

Southwestern Association of Naturalists (SWAN) 2025

Short Program (Updated 04.25)

Embassy Suites by Hilton, 24-27 April 2025

Thursday, 24 April 2025

12:00p - 5:00p	Registration/Inscripción Registration Desk
12:00p - 6:00p	Luncheon and Board of Governors Meeting/Almuerzo y Reunión del Consejo Directivo, Ocotillo II
6:00p - 9:00p	Welcome Reception/Recepción de Bienvenida - La Ventana Room

Friday, 25 April 2025

7:00a - 5:00p	Registration/Inscripción Registration Desk
7:00a - 5:00p	Speaker Ready Room/Sala para preparar
Plenary Session and Wilks Award Competition 2025: Sandia Ballroom	
8:00a	Welcome, Opening Comments/Bienvenida, Comentarios de apertura
8:15a	CONNECTING MOVEMENT AND SOUND IN BATS: A STUDY WITH GEOMETRIC MORPHOMETRICS
8:30a	MIGRATION OF ZOOPLANKTON SPECIES BY ENDOZOOCHORY OF MIGRATORY BIRDS
8:45a	THE EFFECTS OF INVASIVE FERAL HOG (SUS SCROFA) ON CHANNEL CONDITIONS AND BENTHIC MACROINVERTEBRATE COMMUNITIES IN THE SOUTH LLANO RIVER
9:00a	POPULATION DENSITY OF THREE CRITICALLY ENDANGERED ENDEMIC TURTLES OF THE CUATRO CIENEGAS PROTECTED AREA IN MEXICO
9:15a	TOUGH CRAP: THE DIET OF THE NORTHERN GIANT MUSK TURTLE (STAUROTYPUS TRIPORCATUS), A DUROPHAGOUS TURTLE
9:30a	EFFECTS OF TEMPERATURE ON THE PROBABILITY OF SURVIVING TO HATCHING FOR EASTERN BLUEBIRDS (SIALIA SIALIS) ON A UNIVERSITY CAMPUS
Oral Session – Sandia Ballroom	
9:45a	VERNON AND FLORENCE MERRIAM BAILEY: PIONEERING NATURALISTS OF THE AMERICAN SOUTHWEST
	1

Friday, 25 April 2025 (continued)		
Oral Session – Sandia Ballroom		
10:00a	AGROECOSYSTEMS AND ECOLOGICAL RESTORATION AS ALTERNATIVES FOR THE MAINTENANCE OF PHYLLOSTOMID BAT DIVERSITY AND SEED DISPERSAL NETWORKS	2
10:15a	Break - Precon Hallway Sandia Ballroom	
10:30a	Business Meeting/Reunión de negocios	
12:00p-1:30p	Lunch - On your own	
12:00p	Student Workshop - Sandia Ballroom II - III	
Oral Session – Sandia Ballroom		
1:30p	MULTISCALE HABITAT SELECTION TO INVESTIGATE COMPETITION AS A THREAT TO THE PEÑASCO LEAST CHIPMUNK	3
1:45p	DIVERSITY AND SIMILARITY OF NON-VOLANT SMALL MAMMAL COMMUNITIES IN THE ANDEAN PÁRAMOS	4
2:00p	TRENDS IN SMALL MAMMAL POPULATIONS AFTER SEVEN YEARS OF MARK-RECAPTURE RESEARCH IN THE GYPSUM HILLS OF WESTERN OKLAHOMA	5
2:15p	DETECTION OF PARASITES AND MICROPLASTICS IN RODENT FECAL PELLETS	6
2:30p	VAMPYRODES (CHIROPTERA: PHYLLOSTOMIDAE): CURRENT DISTRIBUTION OF THE GENUS AND FUTURE PERSPECTIVES UNDER THE EFFECTS OF CLIMATE CHANGE	7
2:45p	MIGRATION PATTERNS OF NYCTINOMOPS MACROTIS, LASIURUS CINEREUS, AND LASIURUS BOREALIS AT TWO NATIONAL PARKS IN SOUTHEASTERN COLORADO	8
3:00p	NATIVE AMERICAN BAT MONITORING AND CONSERVATION THROUGH COLLABORATIVE EDUCATION AND OUTREACH	9
3:15p-3:30p	Break - Precon Hallway Sandia Ballroom	
3:30p	RELATIVE ABUNDANCE AND ACTIVITY PATTERNS OF THE GRAY FOX (UROCYON CINEREOARGENTEUS) IN SOUTHEASTERN MEXICO.	10
3:45p	EVOLUTIONARY DIVERSIFICATION IN SKY ISLANDS: SYSTEMATICS OF THE PEROMYSCUS DIFFICILIS SPECIES GROUP (RODENTIA) IN NORTH AMERICA.	11
4:00p	RED-COCKADED WOODPECKER (RCW) HABITAT AND ECOLOGICAL RESTORATION IN EAST TEXAS	12

Friday, 25 April 2025 (continued)		
Oral Session – Sandia Ballroom		
4:15p	SHIFTS IN BREEDING PHENOLOGY FOR CASSIN'S SPARROW (PEUCAEA CASSINII) OVER FOUR DECADES	13
4:30p	ASSESSMENT OF BIRD COMMUNITIES USING EBIRD DATA IN TEXAS FOLLOWING A SIGNIFICANT WEATHER EVENT	14
4:45p	SOCIAL BUFFERING IN SNAKES: INVESTIGATING SOCIAL ATTENUATION OF THE STRESS RESPONSE IN NEONATAL AND JUVENILE COTTONMOUTHS (<i>Agkistrodon piscivorus</i>)	15
5:00p	ALTERNATIVE FIRST-YEAR SOCIAL TACTICS IN MALE COLLARED LIZARDS: CAUSES AND LIFETIME FITNESS CONSEQUENCES	16
6:00p-9:00p	Picnic: New Mexico Museum of Natural History and Science	

Saturday, 26 April 2025		
7:00-5:30	Registration/Inscripción Registration Desk	
7:00-5:30	Speaker Ready Room/Sala para preparar	
7:00 AM	Breakfast with a Scientist (Frontier Restaurant (https://www.frontierrestaurant.com) Meet in Lobby @6:45 am	
Oral Session A - Sierra II (room updated 4.25)		
8:15a	VARIABLE PREY HANDLING BEHAVIORS AND BODY TEMPERATURE EFFECTS ON STRIKE-INDUCED CHEMOSENSORY SEARCHING (SICS) IN COTTONMOUTH SNAKES (AGKISTRODON PISCIVORUS)	17A
8:30a	FROM GENES TO PROTEINS: EXPLORING THE MOLECULAR BASIS OF VENOM VARIATION IN THE Crotalus molossus COMPLEX	18A
8:45a	UCO GECKOS (HEMIDACTYLUS TURCICUS) HAVE LOWER CRITICAL THERMAL LIMITS THAN POPULATIONS FURTHER SOUTH	19A
9:00a	GENETIC DIVERSITY AND DEMOGRAPHIC HISTORY OF THE VENERABLE COLLARED LIZARD CROTAPHYTUS ANTIQUUS (AXTELL & WEBB, 1995).	20A
9:15a	THERMAL REQUIREMENT DIVERSIFICATION IN LIZARDS OF THE PHRYNOSOMATIDAE FAMILY	21A
9:30a	DISTRIBUTION, HABITAT USE, AND CONSERVATION ECOLOGY OF THE WESTERN RIBBONSNAKE (THAMNOPHIS PROXIMUS) IN NEW MEXICO	22A
9:45a	Break - Precon Hallway Sandia Ballroom	

Saturday, 26 April 2025 (continued)		
Oral Session A - Sierra II (room updated 4.25)		
10:00a	INFLUENCE OF HABITAT CHARACTERISTICS ON WETLAND OCCUPANCY OF WESTERN CHICKEN TURTLES (DEIROCHELYS RETICULARIA MIARIA) IN SOUTHEASTERN OKLAHOMA	23A
10:15a	SNAKE FUNGAL DISEASE: HOW LONG HAS IT BEEN HERE?	24A
10:30a	FINDING A NEEDLE IN A HAYSTACK: TOWARDS THE USE OF MACHINE LEARNING TO DETECT GOPHERUS BERLANDIERI IN TRAIL CAMERA DATASETS	25A
10:45a	INVESTIGATING THE EFFECTS OF INVASIVE SPECIES AND CLIMATE CHANGE IN THE POPULATIONS OF FRESHWATER TURTLES IN THE SOUTHWESTERN UNITED STATES	26A
11:00a	CROWN FIRES, MONSOON FAILURE, AND A HEAT DOME PRESENT CHALLENGES TO TURTLES AND PINE TREES IN THE PELONCILLO MOUNTAINS	27A
11:15a	ACTIVITY PATTERNS OF CENTRAL AMERICAN RIVER TURTLES (DERMATEMYS MAWII) IN BELIZE	28A
11:30a	THE EFFECTS OF SEASONALITY ON TURTLE CAPTURE EFFICACY IN OKLAHOMA	29A
11:45a	SELECTED CONSERVATION EFFORTS FOR MEXICAN VIPERS	30A
12:00p-1:30p	Lunch - On your own	
1:30p	"RANGE EXPANSION OF THE NON-NATIVE MEDITERRANEAN GECKO (HEMIDACTYLUS TURCICUS) ACROSS NEW MEXICO AND WEST TEXAS"	31A
1:45p	EFFECTS OF FLOW TRAINING ON PHYSIOLOGICAL PERFORMANCE AND POST-STOCKING SURVIVAL AND RETENTION OF HATCHERY-REARED COLORADO PIKEMINNOW	32A
2:00p	CASCADING EFFECTS OF WOODY ENCROACHMENT ON RESILIENCE OF PRAIRIE STREAM FISHES	33A
2:15p	REINTRODUCTION OF THE BALSAS CATFISH (ICTALURUS BALSANUS) IN THE LAS ESTACAS SPRING, MORELOS, MEXICO.	34A
2:30p	MATE CHOICE AS A DRIVER OF VARIABLE RATES OF REPRODUCTIVE ISOLATION IN THE FUNDULUS NOTATUS SPECIES COMPLEX	35A
2:45p	BIOGEOGRAPHY OF RIO GRANDE SUCKER IN THE SOUTHWESTERN UNITED STATES	36A
Oral Session B - Sandia Sierra III (room updated 4.25)		
8:15a	PRESENCE OF MICROBIAL AGENTS IN DERMIS OF AGAVE PINTILLA, AGAVE NICKELSIAE, AGAVE DURANGENSIS AND AGAVE TEQUILIANA FOR IN VITRO REPRODUCTION	17B

Saturday, 26 April 2025 (continued)		
Oral Session B - Sierra III (room updated 4.25)		
8:30a	RESILIENCE, RESISTANCE, AND RECOVERY OF MEXICAN FOREST SPECIES IN DROUGHT SCENARIOS: PRELIMINARY SIGNALS	18B
8:45a	DETECTION OF BURNED AREAS USING THE RANDOMFOREST ALGORITHM AND GOOGLE EARTH ENGINE IN THE IZTACCÍHUATL-POPOCATÉPETL PROTECTED NATURAL AREA, MEXICO.	19B
9:00a	DOUGHT RESILIENCE FOR 150 YEARS IN SOUTHWESTERN DURANGO: IN THE WORDS OF ABIES DURANGENSIS MARTINEZ	20B
9:15a	FESCUE RESCUE: A BI-NATIONAL PROJECT TO RECOVER GUADALUPE FESCUE (FESTUCA LIGULATA), AN ENDANGERED GRASS OF THE NORTHERN SIERRA MADRE ORIENTAL	21B
9:30a	BROWSED AND CONFUSED: RELATIONSHIPS BETWEEN DEER BROWSING INTENSITY, SLOPE ASPECT, AND UNDERSTORYPLANT COMMUNITIES IN THE KANSAS CROSS TIMBERS	22B
9:45a	Break - Precon Hallway Sandia Ballroom	
10:00a	VARIATION IN POPULATION STRUCTURE AND ENVIRONMENTS ACROSS THE LEADING AND CENTRAL DISTRIBUTION OF PINUS DISCOLOR	23B
10:15a	FIRE IN THE SKY ISLANDS: CONTEMPORARY WILDFIRE IMPACTS FROM FIVE RECENT WILDFIRES IN THE SIERRA MADRE RANGES	24B
10:30a	RECONSTRUCTION OF THE DEMOGRAPHIC HISTORY OF POPULUS TREMULOIDES IN MEXICO USING PHLASH AND ITS RESPONSE TO ANCESTRAL TEMPERATURE	25B
10:45a	RIPARIAN CONSERVATION OPPORTUNITY AREAS IN NEW MEXICO: LEVERAGING VEGETATION MAPPING FOR CONSERVATION PLANNING	26B
11:00a	Dendrogenomic resilience mechanisms of two endangered Mexican spruces	27B
11:15a	FLORA ON FILE: UTILIZING ARTIFICIAL INTELLIGENCE TO DIGITIZE COLLECTIONS FOR INSTITUTIONS	28B
11:30p	DEER HERBIVORY, LIGHT AVAILABILITY AND OAK REGENERATION IN KANSAS DRY WOODLANDS.	29B
11:45p	GLOBAL WARMING CAUSES THE EXTINCTION OF CROTON GUATEMALENSIS, A MULTI-PURPOSE FOREST SPECIES IN MEXICO	30B
12:00p	Lunch - On your own	
1:30p	ASSESSING THE SUITABILITY OF SPECTRAL INDICES FOR MISTLETOE EVALUATION IN MIXED FORESTS.	31B

Saturday, 26 April 2025 (continued)		
Oral Session B - Sierra III (room updated 4.25)		
1:45p	SOIL INVERTEBRATE HABITAT ASSOCIATIONS IN THE SAN LUIS VALLEY, COLORADO	32B
2:00p	COMPARATIVE STUDY OF TRANSPOSABLE ELEMENTS IN UNICELLULAR AND MULTICELLULAR EUKARYOTIC MICROORGANISMS.	33B
2:15p	DETECTION OF CRYPTIC AND NOT-SO-CRYPTIC SPECIES IN THE COCKROACH HOMOEOGAMIA MEXICANA BURMEISTER, 1838 (BLATTODEA: CORYDIIDAE)	34B
2:30p	PATTERNS OF SEXUAL TRAIT ALLOMETRY ACROSS FRESHWATER AMPHIPOD POPULATIONS	35B
3:00 – 5:00 pm Poster Session/Clark Hubbs Poster Award Judging - Poster Hall		
	LANDSCAPE'S IMPACT ON THE GENOMIC STRUCTURE OF THE GREAT PLAINS TOAD IN NEW MEXICO	P1
	HYBRIDIZATION DYNAMICS ACROSS ENVIRONMENTAL VARIABLES IN SPADEFOOTS	P2
	POPULATION DENSITY AND BREEDING HABITAT CHARACTERIZATION OF THE SAVANNAH SPARROW (PASSERCULUS SANDWICHENSIS) IN GRASSLANDS AND AGRICULTURAL AREAS OF GALEANA, NUEVO LEÓN.	P3
	SEX RATIO OF GRASSLAND SPECIALIST BIRDS DURING THE NON-REPRODUCTIVE PERIOD IN THE CHIHUAHUA DESERT	P4
	COMPARISON OF POPULATION DENSITY AND HABITAT USE OF SPARROWS OF THE GENUS PEUCAEA IN THE EL TOKIO GRASSLAND PRIORITY CONSERVATION AREA.	P5
	SEX RATIO AND SEXUAL DIMORPHISM IN THE ENDANGERED WORTHEN'S SPARROW (SPIZELLA WORTHENI)	P6
	LONGTERM ABUNDANCE AND CONDITION OF REDHORSE IN THE WABASH RIVER	P7
	FISH ASSEMBLAGES OF THE WABASH RIVER PRIOR TO MODIFICATION OF UPSTREAM DAM RELEASES	P8
	A CATASTROPHIC WILDFIRE HAD LIMITED EFFECTS ON MACROINVERTEBRATE AND FISH COMMUNITIES AT THE INTERFACE OF THE BURN AREA IN COAL CREEK, COLORADO	P9
	MICROBIAL PROTEIN PRODUCTION IN PEACH CACTUS <i>Opuntia leucotricha</i> THROUGH SOLID-STATE FERMENTATION USING NATIVE BEAN STRAW FUNGI <i>Phaseolus vulgaris</i> .	P10
	TRENDS IN COLLEMBOLA ABUNDANCE AND DIVERSITY IN THE SAN LUIS VALLEY, CO	P11

Saturday, 26 April 2025 (continued)

3:00 – 5:00 pm Poster Session/Clark Hubbs Poster Award Judging - Poster Hall

ESTABLISHING THE DISTRIBUTION OF THE AUSTRALIAN REDCLAW CRAYFISH (<i>CHERAX QUADRICARINATUS</i>) AND THE IMPACTS IT COULD HAVE ON NATIVE POPULATIONS	P12
NATURAL HISTORY OF THE MEXICAN COCKROACH <i>HOMOEOGAMIA MEXICANA</i> BURMEISTER, 1838 (BLATTODEA: CORYDIIDAE): BIOLOGY, DISTRIBUTION, AND HABITAT CHARACTERIZATION	P13
HOW CHANGES IN DENSITY RELATING TO SEASONS IMPACT SEXUAL SELECTION IN LAKE AND SPRING POPULATIONS OF <i>HYALELLA AMPHIPODS</i>	P14
SEXUAL SELECTION IN RESPONSE TO VARYING LEVELS OF CULTURAL EUTROPHICATION	P15
AOUDAD USE OF ROCK SHELTERS AT HUECO TANKS STATE PARK AND HISTORIC SITE	P16
SEASONAL VARIATION IN BAT SPECIES PRESENCE AT BRIDGE ROOSTS IN THE TEXAS PANHANDLE	P17
COMMUNITY COMPOSITION AND POST-DEPARTURE DEGRADATION PATTERNS OF AIRBORNE EDNA SHED BY MIGRATORY BATS IN A CAVE ECOSYSTEM	P18
CHARACTERIZING THE MAMMAL-PARASITE ASSEMBLAGE OF GOBLIN VALLEY STATE PARK, UTAH, USA: A NOVEL BASELINE INVENTORY	P19
DIVERSITY AND SPECIES TURNOVER OF FLIGHTLESS MAMMALS IN AN AGRICULTURAL LANDSCAPE OF THE MEXICAN ALTIPLANO	P20
PHYLOGEOGRAPHIC VARIATION AND DEMOGRAPHIC HISTORY OF <i>SIGMODON HISPIDUS</i> REVEAL INSIGHTS INTO EXPANDING POPULATIONS	P21
ANALYSIS OF HUMAN-ANIMAL CONFLICT IN HIDALGO DURING 2024: <i>DESMODUS ROTUNDUS</i> AS RABIES VECTOR CASE	P22
NUTLET SCULPTURING IN THE <i>TEUCRIUM CUBENSE</i> (LAMIACEAE) COMPLEX	P23
ANALYSIS OF VEGETATION INDICES FROM SATELLITE IMAGERY AND THEIR RELATIONSHIP WITH THE PRESENCE OF PINE COOPERI BARK BEETLES IN EL SALTO, PUEBLO NUEVO, DURANGO.	P24
BROADEN YOUR IMPACT WITH ASOMBRO INSTITUTE FOR SCIENCE EDUCATION	P25
EFFECTS OF CHANNEL STRUCTURE AND SUSPENDED SEDIMENTS IN LIGHT PENETRATION IN THE RIO GRANDE	P26

Saturday, 26 April 2025 (continued)

3:00 – 5:00 pm Poster Session/Clark Hubbs Poster Award Judging - Poster Hall

ANATOMICAL CHARACTERISTICS, PHYSICAL-MECHANICAL, AND CHEMICAL PROPERTIES OF THE WOOD OF <i>Quercus scythophylla</i> AND <i>Quercus convallata</i> IN THE EJIDO PUEBLO NUEVO, DURANGO.	P27
INVESTIGATING FLORAL DIVERSITY, MANAGEMENT, AND FUNCTIONAL RELATIONSHIPS TO INFORM CONSERVATION OF INGLESIDE SANDSHEET POND HABITAT	P28
A NOVEL METHODOLOGY FOR WEIGHTED AVERAGING OF FOREST CANOPY COVERGE MEASUREMENTS MADE USING A MIRROR CANOPY Densiometer	P29
BABY GOT BITE: STRIKE KINEMATICS OF THE DUROPHAGUS NORTHERN GIANT MUSK TURTLE (<i>STAUROTYPUS TRIPORCATUS</i>)	P30
POST-ORBITAL SPOT COLOR CHARACTERIZATION OF THE NAZAS SLIDER (<i>TRACHEMYS GAIGAEAE</i>)	P31
ALLIGATOR SNAPPING TURTLE DISTRIBUTION SURVEYS IN OKLAHOMA	P32
SUBMERGENCE BEHAVIOR IN JUNE BY FEMALE ORNATE BOX TURTLES (<i>TERRAPENE ORNATA</i>) FROM SOUTHERN KANSAS	P33
COUNTY-LEVEL DISTRIBUTION MAPS FOR THE REPTILES AND AMPHIBIANS OF OKLAHOMA	P34
LANDSCAPE CHARACTERIZATION OF <i>TRACHEMYS GAIGAEAE</i> IN THE NAZAS RIVER, MEXICO	P35
GENETIC DIVERSITY OF <i>TRACHEMYS GAIGAEAE</i> IN EL PALMITO DAM, DURANGO, MEXICO	P36
ONTOGENY OF PREY-DERIVED CHEMICAL CUES IN COTTONMOUTHS	P37
DEWLAP COLOR VARIATION AND MALE VISUAL GRASP RESPONSE ACROSS POPULATIONS IN A NEOTROPICAL LIZARD	P38
5:00p -6:00p	STUDENT SOCIAL- Sandia Ballroom I-IV
6:00p -11:00p	SWAN 2025 BANQUET AND AWARDS - Sandia Ballroom I-IV

Sunday, 27 April 2025

9:30a - 1:00p	Field Trip Sandia Park Tramway - Meet in Embassy Suites Hotel Lobby at 9:30 AM
---------------	--