

Biology of the Rattlesnakes 2011 Schedule

Wednesday July 20th

Icebreaker/Registration

6:00 pm to 11:00 pm

Thursday July 21st

Continental Breakfast

Vendor room

7:00 am to 8:00 am

Opening Remarks

8:00 am

Keynote Address

8:10 am

Harry Greene – Fifty Years after Klauber and Counting:
What's it Like to be a Rattlesnake?

Evolution, Ecology, and Conservation

- 9:00 Christopher G. Anderson and Eli Greenbaum – Phylogeographic Structure among Northern Populations of the Black-Tailed Rattlesnake (*Crotalus molossus* Baird and Girard, 1853)
- 9:15 Kimberly Andrews – Management of Rattlesnakes in Urbanizing Landscapes: Biological Challenges and Nuisance Perceptions
- 9:30 William S. Brown – Factors Influencing First-Year Survival in Timber Rattlesnakes
- 9:45 Danny L. Bryan and Daniel L. Combs – Over-Winter Survivorship of Pre-Adult Timber Rattlesnakes, *Crotalus horridus*, from an Artificial Hibernaculum

Morning Break
Vendor Room
10:00am to 10:15 am

- 10:15 Philip A. Cochran – Adaptive Management of “Nuisance” Timber Rattlesnakes (*Crotalus horridus*) in Southeastern Minnesota
- 10:30 Aaron Corbit, Carl Person, and William K. Hayes – Snakes on the Edge: Behavioral Ecology of Red Diamond Rattlesnakes (*Crotalus ruber*) in Conflict with Human Residential Developments in Loma Linda, California
- 10:45 Matt Goode – Ecology and Conservation of Tiger Rattlesnakes
- 11:00 Christopher L. Jenkins – The IUCN Viper Specialist Group: A Global Approach to Rattlesnake Conservation
- 11:15 Stephen P. Mackessy – The Desert Massasauga in Colorado: From Proteome to Biome
- 11:30 Erika M. Nowak – Ecological Differences of the Three Species of Rattlesnakes at Tonto National Monument
- 11:45 Carl Person, Aaron G. Corbit, John P. LaBonte, Bryan G. Fry, and William K. Hayes – A Preliminary Phylogeographic Analysis of the Pacific Rattlesnake (*C. oreganus* ssp.)

Lunch
12:00 to 1:30

- 1:30 Dave Prival and Mike Schroff – A 13-Year Study of Twin-Spotted Rattlesnakes in the Chiricahua Mountains, Arizona
- 1:45 Randall Reiserer – The Remarkable Rattle: What a Serial Structure has to Offer Biology, Ecology, and Life-History Studies of Rattlesnakes
- 2:00 D. Craig Rudolph, Richard R. Schaefer, and Shirley J. Burgdorf – Threats to Timber Rattlesnakes (*Crotalus horridus*) on the West Gulf Coastal Plain
- 2:15 Stephen F. Spear, Joshua M. Parker, Charles R. Peterson, Mark D. Anderson, Douglas Keinath, and Lesette P. Waits – Integrating Genetics and Habitat Modeling to Inform Conservation of Midget Faded Rattlesnakes (*Crotalus oreganus concolor*)
- 2:30 Anne G. Stengle, Andrew R. Whitely, Thomas F. Tynning, Alan M. Richmond, and Paul R. Sievert – Connectivity of Timber Rattlesnake (*Crotalus horridus*) Populations Near Their Northeastern Range Boundary

Behavior, Ecology, and Physiology

- 2:45 Steven J. Beaupre, Joseph Agugliari, and James U. Van Dyke – Annual Energy Budgets of the Timber Rattlesnake: Advancements, Refinements, and Open Questions.

Afternoon Break

Vendor Room

3:00 to 3:15

- 3:15 James R. Harrison – Overview of Eastern Diamondback Rattlesnakes, *Crotalus adamanteus*, in Captivity
- 3:30 Javan M. Bauder, Holly A. Akenson, and Charles R. Peterson – Does the Presence of Conspecifics Influence the Seasonal Migrations of Communally Denning Rattlesnakes?
- 3:45 Melissa Amarello, Jeffrey J. Smith, and John Slone – Family Values: Rattlesnake Parental Care is More than Just Attendance
- 4:00 Michael J. Dreslik, Mark A. Davis, Sarah J. Wylie, Daniel B. Wylie, and Christopher A. Phillips – Demography of the Eastern Massasauga (*Sistrurus c. catenatus*) at Carlyle Lake, Illinois
- 4:15 Larry K. Kamees, Charles W. Painter, and Andrew T. Holycross – A Look into a Unique Rattlesnake Den in Central New Mexico
- 4:30 Joseph F. Banashek, Joseph P. Banashek, and William K. Hayes – What Makes for a Good Night of Road-hunting? Factors Associated with Nocturnal Activity of Rattlesnakes in the Western Mojave Desert
- 4:45 Xavier Glaudas and Javier A. Rodríguez-Robles – A Two-Level Problem: Habitat Selection in Relation to Prey Abundance in an Ambush Predator, the Speckled Rattlesnake (*Crotalus mitchellii*)

Poster Session

Vendor Room

7:00 pm to 10:00 pm

- Sarah J. Baker, Daniel B. Wylie, Michael J. Dreslik, and Christopher A. Phillips – Spatial Ecology of Neonate Eastern Massasaugas in Illinois
- Eric A. Dugan and William K. Hayes – Diet and Feeding Ecology of the Red Diamond Rattlesnake, *Crotalus ruber* (Serpentes: Viperidae)
- William K. Hayes and Aaron G. Corbit – How Dangerous are Baby Rattlesnakes? Origin and Prevalence of a Defanged Myth
- Mathew C. Morris – Systemic Analysis of Behavioral Patterns in the Western Diamond-Backed Rattlesnake *Crotalus atrox* in Response to Human Interactions: Implications for Education and Conservation

Laurel A. Moody, Jennifer M. Taylor, Dale M. Wallis, and James L. Wallis – *Crotalus atrox* Toxoid (for Equine Application) has been Found to be Incredibly Safe for Vaccination against the Effects of Rattlesnake Envenomation

Morgan McLarty and Elda E. Sánchez – Characterization of Crostamine from the Southern Pacific Rattlesnake (*Crotalus oreganus helleri*)

Aaron J. Place – The Evolution of Diet in Rattlesnakes

Richard R. Schaefer, D. Craig Rudolph, Josh B. Pierce, and Betty Crump – Habitat Relationships between Western Diamondback (*Crotalus atrox*) and Timber (*C. horridus*) Rattlesnakes in the Ouachita Mountains of Arkansas

Anne G. Stengle, Maureen Murray, Thomas Tynning, Alan Richmond, and Paul Sievert – Observations of Secondary Disease Agents in Timber Rattlesnake (*Crotalus horridus*) Populations in the Northeast

Kevin M. Stohlgren, Christopher L. Jenkins, John C. Maerz, John P. Carroll, and Nathan P. Nibbelink – Using Occupancy Modeling to Assess the Impacts of Urbanization on Eastern Diamondback Rattlesnakes (*Crotalus adamanteus*) on Georgia Barrier Islands

Marisa Tellez, Chip Cochran, and Jason Warner – Acanthocephalan Parasitism of the Southwestern Speckled Rattlesnake, *Crotalus mitchellii pyrrhus*

Trevor S. Valle – Fossil *Crotalus helleri* from Rancho La Brea

Michael M. Webber, Xavier Glaudas, and Javier A. Rodríguez-Robles – Do Sidewinder Rattlesnakes (*Crotalus cerastes*) Cease Feeding during the Breeding Season?

Steven D. Werman – Neurotoxin genes in the Midget Faded Rattlesnake, *Crotalus oreganus concolor*, from Western Colorado

Friday July 22nd

Continental Breakfast

Vendor room

6:30 to 7:30

Buses depart hotel for Arizona Sonora Desert Museum

7:30 am

Behind scene tours of the reptile buildings will start at 8:30 am in shifts and go until 10:30 am. Sign up sheets will be available in the vendor room all day Thursday.

Behavior, Ecology, and Physiology

- 10:30 Chip Cochran and Matt Goode – Sexual Variation in Timing of Egress and Ingress in Tiger Rattlesnakes (*Crotalus tigris*)
- 10:45 Eric A. Dugan and William K. Hayes – Resource Use and Niche Separation in the Sympatric Rattlesnakes *Crotalus ruber* and *C. oreganus helleri* in Southern California
- 11:00 Matthew L. Holding and Emily N. Taylor – The Physiological Effects of Short-Distance Translocation on the Northern Pacific Rattlesnake (*Crotalus o. oreganus*)
- 11:15 Vicente Mata-Silva, Arturo Rocha, and Jerry D. Johnson – Winter Body Temperatures in the Rock Rattlesnake, *Crotalus lepidus*, in the Chihuahuah Desert of Trans-Pecos, Texas
- 11:30 T. Lorraine McInnes, Howard Snell, and Eric Toolson – Western Diamond-Backed Rattlesnakes Head to the Marshes at Bosque del Apache National Wildlife Refuge, New Mexico
- 11:45 Ed McGowan – The Influence of Prey Resources on Timber Rattlesnake Reproduction

Lunch

12:00 pm to 1:30 pm

- 1:30 Bob McKeever – Apparent Shifts in Habitat Utilization by, and Relative Abundance of, *Crotalus atrox*, *Crotalus viridis*, and *Sistrurus catenatus* at the White Sands National Monument in South-Central New Mexico, after Four Decades
- 1:45 Jeffrey Mohr and David Duvall – The Oklahoman Timber Rattlesnake (*Crotalus horridus*) of the West: A Prairie Preference
- 2:00 Charles W. Painter, Larry K. Kamees, and Andrew T. Holycross – Investigation into the Denning Ecology of the Prairie Rattlesnake in North Central New Mexico
- 2:15 Stephane Poulin – “Ahh!! There is a Rattlesnake on the Path!” Management of Wild Rattlesnakes at the Arizona-Sonora Desert Museum

Venom and Toxicology

- 2:30 Bryan Grieg Fry – Origin and Evolution of Rattlesnake Venoms
- 2:45 William K. Hayes and Zia Nisani – Venom Metering by Rattlesnakes: Evidence from Kinematic Correlates of Venom Expulsion

Afternoon Break

3:00 to 3:15

- 3:15 James Biardi – What We Know, Don't Know, and Need to Know about Mammalian Resistance to Rattlesnake Venoms
- 3:30 Christopher J. Rex and Stephen P. Mackessy – Effects of Captivity and Season on the Composition of Rattlesnake Venoms
- 3:45 Anthony J. Gandara – Intraspecific Variation in the Venom of the Rock Rattlesnake (*Crotalus lepidus*)
- 4:00 Eric Gren, Carl Person, John N. Buchholz, Danilo S. Boskovic, and William K. Hayes – Geographic Variation in the Venom of the Southern Pacific Rattlesnake (*Crotalus oreganus helleri*), with Emphasis on Neurotoxicity.
- 4:15 Sean P. Bush, Steven A. Seifert, and Sarah R. Pearl – Continuous Infusion of Crotalidae Polyvalent Fab (Ovine) in a Patient with Rattlesnake Envenomation
- 4:30 Harry Greene – A Severe, Legitimate *Crotalus molossus* Bite: Lessons Learned from a Non-Traditional Case History.

History

Manny Rubio – New World Herpetological Eye Candy
4:30 to 5:00

Dinner

5:30 pm to 7:00 pm
Museum Grounds

Buses depart for Hotel

7:15

Saturday

Continental Breakfast

7:00 am to 8:00 am

Evolution, Morphology, and Ecology

- 8:00 J. Jesus Sigala-Rodríguez, Harry W. Greene, Keith G. Jenkins, Thiago F. L. V. B. Rangel, Kelly R. Zamudio, Jonathan A. Campbell, and Alex S. Flecker – The Importance of History and Resource Availability in Geographical Patterns of Diversity: Pitvipers in the Western Hemisphere
- 8:15 Kenneth J. Halama – Chihuahuan Desert Rattlesnakes: Niche Segregation at the Landscape Scale
- 8:30 Allyson Fenwick – Combined Morphological and Molecular Analysis of Rattlesnake Phylogeny
- 8:45 David Lazcano, Carlos Alberta Martinez-Sanchez, Michael S. Price, Sarai Betzabe Lopez-Quintanilla¹, and Roberto Mercado-Hernandez – Variation in Body Weight in Three Species of Mountain Rattlesnakes, *Crotalus aquilus*, *Crotalus lepidus*, and *Crotalus willardi*, under Conditions in Captivity
- 9:00 José Avila and Victor H. Reynoso – Analysis of the Structure and Genetic Diversity of Four Populations of *Crotalus molossus nigrescens*
- 9:15 Hector Riveroll, Jr., and Jerry D. Johnson – The Phylogeny of the Rock Rattlesnake: *Crotalus lepidus*
- 9:30 Rod D. Wittenberg – Thermal Ecology of the Timber Rattlesnake (*Crotalus horridus*) in a Fragmented Agricultural Landscape
- 9:45 Richard S. Funk, Rachel E. Marschang, Enna Romanova, and Maha Degan – Survey of Native Arizona Rattlesnakes for Viral Infections

Morning Break

10:00 am to 10:15 am

- 10:15 Douglas L. Hotle – Multidisciplinary Collaboration Approach to Rattlesnake Biology
- 10:30 Robert C. Jadin – Exploring Hemipenial Evolution among the Rattlesnakes: Combining Descriptive Morphology and Phylogeny

Venom and Snakebite

- 10:45 Steven A. Seifert – Recurrent, Persistent, or Late, New-Onset Hematologic Abnormalities in Crotaline Snakebite.
- 11:00 Kristen Wiley and James R. Harrison – Comparison of Two Bites by Mojave Rattlesnakes, *Crotalus scutulatus scutulatus*, in One Individual
- 11:15 Edward J. Wozniak – Exotic Venomous Snakes and Disaster Management: A Reference to the Identification of Commonly Kept Species, Taxon-Specific First Aid Considerations and Anti-Venom Selection

11:30 Ryan Curtis, Daniel J. Massey, Kelvin A. Richards, Keith Boesen, Juan Calvete, and Elda Sanchez
– Venom Variability and Health Severity Outcomes in *Crotalus scutulatus scutulatus* from
Southern Arizona

11:45 Leslie Boyer, A. Alagón, and S. Seifert – An Envenomation Registry: A Proposal for Collaborative
Research

Lunch

12:00 pm to 1:30 pm

Behavior, Physiology, and Ecology

1:30 Emily N. Taylor, Julius Frazier, Matthew Holding, and Christy Strand – Sex Differences in
Rattlesnake Spatial Ecology: It's All in the Mind

1:45 Michael D. Cardwell – Prolonged Accompaniment, Courtship, and Defense of a Pregnant Female
in *Crotalus o. oreganus*

2:00 Cassandra T. Stepp-Bolling – Temperature Effects on Strike Performance of the Southern Pacific
Rattlesnake (*Crotalus oreganus helleri*)

2:15 Aaron R. Krochmal, Travis J. LaDuc, and Aaron J. Place – “Burly and Bright!” Rattlesnakes
Appear to Exhibit One-Trial Learning

2:30 Krystyn Michelle Pozarowski – Population Genetics of Three Rattlesnake Species

2:45 David Lazcano, Sarai B. López-Quintanilla Sarai B., Michael Price, Carlos A. Martínez-Sánchez,
and Roberto Mercado-Hernández - Energy Accumulation In A Colony Of The Rocks Rattlesnake
Crotalus lepidus (Kennicott, 1861) under a Regime of Diet based on Rodents *Mus musculus*
(Linnaeus, 1758) in Captivity

Afternoon Break

3:00 pm to 3:15 pm

Art and Culture

3:15 Tell Hicks – A Herpetological Artist and Rattlesnakes

3:30 Steve Pavlik – Big Snake and His Kin: Southwest Indigenous Views, Attitudes, and Knowledge
Regarding Rattlesnakes

3:45 Bill Love – Shooting Buzztails (with a Camera)

4:00 Jessie M. Meik – TBA

Banquet

6:00 pm to 7:00 pm

Banquet Speaker

Jonathan Campbell

Working with Rattlesnakes in Mexico

7:00 pm

Auction

To benefit an educational grants fund

8:00 pm