proximus</i> and <i>T. sauritus</i>)
28	86	SH - W. David Weber*, Nicola Anthony, Trent Santonastaso, Gabriel Fiorini	Multiplexing of A. Carolinensis Microsatellite Loci for Cross Species Amplification
29	161	SH - Alyssa Bangs	Thermal Ecology of Northern Fence Lizard (<i>Sceloporus undulatus hyacinthinus</i>) Populations in Two Thermally Different Habitats.
30	735	SH - Andrew Buckelew*, Daniel Warner	Temporal Changes in Food Availability Affect Reproductive Allocation in the Lizard <i>Anolis sagrei</i>

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POSTER #	Abstract #	Presenter	Title
31	251	SH - Allison Bronson*, Adam Cummings, John Reiss	Structure of the Olfactory Epithelium in <i>Taricha granulosa</i> , the Rough-Skinned Newt
32	312	SH - Carl Hutter*, Shea Lambert	The Exceptional Frog Diversity of Ranomafana National Park, Madagascar
33	459	SH - Katherine O'Donnell*, Frank Thompson, Raymond Semlitsch	Evaluating Effects of Prescribed Fire and Timber Harvest on <i>Plethodon serratus</i> in Southeast Missouri
34	517	SH - Emily Stulik*, Bruce Kingsbury	Modeling Anuran Occupancy and Habitat Use in a System of Restored Wetlands
35	675	SH - Amanda Curtis*, Gabriela Bidart-Bouzat	Is the Solution Worse Than the Problem? Examining the Effects of the Invasive Plant <i>Myriophyllum spicatum</i> and the Herbicide Triclopyr on <i>Lithobates pipiens</i> Tadpole Growth, Morphology and Survival
36	634	SH - Jacob Burkhart*, Christopher Shulse, Raymond Semlitsch	Larval Abundance as a Predictor of Total Metamorph Production for Pond-Breeding Amphibians
37	665	PM - Mingna Zhuang*, Timothy E. Higham	Foot Use During Arboreal Locomotion in the Giant Day Gecko (<i>Phelsuma madagascariensis</i>)
38	629	PM - Jonathan Clinger*, Kevin Gribbins, Stanley Trauth, Cady Gannon	The Ultrastructure of Spermatid Development within the Anole, <i>Anolis sagrei</i>
39	771	PM - Dustin Owen*, Matthew Holding, Emily Taylor, Chris Gienger	A Comparison of Commonly Applied Body Condition Indices in Snakes
40	552	PM - Krista Mougey*, Gad Perry	Thermal Ecology and Locomotor Performance of the Critically Endangered Stout Iguana (<i>Cyclura pinguis</i>)
41	598	PM - Madeline Michels-Boyce*, Peter Zani	Does Winter Temperature Tolerance of Side-Blotched Lizards Increase with Latitude?
42	177	PM - Stanislaw A. Warcholek*, Joseph R. Milanovich, Stanley E. Trauth	Can Premaxillary Teeth in <i>Desmognathus</i> Be Used to Determine Gender in a Field Setting?
43	721	PM - Ashleigh Tynes*, Jerrod Tynes, Lani Lyman-Henley	A Morphological Comparison of Old World (<i>Coelognathus</i>), New World (<i>Pantherophis</i> & <i>Scotophis</i>), and Hybrid (<i>Pantherophis</i> + <i>Scotophis</i> , <i>Pituophis</i> + <i>Scotophis</i>) Colubrid Snakes
44	398	ENHDB - Christopher Schalk*, Carmen Montaña, Nicole Smolensky	Intercontinental Convergence of Arid-Adapted Amphibians: Evidence from Morphology
45	506	ENHDB - Daniel Paluh*, Scott Simpson, Christopher Sheil	Estimating Growth Rates of <i>Chelydra serpentina</i> (Chelydridae) Across Latitudes
46	604	ENHDB - Joseph Zigler*, Stephen Mullin	Relationships Between Body Size and Migratory Movements of Midland Brownsnakes (Colubridae: <i>Storeria</i>) Within an Activity Season.
47	372	ENHDB - Michael Fulbright*, James Flaherty, C. M. Gienger	Ontogenetic Differences in Habitat Selection by Cottonmouth Snakes (<i>Agkistrodon piscivorus</i>)
48	381	ENHDB - Sarah Kitson*, Willem Roosenburg	Performance of <i>Malaclemys terrapin</i> Hatchlings: Variation in Seasonal Emergence and Investigation into Hatchling Environmental Preference
49	274	ENHDB - Sarah Manka*, Peter Zani	Predation Risk Affects Escape Responses of Side-Blotched Lizards
50	314	ENHDB - E. Alexander Rohlla*, Aaron M. Bauer	Advertisement Calls of the Thick-toed Geckos (Reptilia: Gekkonidae: <i>Pachydactylus</i>)
51	337	ENHDB - Cynthia Carter*, Stephen Mullin	Trophic Interactions in a Semiaquatic Snake Community: Insights into the Structure of a Floodplain Food Web.
52	345	ENHDB - Christian Oldham*, Leo Fleckenstein, Steven Price	Novel Application of Passive Integrated Transponder (PIT) Telemetry in Natricine Snakes
53	173	ENHDB - Phillip Pearson*, Daniel Warner	Natural Thermal Environments Experienced by Eggs Affect Morphology and Performance of Hatchling Lizards (<i>Anolis sagrei</i>)
54	111	ENHDB - Whitney Walkowski	Endogenous and Exogenous Factors that Affect the Reproductive Ecology of <i>Lithobates grylio</i>
55	45	ENHDB - Vincent Farallo*, Donald Miles	Exploring Below the Undergrowth: The Role of Microhabitat in the Evolutionary Ecology of Plethodontid Salamanders
56	77	ENHDB - Anat Belasen*, Timothy James	Investigating Native Skin Mycoflora as a Potential First Line of Defense Against Amphibian Chytridiomycosis
57	97	ENHDB - Anthony L. Gilbert*, Donald B. Miles	Relating Thermal Performance to Variation in Resource Use: Implications for Lizards in a Warming World
58	85	ENHDB - Kenzie Bozeman	Dermal Glands of Three-toed Amphiuma (<i>Amphiuma tridactylum</i>) and the Inhibitory Effects of Skin Secretions against the Amphibian Chytrid Fungus (<i>Batrachochytrium dendrobatidis</i>)

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ENHDB = SSAR Ecology, Natural History, Distribution & Behavior

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POSTER #	Abstract #	Presenter	Title
59	167	ENHDB - John Bourne*, Stephen Richter, Amy Braccia	The Structure and Distribution of Stream Salamander and Macroinvertebrate Communities Across Southeastern Kentucky.
60	212	ENHDB - Mickey Agha*, Mason Murphy, Jeffrey Lovich, et al	Research Activities and Winter Precipitation influence Voiding Behavior in Agassiz's Desert Tortoise (<i>Gopherus agassizii</i>)
61	352	ENHDB - Carl Cloyd*, Perri Eason	Trophic Discrimination Factors and Turnover Rates of Carbon and Nitrogen Stable Isotopes in Adult Green Frogs, <i>Lithobates clamitans</i> .
62	98	ENHDB - Milica Radanovic*, Joseph R. Milanovich	Ecological Role of Larval Anurans in Facilitating Decomposition Rates of Leaf Litter in Mesocosms
63	753	EGS - Jasmine Dagg	Genetic Diversity of the Invasive Neotropical Cane Toad (<i>Rhinella marina</i>) in Florida.
64	438	EGS - Maggie Hantak*, Shawn Kuchta	Color Polymorphism in the Eastern Red-backed Salamander (<i>Plethodon cinereus</i>): How Morphs are Seen through the Eyes of Visual Predators
65	317	EGS - Johanna E Wegener*, Kevin P Mulder, Tyler R Kartzinell, et al	Relative Contribution of Genetic and Ecological Factors to Morphological Differentiation of Island Populations of <i>Anolis sagrei</i>
66	483	CM - Dane Ward*, Walter Bien	Estimating Population Densities from Radio-telemetry Data for the Northern Pine Snake in New Jersey
67	708	CM - Grant Connette*, Raymond Semlitsch	Historic Timber Harvest Predicts Abundance but not Genetic Diversity of a Terrestrial Salamander, <i>Plethodon shermani</i>
68	662	CM - Kelli Herrick*, Jayme Waldron	Evaluating the Effectiveness of Different Methods of Detection for the Eastern Hellbender (<i>Cryptobranchus a. alleganiensis</i>) in the Ohio River Watershed
69	581	CM - Michael Britton	Extreme Climatic Events Affecting Amphibian Egg and Larval Stages May Impact Future Metapopulation Dynamics Through Latent Effects
70	605	CM - Kristoffer Wild*, Corey Osborn, Christopher A.F Howey, C.M Gienger	The Impacts of Prescribed Fire on Eastern Fence Lizards
71	378	CM - Eric McCluskey*, Thomas Hetherington	Historical Analysis of Eastern Massasauga Rattlesnake Habitat in Northeastern Ohio
72	332	CM - Hannah McCurdy-Adams*, Jeff Hathaway, Jacqueline Litzgus	Anthropogenic Influences on Chronic Stress and Patterns of Nest Predation in Freshwater Turtles
73	311	CM - Michael Colley*, Stephen Lougheed, Kenton Otterbein, Jacqueline Litzgus	The Impacts of Road Mortality Mitigation on the Population Ecology of <i>Sistrurus catenatus</i> in Killbear Provincial Park
74	132	CM - Casey Brewster	Reintroduction of the Collared Lizard (<i>Crotaphytus collaris</i>) in Ozark-St. Francis National Forest, Arkansas
75	478	ENHDB - Logan Fehrenbach*, Richard Durtsche, Wesley Parsons	Invasive Species Impacts on Amphibian Colonization of Newly Formed Ephemeral Ponds
76	176	ENHDB - Patrick D. Moldowan*, Ronald J. Brooks, Jacqueline D. Litzgus	Courtship or Coercion? Testing for a Novel Mating Strategy in the Midland Painted Turtle (<i>Chrysemys picta marginata</i>)
77	554	ENHDB - Kristina Schultz*, Kayla Parham, Martina Contreras, et al	Characterization of Malaria Infections in Side-Blotched Lizard Populations
78	291	Hilary Goodwin	Top Priorities for Skate Management and Conservation in the US, Canada, and Northwest Atlantic Fisheries Organization
79	215	Santiago Barbini, Luis Lucifora, Daniel Figueroa*	Using Opportunistic Records from a Recreational Fishing Magazine to Assess Population Trends of Sharks
80	460	Stacy L. Cecil*, John F. Morrissey, Kevin A. Feldheim, Toby S. Daly-Engel	Development and Optimization of Novel Microsatellite Loci for the Chain Catshark, <i>Scyliorhinus retifer</i>
81	649	Johanna Imhoff*, Alejandra Mickle, Cheston Peterson, R. Dean Grubbs	The Effects Of Sample Processing Methods On Light Stable Isotope And Mercury Analyses Of Fish Muscle
82	386	Kimberly Price*, Jason O'Bryhim, Bruce Saul, Stacey Lance	Diet Analysis of the Bonnethead Shark, <i>Sphyrna tiburo</i> , Around St. Catherine's Island, Georgia
83	297	Mauro Belleggia*, Daniel E. Figueroa, Ana Massa, et al	The Diets of the Spiny Dogfish Species (<i>Squalus acanthias</i> , <i>S. mitsukurii</i> and <i>S. cubensis</i>) From the Northern Argentinean Continental Shelf
84	664	Brent Benett*, Sarah Bruemmer, Jayne Gardiner, Christine Bedore	Scaling of the Elasmobranch Electrosensory System and Effects on Behavioral Responses to Prey-simulating Electric Fields
85	294	Csilla Ari*, Dominic D'Agostino	Contingency Checking and Self-Directed Behaviors in Giant Manta Rays: Do Fish Have Self-Awareness?
86	93	C - Callie Crawford*, Christian Canstein, Gavin Naylor	CT Scanning Chondrichthyan: No Bones About It

ENHDB = SSAR Ecology, Natural History, Distribution & Behavior

EGS = SSAR Evolution Genetics & Systematics

CM = SSAR Conservation & Management

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POSTER #	Abstract #	Presenter	Title
87	241	João Pedro Fontenelle, Thiago Loboda*, Marcelo Carvalho	Angular Cartilage Variation and Structure Among Neotropical Freshwater Stingrays (Chondrichthyes: Myliobatiformes: Potamotrygonidae)
88	248	Kyra Hartog*, Neil Hammerschlag, Duncan Irschick	An Analysis of Shark Body Morphology with Respect to Trophic Level, Species, and Habitat Usage
89	49	C - Matthew Kolmann	Functional Anatomy of the Ocellated Freshwater Stingray, <i>Potamotrygon motoro</i>
90	321	Alec J. Turner*, Peter J. Etnoyer, Steve W. Ross	Oviposition Substrate Preference in Scyliorhinid Shark Species
91	411	Keisuke Furumitsu*, Atsuko Yamaguchi	Reproductive Aspects of the Pale-edged Stingray, <i>Dasyatis zugei</i> , in Ariake Bay, Japan
92	743	Charles F. Cotton*, R. Dean Grubbs, Shannon C. Rolfe, Austin Heil	Life History Characteristics of Two Common Deep-Water Dogfishes (<i>Squalus cubensis</i> and <i>S. cf. mitsukurii</i>) from the Northern Gulf of Mexico
93	158	C - Kelley van Hees*, David Ebert	Maternal Offloading of Mercury in Two Coastal Elasmobranchs in Elkhorn Slough, CA
94	271	Hannah Hart*, Jim Gelsleichter, Greg Ahearn	Transport of Di and Tripeptides in the Intestine of <i>Sphyrna tiburo</i>
95	623	C - Amanda Brown*, Jim Gelsleichter	Reproductive Endocrinology of the Finetooth Shark, <i>Carcharhinus isodon</i>
96	519	Melissa Gonzalez De Acevedo*, Jim Gelsleichter	Hormone Regulation of Sperm Storage in Female Bonnethead Sharks (<i>Sphyrna tiburo</i>)
97	99	Luiz Rocha, Sarah Friedman*	Molecular Evidence for Biogeographic Speciation of the Yellowtail Damselfish, <i>Microspathodon chrysurus</i>
98	139	Emma Lehmborg*, Nathan Lovejoy	Never the 'Twain Shall Meet: Genetic Divergence Between Highland and Lowland Populations of <i>Gymnotus</i> Electric knifefishes
99	610	Peter Unmack*, Bernd Gruber, Arthur Georges	Comparative Phylogeography of Four Aquatic Species from the Murray-Darling Basin
100	96	Richard Lizotte*, Scott Knight, Jason Taylor, Terry Welch	Factors Influencing Fish Diversity in Lake Habitats of Three Mississippi Delta Agricultural Bayous
101	512	Michelle D'Aguillo, Antony Harold*, Tanya Darden	Trophic Ecology of the Western Atlantic Goby <i>Gobiosoma bosc</i> (Gobiidae)
102	553	Juan Bogota-Gregory*, William Crampton, Javier Maldonado	Environmental Influences on Neotropical Freshwater Fish Community Structure in the Tomo River, Colombia
103	767	Charles W. Olaya-Nieto*, Jesika Cortés-Salcedo, Fanny Anaya-Sánchez	Trophic Ecology of Dorada Brycon sinuensis in the Sinu river Basin, Colombia
104	360	Sean Giery*, Craig Layman	Interpopulation Variation in Condition Dependent Signaling: Predation Regime Affects Signal Reliability
105	166	Katie Kierczynski*, Thomas Luhring, Michael Wagner	The Effect of Alarm Cue on Sea Lamprey Larvae Behavior
106	108	Ingrid Kaatz	How Common is the "Singing Fishes" Phenomenon?: Assessing Vocal Diversity within Families and Using Callichthyid Catfishes as a Test Case
107	641	Lindsay White*, Mark Meade	Effect of Elevated Temperature on Metabolic Physiology of Endemic Alabama Fishes and an Exotic.
108	272	Arienne Leary*, Jim Gelsleichter, Dean Grubbs	The Deepwater Horizon Oil Spill Impacts on Deep Sea Gulf Fishes
109	296	Shem Unger*, Carl Bergmann, Olin Rhodes, Gerardo Gutierrez-Sanchez	Proteomic/glycomic Profiling of Medaka (<i>Oryzias latipes</i>) for Elucidation of Physiological Response to Chronic, Low Level Ionizing Radiation in the Environment
110	740	Paulette C. Reneau	Impact of Pulp Mill Effluent on <i>Gambusia holbrooki</i>
111	547	Joseph Waddell*, William Crampton	Electric Signaling Energetics and Life History in a Sympatric Assemblage of Brachyhyopomus (<i>Ostariophysi</i> Gymnotiformes, Hypopomidae) from the Peruvian Amazon
112	763	Ricardo Britzke*, Jonathan Ready, Raquel Siccha-Ramirez, Claudio Oliveira	Phylogenetic Relationships of the Genus <i>Apistogramma</i> (Teleostei: Cichlidae) Based on Molecular Data.
113	592	Alejandra Mickle*, R. Dean Grubbs, Jeffrey P. Chanton	Trophic Structure, Feeding Ecology and Bioaccumulation of Mercury (Hg) on Deep Sea Hagfish: An Elemental Analysis Approach.
114	569	Kory Evans*, Fabio Pupo, James Albert	Neuromorphological Evolution in Loricarioidea Using Geometric Morphometrics
115	180	Patrick Cain*, Robert Arndt, Matthew Cross	Arduino is Awesome! Innovative and Easy-to-Use Hardware for Do-it-Yourself Electronic Field Equipment

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POSTER #	Abstract #	Presenter	Title
116	504	Kerry Hansknecht*, Ryan Messenger, Taylor Baddeley	Studies of Discrimination Learning in Watersnakes
117	422	Lisa A. McDonald*, Caroline J. France, Sharon E. Hopper, Kerry A. Hansknecht	Characteristics of Voluntary Dives by Captive Saltmarsh Watersnakes
118	109	Natalin Vicente, Monique Halloy*	Form and Structure of Male Headbob Displays in a Neotropical Lizard, <i>Liolaemus pacha</i>
119	347	Guillem Pérez i de Lanuza, Enrique Font*	Now You See Me, Now You Don't: Iridescence (Angle-dependent Reflectance) Increases the Efficacy of Lizard Chromatic Signals
120	226	Ryan Seddon*, Diana Hews	Do Melanization and Testosterone Play a Role in Aggression for the Western Fence Lizard, <i>Sceloporus occidentalis</i> ?
121	714	Brittainy Hewitt, Matthew G. Keevil*, Ronald J. Brooks, Jacqueline D. Litzgus	The Demography of Intraspecific Aggression, Inferred From Injuries, in a Population of Snapping Turtles.
122	470	Mayra Oyervides, Frederic Zaidan III*	Heterospecific Aggregational Shelter Use by <i>Rhinella marina</i> and <i>Incilius nebulifer</i> in Deep South Texas
123	367	Renato C. Nali*, Rubens A. F. Turin, Cynthia P. A. Prado	Call Differentiation Correlates with Geographical Distance in the Brazilian Hyliid Frog <i>Bokermannohyla ibitiguara</i>
124	727	Paul Cupp	On Head Up Displays in Green Salamanders, <i>Aneides aeneus</i>
125	181	David Rostal*, Wade Carruth, Luke Wyrwich, Brad Lock	Reproductive Patterns in Three Genera of Asian Turtles: <i>Manouria</i> , <i>Heosemys</i> and <i>Coura</i> .
126	83	Adam Cummings*, Jeffrey Schineller, Karen Kiemnec-Tyburczy, John Reiss	Lineage Diversification of an Aquatic Pheromone in Pacific Newts (<i>Taricha</i>)
127	594	Jake Pruett*, Stephanie Campos, Helena Soini, et al	Variation in Volatile Compound Composition of Femoral Gland Secretions from Four Species of <i>Sceloporus</i> : A Preliminary Analysis
128	597	Taylor Beckwith-Ferguson, Cassandra Owen, Kristine Kaiser*	Corticosterone Does Not Mediate Reproductive Suppression in White's Treefrog (<i>Litoria caerulea</i>)
129	595	Neha Savant*, Kristine Kaiser	Chronic Anthropogenic Noise Decreases Testicular Testosterone in White's Treefrog, <i>Litoria caerulea</i>
130	642	Sarah Barns*, Matthew Klukowski	Influence of Food Restriction on Plasma Corticosterone and Innate Immunity and Blood Chemistry in the Brown African House Snake <i>Lamprophis fuliginosus</i>
131	47	Andrew M. Durso*, Geoff D. Smith, Lorin A. Neuman-Lee, Susannah S. French	Using Labeled Nutrient Tracers to Reveal Resource Allocation in Lizards with Competing Needs
132	443	Jason R. Warner*, Robert E. Espinoza	Comparative Cold Hardiness Capacities of Lizards (Genus <i>Liolaemus</i>) Living Along an Elevation Gradient in Argentina
133	620	John Pojman Sr, John Pojman Jr, Clifford Fontenot Jr.*	Clove Oil as a General Anesthetic for <i>Amphiuma tridactylum</i> and Recovery Time as a Function of Body Mass

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POSTER #	Abstract #	Presenter	Title
1	632	Mark Goldy-Brown*, Tracy Langkilde, Chris Thawley	The Effects of Red Imported Fire Ant Venom on Whole Body Performance and Hemolysis of Eastern Fence Lizards, <i>Sceloporus undulatus</i> .
2	207	Julie Ziemba*, Alex Cameron, Kim Peterson, et al	The Presence of an Invasive Asian Earthworm (<i>Amyntas</i> spp.) Alters Terrestrial Salamander (<i>Plethodon cinereus</i>) Microhabitat Use in Laboratory Microcosms
3	653	Alfonso Trujillo*, Jesus Rivas	The Impact of the Invasive American Bullfrog (<i>Lithobates catesbeianus</i>) on Woodhouse Toad (<i>Anaxyrus woodhousii</i>) Demographics in the Rio Mora Wildlife Refuge in Northeastern NM
4	534	Joshua P. Traub*, Sloan Hill-Lindsay, Ralph A. Saporito	Maintenance of Aposematic Color in the Strawberry Poison Frog from Northeastern Costa Rica
5	420	Cameron Eddy*, Daniel Paluh, Kal Ivanov, et al	Selective Foraging Behavior of <i>Plethodon cinereus</i> on Ants
6	672	Wesley Parsons*, Logan Fehrenbach, Richard D. Durtsche	Diurnal Activities and Metabolism of <i>Podarcis muralis</i> as an Introduced Species to the Greater Cincinnati Region
7	240	Kaite Anderson*, Nathan Byer, Ryan McGehee, Teal Richards-Dimitrie	A New System For Marking Hatchling Turtles Using Visible Implant Elastomer (VIE)
8	287	Gabriel Faggioni*, Franco Souza, Cynthia Prado	Habitat Occupancy Estimation for Two Neotropical Frogs with Imperfect Detectability
9	171	William Ternes*, Celeste Wheeler*, Vincent Farallo	Microhabitat Use of the Big Levels Salamander: A Microendemic <i>Plethodontid</i>
10	505	Danielle Walkup*, Lee Fitzgerald	Landscape Fragmentation Disrupts Population Dynamics in Dune Dwelling Lizards
11	451	Matthew Lattanzio	From Disturbance to Fitness: Selective Consequences of Prescribed Fire for Tree Lizards
12	315	Christopher Murray*, Mahmood Sasa, Craig Guver	Cohort Specific Sex Ratios and Nest Thermal Regimes in the American Crocodiles of Guanacaste, Costa Rica
13	152	Iwo Gross*, Yong Wang, Callie Schweitzer	Maternal and Juvenile Habitat Use, Dispersal, Hibernation, and Survival in Copperheads (<i>Crotalinae</i> ; <i>Agkistrodon</i>).
14	482	Spencer Roberts*, Ricardo Hernández, James Spotila, et al	Nesting Ecology of East Pacific Green Turtles at Playa Cabuyal, Costa Rica
15	671	Annemarie Mina, Andras Ponti, Nicole Woodcraft, Erin Johnson, Ralph Saporito*	Geographic Variation in Alkaloid-based Antimicrobial Defenses of the Strawberry Poison Frog, <i>Oophaga pumilio</i>
16	485	Matthew Venesky*, Alexandra Hess, Joe DeMarchi, et al	Red-striped and Lead Phase Eastern Redbacked Salamanders (<i>Plethodon cinereus</i>) Differ in their Resistance to <i>Batrachochytrium dendrobatidis</i>
17	778	Timothy J. Colston*, Brice P. Noonan, Colin R. Jackson	Phylogenetic Analysis of Bacterial Communities in Different Regions of the Gastrointestinal Tract of <i>Agkistrodon piscivorus</i> , the Cottonmouth Snake
18	290	Meredith Swartwout*, Jenifer Walke, Matthew Becker, et al	Structure and Function of Bacterial Communities on Spring Peeper Skin (<i>Pseudacris crucifer</i>) in Virginia
19	133	Kira McEntire*, Martin Gonzalez	Cutaneous Microbial Diversity of <i>Eurycea naufragia</i> at Two Sites
20	668	Leonardo Tedeschi*, Jéssica Fenker, Cristiano Nogueira, Lillian Gimenes Giugliano	Molecular Phylogeny and Biogeography of <i>Psomophis</i> , and History of Diagonal Neotropical Open Areas
21	197	Waleeja Rashid*, Maria Medina, Edward Stanely, et al	Systematics of African Limbless Skinks (<i>Squamata</i> : <i>Scincidae</i>) of the Genus <i>Melanoseps</i>
22	222	Samantha Stewart*, Thornton Larson, Eli Greenbaum	Systematics of the Genus <i>Lygodactylus</i> from Democratic Republic of the Congo
23	410	Kirsten Nicholson*, David Laurencio, Craig Guver	One or Two? Investigating the Status of <i>Norops lionotus</i> and <i>N. oxylophus</i> in Central America
24	551	Jennifer Dever*, Jodi Rowley, Jeff Wilkinson	Multiple Species of "Bird-poop" Frogs (genus <i>Theloderma</i>) Identified from Southeast Asia.
25	183	Kristin Hinkson*, Stephen Richter	Temporal Comparisons of Genetic Variation in the Dusky Gopher Frog, <i>Lithobates sevosus</i>
26	442	Aaron Schrey*, Travis Robbins, Duong Vo, et al	Ecological Epigenetics of Herpetofauna in the Fire Maintained Florida Scrub Habitat
27	558	Jade Keehn, Richard Hoyer, Chris Feldman*	Geographic Variation in the Demography and Life History of a Cryptic Snake (<i>Contia tenuis</i>).
28	338	Chris Feldman*, Edmund Brodie, Jr, Edmund Brodie, III, Michael Pfrender	Geographic Structure in TTX Resistance in the Sierra Garter Snake (<i>Thamnophis couchii</i>): The Imprint of History and Biogeography on Adaptive Variation.
29	9	Dustin Siegel*, Stanley Trauth, Brian Rabe, et al	Novel Cloacal Glands in Snakes: The Phylogenetic Distribution of Ventral Urodaeal Glands in <i>Thamnophiinae</i>
30	73	Daniel Blackburn*, Laurie Bonneau, Kristie Anderson	Placental Morphology in Viviparous North American Water Snakes (<i>Colubridae</i> : <i>Nerodia</i>).
31	75	David Sever*, Christopher Beachy	Phylogeny of Mental Glands, Revisited

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32	200	John Rowe*, Brittany Miller, Mark Stuart, et al	Substrate Color-induced Melanization in Eight Turtle Species from Four Chelonian Groups.
33	387	Philip Nicodemo*, Nathan J. Kley	Variation in the Segmental Lengths of Epaxial Muscles in the Pre-cloacal Region of Snakes
34	513	Michael Finkler	Sexual Dimorphism in Heart Size in Four Species of North American Anurans.
35	659	Kevin Chovanec	Early Records of Fossil Anolis from the Oligocene and Miocene of Florida, USA
36	502	André Felipe Barreto-Lima*, Cristiano Campos Nogueira, Guarino Colli, Sandra Maria Hartz	Potential Distribution and Geographic Variation in the Morphology of the Enyalius Genus (Iguanidae; Leiosaurinae) from the Brazilian Forests
37	266	Benjamin Thesing, Donald Shepard*, Richard Noves	Phylogeography of the Southern Redback Salamander (<i>Plethodon serratus</i>)
38	370	Cy Mott, Emily Croteau*	Incorporating Metapopulation Structure into Investigations of Abundant Center Distributions: What Can Presence/Absence Data Tell Us?
39	436	Brian Folt*, Nicole Garrison, Craig Guyer, Jason Bond	Phylogeography of the Red Salamander (<i>Pseudotriton ruber</i>)
40	586	Christopher Peterson*, Matthew Chatfield	Comparison of Trap Baiting Methods for Sampling Aquatic and Semi-Aquatic Herpetofauna
41	698	George Szarka*, Thomas Wilson	Sampling Amphibians and Reptiles in Southeastern Tennessee: Lessons Learned with Implications for Conservation and Management
42	116	Eric Juterbock	Does Size Really Matter? The Relationship Between Size and Water Loss of Model Plethodontids in Typical Activity Sites
43	427	Thomas Wilson, Paul-Erik Bakland*, Nyssa Hunt, et al	Nest Site Selection by Marbled Salamanders (<i>Ambystoma opacum</i>) in an Isolated Wetland in Southeastern Tennessee: In the Shadows of a Brownfield at the Dawn of Gig City
44	210	Daniel Saenz*, Toby Hibbitts, Cory Adams	The Calling Ecology of Crawfish Frogs (<i>Lithobates areolatus</i>) from the Gulf Coastal Prairie of Texas
45	328	Austin Patton, Kristin Bakkegard*	Slimy Salamanders in Central Alabama Infected with Chiggers
46	421	Thomas Wilson*, Jose Barbosa, Ethan Carver, et al	An Assessment of <i>Batrachochytrium dendrobatidis</i> Infection in two species of Ranid Frogs on a Former United States Department of Defense (DoD) Installation in southeastern Tennessee
47	761	Abdulaziz Alqahtani	Biological Aspect of <i>Bufo tihamicus</i> in Aseer Region, South West of Saudi Arabia
48	163	Jordan Chaney*, Rachel Hill, Julia Earl, et al	Ranavirus Could Cause A Threatened Toad Species To Go Extinct
49	400	Patrick Reilly, Jordan Chaney*, Debra Miller, et al	Assessing the Risk of Pathogen Pollution: A Preliminary Test of Co-Evolution Between Ranavirus and Wood Frogs.
50	760	Daniel B. Wylie*, Matthew C. Allender, Sarah J. Wylie, et al	A Test of Non-Invasive Detection Methods for Snake Fungal Disease
51	142	Emily Taylor*, Matt Holding, Kory Heiken, Ignacio Moore	Is Translocation Stressful to Rattlesnakes?
52	548	David Bechler*, Joseph Kirkley	Dorsal Coloring and Ventral Patterning in a Population of <i>Agkistrodon piscivorus</i> , the Water Moccasin
53	681	Lani Lyman-Henley*, Jerrod Tynes	Ontogenetic Color Change and Growth of Corn and Rat Snakes, Their Intergrades and Hybrids
54	429	Jennifer M. Singleton*, Theodore Garland, Jr., Mingna Vicky Zhuang	Social Badges in <i>Dipsosaurus dosalis</i> and the Importance of Museum Specimens as Preliminary Data
55	43	Jessa Watters*, Cameron Siler	Quantifying Curator Success In Life Science Natural History Collections
56	560	Thomas Wilson, Joseph Simpson*, Brad Reynolds, et al	Team Salamander and Its Evolution in Becoming the Longest Running Group Studies Initiative at the University of Tennessee at Chattanooga (UTC)
57	273	Cynthia Moulton*, Jennifer Weisenburger	Consistency of Survey Data for Plethodontid Salamander Population Assessments in Rutland County, Vermont
58	307	Sean P. Boyle, Jacqueline D. Litzgus*, David Lesbarrères	Knowing is Half the Battle: Using Intensive Monitoring to Identify Hotspots of Herpetofauna Mortality in a Protected Area
59	364	Michelle Guidugli*, Kari Dupler, John MacGregor, et al	Developing an Amphibian Index of Biotic Integrity and Validating a Rapid Assessment Method for Kentucky's Wetlands
60	305	Ross Maynard, Matthew Kwiatkowski*	Edge Effects on Herpetofauna in a Lowland Amazonian Rainforest
61	401	William Peterman*, John Crawford, Andrew Kuhns, Christopher Phillips	Landscape Effects on Amphibian Species Richness and Wetland Conservation Coefficients
62	211	Toby Hibbitts*, Cory Adams, Daniel Saenz	Distribution Surveys for the Crawfish Frog (<i>Lithobates areolatus</i>) in Texas
63	423	Matt Elliott, John Jensen*, Joyce Klaus, Lora Smith	Estimating Gopher Tortoise Populations in Georgia

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64	748	John Maerz*, Vanessa Terrell, Michael Lannoo, et al	Population Dynamics of Threatened Crawfish Frogs Informs Management Decisions
65	709	M. Kevin Hamed*, Matthew Gray, William Sutton	Changes in Spatial Distributions of Plethodontid Salamanders Along Elevation Gradients in the Mt. Rogers National Recreation Area over a 50-year Period.
66	178	Lacy Obenschain*, Yong Wang, Callie Schweitzer	The Effects of Forest Disturbance on the Oviposition Site Preference of Amphibians on the Southern Cumberland Plateau
67	262	Natalia Gallego García, Vivian P. Páez*	Geographic Variation in Pivotal Temperatures and Transitional Range of Temperatures in the Endangered Turtle <i>Podocnemis lewyana</i> : Implications for Global Warming.
68	564	Evin Carter*, Bryan Eads, Matthew Farmer, Bruce Kingsbury	Demonstrating Roads as Barriers to Snakes using a Modified Random Walk: The Case of the Copperbelly
69	746	John Tupy, James Lee, Joseph Pechmann*	Dusky Gopher Frog (<i>Rana sevosa</i>) Colonization and Translocation at an Improved Pond in Southern Mississippi.
70	149	Josh Pierce*, Craig Rudolph, Steve Reichling, et al	Returning the Louisiana Pine Snake (<i>Pituophis ruthveni</i>) to Restored Habitat.
71	89	SJ Mullin*, LM Diana, LJ Walston	Patient Tiger, Hidden Results? A Decade-long Salamander (<i>Ambystoma tigrinum</i>) Repatriation Effort in Managed Wetlands.
72	674	Chad Montgomery*, Andrea Martinez, Ignacio Moore, Stesha Pasachnik	Effect of Captivity and Habitat Destruction on Stress in the Utila Spiny-tailed Iguana, <i>Ctenosaura bakeri</i> .
73	469	Ana Bello Soares*, Helga Wiederhecker, Barry Sinervo, Guarino Colli	Comparative Thermoregulatory Behavior of Brazilian Tortoises: Seasonal Patterns of Body Temperature and Hours of Restriction
74	431	Jessica Fenker*, Leonardo Tedeschi, Alexander Pyron, Cristiano Nogueira	Phylogenetic Diversity and Conservation of South American Pitvipers
75	82	David Steen*, Brittney Hopkins, James Van Dyke, William Hopkins	Prevalence of Ingested Fish Hooks in Freshwater Turtles From Five Rivers in the Southeastern United States
76	205	John Gorsuch, Amy Miller, Keen Wilson, Patrick Owen*	Invasive Earthworms Alter the Cutaneous Bacteria of Eastern Red-backed Salamanders
77	199	Cory Adams*, Daniel Saenz	Effects of Chinese Tallow Leaf Litter on Overwintering Larval Anurans
78	607	Page E. Klug, Robert N. Reed*, Frank J. Mazzotti, et al	Spatial Ecology and Habitat Use of the Argentine Tegu (<i>Tupinambis merianae</i>), a Recent Invader in the Everglades Ecosystem (Florida, USA)
79	466	Elisa Cabrera Guzmán*, Carmen Díaz Paniagua, Ivan Gomez Mestre	Effect of Invasive Mosquitofish (<i>Gambusia holbrooki</i>) on the Behavior of Gravid Pygmy Newts (<i>Triturus pygmaeus</i>) from Doñana, Spain
80	206	Jessica Vannatta*, Matthew Klukowski	Demographic Characteristics, Seasonal Corticosterone, and Prevalence of Ranavirus Infection in the Eastern Box Turtle, <i>Terrapene carolina carolina</i>
81	495	Sarah Horsley*, Gary Green	Effects of Educational Programming on Visitors' Attitudes towards Snake Conservation
82	601	Bradley Reynolds*, Thomas Wilson	A Walk in the Woods: Battling Herpetophobia among Non-Science Majors
83	656	Jennifer Heemeyer, Thomas Anderson*, William Peterman, et al	Automated Analysis of Temperature Dataloggers to Determine Hydroperiods of Vernal Wetlands
84	118	Kayla Key*, Andy Gluesenkamp, John S. Placyk, Jr.	Using Maxent to Predict Habitat Suitability for a Species of Conservation Concern, the Texas Gartersnake, <i>Thamnophis sirtalis annectens</i>
85	448	Aaron Ross*, Rebecca Blanton Johansen	Conservation in the Dark: Comparison of Night Versus Day Sampling of an Imperiled Nocturnal Species, <i>Noturus fasciatus</i> .
86	777	Christopher W. Hoagstrom*, Thomas P. Archdeacon, Stephen R. Davenport, et al	Intra-fragment riverscape conservation for an imperiled, small-bodied, pelagic-broadcast spawning minnow: speckled chub, <i>Macrhybopsis aestivalis</i>
87	706	Daniel J. Gurdak	Identifying Geographic Gaps Between Management and Research
88	233	Mallory Jeffers*, Marlis Douglas, Brooke Beckwith, et al	Effects of Environmental Barriers on Population Structure of Orangethroat Darter and Cardinal Shiner on the Ozark Plateau
89	70	Taylor Phillips*, Matthew White	Seasonal Movements of the Sandstone Falls Population of Lower New River Walleye
90	393	Heather L Prestridge*, Luci Cook-Hildreth	Come and Take It: Invasion of the Armored Catfishes in Texas
91	394	Chris Chabot*, Holly Hawk, Larry Allen	Low Genetic Diversity and Effective Population Size in the Critically Endangered Giant Sea Bass, <i>Stereolepis gigas</i>
92	705	Richard D. Durtsche*, Julie A. Moses, Madeline Walker, et al	There's an App for That! Developing Mobile Technologies for Stream Parameters and Water Quality Assessment.
93	737	Fredys F. Segura-Guevara*, Irina J. Arroyo-Segura, Charles W. Olaya-Nieto	Length-Weight Relationship of Perico Trachelyopterus <i>badeli</i> f.c. in the Sinu River, Colombia
94	402	Sâmia M Camargo*, Bruno LS Ferrette, Guilherme C Silva, et al	Phylogeography of the Oceanic White-tip Shark <i>Carcharhinus longimanus</i> in the Atlantic Ocean, Using Molecular Markers

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96	680	Binod Regmi	Effects of Salt Water Intrusion and Habitat Separation on Gene Flow in a Coastal Ecosystem: Mosquitofish in Louisiana Binod Regmi1
97	295	Leos Kral*, Patricia Bartlett, Rebecca Pace, et al	Current State of Assembly and Annotation of the <i>Etheostoma tallapoosae</i> Genome
98	340	Chris Chabot, Donald Buth*	Species-specific Nuclear Genetic Markers for the Detection of Hybridization Between the Grey Smoothhound (<i>Mustelus californicus</i>) and the Brown Smoothhound (<i>Mustelus henlei</i>)
99	419	John Belcik*, Terry Grande	Distribution and Population Genetics of the Oriental Weatherfish (<i>Misgurnus anguillicaudatus</i>) in Illinois and Indiana Tributaries
100	414	David Camak*, Lisa Cordes, Kyle Piller	Assessing the Influence of Riverine Outflow on Genetic Diversity of Two Coastal Marine Fish Species
101	508	Courtney Calhoun*, Pete Berendzen	Genome Duplication and Evolution in a Tetraploid Family of Fishes (Cypriniformes: Catostomidae).
102	676	Zane Anderson*, Robert B. Gillespie, Mark A. Jordan	Population Genomics of Creek Chubs (<i>Semotilus atromaculatus</i>) in Channelized Agricultural Streams
103	691	Natália Mendes*, Fernando Mendonça, Vanessa Cruz, et al	Development of Microsatellite Loci for the Sharks <i>Galeocerdo cuvier</i> and <i>Carcharhinus acronotus</i> Using Second Generation Sequencing
104	88	Utpala Sharma*, Dayal P. Gupta	Phylogenetic Analysis Among Cyprinidae Family Using 16SrRNA
105	593	Nehir Kaymak*, Kirk O. Winemiller, Senol Akin, et al	Trophic Ecology of Omnivorous Fishes in the Yeşilirmak River Basin, Turkey, in Relation to Seasons and a Hydroelectric Dam.
106	12	Theodore W. Pietsch, James Wilder Orr, Jeremy Harris*	Fishes of the Salish Sea: Puget Sound and the Straits of Georgia and Juan De Fuca
107	55	Carla Eisemberg*, Tim Berra	Notes on the Sale of the Nurseryfish (<i>Kurtus gulliveri</i>) in the Kikori Market, Papua New Guinea
108	66	Phil Hastings*, HJ Walker, Grantly Galland	Fishes: A Guide to Their Diversity
109	153	Prosanta Chakrabarty*, Melanie Warren, Lawrence Page, Carole Baldwin	GenSeq: An Updated Nomenclature and Ranking for Genetic Sequences from Type and Non-type Sources
110	194	Katie May Laumann*, Alison Deary	Ichthyology and Marine Science in Inquiry-Based Learning: How Researchers Can Contribute to Middle and High School Education
111	283	Michael Doosey*, Henry Bart, Nelson Rios, et al	Georeferencing U.S. Fish Collections: A Community-Based Model to Georeferencing Natural History Collections in the FishNet2 Network
112	350	Sarah Huber*, Eric Hilton	The Nunnally Ichthyology Collection at the Virginia Institute of Marine Science: History, Current Status, and Future Prospects
113	433	David Clark*, Caleb McMahan, Wilfredo Matamoros, Prosanta Chakrabarty	Intradrainage Body Shape Variation of the Tetra <i>Astyanax aeneus</i> (Characiformes: Characidae) in the Río Patuca, Honduras
114	625	Jeremy Wright	A New Paedomorphic Genus and Species of Catfish from Lake Tanganyika (Siluriformes: Clariidae)
115	712	Samba Diallo*, Jonathan Armbruster, Henry Bart, et al	The Freshwater Fishes of Guinea
116	756	Jennifer Gumm	Quaardvark and the Animal Diversity Web: A New Tool To Help Students Explore Ecological Patterns
117	492	Ben Tumolo*, Michael Flinn	Diet Analysis of Silver Carp (<i>Hypophthalmichthys molitrix</i>) in Two Large Embayments of Kentucky Lake. A Reflection of Availability or Selectivity?
118	391	Bradley Richardson*, Michael Flinn	A Dietary Comparison of Four Sympatric Gar Species: Alligator Gar, Longnose Gar, Shortnose Gar, and Spotted Gar
119	371	Warren Brown, Robert Robins*, Kenneth Krysko	A novel use of Specify Database Software for museum collections
120	301	Michael Burns*, Ben Frable, Brian Sidlauskas	The Oregon State Ichthyology Collection: Undergraduate Training Through Digitization of an Outstanding Library of Fishes
121	244	Rupert A. Collins*, Emanuell Duarte Ribeiro, Valéria Nogueira Machado, et al	A Preliminary Inventory of the Catfishes of the Lower Rio Nhamundá, Brazil, with the Description of a New Species of <i>Pseudolithoxus</i> Isbrücker and Werner (Siluriformes, Loricariidae)
122	426	Terry Grande*, Mark Wilson, Michael Hanson, et al	First Osteological Description of the Type Species of <i>Polymixia</i> , <i>P. nobilis</i> Lowe, 1836, with Comparisons to Other Extant Species of <i>Polymixia</i>
123	501	Mark Wilson*, Terry Grande	What's New With Old Fish?
124	745	Guillermo Orti*, Ricardo Betancur-R, Ed Wiley, et al	Revised Classification of Bony Fishes Based on Molecular Data (Version 3)
125	758	Kevin W. Conway*, Philip Hastings, Dae-Min Kim, et al	Is <i>Pherallodiscus</i> Briggs a Junior Synonym of <i>Gobiesox</i> Lacepède?

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127	120	Jacob Egge*, Dakota Rowsey, Erinn Kuest	A Survey of Extraoral Taste Buds in Otophysan Fishes
128	140	Avery Thomson*, Leo Demski	A Comparative Study of Chromatophore Systems for Vertical Banding in Bluegills and Selected Cichlids
129	169	Ashley Marranzino*, Jacqueline Webb	The Lateral Line System of Deep-Sea Fishes: Preliminary Observations on Stomiiform Fishes
130	379	Michael Ghedotti*, Ryan Barton, Matthew Davis	Morphology of the Ventral Luminescent Organ of the Japanese Barracudina (<i>Lestrolepis japonicus</i>), with Comments on the Evolution of Bioluminescence within the Barracudinas (Teleostei: Aulopiformes).
131	432	Cheryl Theile*, Terry Grande	Comparison of Jaw Mechanics Among North American Esocids
132	450	Fabio Pupo*, Marcelo Britto	Brain and Olfactory Organs from Some Species of the Family Trichomycteridae (Teleostei: Ostariophysi: Siluriformes)
133	572	Peter Warth*, Eric Hilton, Peter Konstantinidis	Ontogeny of Skeletal Elements in Two Species of Sturgeon
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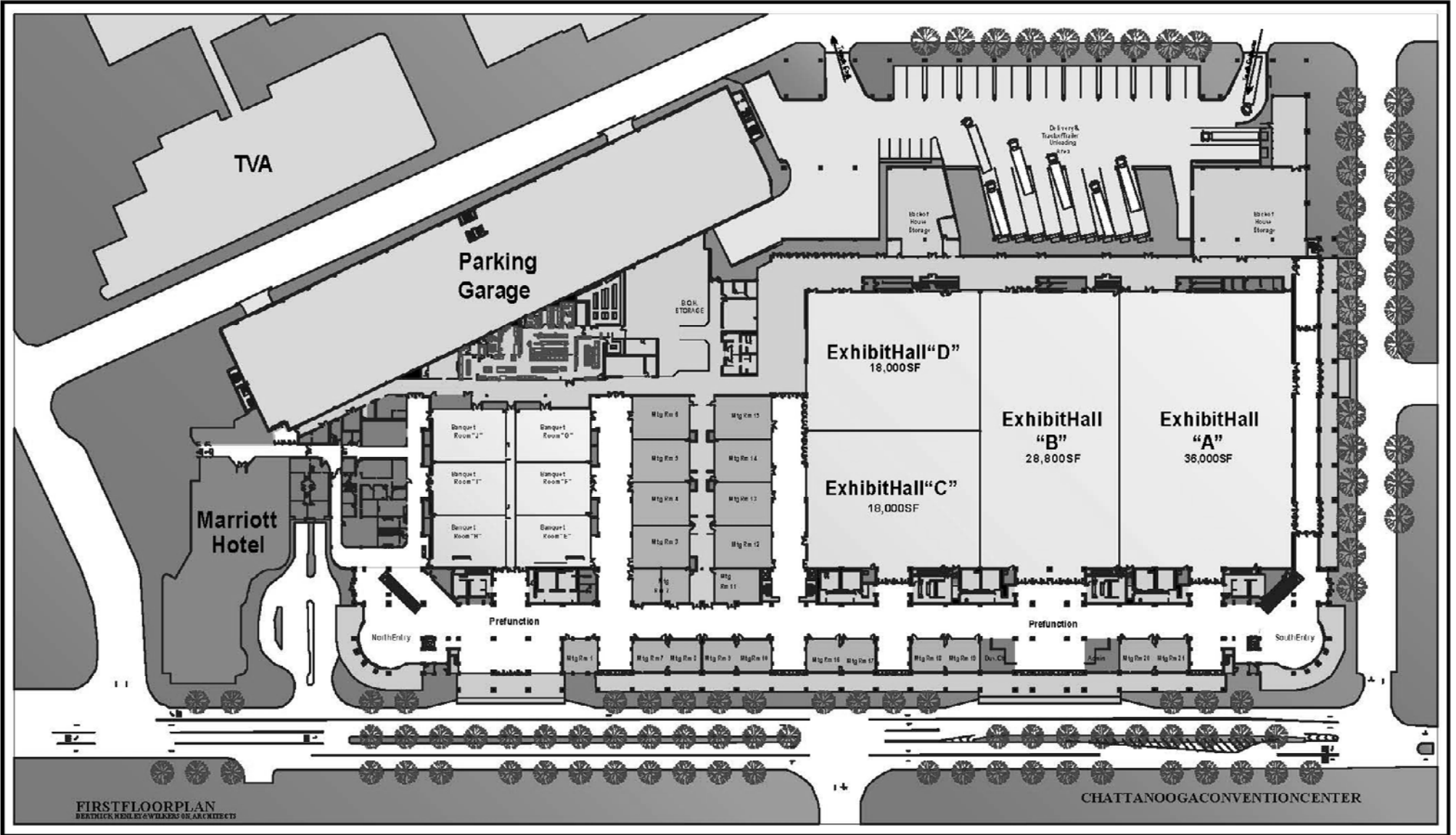
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