

- Schedule of Student Talks – Friday, April 1-

Session 1: 9:00 AM – 10:00 AM

	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Genetics in Conservation	Biogeography	Agricultural Systems
9:00AM	<p>T1. Assessment of genetic diversity, spatial and temporal genetic structure and effective population size for the critically endangered Kemp's ridley sea turtle (<i>Lepidochelys kempii</i>)</p> <p style="text-align: center;">Xochitl De La Rosa</p>	<p>T5. The Effects of Post Glacial Climate Change on the Morphology and Geographic Distribution of Members of The Chrysemys Complex</p> <p style="text-align: center;">Wesley Vermillion</p>	<p>T9. The effects of feeding nitrate to ruminant animals: toxicity, greenhouse gas emissions, and energetics.</p> <p style="text-align: center;">Elizabeth Latham</p>
9:15AM	<p>T2. Mitochondrial Haplotype Diversity in Yellowstone National Park Bison</p> <p style="text-align: center;">David Forgacs</p>	<p>T6. Patterns of Parasitism: The Latitudinal Diversity Gradient of Parasitic Helminths</p> <p style="text-align: center;">Whitney Preisser</p>	<p>T10. Interactions Between Silicon, Arsenic, and <i>Magnaporthe oryzae</i> in Rice Plants</p> <p style="text-align: center;">Michelle Paukett</p>
9:30AM	<p>T3. How do temperature differences relate to genome size variation?</p> <p style="text-align: center;">Carl Hjelman</p>	<p>T7. Cryptic Tails: Locating the Black-Spotted Newt</p> <p style="text-align: center;">Evan Bare</p>	<p>T11. The effects of almond protection fungicides on honey bee (<i>Apis mellifera</i>) forager mortality</p> <p style="text-align: center;">Adrian Fisher II</p>
9:45AM	<p>T4. Phylogenetic relationships among species in Aphelinus (Hymenoptera: Aphelinidae)</p> <p style="text-align: center;">Xanthe Shirley</p>	<p>T8. Host associations and biogeography of avian chewing lice from Sub-Saharan Africa</p> <p style="text-align: center;">Oona Takano</p>	<p>T12. Population genetics of the sugarcane aphid in the continental US</p> <p style="text-align: center;">Jocelyn Holt</p>

- Poster Session: 10:00 AM - 11:00 AM -

Session 2: 11:00 AM – 12:00 PM

	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Impacts of Invasive Species	Community Ecology: From Land to Ocean	Impacts of Disturbance
11:00AM	<p>T13. I'll have what she's having: Next-generation sequencing gut content analysis of the red imported fire ant (<i>Solenopsis invicta</i>)</p> <p style="text-align: center;">MacKenzie Kjeldgaard</p>	<p>T17. Global Patterns of Fish Functional Diversity and Trait Convergence along Species Richness and Environmental Gradients</p> <p style="text-align: center;">Luke Bower</p>	<p>T21. Effects of Compounded Disturbances, Discharge from Desalination Plants and <i>Prymnesium parvum</i> Invasion, on Texas Freshwater Plankton Communities</p> <p style="text-align: center;">Sierra Cagle</p>

11:15AM	T14. Red imported fire ant (<i>Solenopsis invicta Buren</i>) foraging behavior in the presence of swarming bacteria <i>Proteus mirabilis</i> Elida Espinoza	T18. Seasonal changes in the functional community assembly of tropical fishes Daniel Fitzgerald	T22. Impacts of human disturbance on carnivores in protected areas of the Southwest Angela Darnell Baker
11:30AM	T15. Feature Selection and Transferability for Maxent and Envelope Score Ecological Niche Models of the Subtropical Tamarisk Beetle (<i>Diorhabda sublineata</i>) Introduced to North America James Tracy	T19. The roles of deterministic factors and stochasticity on the trophic interactions between birds and fish in temporary floodplain ponds Friedrich Keppeler	T23. Survivorship of the Dunes Sagebrush Lizard in Disturbed and Undisturbed Habitat Danielle Walkup
11:45AM	T16. Genetic Analysis of the Potential Hybridization between the Endangered <i>Gambusia nobilis</i> and Invasive <i>Gambusia geiseri</i> , in Texas Victoria Rodriguez	T20. Allelopathy and biodiversity: an assessment of neutral, lumpy and intransitive phytoplankton assemblages Rika Muhl	T24. The synergistic effects of in-hive miticides on honey bee queen (<i>Apis mellifera L.</i>) retinue response Elizabeth Walsh

- Lunch: 12:00 PM – 1:00 PM (Room 407) -

Session 3: 1:00 PM – 2:00 PM

	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Environmental Change across Scales	Sexual Selection	Conserving Biodiversity
1:00PM	T25. Controlling Wildfire; How Climate Change and Land Use Drives Fire Across the Western United States Chase Brooke	T29. Determining Genomic Signatures of Sexual Selection in Primates Utilizing Sex Hormone Response Elements Andrew Anderson	T33. Can freely flying non-releasable captive parrots enhance conservation success through inter-species behavior transmission? Constance Woodman
1:15PM	T26. Spatial variability in hydrologic connectivity between a coastal river and its floodplain Cesar Castillo	T30. The role of pheromones as a mechanism of reproductive isolation in <i>Xiphophorus</i> Chris Holland	T34. Pelagic Sargassum and its associated fauna in the Gulf of Mexico, Caribbean, and Sargasso Sea Lindsay Martin
1:30PM	T27. Spatial heterogeneity of fine root biomass in a subtropical savanna: Responses to woody plant invasion	T31. Coevolution of reproductive anatomy and mating behavior in cetaceans	T35. Global Threats and Trends in the Order Scandentia: An Assessment Using IUCN Red List Criteria

	Yong Zhou	Dara Orbach	Rebecca Langley
1:45PM	T28. Contrasting effects of two ant species on soil physical properties in a semi-arid environment in Brazil Pedro Afonso Marquezini Leite	T32. Exploring the sexy frontiers of functional morphology...in 3D!!! (Orthoptera: Acrididae: <i>Melanoplus rotundipennis</i>) Derek Woller	T36. An updated checklist of the bees of the Commonwealth of Dominica (Hymenoptera: Apoidea: Anthophila) Shelby Kilpatrick
Session 4: 2:00 PM – 3:15 PM			
	Rudder Tower Room 404	Rudder Tower Room 401	Rudder Tower Room 410
Theme	Human and Natural Systems	Shifting Ranges	Biogeochemistry and Biophysics
2:00PM	T37. Environmental flows to support water management in a participatory manner in a Brazilian watershed committee: a case study Camilla Hellen Peixoto de Lima	T40. Mapping distribution of butterflies in central Bobiri Forest Reserve and investigation of logging and stage of regeneration on butterfly species richness and diversity Louis Addae-Wireko	T45. Urbanization and nitrogen deposition in North Texas: effects on the native prairie grass, little bluestem (<i>Schizachyrium scoparium</i>) Michelle Green
2:15PM	T38. Public Policy Impacts on Tropical Forest cover in Mesoamerica Amelia Min-Venditti	T41. Diet and Habitat of the Little Brown Bat (<i>Myotis lucifugus</i>) in Interior and Northern Alaska Rachel Shively	T46. The Effects of Honey Bee (<i>Apis mellifera</i>) Queen Insemination Volume on Colony Growth Alexandria Payne
2:30PM	T39. Fire on the fringe: synthesis and coupling of human-wildfire dynamics Kenneth Wallen	T42. The correlation between prey item distribution and Reddish Egret (<i>Egretta rufescens</i>) foraging behavior Beau Daigneault	T47. Decade-scale influences of organic matter removal on pine forest soil fungal dynamics Ryan Mushinski
2:45PM	-	T43. Palynological analysis of pollen collected by honey bees (<i>Apis mellifera</i>) in developed areas in four regions of the United States Pierre Lau	T48. Photosynthetic responses to leaf surface wetness in tropical and semiarid savannah trees with varying leaf traits Luiza Maria Teophilo Aparecido
3:00PM	-	T44. Arthropod diversity response to deforestation and desertification in the Sahel Brandon Lingbeek	-

- AWARD CEREMONY 3:35 PM – 4:00 PM (Room 401) -

Poster Session - Rudder Tower Room Exhibit Hall - 10:00 AM – 11:00 PM

Poster #	Classification	Poster Title	Author
1	Graduate	Daycent Simulations to Test the Influence of Nitrogen Fertilization in Bioenergy Sorghum Production	Yong Wang
2	Undergraduate	Coastal Plant Attributes and Marsh Restoration along the Gulf of Mexico	Kathleen Eubanks
3	Graduate	Carbon Sequestration in North American Grasslands as a Source of Greenhouse Gas Mitigation	Paul Goetze
4	Undergraduate	Host Associations and New Geographic Localities of Parasitic Chewing Lice from Benin	Preston Mitchell
5	Graduate	Using citizen science roadkill data with ecological niche modeling to project herpetofaunal road mortality hotspots in Taiwan	Kristina Chyn
6	Undergraduate	American Toads (<i>Anaxyrus americanus</i>) as Biological Controls in an Integrated Pest Management System at the Dickinson College Farm	Mairi Poission, Emily Kaplita
7	Undergraduate	Effects of Gillnet Entanglement on Mortality of Dusky Dolphins (<i>Lagenorhynchus obscurus</i>)	Sara Stephens, Aminta Arevilca, Samantha Murray
8	Undergraduate	The Global Marine Species Assessment	Marie Perez
9	Undergraduate	Does seed predation facilitate germination in a common desert shrub (<i>Acacia greggii</i>)?	Madison Toles
10	Undergraduate	Reproductive and dispersal patterns of white spruce (<i>Picea glauca</i>) along Alaskan treelines	Julianna Trevino
11	Undergraduate	Effects of Oil Spills on Populations of Loggerhead Sea Turtle	Brittany Stamps, Kacy Beck, Hannah Gerke
12	Undergraduate	Understanding Trophic Transfer of Gambiertoxins in Herbivorous Reef Fish from St. Thomas, Virgin Islands	Jessica Gwinn
13	Undergraduate	Water Quality and Health of Coral Reefs	Laura Mae Hinson
14	Undergraduate	Effects of Genetic Depletion on Estimating Risk of Extinction of the Endangered Florida Panther (<i>Puma concolor coryi</i>)	Anna Cole, Chris Chen, Kelsea Anthony
15	Graduate	A spatio-temporal population dynamics model to track density and average mass of brown shrimp in the Gulf of Mexico	Bheemaiah ShankaraNarayanaRao
16	Graduate	Local and Regional Impact of Parcel Elevation on Residential Flood Loss and Socio-ecological systems	Kayode Atoba
17	Undergraduate	Using tailorable thermal expansion to reduce energy usage Alaskan Treeline Advance Patterns of White Spruce (<i>Picea glauca</i>)	Keena Auld
18	Graduate	Using tailorable thermal expansion to reduce energy usage	Dominic Gehring
19	Graduate	Evaluating waterborne disease risk in remote rainforest tourism	Amelia Min-Venditti, Constance Woodman
20	Graduate	Phylogeographic reconstruction reveals invasion history of supralittoral isopod <i>Ligia exotica</i> : human-mediated introduction of cryptic species from East Asia to the Gulf of	Chang Wang

		Mexico	
21	Graduate	Electric Fishes of the Amazon: preliminary field work on signaling adaptations	David Saenz
22	Graduate	Genetic characterization of <i>Barbus</i> (Pisces, Cyprinidae) diversity in Lake Victoria drainage basin, Kenya	Violet Ndeda
23	Undergraduate	Does <i>Spiroplasma moj</i> Offer Protection to Host <i>Drosophila</i> Flies from Parasitoid Wasp?	Paulino Ramirez III
24	Graduate	Intra-annual variation in fish community assemblages in the Okavango Delta, Botswana	Thethela Bokhutlo
25	Undergraduate	Testing for the presence of <i>Hematodinium perezii</i> in Blue Crabs (<i>Callinectes sapidus</i>) along the Texas Gulf Coast.	Joshua Brown
26	Graduate	Temporal decay and organization of parasite metacommunities in a floodplain lagoon	Danielle Cruz
27	Graduate	Breathing rate as a measure of emotional response to social calls in Brazilian Free-tailed bats (<i>Tadarida brasiliensis</i>)	Alyson Brokaw
28	Graduate	Vegetative Changes Following Mesquite Removal from Texas Grasslands	Michael Duncan
29	Graduate	Identification and Morphological Variation of an Invasive Parasite in Introduced and Native Lizards	Andrew Sakla
30	Undergraduate	Taxonomic review of the western Atlantic Skilletfish <i>Gobiesox strumosus</i>	Erin McGrew
31	Graduate	Comparison of Soil Microbiomes of Mesquite (<i>Prosopis glandulosa</i>) and Texas Wintergrass (<i>Nassella leucotricha</i>) Communities	Emily Lansmon
32	Undergraduate	Simulated effects of oil spills and climate catastrophes on demography and population trends of Florida manatee	Jasmin Diaz-Lopez
33	Undergraduate	A survey of small mammal ectoparasites in south Texas	Hunter Folmar
34	Undergraduate	The Nearctic Nedubini: the most basal lineage of katydids is resolved among the paraphyletic "Tettigoniinae" (Orthoptera: Tettigoniidae)	Bo Huey Chiang
35	Graduate	Functional heterogeneity of <i>Pan troglodytes</i> in montane rainforests	Maegan Fitzgerald
36	Graduate	Scarlet Macaw (<i>Ara macao</i>) landscape use in the Amazon rainforest of Peru	Gabriela Vigo Trauco
37	Undergraduate	Effects of Burning on Relative Abundances and Morphological Characteristics of Green Tree Frog in Texas	Thanchira Suriyamongkol
38	Undergraduate	Use of PVC Pipes of Different Diameters as Artificial Refuges by Green Tree Frogs in Texas	Kaitlyn Forks
39	Undergraduate	Simulated effects of oil spills and climate catastrophes on demography and population trends of Florida manatee	Paola Camposeco
40	Undergraduate	Simulated effects of Sex-Ratio Disparity on Population Dynamics of the Endangered Houston Toad	Rebecca Aden, Lela Culpepper
41	Undergraduate	Thermal Ecology of the Dune Dwelling Lizard, <i>Sceloporus arenicolus</i>	Connor Jacobson
42	Undergraduate	Trends in Carapace Length of Sub-Adult Kemp's Ridley Sea Turtles in the Mississippi Sound	Amanda Stoner
43	Undergraduate	Gone with the Wind: A Look at Wind Development and its Impacts on Wildlife	Lauren Naylor