

84th American Society of Mammalogists Annual Meeting Program of Events

Friday, June 11

2:00 PM - 11:00 PM **Early Housing Check In:** Jolly Giant Commons 1st Floor
 7:00 PM - 11:00 PM **Board of Directors Dinner:** View Room, Plaza Grill Restaurant

Saturday, June 12

8:00 AM - 11:00 PM **Housing Check In:** Jolly Giant Commons 1st Floor
 8:00 AM - 11:00 PM **Registration/Check In:** University Center, Karshner Lounge
 8:30 AM - 9:00 AM **Board of Directors Continental Breakfast:** Nelson Hall East, Room 106
 9:00 AM - 5:00 PM **Board of Directors Meeting:** Nelson Hall East, Goodwin Forum
 7:00 PM - 10:00 PM **Welcome Social:** University Center, Kate Buchanan Room

Sunday, June 13

7:00 AM - 8:30 AM **Breakfast:** Jolly Giant Cafeteria
 8:00 AM - 11:00 PM **Housing Check In:** Jolly Giant Commons 1st Floor
 8:00 AM - 11:00 PM **Registration/Check In:** University Center, Karshner Lounge

8:00 AM - 10:15 AM **Plenary Session 1: Van Duzer Theater**

Welcome.

Anna M. Jackson Awardee.

8:30 AM. 1. TWO NEW SPECIES OF POCKET GOPHERS (*CRATOGEOMYS*) IN MEXICO. Jessica E. Light. Louisiana State University, Department of Biological Sciences and Museum of Natural Science, Baton Rouge, LA, USA.

A. Brazier Howell Awardee.

8:45 AM. 2. NATAL PHILOPATRY, DISPERSAL, AND IMMIGRATION WITHIN *CTENODACTYLUS GUNDI* SOCIAL GROUPS: CONTEMPORARY PATTERNS OF GENE FLOW. Karen J. Nutt^{1,2}. ¹Museum of Vertebrate Zoology, Department of Integrative Biology, University of California at Berkeley, Berkeley, CA, USA; ²Large Animal Research Group and Molecular Ecology Group, Department of Zoology, University of Cambridge, Cambridge, UK.

Elmer C. Birney Awardee.

9:00 AM. 3. SURVIVING THE ICE: NORTHERN REFUGIA AND POST-GLACIAL COLONIZATION. Kevin C. Rowe. Department of Animal Biology, University of Illinois, Urbana, Illinois.

2003 Shadle Fellowship Winner.

9:15 AM. 4. DO MOLECULES MATCH MORPHOLOGY? CRYPTIC LINEAGES AND POPULATION DIFFERENTIATION IN THE NORTH AMERICAN LONG-EARED BATS (GENUS *CORYNORHINUS*). Antoinette J. Piaggio. University of Colorado Boulder, Ecology and Evolutionary Biology, Boulder, CO, USA.

2003 ASM Fellowship Awardee.

9:45 AM. 5. FAMILY MATTERS: THE IMPORTANCE OF FAMILIARITY FOR TRANSLOCATION SUCCESS IN BLACK-TAILED PRAIRIE DOGS. Debra M. Shier. University of California, Davis, One Shields Avenue, Davis, CA, USA.

10:15 AM - 10:30 AM **Break/Refreshments/Vendors:** University Center, Karshner Lounge

10:30 AM - 12:00 PM

Concurrent Technical Session 1

Marine Mammals 1
Session Chair: Dawn Goley
University Center
Kate Buchanan Room

10:30 AM. 6. WHALES AS ISLANDS: BIOGEOGRAPHY OF THE EPIBIOTIC FAUNA OF GRAY WHALES. Christopher M. Callahan¹, Brian S. Arbogast¹, P. Dawn Goley¹ and J. W. Demastes². ¹Dept. of Biological Sciences, Humboldt State University, Arcata, CA; ²Dept. of Biology, University of Northern Iowa, Cedar Falls, IA.

10:45 AM. 7. ANNUAL AND SEASONAL VARIATION IN PACIFIC HARBOR SEAL (*PHOCA VITULINA*) ABUNDANCE IN NORTHERN CALIFORNIA. Cynthia Christman¹, Dawn Goley¹, Andrea Gemmer², Sonya Schuh³, Misty Niemeyer¹, Amber Rushton¹ and Kim Bigham¹. ¹Marine Mammal Education and Research Program, Humboldt State University, Arcata, CA; ²Seattle, WA; ³Biology Department, University of Washington, WA.

11:00 AM. 8. ECOLOGICAL AND PHYSIOLOGICAL IMPLICATIONS OF FORAGING BEHAVIOR: BENTHIC VS MIDWATER FORAGING IN DIVING MAMMALS. Daniel P. Costa. Dept Ecology and Evolutionary Biology, University of California, Santa Cruz, Santa Cruz, CA.

11:15 AM. 9. THE STATUS OF GRAY WHALES IN THE FEEDING GROUNDS OFF NORTHERN CALIFORNIA AND OREGON. D. Goley¹, J. Calambokidis², R. Jenkinson³, M. Niemeyer¹, A. Mallo¹, K. Bigham¹ and S. Deutsch¹. ¹Humboldt State University, Marine Mammal Education and Research Program, Arcata, CA; ²Cascadia Research, Olympia, WA; ³Santa Barbara City College, Santa Barbara, CA.

11:30 AM. 10. CALIFORNIA SEA LION FORAGING ECOLOGY: HABITAT UTILIZATION, DIVING BEHAVIOR AND FORAGING SUCCESS. Carey Kuhn¹, David Auriolles-Gamboa² and Daniel P. Costa¹. ¹Department of Ecology and Evolutionary Biology, University of California, Santa Cruz, Santa Cruz, CA; ²Departamento de Pesquerias y Biología Marina, CICIMAR-IPN, La Paz, B.C.S., Mexico.

11:45 AM. 11. COMPARISON OF THE DIVING PHYSIOLOGY OF ADULT FEMALE CALIFORNIA SEA LIONS IN CALIFORNIA AND MEXICO. Michael J. Weise¹, Daniel P. Costa¹ and David Auriolles-Gamboa². ¹University of California Santa Cruz, Department of Ecology and Evolutionary Biology, Center for Ocean Health, Santa Cruz, CA; ²Departamento de Pesquerias y Biología Marina, Centro Interdisciplinario de Ciencias Marinas, La Paz, Baja California Sur, Mexico.

Behavior 1
Session Chair: Eileen Lacey
Nelson Hall East
Goodwin Forum

10:30 AM. 12. BEHAVIOURAL TRAIT ASSESSMENT AS A RELEASE CRITERION FOR REINTRODUCTION OF CAPTIVE-BRED SWIFT FOX (*VULPES VELOX*). Samantha Bremner-Harrison^{1,2}, Robert Elwood¹ and Paulo Prodohl¹. ¹School of Biology & Biochemistry, The Queen's University of Belfast, 97 Lisburn Road, Belfast, UK; ²CSUS Endangered Species Recovery Program, Bakersfield, CA, USA.

10:45 AM. 13. ROAD CROSSING BEHAVIOR IN SMALL NOCTURNAL AND DIURNAL MAMMALS. Adrian S. Chesh and Kelly Losito. Biology Department, Albright College, Reading, PA.

11:00 AM. 14. CONE CACHING STRATEGY AND ITS IMPACT ON THE MT. GRAHAM RED SQUIRREL POPULATION. Sarah R.B. King, John L. Koprowski and Sadie R. Bertelsen. School of Renewable Natural Resources, The University of Arizona, Tucson, AZ, USA.

11:15 AM. 15. SPACE USE AND SOCIAL ORGANIZATION OF ENDANGERED MT. GRAHAM RED SQUIRRELS: IT'S LONELY AT THE TOP. John L. Koprowski and Sarah R. King. Wildlife and Fisheries Science, School of Natural Resources, University of Arizona, Tucson, AZ, USA.

11:30 AM. 16. TESTING THE HABITAT SATURATION MODEL: EFFECTS OF POPULATION DENSITY ON SOCIAL ORGANIZATION. Kirk Lin^{1,2}, Loren Hayes¹ and Nancy Solomon¹. ¹Dept. of Zoology, Miami University, Oxford, OH; ²Dept. of Biological Sciences, California State Univ., Sacramento, CA.

11:45 AM. 17. SEX DIFFERENCES IN SPACE USE OF CHIRICAHUA FOX SQUIRRELS. Bret S. Pasch and John L. Koprowski. The University of Arizona, School of Renewable Natural Resources, Department of Wildlife & Fisheries Science, Tucson, AZ, USA.

Community Ecology 1
Session Chair: Luke George
Van Duzer Theater

10:30 AM. 18. SMALL MAMMAL ECOLOGY AFTER EL NIÑO SOUTHERN OSCILLATION (ENSO) IN THE SELVA LACANDONA, CHIAPAS, MÉXICO. Alejandro Gómez-Nísino, Rodrigo A. Medellín and Heliot Zarza. Laboratorio de Ecología y Conservación de Vertebrados, Instituto de Ecología, Universidad Nacional Autónoma de México, México, D.F., México.

10:45 AM. 19. BAT SPECIES COEXISTENCE: WATER HOLES ACT AS CONFLUENCE OF SPECIES INTERACTIONS. Rick A. Adams. Department of Biological Sciences, University of Northern Colorado, Greeley, CO, USA.

11:00 AM. 20. A RE-SURVEY OF THE MAMMAL FAUNA OF YOSEMITE NATIONAL PARK: INITIAL OBSERVATIONS. Chris J. Conroy, James L. Patton, Hanna E. Shohfi, Dou-Shuan Yang and Robert Hijmans. Museum of Vertebrate Zoology, UC Berkeley, Berkeley, CA, USA.

11:15 AM. 21. DISPERSAL OF PONDEROSA PINE SEEDS BY SHADOW CHIPMUNKS IN A MANAGED FOREST. Craig M. Fiebler and T. Luke George. Department of Wildlife, Humboldt State University, Arcata, CA.

11:30 AM. 22. IS THERE INTRA-GUILD COMPETITION BETWEEN COYOTES AND RACCOONS? Stanley D. Gehrt¹ and Suzanne Prange^{1,2}. ¹School of Natural Resources, Ohio State University, Columbus, Ohio, USA; ²Max McGraw Wildlife Foundation, Dundee, Illinois, USA.

11:45 AM. 23. RESPONSE OF SMALL MAMMALS TO THINNING AND PRESCRIBED FIRE IN PINE FORESTS IN NORTHEASTERN CALIFORNIA. T. Luke George¹ and Steve Zack². ¹Department of Wildlife, Humboldt State University, Arcata, CA; ²Wildlife Conservation Society, Portland, OR.

11:45 AM - 1:30 PM **Lunch:** Jolly Giant Cafeteria

11:45 AM - 1:30 PM **Plenary Speaker's Luncheon:** Six Rivers Brewery

1:30 PM - 3:30 PM

Concurrent Technical Session 2

Sunday PM

Conservation 1
Session Chair: Brian Cypher
University Center
Kate Buchanan Room

1:30 PM. 24. DEVELOPMENT OF A MONITORING PROTOCOL FOR MESO-MAMMALS ON CAPE COD, MASSACHUSETTS. Allan F. O'Connell, Neil W. Talancy² and Andrew T. Gilbert³. ²University of Rhode Island, Department of Natural Resources Science, Kingston, Rhode Island, USA; ³USGS-Patuxent Wildlife Research Center, Augusta, Maine, USA.

1:45 PM. 25. PUBLIC OPINION TOWARDS THE SAN JOAQUIN KIT FOX POPULATION IN METRO BAKERSFIELD, CALIFORNIA. Curtis D. Bjurlin and Brian L. Cypher. Endangered Species Recovery Program, Bakersfield, Ca.

2:00 PM. 26. INTERACTIONS BETWEEN BODY WEIGHT, PARASITISM, AND STRESS OF *PEROMYSCUS LEUCOPUS* ON FLOODPLAIN AND DRY SITES. Timothy T. Brown and Claire A. Fuller. Department of Biology, Murray State University, Murray, KY, USA.

2:15 PM. 27. QUANTIFYING THE IMPACTS OF COYOTES AND SNOWMOBILES ON LYNX CONSERVATION IN UTAH AND THE WEST. Kevin D. Bunnell^{1,2}, Jerran T. Flinders², Michael L. Wolfe¹ and John A. Bissonette¹. ¹Department of Forest Range and Wildlife Sciences, Utah State University, Logan, Utah; ²Department of Integrative Biology, Brigham Young University, Provo, Utah.

2:30 PM. 28. SIERRAN CARNIVORE ASSEMBLAGES: DISTRIBUTION AND HABITAT ASSOCIATIONS OF SPECIES CO-OCCURRING WITH FISHERS (*MARTES PENNANTI*). Lori A. Campbell¹, Douglas A. Kelt² and William J. Zielinski³. ¹Pacific Southwest Research Station, USDA Forest Service, Davis, CA; ²Wildlife, Fish and Conservation Biology, University of California, Davis, Davis, CA, USA; ³Pacific Southwest Research Station, USDA Forest Service, Arcata, CA, USA.

2:45 PM. 29. INTERSPECIFIC COM-

PETITIVE INTERACTIONS BETWEEN ENDANGERED SAN JOAQUIN KIT FOXES AND NON-NATIVE RED FOXES. Howard Clark^{1,2}. ¹California State University, Stanislaus, Endangered Species Recovery Program, Stanislaus, CA; ²H. T. Harvey & Associates, Fresno, CA.

3:00 PM. 30. EFFECTS OF ROADS ON ENDANGERED SAN JOAQUIN KIT FOXES IN CENTRAL CALIFORNIA. Brian L. Cypher, Julia L. Nelson and Curtis D. Bjurlin. CSUS Endangered Species Recovery Program, Bakersfield, CA, USA.

3:15 PM. 31. LIVESTOCK PREDATION BY LIONS (*PANTHERA LEO*) AND OTHER CARNIVORES ON RANCHES NEIGHBORING THE TSAVO NATIONAL PARKS, KENYA. Bruce D. Patterson¹, Samuel M. Kasiki², Edwin Selempo³ and Roland W. Kays⁴. ¹Dept. Zoology, Field Museum of Natural History, Chicago, IL; ²Tsavo Research Centre, Tsavo East National Park, Voi, Kenya, CO; ³Taita Discovery Centre, Voi, Kenya, CO; ⁴New York State Museum, Albany, NY.

Systematics/Zoogeography 1
Session Chair: Link Olson
Nelson Hall East
Goodwin Forum

1:30 PM. 32. PHYLOGENETIC AND BIOGEOGRAPHIC RELATIONSHIPS OF THE MOUSE OPOSSUM *THYLAMYIA* (DIDELPHIDAE) IN SOUTHERN SOUTH AMERICA. Janet K. Braun¹, Ronald A. Van Den Bussche³, Michael A. Mares^{1,2} and Philip K. Morton³. ¹Sam Noble Oklahoma Museum of Natural History, University of Oklahoma, Norman, OK, USA; ²Department of Zoology and Collection of Vertebrates, Oklahoma State University, Stillwater, OK; ³Department of Zoology, University of Oklahoma, Norman, OK, USA.

1:45 PM. 33. *PEROMYSCUS* FROM SANTA CATALINA ISLAND, SEA OF CORTEZ, MEXICO: TAXONOMIC IDENTITIES AND BIOGEOGRAPHIC IMPLICATIONS. Michael D. Carleton¹ and Timothy E. Lawlor². ¹Division of

Mammals, National Museum of Natural History, Washington DC; ²Department of Biological Sciences, Humboldt State University, Arcata, CA.

2:00 PM. 34. PHYLOGEOGRAPHY OF THE DESERT POCKET MOUSE (*CHAETODIPUS PENICILLATUS*) WITH EMPHASIS ON THE CONSERVATION OF *C. P. SOBRINUS*. Zane L. Marshall, Brett R. Riddle and Jef Jaeger. Department of Biological Sciences, University of Nevada, Las Vegas, Las Vegas, NV, USA.

2:15 PM. 35. GEOGRAPHIC VARIATION IN TREESHREWS: MORE NEW INSIGHTS FROM OLD DATA. Link Olson^{1,2} and Eric Sargis³. ¹University of Alaska Museum & Institute of Arctic Biology, Fairbanks, AK, USA; ²Dept. Zoology, The Field Museum, Chicago, IL, USA; ³Dept. Anthropology, Yale University, New Haven, CT, USA.

2:45 PM. 37. POST-GLACIAL EXPANSION OF THE SOUTHERN RED-BACKED VOLE (*CLETHRIONOMYS GAPPERI*). Amy M. Runck¹ and Joseph A. Cook^{1,2}. ¹Department of Biological Sciences, Idaho State University, Pocatello, ID, USA; ²Biology Department and Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM, USA.

3:00 PM. 38. PHYLOGEOGRAPHY AND SYSTEMATICS OF SHORT-TAILED OPOSSUMS (*MONODELPHIS*: DIDELPHIDAE) ON THE EASTERN SLOPE OF THE ANDES. Sergio A. Solari. Department of Biological Sciences, Texas Tech University, Lubbock, TX.

3:15 PM. 39. A NEW SPECIES OF *CONGOSOREX* FROM THE EASTERN ARC MOUNTAINS, TANZANIA, WITH SIGNIFICANT BIOGEOGRAPHICAL IMPLICATIONS. William T. Stanley¹, Mary Anne Rogers¹ and Rainer Hutterer². ¹Department of Zoology, Field Museum, Chicago, Illinois, USA; ²Zoologisches Forschungsinstitut und Museum Alexander Koenig, Adenauerallee 160, Bonn, Germany.

1:30 AM - 3:30 PM

Concurrent Technical Session 2 Continued

Population Ecology 1
Session Chair: Ronald Barry
Van Duzer Theater

1:30 PM. 40. DOES MICROCLIMATE EXPLAIN PATTERNS OF VARIATION IN LIFE HISTORY TRAITS OF UINTA GROUND SQUIRRELS (*SPERMOPHILUS ARMATUS*)? Kim B. O'Keefe and Elizabeth A. Hadly. Department of Biological Sciences, Stanford University, Stanford, California.

1:45 PM. 41. EXTREME POPULATION FLUCTUATION OF THE NORTHERN PYGMY MOUSE (*BAIOMYS TAYLORI*) IN SOUTHEAST TEXAS. Alisa A. Abuzeineh and Nancy McIntyre. Department of Biological Sciences, Texas Tech University, Lubbock, TX, USA.

2:00 PM. 42. HYRAX PROJECT TURNS 12: WHAT HAVE WE LEARNED? Ronald E. Barry¹, Ngone Chiweshe² and Peter J. Mundy³. ¹Department of Biology, Frostburg State University, Frostburg, MD, USA; ²BirdLife Zimbabwe, Runiville, Harare, Zimbabwe;

³National University of Science and Technology, Ascot, Bulawayo, Zimbabwe.

2:15 PM. 43. SMALL MAMMAL RESPONSES TO FOOD SUPPLEMENTATION AT CHAPARRAL EDGE. Jennifer M. Duggan and James E. Duffendorfer. San Diego State University, 5500 Campanile Drive, San Diego, CA, USA.

2:30 PM. 44. SPATIAL DISTRIBUTION OF MATERNAL HAPLOTYPES OF *NEOTOMA MICROPUS*: A GIS PERSPECTIVE. Nevin D. Durish, Francisca Mendez-Harclerode, Charles Fulhorst and Robert D. Bradley. Texas Tech University, Lubbock, TX.

2:45 PM. 45. MOUNTAIN LION HABITAT USE RELATIVE TO HUMAN ACTIVITIES IN THE REDWOOD CREEK BASIN OF NORTHWEST CALIFORNIA. Cara W. Meinke¹, Richard T. Golightly¹, Howard B. Quigley², Jennifer Ellingson³ and Terry Hofstra⁴. ¹Wildlife Dept., Humboldt State University, Arcata, CA; ²Beringia South, Kelly, WY; ³University of Idaho, Moscow, ID; ⁴Redwood National and State Parks, Orick, CA.

3:00 PM. 46. RAPID CHANGES IN THE DISTRIBUTION OF *PEROMYSCUS* SPECIES IN NORTHERN MICHIGAN. Susan M.G. Hoffman¹, Philip Myers², Barbara L. Lundrigan³, Caitlin Bean¹, Sean Maher² and Katie K. Wright¹. ¹Department of Zoology, Miami University, Oxford, Ohio, USA; ²Museum of Zoology, and Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, Michigan, USA; ³Michigan State University Museum, and Department of Zoology, Michigan State University, East Lansing, Michigan, USA.

3:15 PM. 47. MULTI-RESOLUTION ASSESSMENT OF STRIPED SKUNK DEN SITES SELECTION IN THE CANADIAN PRAIRIE PARKLAND REGION. Yeen Ten Hwang¹, Serge Larivière² and François Messier¹. ¹Department of Biology, University of Saskatchewan, 112 Science Place, Saskatoon, Saskatchewan, Canada; ²Federation des Trappeurs Gestionnaires du Québec, 1737 rue Champigny Est, Sainte-Foy, Québec, Canada.

3:30 PM - 3:45 PM

Break/Refreshments/Vendors: University Center, Karshner Lounge

3:45 PM - 5:45 PM

Concurrent Technical Session 3

Behavior 2
Session Chair: Dave Johnston
Nelson Hall East
Goodwin Forum

3:45 PM. 48. THE EFFECTS OF BOTFLY PARASITISM ON AGGRESSION IN WHITE-FOOTED MICE (*PEROMYSCUS LEUCOPUS*). Michael J. Cramer and Guy N. Cameron. University of Cincinnati, Department of Biological Sciences, Cincinnati, Ohio, USA.

4:00 PM. 49. ECOLOGICAL COMPARISON OF GRASSHOPPER MOUSE VOCALIZATIONS. Tommy G. Finley and Robert S. Sikes. University of Arkansas at Little Rock, Department of Biology, Little Rock, AR, USA.

4:15 PM. 50. BEHAVIORAL EVIDENCE AND PHYSICAL FINDS IN SUPPORT OF THE UNVERIFIED PRI-

MATE HYPOTHESIS FOR THE SASQUATCH. J. Richard Greenwell¹ and Angelo P. Capparella². ¹Department of Zoological Collections, International Wildlife Museum, Tucson, Arizona, U.S.A. ²Department of Biological Sciences, Illinois State University, Normal, Illinois, U.S.A.

4:30 PM. 51. MECHANISMS OF MATERNAL INVESTMENT BY COMMUNAL PRAIRIE VOLES (*MICROTUS OCHROGASTER*). Loren D. Hayes and Nancy G. Solomon. Department of Zoology, Miami University, Oxford, Ohio, USA.

4:45 PM. 52. THE EFFECT OF WEATHER ON DEER MOUSE ACTIVITY IN ENCLOSURES AND IN THE WILD. Emily J. Herdman and John S. Millar. Department of Biology, The University of Western Ontario, London, Ontario, Canada.

5:00 PM. 53. EFFECT OF MICROHABITAT ON THE FORAGING BEHAVIOR OF COTTON MICE. Travis Hinkelman¹, John L. Orrock² and Susan C. Loeb³. ¹SC Cooperative Fish and Wildlife Research Unit, Clemson University, Clemson, SC; ²Ecology and Evolutionary Biology Interdepartmental Program, Iowa State University, Ames, Iowa; ³Southern Research Station, USDA Forest Service, Clemson, SC.

5:15 PM. 54. DIFFERENCES IN FORAGING BEHAVIOR IN THE PALLID BAT (*ANTROZOUS PALLIDUS*). Dave S. Johnston^{1,2}. ¹San Jose, CA, USA; ²Biology Department, Santa Clara University, Santa Clara, CA, USA.

5:30 PM. 55. FEMALE PREFERENCES FOR UNRELATED INBRED VERSUS NON-INBRED MALE PRAIRIE VOLES, *MICROTUS OCHROGASTER*. Brian Keane¹, Mark D. Spritzer² and

3:45 PM - 5:45 PM

Concurrent Technical Session 3 Continued

Kimberly R. Saunders². ¹Miami University-Hamilton, Hamilton, Ohio; ²Miami University, Oxford, Ohio.

Community Ecology 2
Session Chair: Kathleen Lyons
Van Duzer Theater

3:45 PM. 56. DUSKY-FOOTED WOODRAT HABITAT ASSOCIATIONS IN MANAGED DOUGLAS-FIR/HARDWOOD FORESTS OF NORTHERN CALIFORNIA. Kevin D. Hughes. Montana Tech, Department of Biology, Butte, MT, USA.

4:00 PM. 57. COMMUNITY CHARACTERISTICS OF TERRESTRIAL VERTEBRATES IN THE ASPEN PARKLAND-MIXED GRASS PRAIRIE HABITAT COMPLEX AT J. CLARK SALYER NATIONAL WILDLIFE REFUGE, NORTH DAKOTA. Neil J. Kadmas and Rick A. Sweitzer. University of North Dakota, Department of Biology, Grand Forks, North Dakota, USA.

4:15 PM. 58. SCALE AND INTERACTIONS IN PREDICTIVE DISTRIBUTION MODELS FOR THE ADIRONDACK CARNIVORE COMMUNITY. Roland W. Kays¹, Justina C. Ray² and Matthew E. Gompper³. ¹New York State Museum, Albany, NY; ²Wildlife Conservation Society, Toronto, ON, Canada M5S 3B3; ³University of Missouri, Dept. Fisheries and Wildlife Sciences, Columbia, MO.

4:30 PM. 59. RELATIONSHIPS BETWEEN TOPOGRAPHY, VEGETATION AND SMALL MAMMALS IN PALO DURO CANYON. Greg T. Lewellen, Raymond S. Matlack, Karah L. Gallagher, Rachel A. Spruance and Daniel P. Walker. Department of Life, Earth and Environmental Sciences, West Texas A&M University, Canyon, TX, US.

4:45 PM. 60. COMMUNITY RESPONSE TO URBANIZATION: SMALL MAMMALS IN PACIFIC NORTHWEST FORESTS. Nathaniel I. Lichti, Michael T. Murphy, David C. Bailey and Laura Roberts. Department of Bi-

ology, Portland State University, Portland, Oregon, USA.

5:00 PM. 61. ECTOPARASITES OF A NORTH CENTRAL MISSOURI BAT COMMUNITY. Peggy Luensmann. Truman State University, Department of Biology, Kirksville, MO.

5:15 PM. 62. WAS A "HYPERDISEASE" RESPONSIBLE FOR THE LATE PLEISTOCENE MEGAFUNAL EXTINCTION? Kathleen Lyons¹, Felisa A. Smith², Ethan P. White² and James H. Brown². ¹735 State St. Suite 300, National Center for Ecological Analysis and Synthesis, University of California - Santa Barbara, Santa Barbara, CA; ²Department of Biology, University of New Mexico, Albuquerque, NM.

5:30 PM. 63. SMALL MAMMAL ABUNDANCE IN PONDEROSA PINE FORESTS MANAGED FOR SIMPLE AND COMPLEX STRUCTURAL DIVERSITY. Chris C. Maguire, Doug A. Maguire and Tom Manning. Department of Forest Science, Oregon State University, Corvallis, OR.

Genetics/Evolution 1
Session Chair: Hopi Hoekstra
University Center
Kate Buchanan Room

3:45 PM. 64. THE EVOLUTION OF MAMMALIAN BODY SIZE ON SANTA CRUZ ISLAND, CALIFORNIA. Victoria J. Bakker¹, Dirk H. Van Vuren¹, David K. Garcelon², Erik T. Aschehoug³, Kevin R. Crooks⁴ and Rosie Woodroffe¹. ¹University of California, Davis, CA; ²Institute for Wildlife Studies, Arcata, CA; ³The Nature Conservancy, Ventura, CA; ⁴Colorado State University, Fort Collins, CO.

4:00 PM. 65. EVOLUTION WITHIN THE BARE-BACKED FRUIT BATS, *DOBSONIA* (PTEROPODIDAE). Deanna G. Byrnes. University of Wisconsin - Madison, Madison, Wisconsin, USA.

4:15 PM. 66. PHYLOGEOGRAPHY OF ERMINE (*MUSTELA ERMINEA*) AND MINK (*MUSTELA VISON*) OF THE AL-

EXANDER ARCHIPELAGO OF SOUTHEAST ALASKA. Natalie G. Dawson, Melissa A. Fleming and Joseph A. Cook. Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM.

4:30 PM. 67. PHYLOGEOGRAPHY AND SYSTEMATICS OF KANGAROO MICE, *MICRODIPODOPS MEGACEPHALUS*, FROM THE MONO BASIN. John C. Hafner¹, Emily Reddington¹, Matthew T. Craig² and Jens P.C. Franck³. ¹Moore Laboratory of Zoology and Department of Biology, Occidental College, Los Angeles, California; ²Scripps Institution of Oceanography, University of California, San Diego, La Jolla, California; ³Department of Biology, Occidental College, Los Angeles, California.

4:45 PM. 68. THE GENETIC BASIS OF COMPLEX COLOR ADAPTATION IN ISLAND POPULATIONS OF *PEROMYSCUS*. Hopi E. Hoekstra, Catherine Yamada and Rachel J. Hirschmann. Ecology, Behavior and Evolution Section, Division of Biological Sciences, University of California at San Diego, La Jolla, CA, USA.

5:00 PM. 69. HARMONIC-HOPPING DRIVES DIVERGENCE IN WALLACEA'S BATS. Tigga Kingston¹ and Stephen J. Rossiter². ¹Boston University, Boston, MA, USA; ²Queen Mary University of London, School of Biological Sciences, London, London, UK.

5:15 PM. 70. DOES HABITAT HETEROGENEITY RESTRICT GENE FLOW? FINE SCALE GENETIC STRUCTURE IN THE PACIFIC JUMPING MOUSE (*ZAPUS TRINOTATUS*). Sacha N. Vignieri^{1,2} and G. J. Kenagy^{1,2}. ¹Department of Biology, University of Washington, Seattle, WA, USA; ²Burke Museum, University of Washington, Seattle, WA.

5:30 PM. 71. GENETIC STRUCTURE AND GENE FLOW IN THE CAROLINA NORTHERN FLYING SQUIRREL (*GLAUCOMYS SABRINUS COLORATUS*). Arlena M. Wartell. Institute of Ecology, University of Georgia, Athens, GA, USA.

5:30 PM - 7:00 PM

Dinner: Jolly Giant Cafeteria

7:00 PM - 8:30 PM

Poster Session 1: University Center, The Depot

- 309. TAXONOMIC STATUS OF THE GENUS *STURNIRA* (CHIROPTERA: PHYLLOSTOMIDAE) IN VENEZUELA.** Cornelio Sánchez-Hernández¹, M. Lourdes Romero-Almaraz² and José Antonio Guerrero-Enríquez³. ¹Universidad Nacional Autónoma de México, A. P. 70-153, México; ²Escuinapa No. 92 bis. Col. Pedregal de Santo Domingo, C. P. 04360, México, D. F.³Facultad de Ciencias Biológicas, Universidad Autónoma del Estado de Morelos, Av. Universidad 1001, Col. Chamilpa, Cuernavaca, Morelos.
- 72. DOES HABITAT FRAGMENTATION ALTER SPACE USE PATTERNS IN DEER MICE (*PEROMYSCUS MANICULATUS*)?** Sarah Webster and Erika L. Barthelme. Biology Department, St. Lawrence University, Canton, NY, USA.
- 73. BEHAVIOR AND HABITAT USE IN BIGHORN SHEEP: DOES PERCEIVED PREDATION RISK REFLECT ACTUAL RISK?** Regan Berkley and Janet L. Rachlow. University of Idaho, Department of Fish and Wildlife Resources, Moscow, ID, USA.
- 74. ECOLOGICAL AND EVOLUTIONARY CONTEXT OF MAMMALIAN RESISTANCE TO SNAKE VENOMS.** James Biardi. PROF Postdoctoral Program, UC Davis/San Francisco State University, Davis, CA, USA.
- 75. LONG-TERM SPATIAL DYNAMICS OF AN ASSEMBLAGE OF GRASSLAND RODENTS.** Matthew J. Brady¹ and Norman A. Slade². ¹Division of Natural Sciences and Mathematics, Lewis-Clark State College, Lewiston, ID; ²Natural History Museum and Biodiversity Research Center, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS.
- 76. HABITAT ASSOCIATIONS OF SOUTHERN CALIFORNIA RODENTS BEFORE, DURING, AND AFTER AN ENSO EVENT.** Jessica D. Braswell¹ and Douglas A. Kelt². ¹San Diego State University, Department of Biology, 5500 Campanile Dr, San Diego, CA; ²University of California, Department of Wildlife, Fish, and Conservation Biology, One Shields Ave, Davis, CA.
- 77. A STUDY OF RARE AND ENDANGERED MAMMALS IN NORTHWEST INDIANA - PRELIMINARY RESULTS.** Heather S. Brookhart. Department of Life Sciences, Indiana State University, Terre Haute, IN, USA.
- 78. THE EFFECTS OF WHITE-TAILED DEER EXCLUSION ON WHITE-FOOTED MOUSE POPULATIONS IN TWO FOREST HABITATS.** David H. Byman. Penn State Worthington Scranton, Dunmore, Pennsylvania, U.S.A.
- 79. MAMMAL SPECIES DIVERSITY AND ABUNDANCE AT THE URBAN-FOREST INTERFACE IN THE LAKE TAHOE BASIN.** Patricia N. Manley¹, Lori A. Campbell¹, Susan Meredith² and Dennis D. Murphy³. ¹Pacific Southwest Research Station, USDA Forest Service, Davis, CA, USA; ²Department of Ecology, Evolution, and Conservation Biology, University of Nevada-Reno, Reno, NV, USA; ³Department of Biology, University of Nevada-Reno, Reno, NV.
- 80. TRACING OF BOTTLENECK: COMPARATIVE PHYLOCHRONOLOGY OF *C. SOCIABILIS* AND *C. HAIGI* THROUGH 8000 YEARS.** Yvonne L. Chan¹, Uma Ramakrishnan¹, Oliver P. Pearson² and Elizabeth A. Hadly¹. ¹Department of Biological Sciences, Stanford University, Stanford, CA; ²(deceased) Museum of Vertebrate Zoology, Integrative Biology, University of California, Berkeley, CA.
- 81. EFFECTS OF FOREST REGENERATION ON SMALL MAMMAL COMMUNITIES IN WESTERN MARYLAND.** Laura N. Cincotti and Ronald E. Barry. Department of Biology, Frostburg State University, Frostburg, Maryland, USA.
- 82. COYOTE AND DIURNAL RAPTOR PRESENCE IN RELATION TO MILITARY TRAINING AND SMALL MAMMAL ABUNDANCE.** Philip S. Gipson, Jonathan M. Conard and Jeremy A. Baumgardt. Kansas Cooperative Fish and Wildlife Research Unit, Kansas State University, Manhattan, Kansas, USA.
- 83. HABITAT SELECTION BY SMALL MAMMALS IN THE NORTHERN SIERRA NEVADA, CALIFORNIA.** Stephanie A. Coppeto¹, Douglas A. Kelt¹, James A. Wilson¹, Dirk H. Van Vuren¹ and Michael Johnson². ¹Dept. of Wildlife, Fish and Conservation Biology, U.C. Davis, Davis, CA, USA; ²John Muir Institute for the Environment, U.C. Davis, Davis, CA, USA.
- 84. INTESTINAL PARASITES OF SWIFT FOX (*VULPES VELOX*) IN WESTERN OKLAHOMA.** Marc A. Criffield¹, Mason V. Reichard², Kimberly Freel¹, Eric C. Hellgren¹ and David M. Leslie Jr.³. ¹Department of Zoology, Oklahoma State University, Stillwater, Oklahoma, USA; ²Physiological Sciences, College of Veterinary Medicine, Oklahoma State University, Stillwater, Oklahoma, USA; ³Oklahoma Cooperative Fish and Wildlife Research Unit, Oklahoma State University, Stillwater, Oklahoma, USA.
- 85. PATERNITY IN COMMUNALLY NESTING GROUPS OF PRAIRIE VOLES, *MICROTUS OCHROGASTER*.** Charety R. Crowe¹, Kirk Y. Lin¹, Loren D. Hayes¹, Brian Keane² and Nancy G. Solomon¹. ¹Department of Zoology, Miami University, Oxford, Ohio, USA; ²Miami University- Hamilton, Hamilton, Ohio.
- 86. SPERM AGGREGATION IN *PEROMYSCUS* SPECIES: A MATTER OF COOPERATION?** Nicole Garrett and Michael J. Dewey. Peromyscus Genetic Stock Center, Dept Biol Sci, U of So Carolina, Columbia, SC, USA.
- 88. MESOCARNIVORE ABUNDANCE IN OAK FOREST PATCHES: A COMPARISON OF SCENT STATION AND LIVE-TRAPPING TECHNIQUES.** Michael R. Disney¹, Eric C. Hellgren¹, Craig A. Davis¹ and David M. Leslie Jr.². ¹Department of Zoology, Oklahoma State University, Stillwater, Oklahoma, USA; ²Oklahoma Cooperative Fish and Wildlife Research Unit, Oklahoma State University, Department of Zoology, Stillwater, Oklahoma, USA.

7:00 PM - 8:30 PM

Poster Session 1 Continued

Sunday PM

89. SURVEYS OF THE MAMMALS OF NATIONAL PARKS IN COASTAL REGIONS OF MARYLAND AND VIRGINIA. Tressa L. Dolbeare, Heather P. Warchalowski, Dana T. Strang and Ronald E. Barry. Frostburg State University, Department of Biology, Frostburg, MD, USA.

90. USING MICROSATELLITE DNA TO DETERMINE THE MATING SYSTEM OF WOODCHUCKS (*MARMOTA MONAX*). Melissa Duron, Christine R. Maher and Mandi Greenleaf. Department of Biological Sciences, University of Southern Maine, Portland, Maine.

91. COMMUNAL NESTING AND KINSHIP AMONG DEGUS (*OCTODON DEGUS*). María José Hurtado¹, Mauricio Soto-Gamboa^{1,2}, Eileen A. Lacey³, Ann T. Chang³ and Luis A. Ebensperger^{1,2}. ¹P. Universidad Católica de Chile, Departamento de Ecología, Casilla 114-D, Santiago, RM, Chile; ²Centro de Estudios Avanzados en Ecología & Biodiversidad, Casilla 114-D, Santiago, RM, Chile; ³University of California, Department of Integrative Biology, Museum of Vertebrate Zoology, Berkeley, California, USA.

92. COSTS AND BENEFITS OF COMMUNAL NESTING TO FEMALE DEGUS (*OCTODON DEGUS*). María José Hurtado² and Luis A. Ebensperger^{1,2}. ²Pontificia Universidad Católica de Chile, Departamento de Ecología, Casilla 114-D, Santiago, RM, Chile; ¹Centro de Estudios Avanzados en Ecología and Biodiversidad, Santiago, RM, Chile.

93. COMPARISON OF CAPTURE SUCCESS BETWEEN SHERMAN FOLDING TRAPS AND MUSEUM SPECIAL SNAP TRAPS. Kevin G. Eulinger and Scott Burt. Truman State University, Kirksville, MO.

94. LOCOMOTOR PERFORMANCE AND COST OF TRANSPORT IN THE SQUIRREL GLIDER AND SUGAR GLIDER. Elizabeth A. Flaherty¹, John S. Scheibe² and Ross Goldingay³. ¹Dept. of Zoology and Physiology, University of Wyoming, Laramie, WY, USA; ²Dept. of Biology, Southeast Missouri State University, Cape Girardeau, MO, USA; ³Dept. of Environmental Studies and Management, Southern Cross University, Lismore, NSW, Australia.

95. INTRODUCTION OF A LOW-COST REMOTE WILDLIFE CAMERA AND NOVEL TECHNIQUES FOR OPERATION. Mourad W. Gabriel and Greta M. Wengert. MGW Biological Surveys, Bayside, CA, USA.

96. AGE SPECIFIC TIME BUDGETS OF THE ENDANGERED MOUNT GRAHAM RED SQUIRREL. Vicki L. Greer and John L. Koprowski. University of Arizona - School of Renewable Natural Resources, Tucson, Arizona, USA.

97. HOME RANGE AND HABITAT USE OF A TRANSLOCATED POPULATION OF RIPARIAN BRUSH RABBITS. Laurissa P. Hamilton^{1,2}, Daniel F. Williams¹, Patrick A. Kelly¹ and Douglas A. Kelt². ¹Endangered Species Recovery Program, California State University–Stanislaus, Fresno, CA, USA; ²Department of Wildlife, Fish, & Conservation Biology, University of California, Davis, Davis, CA, USA.

98. RELATIVE CAPTURE EFFICIENCY OF STANDARD AND LONG SHERMAN LIVE TRAPS. Dana H. Hogan¹, Jennifer M. Duggan¹, Cheryl Brehme² and James E. Diffendorfer¹. ¹SDSU Department of Biology, San Diego, CA, USA; ²U. S. Geological Survey Western Ecological Research Center, San Diego, CA, USA.

99. EFFECTS OF PRIOR LIVE TRAP OCCUPANCY ON SUBSEQUENT CAPTURE OF MEADOW VOLES. Joe Jacquot and Jessica Dutzy. Biology Dept., Grand Valley State University, Allendale, MI.

100. LONG TERM EFFECTS OF BOTFLY PARASITISM ON *PEROMYSCUS MANICULATUS*, *P. LEUCOPUS*, AND *TAMIAS STRIATUS*. Glory J. Jaffe¹, David A. Zegers¹, Michael A. Steele² and Joseph F. Merritt³. ¹Department of Biology, Millersville University, Millersville, PA; ²Department of Biology, Wilkes University, Wilkes-Barre, PA; ³Powdermill Biological Station, Carnegie Museum of Natural History, Rector, PA.

101. LONG-TERM STUDIES OF SMALL MAMMALS: PATTERNS AND POSSIBLE CAUSES. Donald W. Kaufman, Dawn M. Kaufman and Glennis A. Kaufman. Division of Biology, Kansas State University, Manhattan, Kansas, USA.

102. HABITAT USE AND SPATIAL DYNAMICS OF TAKHI INTRODUCED TO HUSTAI NATIONAL PARK, MONGOLIA. Sarah R.B. King¹ and John Gurnell². ¹Mount Graham Biology Programs, University of Arizona, School of Renewable Natural Resources, Biosciences East, Tucson, AZ, USA; ²Queen Mary, University of London, School of Biological Sciences, London, UK.

103. RECONSIDERING THE CHARACTERISTICS OF OPTIMAL HABITAT FOR THE ENDANGERED RIPARIAN BRUSH RABBIT. Matthew R. Lloyd, Daniel F. Williams and Patrick A. Kelly. Endangered Species Recovery Program, California State University, Stanislaus, Turlock, CA, USA.

104. EFFECTS OF SITE FAMILIARITY ON MOVEMENT PATTERNS OF BRUSH MICE (*PEROMYSCUS BOYLII*). Karen E. Mabry¹ and Manuel Breuer². ¹Section of Evolution and Ecology, University of California, Davis, Davis, California, USA; ²Institut für Zoomorphologie, Zellbiologie und Parasitologie, Heinrich-Heine-Universität Düsseldorf, Düsseldorf, Germany, Germany.

7:00 PM - 8:30 PM

Poster Session 1 Continued

- 105. HETEROGENEITY ON TRAPPING WEBS: ASSESSMENTS OF EFFECT AND METHOD.** Thomas J. Maier¹, Jay B. Hestbeck², Richard M. DeGraaf¹ and John T. Finn³. ¹Northeastern Research Station, USDA Forest Service, Holdsworth NRC, University of Massachusetts, Amherst, MA; ²USGS Biological Resources Division, Northern Prairie Wildlife Research Ctr., Jamestown, ND; ³Dept. of Natural Resources Conservation, University of Massachusetts, Amherst, MA.
- 106. SMALL MAMMAL COMMUNITY STRUCTURE IN THE CLOUD FORESTS OF LA FRATERNIDAD BIOSPHERE RESERVE, GUATEMALA.** Nicté Ordonez^{1,2} and John O. Matson². ¹Centro de Estudios Conservacionistas, Universidad de San Carlos de Guatemala, Guatemala City, Guatemala; ²Department of Biological Sciences, San Jose State University, San Jose, California, USA.
- 107. SMALL MAMMAL COMMUNITIES FROM THREE HABITATS IN THE WARNER MOUNTAINS, MODOC COUNTY, CALIFORNIA.** Jesse West, Stephanie A. MacDonald, Jenna Patton, Devony Hebbert and John O. Matson. San Jose State University, Department of Biological Sciences, San Jose, CA, US.
- 108. SMALL MAMMAL DIVERSITY OF THE GAMBA COMPLEX, GABON.** Carrie J. O'Brien^{1,2}, William J. McShea¹, Michael D. Carleton³, Patrick Barriere⁴ and Sylvain Guimondou⁵. ¹Conservation and Research Center, National Zoo, Front Royal, VA, USA; ²Ecology Center, Utah State University, Logan, UT, USA; ³Department of Systematic Biology, Smithsonian Institution, Washington, D.C., USA; ⁴University of Rennes, Station Biologique, Paimpont, France, France; ⁵Direction de la Faune et de la Chasse, Libreville, Gabon, Gabon.
- 109. DEMOGRAPHICS OF SMALL MAMMAL POPULATIONS ON RETIRED AGRICULTURAL LANDS IN THE SAN JOAQUIN VALLEY, CALIFORNIA.** Steve R. Messer, Curtis E. Uptain, Patrick A. Kelly, Darren P. Newman, Adam C. Harpster and Patrick L. Morrison. California State University, Stanislaus, Endangered Species Recovery Program, Fresno, CA, USA.
- 110. BARKING SEQUENCES IN SAN JOAQUIN KIT FOXES (*VULPES MACROTIS MUTICA*).** James D. Murdoch¹, Katherine Ralls² and Brian L. Cypher³. ¹University of Denver, Denver, CO; ²Smithsonian's National Zoological Park, Washington, DC; ³Endangered Species Recovery Program, Bakersfield, CA.
- 111. POPULATION DECLINE OF ENDANGERED TIPTON KANGAROO RATS IN CENTRAL CALIFORNIA: RESULTS OF AN 11-YEAR STUDY.** Darren P. Newman, Curtis E. Uptain, Patrick A. Kelly and Daniel F. Williams. California State University, Stanislaus, Endangered Species Recovery Program, Fresno, California, USA.
- 112. THE INFLUENCE OF RODENT POPULATION DENSITIES ON FORAGING HABITS OF COASTAL COYOTES IN CENTRAL CALIFORNIA.** Richard M. Davis and M. Paloma Nieto. SRS Technologies, Lompoc, CA, USA.
- 113. DIET SELECTION BY GIANT PANDAS IN RELATION TO BAMBOO CHARACTERISTICS.** Heidi A. Bissell¹, Meghan Carr¹, Julie Sims², Jennifer L. Parsons³, Robert S. Sikes³, Brian J. Rude² and John R. Ouellette¹. ¹Memphis Zoological Society, Department of Research and Conservation, Memphis, TN; ²Department of Animal and Dairy Sciences, Mississippi State University, Mississippi State, MS; ³Department of Biology, University of Arkansas at Little Rock, Little Rock, AR.
- 114. MULTIVARIATE MORPHOLOGICAL APPROACHES TO THE ECOLOGICAL NICHE CONCEPT OF AN N-DIMENSIONAL HYPERVOLUME.** Lorelei E. Patrick and Luis A. Ruedas. Portland State University, Portland, OR, USA.
- 115. BAT COMMUNITY COMPOSITION IN SELECTIVELY LOGGED AND UNLOGGED FORESTS IN SOUTHEASTERN AMAZONIA, BRAZIL.** Sandra L. Peters¹, Jay R. Malcolm¹ and Barbara L. Zimmerman². ¹Faculty of Forestry, University of Toronto, Toronto, ON, Canada; ²Conservation International, Washington, D.C.
- 116. VARIATION IN MOVEMENT PATTERNS: IMPLICATIONS FOR ANALYSIS OF HABITAT SELECTION IN BIGHORN SHEEP.** Leona K. Svancara^{1,2}, Janet L. Rachlow² and E. F. Cassirer³. ¹Inventory and Monitoring Program, National Park Service, Moscow, Idaho, USA; ²Dept. of Fish and Wildlife Resources, University of Idaho, Moscow, Idaho, USA; ³Idaho Dept. of Fish and Game, Lewiston, Idaho, USA.
- 117. DETERMINANT FACTORS OF REPRODUCTIVE SUCCESS IN FEMALE VOLES, REVEALED BY A MICROSATELLITE DNA ANALYSIS.** Takashi Saitoh¹ and Yasuyuki Ishibashi². ¹Field Science Center, Hokkaido University, Sapporo, Hokkaido, Japan; ²Forestry & Forest Products Research Institute, Sapporo, Hokkaido, Japan.
- 118. INVENTORIES OF THE MAMMALS OF NATIONAL PARKS IN THE PIEDMONT (MID-ATLANTIC) REGION OF VIRGINIA.** Avinash M. Sareen, Janet M. Mulligan, Cheryl L. Tanner and Ronald E. Barry. Frostburg State University Biology Department, Frostburg, Maryland, USA.
- 119. ANNUAL ACTIVITY AND REPRODUCTIVE PATTERNS IN MEXICAN GROUND SQUIRRELS (*SPERMOPHILUS MEXICANUS*).** Lisa E. Schwanz. Department of Biology, University of New Mexico, Albuquerque, NM.
- 120. AVAILABILITY AND SELECTION OF BURROW SITES BY THE ALABAMA BEACH MOUSE (*PEROMYSCUS POLIOTUS AMMOBATES*).** Sandra I. Sneckenberger¹, William J. Lynn² and Michael C. Wooten³. ¹USFWS/ South Florida Eco

7:00 PM - 8:30 PM

Poster Session 1 Continued

logical Services Office, Vero Beach, FL; ²USFWS/ Panama City Ecological Services Office, Panama City, FL; ³Auburn University/ Department of Biological Sciences, 331 Funchess Hall, Auburn, Alabama.

121. ASSESSING THE INFLUENCE OF SMALL MAMMALS ON OAK REGENERATION: SEED DISPERSAL VS. SEED-LING ESTABLISHMENT. Michael A. Steele¹, Amy McEuen¹, John Carlson², Thomas Contreras^{1,3}, Peter D. Smallwood⁴ and William Terzaghi¹. ¹Department of Biology, Wilkes University, Wilkes-Barre, PA, USA; ²School of Forest Resources and the Huck Institute for Life Sciences, Pennsylvania State University, University Park, PA, USA; ³Department of Wildlife Ecology & Conservation, University of Florida, Gainesville, FLA, USA; ⁴Department of Biology, University of Richmond, Richmond, VA, USA.

122. GENETIC DIFFERENTIATION OF MARTENS (*MARTES AMERICANA*) IN OREGON AND CALIFORNIA — DOES THE HUMBOLDT MARTEN EXIST? Karen D. Stone¹, Keith M. Slauson² and William J. Zielinski². ¹Southern Oregon University, Department of Biology, Ashland, OR, USA; ²Pacific Southwest Research Station, US Forest Service, Redwood Sciences Lab, Arcata, CA, USA.

123. THE EFFECT OF INTERSTATE-5 AND ASSOCIATED NOISE POLLUTION ON CARNIVORE RICHNESS IN THE KLAMATH-SISKIYOU REGION. Sara Paroulek¹, Jennifer White¹, Karen Stone¹ and Jeff Stephens². ¹Southern Oregon University, Department of Biology, Ashland, OR, USA; ²Bureau of Land Management, Medford District, Medford, OR, USA.

124. SOUTHERN FLYING SQUIRREL (*GLAUCOMYS VOLANS*) WINTER AGGREGATIONS: COMPANY IS WELCOME, BUT KIN ARE BETTER. Katherine K. Thorington and Peter D. Weigl. Department of Biology, Wake Forest University, Winston-Salem, NC, USA.

125. RESPONSES OF BIGHORN SHEEP TO RISK OF PREDATION BY MOUNTAIN LIONS: EVALUATION AT MULTIPLE SCALES. Jeffrey T. Villepique^{1,2}, Becky M. Pierce^{1,2}, R. T. Bowyer³, Vernon C. Bleich^{1,2} and Thomas R. Stephenson^{1,2}. ¹Sierra Nevada Bighorn Sheep Recovery Program, California Department of Fish and Game, Bishop, CA, USA; ²Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, AK, USA; ³Department of Biological Sciences, Idaho State University, Pocatello, ID, USA.

126. NORTHERN FLYING SQUIRRELS (*GLAUCOMYS SABRINUS*) AND SCENIC HIGHWAYS: THE ROAD TO EXTINCTION. Peter D. Weigl¹, Ronald S. Hughes² and David C. Battle³. ¹Department of Biology, Wake Forest University, Winston-Salem, NC, USA; ²Virginia Department of Game and Inland Fisheries, Fredericksburg, VA; ³6137 Chevigny Street, Anchorage, AK.

127. REPRODUCTION, GROWTH AND DEVELOPMENT OF A CONFINED POPULATION OF ENDANGERED RIPARIAN BRUSH RABBITS. Elizabeth A. Williams, Laurissa P. Hamilton, Daniel F. Williams and Patrick A. Kelly. Endangered Species Recovery Program, Dept. of Biological Sciences, California State University, Stanislaus, Turlock, CA, USA.

128. SURVIVORSHIP OF TRANSLOCATED AND REPATRIATED RIPARIAN BRUSH RABBITS. Daniel F. Williams, Matthew R. Lloyd, Laurissa P. Hamilton and Patrick A. Kelly. Endangered Species Recovery Program, Department of Biological Sciences, California State University, Stanislaus, Turlock, CA, USA.

129. HABITAT SELECTION AND SPATIAL OVERLAP OF SAN JOAQUIN KIT FOX DENS AND BURROWING OWL BURROWS IN AN URBAN ENVIRONMENT. Carie Wingert, Brian Cypher, Christine Van Horn Job and Curtis Bjurlin. Endangered Species Recovery Program, Bakersfield, CA.

130. SEXUAL DIMORPHISM IN BODY MASS AMONG COLONIAL TUCO-TUCOS (*CTENOMYS SOCIABILIS*). Julie A. Woodruff, Rachel Casamina, Adrian Young and Eileen A. Lacey. Museum of Vertebrate Zoology, University of California at Berkeley, Berkeley, CA, USA.

131. THE IMPACT OF HUMAN CONSTRUCTED PATHWAYS ON THE MOVEMENTS OF WHITE-FOOTED MICE, *PEROMYSCUS LEUCOPUS*. David A. Zegers¹, Bryan A. Beichler¹ and Joseph F. Merritt². ¹Department of Biology, Millersville University, Millersville, PA, USA; ²Powdermill Biological Station, Carnegie Museum of Natural History, Rector, PA.

7:00 PM - 10:00 PM

Vertebrate Museum Open House: Vertebrate Museum, Science Bldg C

7:00 PM - 11:00 PM

No Host Social: University Center, Kate Buchanan Room

84th ASM Annual Meeting Program of Events

Monday, June 14

- 7:00 AM - 8:30 AM **Breakfast:** Jolly Giant Cafeteria
- 8:00 AM - 11:00 PM **Housing Check In:** Jolly Giant Commons 1st Floor
- 8:00 AM - 11:00 PM **Registration/Check In:** University Center, Karshner Lounge

8:00 AM - 9:45 AM

Plenary Session 2: Van Duzer Theater

Grinnell Awardee (Dr. David Schmidly).

8:00 AM. 132. NATURAL HISTORY AT AMERICAN UNIVERSITIES - EXTINCT, DECLINING, OR A WINDOW OF OPPORTUNITY?: PERSPECTIVES OF A MAMMALOGIST AND COLLEGE PRESIDENT. David J. Schmidly. Oklahoma State University System, System CEO and President, Stillwater, Oklahoma, USA.

Merriam Awardee (Dr. Terry Bowyer).

8:55 AM. 133. SEXUAL SEGREGATION IN RUMINANTS: DEFINITIONS, HYPOTHESES, AND IMPLICATIONS FOR CONSERVATION. R. Terry Bowyer^{1,2}. ¹Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK, USA; ²Present address: Department of Biological Sciences, Idaho State University, Pocatello, ID.

9:45 AM - 10:00 AM

Break/Refreshments/Vendors: University Center, Karshner Lounge

10:00 AM - 12:00 PM

Members Meeting I: Van Duzer Theater

11:45 AM - 1:30 PM

Lunch: Jolly Giant Cafeteria

1:30 PM - 3:15 PM

Concurrent Technical Session 4

Physiology
Session Chair: Thomas Tomasi
University Center
Kate Buchanan Room

1:30 PM. 134. DOES ANTHROPOGENIC DISTURBANCE ACT AS AN ENVIRONMENTAL STRESSOR ON WHITE-FOOTED MICE (*PEROMYSCUS LEUCOPUS*)? Terry L. Derting. Department of Biological Sciences, Murray State University, Murray, KY, USA.

1:45 PM. 135. GROWTH IN ARCTIC UNGULATES: POSTNATAL DEVELOPMENT AND ORGAN MATURATION IN REINDEER, CARIBOU AND MUSKOXEN. Katrina K. Knott, Perry S. Barboza and R. Terry Bowyer. Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, Alaska.

2:00 PM. 136. SEASONAL COMFORT ZONES FOR SIBERIAN TIGERS (*PANTHERA TIGRIS ALTAICA*). Vaughan A. Langman^{1,2} and Ray Flynn¹. ¹USDA, ANIMAL CARE, Shreveport, LA, USA; ²Megafauna Research Unit, LSU, Shreveport, LA, USA.

2:15 PM. 137. BEHAVIORAL THERMOREGULATION AND ACTIVITY

PATTERNS IN FREE-LIVING ARCTIC GROUND SQUIRRELS. Ryan A. Long, Timothy J. Martin and Brian M. Barnes. Institute of Arctic Biology and Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, AK.

2:30 PM. 138. MANIPULATING LITTER SIZE IN MAMMALS. Robert S. Sikes, David W. Clark, Tommy G. Finley and Jennifer L. Parsons. University of Arkansas at Little Rock, Little Rock, AR.

2:45 PM. 139. PESTICIDE EFFECTS ON BODY TEMPERATURE OF TORPID/HIBERNATING RODENTS (*PEROMYSCUS LEUCOPUS* & *SPERMOPHILUS TRIDECIMLINEATUS*). Thomas E. Tomasi¹, Peta Elsken-Lacy¹, Jean A. Perry¹ and Kerry Withers². ¹Department of Biology, Southwest Missouri State University, Springfield, MO; ²Department of Biological & Physical Sciences, University of Southern Queensland, Toowoomba, Queensland, Australia.

3:00 PM. 140. NUTRITION OF SOUTHERN PLAINS SMALL MAMMALS: IMMUNE RESPONSE TO CHANGES IN MATERNAL AND OFFSPRING DIETARY PROTEIN. James A. Wilson¹ and Jennifer L. Parsons². ¹Wild-

life, Fish, and Conservation Biology, University of California, Davis, CA, USA; ²Department of Biology, University of Arkansas, Little Rock, AR, USA.

Systematics/Zoogeography 2
Session Chair: Robert Anderson
Nelson Hall East
Goodwin Forum

1:30 PM. 141. SYSTEMATICS OF THE *PEROMYSCUS BOYLI* SPECIES GROUP BASED ON INTRON II OF THE *ADH* GENE. Brian R. Amman and Robert D. Bradley. Department of Biological Sciences, Texas Tech University, Lubbock, Texas, USA.

1:45 PM. 142. SYSTEMATICS OF THE BAT FAMILY MOLOSSIDAE USING NUCLEAR DNA SEQUENCES. Loren K. Ammerman and Lisa G. Smith. Department of Biology, Angelo State University, San Angelo, TX.

2:00 PM. 143. BOOTSTRAPPING ANALYSES IN *HETEROMYS ANOMALUS* (RODENTIA: HETEROMYIDAE):

1:30 PM - 3:15 PM

Concurrent Technical Session 4 Continued

A MODERN APPROACH TO ASSESSING NONGEOGRAPHIC VARIATION. Robert P. Anderson¹ and Norman A. Slade². ¹Dept. of Biology, City College of the City University of New York, New York, NY, USA; ²Natural History Museum, and Dept. of Ecology & Evolutionary Biology, University of Kansas, Lawrence, KS, USA.

2:15 PM. 144. WHY ARE THE MOLECULAR AND MORPHOLOGICAL TREES SO DIFFERENT FOR PHYLLOSTOMID BATS? IMPLICATIONS TO SYSTEMATICS. Robert J. Baker and S. R. Hoofer. Department of Biological Sciences and the Museum, Texas Tech University, Lubbock, TX.

2:30 PM. 145. PHYLOGEOGRAPHIC RELATIONSHIPS OF ENDEMIC RODENT SPECIES OF THE GALAPAGOS ISLANDS. Scott A. Clement, Robert C. Dowler and Loren K. Ammerman. Department of Biology, Angelo State University, San Angelo, TX.

2:45 PM. 146. EVOLUTIONARY RELATIONSHIPS AMONG NORTH AMERICAN *MYOTIS* (VESPERTILIONIDAE) SPECIES AND EVIDENCE OF CRYPTIC VARIATION. Tanya A. Dewey. University of Michigan Museum of Zoology, Mammal Division, Ann Arbor, Michigan, USA.

3:00 PM. 147. GENETIC VARIATION IN THE SOUTHERN PLAINS WOOD-

RAT (*NEOTOMA MICROPUS*). J. Delton Hanson and Robert D. Bradley. Texas Tech University, Lubbock, TX.

Population Ecology 2
Session Chair: Brock McMillan
Van Duzer Theater

1:30 PM. 148. SURVIVAL AND CAUSE-SPECIFIC MORTALITY OF RIVER OTTERS IN THE UPPER-MISSISSIPPI RIVER WATERSHED. Thomas A. Gorman¹, Brock R. McMillan¹, John D. Erb², Daniel J. Martin¹ and John D. Krenz¹. ¹Department of Biological Sciences, Minnesota State University, Mankato, Mankato, MN, USA; ²Minnesota Department of Natural Resources, Grand Rapids, MN, USA.

1:45 PM. 149. GENETIC STRUCTURE OF MICHIGAN'S BOBCAT POPULATIONS. Devin G. Millions and Bradley J. Swanson. Department of Biology, Central Michigan University, Mt. Pleasant, Michigan, USA.

2:00 PM. 150. AN ECOLOGICAL AND BIOACOUSTICAL STUDY OF EASTERN COYOTES (*CANIS LATRANS*) IN NORTHWEST GEORGIA. Justin L. Edge¹, Christopher B. Mowry¹, Steven M. Benzel² and Jessica Foley¹. ¹Berry College, Department of Biology, Mt. Berry, GA, USA; ²Berry College, Depart-

ment of Mathematical Sciences, Mt. Berry, GA, USA.

2:15 PM. 151. A MODEL FOR ESTIMATING BLACK-TAILED PRAIRIE DOG COLONY POPULATION SIZES. Alison L. Pruett¹, Clint W. Boal², Mark C. Wallace¹ and Heather Whitlaw³. ¹Department of Range, Wildlife, and Fisheries Management, Texas Tech University, Lubbock, Texas, USA; ²USGS - Texas Cooperative Fish and Wildlife Research Unit, Texas Tech University, Lubbock, Texas, USA; ³Texas Parks and Wildlife Department, Texas Tech University, Goddard, Lubbock, Texas, USA.

2:30 PM. 152. GENETIC DETERMINATION OF THE NUMBER OF BADGER POPULATIONS IN MICHIGAN. Robin A. Ray and Bradley J. Swanson. Central Michigan University, Biology Department, Mt. Pleasant, MI, USA.

2:45 PM. 153. MONITORING A RE-ESTABLISHED POPULATION OF MUSKOXEN IN THE ARCTIC NATIONAL WILDLIFE REFUGE, ALASKA. Patricia E. Reynolds. U.S. Fish and Wildlife Service, Arctic National Wildlife Refuge, Fairbanks, Alaska, USA.

3:00 PM. 154. PRAIRIE VOLES IN TALLGRASS PRAIRIE: EFFECTS OF RUNWAYS ON SOIL NITROGEN AND VEGETATION. Beth E. Ross. Div. of Biol., Kansas St. Univ., Manhattan, KS.

3:15 PM - 3:30 PM

Break/Refreshments/Vendors: University Center, Karshner Lounge

3:30 PM - 5:30 PM

Concurrent Technical Session 5

Community Ecology 3
Session Chair: Catherin Schwemm
Van Duzer Theater

3:30 PM. 155. ECOLOGY OF SMALL MAMMALS IN THE CANYONLANDS OF THE TEXAS PANHANDLE. Raymond S. Matlack, Greg T. Lewellen, Karah L. Gallagher, Dan P. Walker and Rachel A. Spruance. Department of Life, Earth, and Environmental Sciences, West Texas A&M University, Canyon, TX, USA.

3:45 PM. 156. ELEVATIONAL RANGE SIZE-ABUNDANCE PATTERNS OF COSTA RICAN RODENTS AT LOCAL AND REGIONAL SCALES. Christy M. McCain. National Center for Ecological Analysis and Synthesis, University of California, Santa Barbara, Santa Barbara, CA.

4:00 PM. 157. EFFECTS OF LANDSCAPE PATTERN ON OCCUPANCY OF FOREST PATCHES BY GRANIVOROUS RODENTS IN FRAGMENTED LANDSCAPES. Jeffrey E. Moore and Robert K. Swihart. Department of For-

estry and Natural Resources, Purdue University, West Lafayette, IN, USA.

4:15 PM. 158. CHANGES IN MESOPREDATOR COMMUNITY STRUCTURE IN RESPONSE TO URBANIZATION. Suzanne Prange^{1,2} and Stanley D. Gehrt^{1,2}. ¹Max McGraw Wildlife Foundation, Dundee, IL, USA; ²Ohio State University, School of Natural Resources, Columbus, OH, USA.

4:30 PM. 159. SPECIES RICHNESS-PRODUCTIVITY RELATIONSHIP IN GRASSLAND SMALL MAMMALS:

Monday PM

3:30 PM - 5:30 PM

Concurrent Technical Session 5 Continued

DIFFERENTIAL RESPONSE OF FUNCTIONAL GROUPS. Aaron W. Reed, Glennis A. Kaufman and Donald W. Kaufman. Division of Biology, Kansas State University, Manhattan, KS, USA.

4:45 PM. 160. CHANGES IN SMALL MAMMAL POPULATION DYNAMICS IN RESPONSE TO TOP PREDATOR REMOVAL. Catherin A. Schwemm¹, Charles A. Drost² and Timothy J. Coonan¹. ¹Channel Islands National Park, Ventura, CA, USA; ²USGS Southwest Biological Science Center, Colorado Plateau Research Station, Flagstaff, AZ, USA.

5:00 PM. 161. DISTRIBUTION AND ABUNDANCE OF SMALL MAMMALS RELATIVE TO URBAN HABITAT FRAGMENTATION IN SOUTHERN CALIFORNIA. Regan N. Schutte^{1,2}, Seth P.D. Riley¹ and Alan E. Muchlinski². ¹National Park Service, Santa Monica Mountains National Recreation Area, 401 W Hillcrest Drive, Thousand Oaks, CA; ²Department of Biological Sciences, California State University, Los Angeles, Los Angeles, CA.

5:15 PM. 162. SMALL MAMMAL COMMUNITY ASSEMBLY: INSIGHTS FROM PALEONTOLOGICAL AND EXPERIMENTAL DATA. Paula A. Spaeth and Elizabeth A. Hadly. Stanford University, Department of Biological Sciences, Stanford, CA.

Conservation 2
Session Chair: Bill Gannon
University Center
Kate Buchanan Room

3:30 PM. 163. ECOLOGY AND MANAGEMENT OF CRITICAL MAMMALIAN SPECIES ON COMMERCIAL TIMBERLANDS IN COASTAL NORTHERN CALIFORNIA. Lowell V. Diller, Keith A. Hamm and Joel L. Thompson. Simpson Resource Company, Korbek, CA, USA.

3:45 PM. 164. THE LINK BETWEEN DIVERSITY AND DISEASE. Laurie J. Dizney^{1,2}, Phil D. Jones¹ and Luis A. Ruedas¹. ¹Department of Biology, Portland State University, Portland, OR, USA; ²Oregon State Public Health Laboratory, Portland, OR.

4:00 PM. 165. HOW LONG CAN FLORIDA MOUSE, *PODOMYS FLOR-*

IDANUS, POPULATIONS SURVIVE WITHOUT GOPHER TORTOISES? Terry J. Doonan. Florida Fish and Wildlife Conservation Commission, Lake City, FL, USA.

4:15 PM. 166. EFFECTS OF AN INVASIVE SPECIES, *SOLENOPTIS INVICTA*, ON SURVIVORSHIP OF SMALL MAMMALS IN NATIVE TALLGRASS PRAIRIE. Cathleen N. Early and Kenneth T. Wilkins. Department of Biology, Baylor University, Waco, Texas, USA.

4:30 PM. 167. DEFINING THE MOLECULAR LANDSCAPE OF *CORYNORHINUS TOWNSENDII* IN CENTRAL NEVADA: SPATIAL AND TEMPORAL PATTERNS. William L. Gannon, Richard E. Sherwin and Jerry W. Drago. Division of Mammals, Museum of Southwestern Biology, University of New Mexico, Albuquerque, New Mexico, USA.

4:45 PM. 168. WINTER HABITAT ASSOCIATIONS OF AMERICAN MARTEN IN GREAT LAKES-ST. LAWRENCE FORESTS. Paul Gelok¹, Jay Malcolm¹, Justina Ray² and Brian Naylor³. ¹Faculty of Forestry, University of Toronto, Toronto, Ontario, Canada; ²Wildlife Conservation Society, Faculty of Forestry, University of Toronto, 33 Willcocks Street, Toronto, Ontario, Canada; ³North-east and Southern Science and Information Sections, Ontario Ministry of Natural Resources, North Bay, Ontario, Canada.

5:00 PM. 169. MICROSATELLITE ANALYSIS OF GENETIC VARIATION WITHIN MICHIGAN RIVER OTTERS. Jennifer M. Gregory. Central Michigan University, Biology Department, Mt. Pleasant, MI, USA.

5:15 PM. 170. SOURCES, SINKS, AND SNOWSHOE HARES IN MONTANA. Paul C. Griffin and Scott Mills. Fish and Wildlife Biology Program, University of Montana, Missoula, MT, USA.

Genetics/Evolution 2
Session Chair: Jay Storz
Nelson Hall East
Goodwin Forum

3:30 PM. 171. DO GOLF COURSES SUSTAIN GENETICALLY DIVERSE DEER MOUSE (*PEROMYSCUS MANICULATUS*) POPULATIONS? Erika L.

Barthelmess and Jolaine Roycewicz. Biology Department, St. Lawrence University, Canton, NY, USA.

3:45 PM. 172. MIDDENS, FAMILY UNITS, AND RELATEDNESS IN THE SOUTHERN PLAINS WOODRAT: A GENETIC PERSPECTIVE. Dnate' Baxter¹, Charles F. Fulhorst² and Robert D. Bradley¹. ¹Department of Biological Sciences, Texas Tech University, Lubbock, Texas; ²Department of Pathology, University of Texas Medical Branch, Galveston, Texas.

4:00 PM. 173. PHYLOGEOGRAPHY AND GENETIC DIVERSITY OF THE FISHER (*MARTES PENNANTI*) IN A PENINSULAR AND PERIPHERAL METAPOPOPULATION. Steven W. Buskirk¹, Samantha M. Wisely², Gregory A. Russell¹, Keith B. Aubry³ and William J. Zielinski⁴. ¹Department of Zoology and Physiology, University of Wyoming, Laramie, WY, USA; ²Genetics Program, Smithsonian Institution, Washington, DC, USA; ³Pacific Northwest Research Station, U. S. Forest Service, Olympia, WA, USA; ⁴Pacific Southwest Research Station, U. S. Forest Service, Arcata, CA, USA.

4:15 PM. 174. RAPID DIVERSIFICATION OF TUCO-TUCOS (*CTENOMYS*): CONTRASTING MITOCHONDRIAL AND NUCLEAR INTRON SEQUENCES. Anibal Castillo¹, Maria N. Cortinas^{1,2} and Enrique P. Lessa¹. ¹Laboratorio de Evolucion, Facultad de Ciencias, Universidad de la Republica, Igua 4225, Montevideo, Uruguay; ²Forestry and Agricultural Biotechnology Institute, University of Pretoria, Pretoria, South Africa.

4:30 PM. 306. POPULATION GENETICS OF *NEOTOMA MICROPUS* IN SOUTH TEXAS. Francisca M. Mendez-Harclerode¹, John D. Hanson¹, Charles F. Fulhorst² and Robert D. Bradley¹. ¹Department of Biological Sciences, Flint and Main, Texas Tech University, Lubbock, Texas, US; ²Department of Pathology, University of Texas Medical Branch, Galveston, Texas.

4:45 PM. 175. ECOLOGY, EPIDEMIOLOGY AND EVOLUTION OF *OLIGORYZOMYS LONGICAUDATUS*, THE MAJOR CHILEAN RESERVOIR FOR HANTAVIRUS. Eduardo Palma¹, Pablo A. Marquet¹, Marcela Ferres² and Terry L. Yates³. ¹Center for Advanced Studies

84th ASM Annual Meeting Program of Events

3:30 PM - 5:30 PM

Concurrent Technical Session 5 Continued

in Ecology and Biodiversity and, Departamento de Ecología, Universidad Católica de Chile, Alameda 340, Santiago, Santiago, Chile; ²Centro de Investigaciones Médicas, Facultad de Medicina, Universidad Católica de Chile, Alameda 340, Santiago, Santiago, Chile; ³Museum of Southwestern Biology and Department of Biology, University of New Mexico, Albuquerque, New Mexico, USA.

5:00 PM. 176. GENETIC ANALYSIS OF HUMAN PARASITES SUPPORTS DIRECT CONTACT BETWEEN MODERN AND ARCHAIC HUMANS. David L. Reed. Florida Museum of Natural History, Gainesville, FL, USA.

5:15 PM. 177. NATURAL SELECTION DRIVES ALTITUDINAL DIVERGENCE AT THE ALBUMIN LOCUS IN

DEER MICE, *PEROMYSCUS MANICULATUS*. Jay F. Storz¹ and Jean M. Dubach². ¹Department of Biology, San Francisco State University, San Francisco, CA, USA; ²Department of Conservation Biology, Brookfield Zoo, Brookfield, IL, USA.

6:30 PM - 9:00 PM

Picnic: Camp Bauer, Green Diamond Resource Company

Tuesday, June 15

6:30 AM - 7:30 AM

Gordon Kirkland Memorial Run/Walk for Research: Arcata Forest

7:00 AM - 8:30 AM

Breakfast: Jolly Giant Cafeteria

8:00 AM - 11:00 PM

Housing Check In: Jolly Giant Commons 1st Floor

8:00 AM - 11:00 PM

Registration/Check In: University Center, Karshner Lounge

8:00 AM - 10:00 AM

Concurrent Technical Session 6

Community Ecology 4
Session Chair: Marianna Wood
Van Duzer Theater

8:00 AM. 87. CO-OCCURRENCE OF BAT FLIES ON NEOTROPICAL BATS: A NULL MODEL ANALYSIS. Carl W. Dick. Department of Biological Sciences, Texas Tech University, Lubbock, TX, USA.

8:15 AM. 179. GEOGRAPHIC VARIATION IN C AND N STABLE ISOTOPE SIGNATURES IN THE BIG BROWN BAT, *EPTESICUS FUSCUS*. James C. Sullivan, Kendra Buscetta, Robert Michener, John O. Whittaker and Thomas H. Kunz. Biology Department, Boston University, Boston, MA, USA.

8:30 AM. 180. RESPONSES OF HANTAVIRUS HOST COMMUNITIES IN PANAMA TO SPECIES REMOVAL. Gerardo Suzan¹, Erika Marce¹, Robert Parmenter¹, Tomasz Giermakowsky¹, Blas Armién², Anibal Armién², Juan M. Pascale² and Terry Yates¹. ¹Museum of Southwestern Biology, Dept. of Biol. Univ. of New Mexico., Albuquerque, NM, USA; ²Instituto Conmemorativo GORGAS. Ave. Justo Arosemena y Calle 35. Panama, Panama.

8:45 AM. 181. TEMPORAL DYNAMICS OF A DESERT RODENT COM-

MUNITY: EFFECTS OF EXTREME CLIMATIC EVENTS AND SPECIES INVASION. Katherine M. Thibault and James H. Brown. Department of Biology, University of New Mexico, Albuquerque, NM.

9:00 AM. 182. DYNAMICS OF PLAGUE IN SMALL RODENTS AND THEIR ECTOPARASITES ASSOCIATED WITH BLACK-TAILED PRAIRIE DOGS. T. Bala and Jack F. Cully. Kansas Co-Operative Fish And Wildlife Research Unit, Division Of Biology, Kansas State University, Manhattan, KS, USA.

9:15 AM. 183. SEASONAL PATTERNS IN VERTICAL STRATIFICATION OF BATS IN A NEOTROPICAL LOWLAND RAINFOREST. Christa D. Weise¹ and Elisabeth K. Kalko^{2,3}. ¹University of New Mexico, Department of Biology, Albuquerque, New Mexico; ²University of Ulm, Ulm, Germany; ³Smithsonian Tropical Research Institute, Panama, Panama.

9:30 AM. 184. TAXONOMIC, FUNCTIONAL, AND BIOGEOGRAPHIC PERSPECTIVES ON THE COMMUNITY ECOLOGY OF BATS FROM THE SEMIARID TROPICS. Michael R. Willig¹ and Richard D. Stevens². ¹Department of Biological Sciences and The Museum, Texas Tech University, Lubbock, TX; ²National Center for Ecological Analysis

and Synthesis, University of California-Santa Barbara, Santa Barbara, CA.

9:45 AM. 185. EFFECT OF CHRISTMAS TREE FARMING ON THE COMPOSITION OF THE SMALL MAMMAL COMMUNITY. Marianna D. Wood. Biological and Allied Health Sciences, Bloomsburg University, Bloomsburg, PA, USA.

Conservation 3
Session Chair: Patrick Kelly
University Center
Kate Buchanan Room

8:00 AM. 186. THE DECLINE OF THE OLYMPIC MARMOT: EVALUATING THE SPATIAL EXTENT AND CAUSES. Suzanne C. Griffin¹, L. Scott Mills¹ and Mark L. Taper². ¹Wildlife Biology Program, University of Montana, Missoula, MT, USA; ²Department of Ecology, Montana State University, Bozeman, MT.

8:15 AM. 187. REINTRODUCTION OF ARABIAN ORYX (*ORYX LEUCORYX*) IN JORDAN. Lee E. Harding¹ and Omar F. Abu Eid². ¹SciWrite Environmental

Tuesday AM

8:00 AM - 10:00 AM

Concurrent Technical Session 6 Continued

Sciences Ltd., 2339 Sumpter Drive, Coquitlam, British Columbia, Canada; ²Royal Society for the Conservation of Nature, Amman, Jordan, Jordan.

8:30 AM. 188. DNA CONTENT VARIATION IN HISPID COTTON RATS (*SIGMODON HISPIDUS*) FROM ABANDONED COLLIERY STRIP MINES. Kimberly A. Hays, Maria A. Harrington and Karen McBee. Department of Zoology and Collection of Vertebrates, Oklahoma State University, Stillwater, OK, USA.

8:45 AM. 189. DRAINAGES AS POTENTIAL CORRIDORS FOR THE SPREAD OF SYLVATIC PLAGUE IN BLACK-TAILED PRAIRIE DOGS. Tammi L. Johnson¹ and Jack F. Cully^{1,2}. ¹Division of Biology, Kansas State University, Manhattan, KS, USA; ²United States Geological Service, Kansas Cooperative Fish and Wildlife Research Unit, Division of Biology, Kansas State University, Manhattan, KS, USA.

9:00 AM. 190. HABITAT ASSOCIATIONS AND MODEL EVALUATION FOR AMERICAN MARTEN IN SEQUOIA AND KINGS CANYON NATIONAL PARKS. Rebecca E. Green and Matthew D. Johnson. Dept Wildlife, Humboldt State University, Arcata, CA, USA.

9:15 AM. 191. ENDANGERED GIANT KANGAROO RATS AND STOCHASTIC CLIMATIC EVENTS: DOCUMENTING THE IMPACT OF FLASH FLOODING. Patrick A. Kelly, Daniel F. Williams, Steve Messer, Darren P. Newman and Patrick L. Morrison. California State University, Stanislaus, Endangered Species Recovery Program, Fresno, CA, USA.

9:30 AM. 192. POPULATION DYNAM-

ICS AND RECENT EXPANSION OF WILD PIGS IN CALIFORNIA. Ron E. Loggins and Rick A. Sweitzer. University of North Dakota, Department of Biology, Grand Forks, ND, USA.

9:45 AM. 193. GENETIC EVALUATION OF BLACK-FOOTED FERRETS FOR REINTRODUCTION PURPOSES. Cynthia K. Maddox and Bradley J. Swanson. Brooks Hall, Mt. Pleasant, MI, USA.

Systematics/Zoogeography 3
Session Chair: Phil Sudman
Nelson Hall East
Goodwin Forum

8:00 AM. 194. A COMPARISON OF THE RODENT FAUNAS IN SANDHILL HABITATS FROM THE NORTHERN CHIHUAHUAN DESERT IN TEXAS. Joel G. Brant and Clyde Jones. Department of Biological Sciences and Museum, Texas Tech University, Lubbock, Texas, USA.

8:15 AM. 195. COMPARATIVE PHYLOGEOGRAPHY OF *CYNOPTERUS* FRUIT-BATS ON THE SUNDA SHELF: RAINFOREST REFUGIA OR OPEN HABITAT OPPORTUNITY? Polly Campbell, Christopher J. Schneider and Thomas H. Kunz. Boston University, Department of Biology, Boston, MA, U.S.A.

8:30 AM. 196. DIVERSITY OF BATS ALONG AN ELEVATION GRADIENT IN THE EASTERN SLOPES OF THE ECUADORIAN ANDES. Juan P. Carrera^{1,2} and René M. Fonseca^{1,2}. ¹Museo de Zoología (QCAZ) — Escuela de Ciencias Biológicas, Pontificia Universidad Católica del Ecuador, Quito, Pichincha, Ecuador; ²Department of Biological Sciences and the Museum of Texas Tech Uni-

versity, Texas Tech University, Lubbock, Texas, USA.

8:45 AM. 36. REDUCED MTDNA DIVERSITY IN ENDEMIC PHILIPPINE FRUIT BATS ON SMALL, ISOLATED ISLANDS. Trina E. Roberts^{1,2}. ¹Committee on Evolutionary Biology, University of Chicago, Chicago, IL; ²Field Museum of Natural History, Chicago, IL.

9:00 AM. 197. CLADISTIC BIOGEOGRAPHY, CENTERS OF ORIGIN, AND BIOTIC DIVERSIFICATION ALONG LATITUDINAL GRADIENTS. Richard D. Stevens. National Center for Ecological Analysis and Synthesis, University of California Santa Barbara, Santa Barbara, CA, USA.

9:15 AM. 198. GENETIC DIFFERENTIATION BETWEEN *GEOMYS ARENARIUS* AND *G. KNOXJONESI*: SEPARATE SPECIES DIVERGED FROM A SOUTHERN REFUGIUM. Philip D. Sudman¹ and David J. Hafner². ¹Department of Biological Sciences, Tarleton State University, Stephenville, TX; ²New Mexico Museum of Natural History, Albuquerque, NM.

9:30 AM. 199. PHYLOGEOGRAPHY OF THE BERINGIAN MEMBERS OF THE *SOREX CINEREUS* COMPLEX. Eric Waltari¹ and Joseph A. Cook². ¹Department of Biological Sciences, Idaho State University, Pocatello, ID; ²Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM.

9:45 AM. 200. PHYLOGEOGRAPHIC STRUCTURING AND VOLANT MAMMALS: A CASE STUDY USING THE PALLID BAT (*ANTROZOUS PALLIDUS*). Sarah E. Weyandt and Ronald A. Van Den Bussche. Department of Zoology, Oklahoma State University, Stillwater, OK.

10:00 AM - 10:15 AM **Group Photo:** Art Quad

10:15 AM - 10:30 AM **Break/Refreshments/Vendors:** University Center, Karshner Lounge

10:30 AM - 12:00 PM **Members Meeting 2:** Van Duzer Theater

11:45 AM - 1:30 PM **Lunch:** Jolly Giant Cafeteria

12:00 PM - 1:30 PM **Board of Directors Meeting/Lunch:** Nelson Hall East, Goodwin Forum

1:30 PM - 3:00 PM

Poster Session 2: University Center, The Depot

- 201.** MOUNTING EVIDENCE FOR ACQUIRED IMMUNITY TO RABIES IN BATS. Thomas J. O'Shea¹, Vidya Shankar^{2,3}, Richard A. Bowen², Charles E. Rupprecht³ and Jeffrey H. Wimsatt⁴. ¹U.S. Geological Survey, Fort Collins, CO; ²Department of Biomedical Sciences, Colorado State University, Fort Collins, CO; ³Centers for Disease Control and Prevention, Atlanta, GA; ⁴Center for Comparative Medicine, University of Virginia Health System, Charlottesville, VA.
- 202.** DIETARY COMPOSITION OF COASTAL COYOTES (*CANIS LATRANS*) ON VANDENBERG AIR FORCE BASE, CALIFORNIA. Alice J. Abela. SRS Technologies, Street, Lompoc, CA, USA.
- 203.** HOUSE MOUSE DEMOGRAPHY: A CONTROLLED EXPERIMENT? Paul K. Anderson. Dept. of Biological Sciences, University of Calgary, Calgary, Alberta, Canada.
- 204.** THE INFLUENCE OF TRAP DENSITY ON ESTIMATES OF SMALL MAMMAL ABUNDANCE, DIVERSITY, AND SPECIES RICHNESS. Jeremy A. Baumgardt, Jonathan M. Conard and Philip S. Gipson. Division of Biology, Kansas State University, Manhattan, KS.
- 205.** MITOCHONDRIAL SEQUENCE ANALYSIS OF PHYLOGEOGRAPHY AND POPULATION STRUCTURE IN THE MOJAVE GROUND SQUIRREL (*SPERMOPHILUS MOHAVENSIS*). Kayce C. Bell¹, Philip Leitner² and Marjorie D. Matocq¹. ¹Department of Biological Sciences, Idaho State University, Pocatello, ID, USA; ²School of Sciences, Saint Mary's College of California, Moraga, CA.
- 206.** SKELETAL ADAPTATIONS FOR DIGGING IN THE LIMBS OF TWO SPECIES OF SHORT-TAILED SHREWS (*BLARINA*). Adam Swisher and Russ Benedict. Department of Biology, Central College, Pella, IA.
- 207.** SURVIVORSHIP AND HABITAT SELECTION BY YOUNG SITKA BLACK-TAILED DEER: EFFECTS OF LOGGING AND SOCIAL FACTORS. Todd J. Brinkman¹, David K. Person², R. T. Bowyer¹ and F. S. Chapin¹. ¹Institute of Arctic Biology and Department of Biology, University of Alaska Fairbanks, Fairbanks, AK; ²Alaska Department of Fish and Game, Ketchikan, AK.
- 208.** *MONODELPHIS DOMESTICA* BREEDING COLONY, A GENETIC RESOURCE. Jim M. Bridges and John L. VandeBerg. Southwest Foundation for Biomedical Research, San Antonio, TX.
- 209.** SKELETAL DEVELOPMENT AND SEXUAL DIMORPHISM OF THE ATLANTIC WHITE-SIDED DOLPHIN (*LAGENORHYNCHUS ACUTUS*) IN THE NORTHWEST ATLANTIC. Miranda J. Buck and Gwilym S. Jones. Center for Vertebrate Studies, Northeastern University, Biology Department, Boston, MA.
- 210.** EMPIRICAL EVALUATION OF THE M-RATIO USING KNOWN BOTTLENECKS IN THE BANNER-TAILED KANGAROO RAT (*DIPODOMYS SPECTABILIS*). Joseph D. Busch¹, Cory R. McCormick¹, Peter M. Waser² and J. Andrew DeWoody¹. ¹Purdue University, Department of Forestry & Natural Resources, W. Lafayette, IN, USA; ²Purdue University, Department of Biology, W. Lafayette, IN, USA.
- 211.** DYNAMICS OF SPACE UTILIZATION BY EASTERN CHIPMUNKS (*TAMIAS STRIATUS*). Samantha K. Carpenter, Amanda J. Celesnik, James Busch and Joseph F. Merritt. Powdermill Biological Station, CMNH, Rector, PA, USA.
- 212.** LEAST SHREW (*CRYPTOTIS PARVA*) SUBMANDIBULAR GLAND FINE STRUCTURE. Keith A. Carson and Robert K. Rose. Dept. of Biological Sciences, Old Dominion University, Norfolk, VA, USA.
- 213.** STRUCTURE AND USE OF BURROWS BY GIANT ARMADILLOS (*PRIODONTES MAXIMUS*) IN THE ARGENTINEAN GRAN CHACO. Natalia Ceresoli^{1,2} and Eduardo Fernandez-Duque^{2,3}. ¹Fundación E.C.O., Formosa, Formosa, Argentina; ²CECOAL- CONICET, Corrientes, Corrientes, Argentina; ³Center for Reproduction of Endangered Species, Zoological Society of San Diego, San Diego, Ca, USA.
- 214.** GENDER DIFFERENCES IN THE LONGEVITY OF COLONIAL TUCO-TUCOS (*CTENOMYS SOCIABILIS*): IMPLICATIONS FOR AGING. Ann T. Chang and Eileen A. Lacey. Museum of Vertebrate Zoology, Department of Integrative Biology, University of California, Berkeley, Berkeley, California.
- 215.** MICROSCALE HABITAT CHOICE OF A CENTRAL PLACE FORAGING MAMMAL: THE NORTH AMERICAN PIKA. Yair Chaver. University of Nevada Reno, Reno, NV.
- 216.** AN ANALYSIS OF GENETIC STRUCTURE IN WHITE-TAILED DEER AND POTENTIAL SIGNIFICANCE FOR MANAGEMENT. Christopher E. Comer¹, John C. Kilgo², Gino J. D'Angelo¹, Travis C. Glenn³ and Karl V. Miller¹. ¹D.B. Warnell School of Forest Resources, University of Georgia, Athens, GA, USA; ²USDA Forest Service Southern Research Station, New Ellenton, SC, USA; ³Savannah River Ecology Laboratory, Aiken, SC, USA.
- 217.** DETERMINATION OF HANTAVIRUS DISTRIBUTION WITHIN SMALL MAMMAL COMMUNITIES OF NORTH-EAST MISSOURI, A HUMAN RISK ASSESSMENT. Shawna A. Cooper and Scott Burt. Truman State University, Division of Science, Kirksville, MO, USA.

1:30 PM - 3:00 PM

Poster Session 2 Continued

- 218. SPATIAL PATTERNS OF GENETIC RELATEDNESS IN TWO POPULATIONS OF THE SUBTERRANEAN RODENT *CTENOMYS TALARUM*.** Ana Paula Cutrera¹ and Eileen Lacey². ¹Laboratory of Ecophysiology, University of Mar del Plata, Mar del Plata, Buenos Aires, Argentina; ²Museum of Vertebrate Zoology, UC Berkeley, Berkeley, CA, USA.
- 219. ASSESSING DISTRIBUTIONS OF POCKET GOPHERS (GEOMYIDAE) IN THE DAVIS MOUNTAINS, TX.** Robert S. DeBaca^{1,2}. ¹Texas Tech University, Department of Biological Sciences, Lubbock, TX; ²Texas Tech University, The Museum, Natural Science Research Laboratory, Lubbock, TX.
- 220. CHROMOSOMES OF *SYLVILAGUS BRASILIENSIS* FROM THE PENINSULA DEL AZUERO, PANAMA.** Jonathan L. Dunnum and Jorge Salazar-Bravo. Department of Biological Sciences, Texas Tech University, Lubbock, TX.
- 221. THE GIANT TREE SQUIRREL, *RATUFA BICOLOR*, ONE OR SEVERAL SPECIES?** Katherine E. Ferrell and Richard W. Thorington. Smithsonian Institution, Washington, DC, USA.
- 222. PHYLOGENY OF PINWORMS (*SYPHACIA*) WITH A BPA OF MURIDS AND OTHER PARASITES FROM THE NEOTROPICS.** Scott L. Gardner and F. Agustín Jiménez-Ruiz. Harold W. Manter Laboratory of Parasitology, The University of Nebraska State Museum and School of Biological Sciences, The University of Nebraska-Lincoln, Lincoln, NE.
- 223. A MOLECULAR ANALYSIS OF THE MATING SYSTEM OF THE PATAGONIAN TUCO-TUCO (*CTENOMYS HAIGI*).** Rachel N. Graziani and Eileen A. Lacey. Museum of Vertebrate Zoology and Department of Integrative Biology, University of California, Berkeley, CA, USA.
- 224. A REMOTE BIOPSY SYSTEM TO SAMPLE STELLER SEA LION BLUBBER.** L. K. Hoberecht¹, D. J. Vos² and G. R. VanBlaricom¹. ¹WACFWRU, School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA; ²National Marine Fisheries Services, NOAA.
- 225. ENVIRONMENTAL VARIABLES AND PATTERNS OF MAMMAL SPECIES RICHNESS AT THREE MESOSCALES.** Matthew E. Hopton and Guy N. Cameron. Department of Biological Sciences, University of Cincinnati, Cincinnati, OH.
- 226. FACTORS AFFECTING THE DISTRIBUTION AND USE OF DUSKY-FOOTED WOODRAT (*NEOTOMA FUSCIPES*) HOUSES.** Robin J. Innes¹, James A. Wilson¹, Dirk H. Van Vuren¹, Douglas A. Kelt¹ and Michael B. Johnson². ¹Wildlife, Fish and Conservation Biology Department, University of California, Davis, CA, USA; ²John Muir Institute of the Environment, University of California, Davis, CA, USA.
- 227. IRRUPTION OF A COLONIZING SIKA DEER POPULATION.** Koichi Kaji¹, Hideaki Okada², Masami Yamanaka², Hiroyuki Matsuda³ and Tsuneaki Yabe⁴. ¹Hokkaido Institute of Environmental Sciences, Sapporo, Hokkaido; ²Shiretoko Nature Foundation, Shari-cho, Hokkaido, Japan; ³Ocean Research Institute, Tokyo University, Minamidai, Tokyo, Japan; ⁴Kyushu Research Center, Forestry and Forest Products Research Institute, Kurokami, Kumamoto, Japan.
- 228. SMALL MAMMALS AND SEASONAL FIRES: SPECIES RESPONSES TO POST-FIRE CONDITIONS.** Glennis A. Kaufman¹, Donald W. Kaufman¹, Ryan L. Rehmeier¹, Aaron W. Reed¹, Brock R. McMillan² and Raymond S. Matlack³. ¹Division of Biology, Kansas State University, Manhattan, Kansas; ²Department of Biological Sciences, Minnesota State University, Mankato, Minnesota; ³Department of Life, Earth, & Environmental Sciences, West Texas A&M University, Canyon, Texas.
- 229. EFFECTS OF TOPOGRAPHY ON MOVEMENTS OF NORTH AMERICAN ELK.** John G. Kie^{1,2}, Alan A. Ager¹ and R. T. Bowyer^{2,3}. ¹United States Forest Service, Pacific Northwest Research Station, La Grande, Oregon, USA; ²Institute of Arctic Biology, Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, Alaska, USA; ³Department of Biological Sciences, Idaho State University, Pocatello, Idaho, USA.
- 230. USING MUSEUM RECORDS TO CREATE A PREDICTIVE GIS MODEL OF POTENTIAL *NEOTOMA CINEREA* HABITAT.** Tracey A. King¹, Thomas Windholz² and Marjorie D. Matocq¹. ¹Department of Biological Sciences, Idaho State University, Pocatello, Idaho; ²GIS Center, Idaho State University, Pocatello, Idaho.
- 231. THE NEW GUINEA SINGING (WILD) DOG.** Janice A. Koler-Matznick¹, Bonnie C. Yates², I. L. Brisbin³, Susan Bulmer⁴ and Mark Feinstein⁵. ¹The New Guinea Singing Dog Conservation Society, USA, Central Point, OR, USA; ²USFWS National Wildlife Forensic Laboratory, Ashland, OR, USA; ³Savannah River Ecology Laboratory, Aiken, SC, USA; ⁴Bulmer and Associates, Epton, Auckland, New Zealand; ⁵Hampshire College, Dept. of Cognitive Science, Amherst, MA, USA.
- 232. PATTERNS OF RELATEDNESS AMONG TERRITORIAL ADULT MALE NORTHERN FUR SEALS.** Tom Rogers¹, Courtney Zecher¹, Stephen J. Insley², Masashi Kiyota³ and Stacey L. Lance¹. ¹Department of Biology, Colby College, Waterville, ME; ²Long Marine Laboratory, Institute of Marine Sciences, University of California, Santa Cruz, Santa Cruz, CA; ³National Research Institute of Far Seas Fisheries, Fisheries Research Agency, Shimizu-Orido, Shizuoka, Japan.
- 233. RIB MORPHOLOGY OF BATS IN RELATION TO THE POWER OF BIOSONAR VOCALIZATIONS.** Winston C. Lancaster¹, M. Brock Fenton², Judith Eger³ and Matina Kalcounis-Rüppell⁴. ¹California State University, Sacramento, Sacramento, CA; ²University of Western Ontario, London; ³Royal Ontario Museum, Toronto; ⁴University of North Carolina at Greensboro, Greensboro, NC.

Tuesday PM

1:30 PM - 3:00 PM

Poster Session 2 Continued

- 234.** PRELIMINARY RESULTS FOR USE OF NEWLY CREATED HABITAT BY SMALL MAMMALS. Lyndsay L. Madden, Dorothy M. Hargis and Joseph C. Whittaker. Pikeville College Department of Biology, Pikeville, Kentucky.
- 235.** THE ENIGMATIC LITTLE BROWN SQUIRRELS OF SUNDALAND (*SUNDASCIURUS*). Jennifer Leonard¹, Jesus E. Maldonado¹, Illar Muul², Katherine E. Ferrell³ and Richard W. Thorington³. ¹Genetics Program, Department of Zoology, Smithsonian Institution, Washington, DC; ²Integrated Conservation Research, Inc., Frederick, MD; ³The Division of Mammals, Department of Zoology, Smithsonian Institution, Washington, DC.
- 236.** DIFFERENTIAL ENERGETIC DEMANDS OF CHIROPTERAN MATERNITY ROOSTS AS DETERMINED BY DIET. Shauna R. Marquardt and Jerry R. Choate. Department of Biological Sciences, Sternberg Museum of Natural History, Fort Hays State University, Hays, KS, USA.
- 237.** PATTERNS OF GENETIC DIVERSITY AND ECTOPARASITE LOAD WITHIN THE *NEOTOMA FUSCIPES* -COMPLEX. Marjorie D. Matocq, Amy M. Runck and Matthew Larsen. Department of Biological Sciences, Idaho State University, Pocatello, Idaho.
- 238.** ASSESSMENT OF SEXUAL DIMORPHISM IN SHREWS (SORICIDAE). Timothy S. McCay¹ and Howard P. Whidden². ¹Department of Biology, Colgate University, Hamilton, NY, USA; ²Department of Biological Sciences, East Stroudsburg University, East Stroudsburg, PA, USA.
- 239.** ENVIRONMENTAL INFLUENCE ON REGIONAL (GAMMA) SHREW DIVERSITY IN NORTH AMERICA. Jesse D. Berman¹, Peter Scull² and Timothy S. McCay¹. ¹Department of Biology, Colgate University, Hamilton, NY, USA; ²Department of Geography, Colgate University, Hamilton, NY, USA.
- 240.** RESPONSE OF BAILEY'S WOODRAT TO A FIRE MANAGEMENT REGIME. David A. McCullough. Wartburg College, Waverly, IA.
- 241.** NUCLEAR BETA-FIBRINOGEN INTRON 7 IN HETEROMYIDS AND OTHER RODENTS: A ROLE IN PHYLOGENETIC STUDIES AT SEVERAL LEVELS? Mark L. McKnight and John M. Pugh. Department of Biology, Southwest Missouri State University, Springfield, Missouri, USA.
- 242.** LIVING IN CHORNOBYL: EFFECTS OF MULTIGENERATIONAL EXPOSURE TO ENVIRONMENTAL RADIATION ON MICROSATELLITE AND MINISATELLITE VARIATION IN NATIVE RODENTS. Heather Meeks¹, Genevieve Kendall¹, Jeff Wickliffe², Mary Maltbie³, Steve Hooper¹, Brenda Rodgers⁴, Ron Chesser¹ and Robert Baker¹. ¹Department of Biology and the Museum, Texas Tech University, Lubbock, TX; ²Department of Preventive Medicine and Community Health, University of Texas Medical Branch, Galveston, TX; ³Therion International, Saratoga Springs, NY; ⁴Department of Life, Earth and Environmental Sciences, West Texas A&M University, Canyon, TX.
- 243.** CLIMATE CHANGE AND SPRING BREEDING BY DEER MICE IN THE KANANASKIS VALLEY, 1985-2003. John S. Millar¹ and Emily J. Herdman². ¹Department of Biology, University of Western Ontario, London, Ontario, Canada; ²Department of Biology, University of Western Ontario, London, Ontario, Canada.
- 244.** PHYLOGEOGRAPHY OF RACCOONS (*PROCYON LOTOR*) ON THE VIRGINIA BARRIER ISLANDS. Nancy D. Moncrief¹, Ronald A. Van Den Bussche² and Raymond D. Dueser^{1,3}. ¹Virginia Museum of Natural History, Martinsville, VA, USA; ²Department of Zoology, Oklahoma State University, Stillwater, Oklahoma, USA; ³Department of Forest, Range, and Wildlife Sciences, Utah State University, Logan, Utah.
- 245.** FOX SQUIRRELS IN THE LOS ANGELES CALIFORNIA METROPOLITAN AREA. Julie L. King and Alan E. Muchlinski. Department of Biological Sciences, California State University, Los Angeles, Los Angeles, CA, USA.
- 246.** SIGHTABILITY, HABITAT SELECTION, AND SEXUAL SEGREGATION OF MOOSE: IMPLICATIONS FOR MANAGEMENT. Susan A. Oehlers¹, R. Terry Bowyer¹ and David K. Person². ¹Institute of Arctic Biology, Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, AK, USA; ²Alaska Department of Fish and Game, Ketchikan, AK, USA.
- 247.** FOOD HABITS OF RED FOX, MARTEN AND COYOTE IN THE MOUNTAINS OF NORTHERN CALIFORNIA. John D. Perrine and Reginald H. Barrett. Department of Environmental Science, Policy and Management, Berkeley, CA.
- 248.** IDENTIFICATION OF NORTH AMERICAN BATS FROM FRAGMENTARY EVIDENCE RECOVERED FROM BAT/AIRCRAFT COLLISIONS. Suzanne C. Peurach. USGS Patuxent Wildlife Research Center, Division of Mammals, National Museum of Natural History, Smithsonian Institution, Washington, DC.
- 249.** IMPROVEMENTS TO SCAT ANALYSIS: A CAPTIVE FEEDING STUDY WITH PACIFIC HARBOR SEALS. Elizabeth M. Phillips and James T. Harvey. Moss Landing Marine Laboratories, Moss Landing, CA, USA.
- 250.** LIMITED DENSITY-DEPENDENCE IN YELLOW-BELLIED MARMOTS. Orlando A. Schwartz¹ and Kenneth B. Armitage². ¹Department of Biology, University of Northern Iowa, Cedar Falls, IA, USA; ²Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS, USA.

1:30 PM - 3:00 PM

Poster Session 2 Continued

- 251. HOME RANGE ESTIMATION FROM GPS COLLARS: HOW MANY LOCATIONS ARE ENOUGH?** Krysten L. Schuler¹, Jonathan A. Jenks¹ and Daniel E. Roddy². ¹South Dakota State University, Dept. of Wildlife and Fisheries Sciences, Brookings, SD, USA; ²Wind Cave National Park, Hot Springs, SD, USA.
- 252. EFFICACY OF THERMOCHRON IBUTTONS FOR ASSESSMENT OF NEST BOX OCCUPANCY BY SCIURIDS.** Joanna Lee, Sarah Booth, John S. Scheibe, Jonathon Freezer and Kathleen Meere. Department of Biology, Southeast Missouri State University, Cape Girardeau, Missouri, USA.
- 253. THE KINETICS OF LAUNCHING AND LANDING IN NORTHERN FLYING SQUIRRELS (*GLAUCOMYS SABRINUS*).** Shobnom Ferdous, Danielle Birdsill and John S. Scheibe. Department of Biology, Southeast Missouri State University, Cape Girardeau, Missouri, USA.
- 254. THE IMPLICATIONS OF PELVIC DIMORPHISM IN THE CARNIVORA.** Heidi Schutz. Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, Boulder, CO.
- 255. MOLECULAR IDENTIFICATION AND PHYLOGENY OF *SOREX* SHREWS FROM CALIFORNIA.** Hanna E. Shohfi, Chris J. Conroy, James L. Patton and Craig Moritz. Museum of Vertebrate Zoology, University of California, Berkeley, CA, USA.
- 256. PHYLOGENETIC RELATIONSHIPS WITHIN THE GENUS *NEOTOMA*: IMPLICATIONS FOR THE EVOLUTION OF VARIATION IN EXTERNAL GENITALIA.** Quinn R. Shurtliff and Marjorie D. Matocq. Department of Biological Sciences, Idaho State University, Pocatello, ID, USA.
- 257. THE SOUTH ADVANCES, THE NORTH RETREATS: CHANGES IN THE DISTRIBUTION OF MICHIGAN'S FLYING SQUIRRELS.** Robert R. Skillen¹, Barbara L. Lundrigan¹, Philip Myers² and Kelly F. Millenbah¹. ¹Michigan State University, East Lansing, MI; ²University of Michigan Museum of Zoology, Ann Arbor, MI.
- 258. SAN DIEGO COUNTY MAMMAL ATLAS.** Wayne D. Spencer¹, Jay Diffendorfer², Scott Tremor³ and Greg Nichols⁴. ¹Conservation Biology Institute, San Diego, CA, USA; ²Department of Biology, San Diego State University, San Diego, CA, USA; ³San Diego Museum of Natural History, San Diego, CA, USA; ⁴Technology Associates International Corporation, San Diego, CA, USA.
- 259. THE EFFECT OF TAIL MORPHOLOGICAL VARIATION ON CHIROPTERAN FLIGHT CAPABILITY.** Maryalice H. Walker and Virginia Hayssen. Smith College, Northampton, Massachusetts.
- 178. THE TINY GIANT: DISJUNCTION IN EVOLUTIONARY SIZE CHANGE OF A CENTRAL AMERICAN SHREW.** Neal Woodman. USGS Patuxent Wildlife Research Center, National Museum of Natural History, Smithsonian Institution, Washington, DC, USA.
- 260. HARBOR SEAL MOVEMENTS IN THE ALSEA ESTUARY, OREGON.** Bryan E. Wright¹, Robin F. Brown¹, Susan D. Riemer² and Aicha M. Ougzin³. ¹Oregon Dept. of Fish and Wildlife, Corvallis, OR; ²Oregon Dept. of Fish and Wildlife, Gold Beach, OR; ³Suisun City, CA.
- 261. GENETIC DIVERSITY AND PHYLOGENETIC STRUCTURE OF *PEROMYSCUS* MICE IN YOSEMITE NATIONAL PARK.** Dou-Shuan Yang, Christopher J. Conroy, James L. Patton and Craig Moritz. Museum of Vertebrate Zoology, University of California - Berkeley, Berkeley, CA.

3:00 PM - 3:15 PM

Break/Refreshments/Vendors: University Center, Karshner Lounge

3:15 PM - 5:30 PM

Concurrent Technical Session 7

Conservation 4
Session Chair: Dave Onorato
University Center
Kate Buchanan Room

3:15 PM. 262. ASSESING CONSERVATION STATUS OF MEXICAN ENDEMIC MAMMALS USING ECOLOGICAL NICHE MODELING. Víctor Sánchez-Cordero¹, Patricia Illoldi², Miguel Linaje³, Town Peterson⁴ and Sahotra Sar-

kar⁵. ¹Departamento de Zoología, Instituto de Biología, UNAM. Apto. Postal 70.153, México DF. 04510 Mexico., Mexico City, DF, Mexico; ²Departamento de Zoología, Instituto de Biología, UNAM. Apto. Postal 70.153, México DF. 04510 Mexico, Mexico City, DF, Mexico; ³Departamento de Zoología, Instituto de Biología, UNAM. Apto. Postal 70.153, México DF. 04510 Mexico, Mexico City, DF, Mexico; ⁴Natural History Museum and Biodiversity Research

Center, The University of Kansas, Lawrence, KS, USA; ⁵Section of Integrative Biology and Department of Philosophy, University of Texas at Austin, Austin, TX.

3:30 PM. 263. CAMERA-TRAPPING AS A TOOL FOR MONITORING LARGE MAMMALS IN LACANDONA TROPICAL FOREST, CHIAPAS, MEXICO. Danae Azuara-Santiago and Rodrigo A. Medellín. Chiapas, Mexico.

3:15 PM - 5:30 PM

Concurrent Technical Session 7 Continued

3:45 PM. 264. THE EFFECT OF HUMAN DISTURBANCE ON CONDITION MEASURES IN *NEOTOMA MICROPUS*. Jill D. Miller and Diane M. Post. Department of Science and Mathematics, University of Texas - Permian Basin, Odessa, TX, USA.

4:00 PM. 265. INTEGRATING ECOLOGICAL AND SOCIOECONOMIC DATA FOR SPECIES AND HABITAT CONSERVATION. Anita T. Morzillo and Jianguo Liu. Department of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan, USA.

4:15 PM. 266. EFFECTS OF HABITAT ATTRIBUTES ON COMPETITION BETWEEN ENDANGERED SAN JOAQUIN KIT FOXES AND COYOTES IN CALIFORNIA. Julia L. Nelson, Brian L. Cypher and Curtis D. Bjurlin. Endangered Species Recovery Program, Bakersfield, CA.

4:30 PM. 267. PATERNITY ASSIGNMENT AND RELATEDNESS IN A POPULATION OF COUGARS IMPACTED BY HEAVY HUNTING PRESSURE. Dave P. Onorato¹, Rich DeSimone² and Lisette P. Waits¹. ¹Department of Fish and Wildlife Resources, University of Idaho, Moscow, ID, USA; ²Montana Fish, Wildlife, and Parks Department, Helena, MT, USA.

4:45 PM. 268. PATCH SHAPE, POPULATION DYNAMICS, AND THE FIXATION OF ALLELES. John L. Orrock¹ and Brent J. Danielson². ¹Ecology and Evolutionary Biology Interdepartmental Program, Iowa State University, Ames, IA, USA; ²Ecology, Evolution, and Organismal Biology Department, Iowa State University, Ames, IA.

5:00 PM. 269. FLAWED INFERENCES ABOUT THE FLORIDA PANTHER: THE IMPORTANCE OF SOUND SCIENCE IN ENDANGERED SPECIES MANAGEMENT. Howard Quigley^{1,2}, Paul Beier³, Michael J. Conroy⁴ and Michael R. Vaughan⁵. ¹Global Carnivore Program, Wildlife Conservation Society, Bronx, New York; ²current address:, Beringia South, P.O. Box 160, Kelly, WY; ³School of Forestry, Northern Arizona University, Flagstaff, AZ; ⁴US Geological Survey Georgia Cooperative Fish and Wildlife Research Unit, Warnell School of Forest Resources, University of Georgia, Athens, GA; ⁵US Geological Survey Virginia Cooperative Fish and Wildlife

Research Unit, Department of Fisheries and Wildlife Sciences, Virginia Tech, Blacksburg, VA.

5:15 PM. 270. SURVEYING APPROACH FOR RARE SPECIES: HABITAT PRIORITY MODELING FOR PYGMY RABBITS. Janet L. Rachlow¹ and Leona K. Svancara^{1,2}. ¹Dept. of Fish and Wildlife Resources, University of Idaho, Moscow, Idaho, USA; ²Inventory and Monitoring Program, National Park Service, Moscow, Idaho, USA.

Systematics/Zoogeography 4
Session Chair: Ronald Van Den Bussche
Nelson Hall East
Goodwin Forum

3:15 PM. 271. DIVERSITY AND DISTRIBUTION PATTERNS OF THE SMALL NON-VOLANT MAMMALS FROM THE BRAZILIAN CERRADO. Ana Paula Carmignotto. Museu de Zoologia da Universidade de Sao Paulo, Avenida Nazare, 481 - Ipiranga, Sao Paulo, SP, Brasil.

3:30 PM. 272. MOLECULAR PHYLOGEOGRAPHY OF *MUSTELA FRENATA* ACROSS ITS RANGE, USING MITOCHONDRIAL DNA SEQUENCES. Larisa E. Harding. Museum of Southwestern Biology, UNM Biology Department, University of New Mexico, Albuquerque, New Mexico, USA.

3:45 PM. 273. USE OF THE VICARIANCE MODEL OF BIOGEOGRAPHY AS A HEURISTIC TOOL. Lawrence R. Heaney. Field Museum of Natural History, Chicago, IL, USA.

4:00 PM. 274. LANDSCAPE FACTORS AFFECTING THE DISPERSAL OF POCKET GOPHERS IN KANSAS. Justin D. Hoffman¹ and Jerry R. Choate². ¹Department of Biology, Fort Hays State University, Hays, Kansas; ²Sternberg Museum of Natural History, Fort Hays State University, Hays, Kansas.

4:15 PM. 275. RANGE EXTENSIONS OF MAMMALIAN SPECIES IN NORTHERN MINNESOTA. Frederick J. Jannett¹, Michael R. Broschart^{2,3}, Leland H. Grim² and James P. Schaberl^{2,4}. ¹Department of Fisheries, Wildlife and Conservation Biology, University of Minnesota, St. Paul, MN, USA; ²Voyageurs National Park, International Falls, MN; ³pre-

sent address, U.S. Fish and Wildlife Service, Pierre, SD; ⁴present address, Mount Rainier National Park, Ashford, WA.

4:30 PM. 276. WINTER ENERGETICS AND NORTHERN DISTRIBUTION OF VIRGINIA OPOSSUMS. L. Leann Kanda. Organismic and Evolutionary Biology Graduate Program, University of Massachusetts, Amherst, MA.

4:45 PM. 277. GENETIC STRUCTURE AND HISTORICAL BIOGEOGRAPHY OF DISJUNCT AND DECLINING POPULATIONS OF WESTERN GRAY SQUIRRELS IN WASHINGTON. G. J. Kenagy¹, Xiaoguang Zheng¹, Brian S. Arbogast¹, Janie Booth¹, Jeff Bradley¹, Mary Linders² and Kenneth Warheit². ¹Burke Museum and Department of Biology, University of Washington, Seattle, WA, USA; ²Washington Department of Fish & Wildlife, Olympia, WA, USA.

5:00 PM. 278. SELECTION OF SETTLEMENT LOCATION BY DISPERSING WASHINGTON GROUND SQUIRRELS. Kimberly J. Klein^{1,2}, Robert G. Anthony^{1,2} and Gail S. Olson^{1,2}. ¹Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University, Corvallis, Oregon, USA; ²Department of Fisheries and Wildlife, Oregon State University, Corvallis, Oregon, USA.

5:15 PM. 279. MOLECULAR PHYLOGENETIC ANALYSIS OF BIG-EARED BATS, GENUS *HISTIOTUS* (CHIROPTERA: VESPERTILIONIDAE) IN ARGENTINA, WITH SPECIAL EMPHASIS ON *HISTIOTUS MACROTUS*. Ronald A. Van Den Bussche¹, Jay Roop¹, Sarah E. Weyandt¹, Janet K. Braun² and Michael A. Mares^{2,3}. ¹430 Life Sciences West, Department of Zoology, Oklahoma State University, Stillwater, OK, USA; ²Sam Noble Oklahoma Museum of Natural History, Norman, OK, USA; ³Department of Zoology, University of Oklahoma, Norman, OK.

Population Ecology 3
Session Chair: Winston Smith
Van Duzer Theater

3:15 PM. 280. SURVIVAL AND CAUSE-SPECIFIC MORTALITY IN PRONGHORN FAWNS IN WESTERN SOUTH DAKOTA. Christopher N. Jacques and Jonathan A. Jenks. Depart-

3:15 PM - 5:30 PM

Concurrent Technical Session 7 Continued

ment of Wildlife and Fisheries Sciences, South Dakota State University, Brookings, South Dakota, USA.

3:30 PM. 281. GENETIC MATERNAL EFFECTS AND THE POTENTIAL FOR INTERNALLY DRIVEN POPULATION CYCLES. Andrew G. McAdam. Department of Ecology and Evolutionary Biology, University of California, Santa Cruz, Santa Cruz, CA, USA.

3:45 PM. 282. ECOLOGICAL CORRELATES OF MICROHABITAT USE AND DENSITY OF *CLETHRIONOMYS GAPPERI WRANGELI* AND *PEROMYSCUS KEENI MACRORHINUS* IN SOUTHEASTERN ALASKA. Winston P. Smith¹, Scott M. Gende² and Jeffrey V. Nichols¹. ¹USDA Forest Service, Pacific Northwest Research Station, Forestry Sciences Laboratory, Juneau, Alaska, USA; ²National Park Service, Glacier Bay Field Station, Juneau, Alaska, USA.

4:00 PM. 283. PATTERNS OF EXTINCTION IN PRAIRIE-DOG METAPOPULATIONS: PLAGUE OUTBREAKS FOLLOW EL NIÑO EVENTS. Paul Stapp¹, Michael F. Antolin² and Mark Ball³. ¹Department of Biological Science, California State Univer-

sity, Fullerton, CA, USA; ²Department of Biology, Colorado State University, Fort Collins, CO, USA; ³USDA Forest Service Pawnee National Grasslands, Greeley, CO.

4:15 PM. 284. HOME RANGE CHARACTERISTICS OF COUGARS IN THE BLACK HILLS OF SOUTH DAKOTA AND WYOMING. Daniel J. Thompson, Jonathan A. Jenks and Dorothy M. Fecske. Department of Wildlife and Fisheries Sciences, South Dakota State University, Brookings, SD, USA.

4:30 PM. 285. CONTRASTING GROUPING PATTERNS OF A COLONIZING POPULATION OF ROCKY MOUNTAIN ELK (*CERVUS ELAPHUS*) IN A HETEROGENEOUS LANDSCAPE. David Walter¹, David M. Leslie² and Jonathan A. Jenks³. ¹Oklahoma Cooperative Fish and Wildlife Research Unit, Oklahoma State University, Stillwater, Oklahoma, USA; ²USGS Biological Resources Division, Oklahoma Cooperative Fish and Wildlife Research Unit, Oklahoma State University, Stillwater, Oklahoma, USA; ³Department of Wildlife and Fisheries Sciences, South Dakota State University, Brookings, SD, USA.

4:45 PM. 286. FACTORS INFLUENCING THE ABUNDANCE OF TWO SYMPATRIC VOLES IN THE SACRAMENTO MOUNTAINS, NEW MEXICO. James P. Ward¹ and William M. Block². ¹Rocky Mountain Research Station, Alamogordo, NM; ²Rocky Mountain Research Station, SW Forestry Sciences Complex, Flagstaff, AZ.

5:00 PM. 287. LONG-TERM SPATIAL AND DEMOGRAPHIC PATTERNS OF COYOTES IN SOUTH TEXAS. Julie K. Young¹, William F. Andelt² and John A. Shivik^{1,3}. ¹Department of Forestry, Range, and Wildlife Sciences, Utah State University, Logan, UT, USA; ²Department of Fisheries and Wildlife Sciences, Colorado State University, Fort Collins, CO, USA; ³National Wildlife Research Center, Wildlife Services-APHIS-USDA, Logan, UT, USA.

5:15 PM. 288. MICROCLIMATIC CHARACTERISTICS OF ENDANGERED MT. GRAHAM RED SQUIRREL MIDDENS AND THEIR EFFECT ON CONE STORAGE. Meghan A. Yurenka and John L. Koprowski. University of Arizona, Wildlife and Fisheries Sciences, Tucson, AZ.

6:30 PM - 9:00 PM

Banquet: Arcata Community Center

9:00 PM - 11:00 PM

Auction: Arcata Community Center

Wednesday, June 16

7:00 AM - 8:30 AM

Breakfast: Jolly Giant Cafeteria

8:00 AM - 11:00 PM

Housing Check In/Check Out: Jolly Giant Commons 1st Floor

8:00 AM - 10:00 AM

Symposium: Session Chair: John Yunger, Van Duzer Theater

Habitat Loss and Fragmentation.

8:00 AM. 289. FROM UNDERSTANDING FRAGMENTATION TO ACTING AGAINST THE BIODIVERSITY CRISIS: FOREST RODENTS AS A MODEL. Eric Le Boulengé. Biodiversity Research Centre, Université catholique de Louvain, Belgium.

8:30 AM. 290. POPULATION AND COMMUNITY ECOLOGY OF SQUIRRELS ON AN URBAN-RURAL GRADIENT. Michael A. Bowers. Department of Environmental Sciences, University of Virginia, Boyce, VA.

9:00 AM. 291. BEHAVIORAL AND DIETARY ADAPTABILITY AND THE FATE OF MAMMALIAN CARNIVORES IN URBAN AREAS. Seth P.D. Riley. Santa Monica Mountains National Recreation Area, National Park Service, Thousand Oaks, CA.

9:30 AM. 292. VARIATION IN MAMMALIAN ABUNDANCE ALONG AN URBAN-RURAL GRADIENT. John A. Yunger. Environmental Biology Program, Governors State University, University Park, IL, USA.

8:00 AM - 10:00 AM

Concurrent Technical Session 8

Behavior 3
Session Chair: Sacha Vignieri
Nelson Hall East
Goodwin Forum

8:00 AM. 293. ACTIVITY PATTERNS OF LACTATING SILVER-HAIRED BATS ON ROOST-SHIFT NIGHTS AND NON-SHIFT NIGHTS. Burr J. Betts¹ and Maarten J. Vonhof². ¹Eastern Oregon University, La Grande, OR, USA; ²York University, Toronto, ON, Canada.

8:15 AM. 294. WAPITI BUGLES: FORM, SIGNATURE AND HONEST SIGNALING. Jennifer Johnson and Jennifer Clarke. Dept. of Biological Sciences, University of Northern Colorado, Greeley, CO, USA.

8:30 AM. 295. IMPACT OF ECOLOGY ON OLFACTORY SENSITIVITY IN MARINE AND TERRESTRIAL MAMMALS. Jennifer Hammock¹, Kenneth Lytwyn², John Dacey¹ and Darlene R. Ketten¹. ¹Woods Hole Oceanographic Institution, Woods Hole, MA; ²Oregon Coast Aquarium, Newport, OR.

8:45 AM. 296. NATAL PHILOPATRY AND KIN GROUPS IN WOODCHUCKS (*MARMOTA MONAX*). Christine R. Maher. Dept. of Biological Sciences, University of Southern Maine, Portland, ME, USA.

9:00 AM. 297. ARE RICHARDSON'S GROUND SQUIRRELS PREDATORS OF BIRD EGGS? Gail R. Michener. Biological Sciences, University of Lethbridge, Lethbridge, AB, Canada.

9:15 AM. 298. VARIATION IN MORPHOLOGY AND NUTRIENT INTAKE RELATIVE TO ALLOMETRY AND SEXUAL SEGREGATION OF WHITE-TAILED DEER. Kevin L. Monteith¹, Jonathan A. Jenks¹, Lowell E. Schmitz², Perry S. Barboza³ and R. Terry Bowyer³. ¹Department of Wildlife and Fisheries Sciences, South Dakota State University, Brookings, SD, USA; ²South Dakota Department of Game, Fish and Parks, Rapid City, SD, USA; ³Institute of Arctic Biology and Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, SD, USA.

9:30 AM. 299. ECOLOGY OF AN UNEXPLOITED POPULATION OF COYOTES IN CENTRAL CALIFORNIA. M. Paloma Nieto¹, Nancy Francine² and Jon Francine¹. ¹SRS Technologies, 105 North H Street, Lompoc, CA; ²Vandenberg Air Force Base, Vandenberg AFB, CA.

9:45 AM. 300. WAPITI BUGLE COMPLEXITY: DIFFERENT MESSAGES TO DIFFERENT GENDERS? Lisa A. Rinker and Jennifer A. Clarke. Department of Biological Sciences, University of Northern Colorado, Greeley, Colorado.

Genetics/Evolution 3
Session Chair: Karen McBee
University Center
Kate Buchanan Room

8:00 AM. 301. MOLECULAR ECOTOXICOLOGY AND THE DISCOVERY THAT *APODEMUS SYLVATICUS* IS COMPOSED OF AT LEAST TWO WIDE SPREAD SPECIES. Yelena V. Dunina-Barkovskaya¹, Jeffrey K. Wickliffe², Brenda E. Rodgers³, Carleton J. Phillips¹, Ronald K. Chesser¹, Mitsuhiro Asakawa⁴, Sergey Gaschak⁴ and Robert J. Baker¹. ¹Department of Biological Science, Texas Tech University, Lubbock, TX, USA; ²Department of Preventive Medicine and Community Health, University of Texas Medical Branch Galveston, Galveston, TX, USA; ³Department of Life, Earth & Environmental Sciences, West Texas A&M University, Canyon, TX, USA; ⁴Dept. of Parasitology, School of Veterinary Medicine, Rakuno Gakuen University, Ebetsu, Hokkaido, Japan.

8:15 AM. 302. SLOTH, ANTEATER, AND ARMADILLO BIOMECHANICS: ANALYZING XENARTHAN EVOLUTIONARY RELATIONSHIPS THROUGH MODALITY. Barbara J. Edmunds¹ and Luis A. Ruedas^{1,2}. ¹Department of Biology, Portland State University, Portland, OR, USA; ²Museum of Vertebrate Biology, Portland State University, Portland, OR.

8:30 AM. 303. MICROSATELLITE ANALYSIS OF REGIONAL AND LOCAL GENE DYNAMICS ACROSS ELK POPULATIONS IN THE WEST. Jason

Hicks¹, Janet L. Rachlow¹, Olin E. Rhodes², Lisette P. Waits¹ and Christen L. Williams³. ¹Department of Fish and Wildlife Resources, University of Idaho, Moscow, ID, USA; ²Department of Forestry and Natural Resources, Purdue University, West Lafayette, IN, USA; ³USDA, Wildlife Services, National Wildlife Research Center, Fort Collins, CO, USA.

8:45 AM. 304. HISTORICAL RANGE EXPANSION AND DEMOGRAPHICS OF MOOSE: A ROLE FOR HOLOCENE CLIMATE REVERSALS? Kris J. Hundertmark^{1,2}, R. Terry Bowyer^{1,3} and Gerald F. Shields^{1,4}. ¹Institute of Arctic Biology and Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, AK, USA; ²Present address: Zoological Society of London, King Khalid Wildlife Research Centre, Riyadh, Saudi Arabia; ³Present address: Dept. of Biological Sciences, Idaho State University, Pocatello, ID, USA; ⁴Present address: Department of Natural Sciences, Carroll College, Helena, MT, USA.

9:00 AM. 305. GENOME SIZE IN SCIUROGNATH RODENTS: SOME SURPRISES. Karen McBee¹, Kimberly A. Hays¹, Russell S. Pfau² and Greg M. Wilson³. ¹Department of Zoology and Collection of Vertebrates, Oklahoma State University, Stillwater, OK; ²Department of Biological Sciences, Tarleton State University, Stephenville, TX; ³Department of Biology, University of Central Oklahoma, Edmond, OK.

9:15 AM. 307. THE IMPACT OF GLOBAL CLIMATE CHANGE ON THE POPULATION GENETIC STRUCTURE OF PIKAS (*OCHOTONA PRINCEPS*). Susan Merideth, Mary M. Peacock and Peter F. Brussard. University of Nevada, Reno, Reno, Nevada.

9:30 AM. 308. PHYLOGEOGRAPHY AND POPULATION GENETICS OF *CANIS LUPUS* IN THE PACIFIC NORTHWEST. Byron V. Weckworth¹, Sandra L. Talbot², George K. Sage² and Joseph A. Cook². ¹Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI, USA; ²Alaska Science Center, US Geological Survey, Anchorage, AK, USA.

10:00 AM - 10:15 AM

Break/Refreshments/Vendors: University Center, Karshner Lounge

10:15 AM - 12:00 PM

Concurrent Technical Session 9

Morphology
Session Chair: Stuart Landry
Van Duzer Theater

10:15 AM. 310. ORIGIN OF THE SUPERFICIAL MASSETER IN GLIRES; DIFFERENCE BETWEEN SIMPLICIDENTATA AND DUPLICIDENTATA. Stuart O. Landry. Department of Biology SUNY, State University of New York, Binghamton, NY, USA.

10:30 AM. 311. FORELIMB MORPHOLOGY AND FUNCTION IN THE BLACK-FOOTED FERRET, *MUSTELA NIGRIPES*. Virginia Naples^{1,2}. ¹Division of Vertebrate Zoology, Osteoprep Laboratory, National Museum of Natural History, Washington, D.C. ²Department of Biological Sciences, Northern Illinois University, DeKalb, Illinois.

10:45 AM. 312. MORPHOLOGICAL CHANGES TO BLACK-FOOTED FERRETS (*MUSTELA NIGRIPES*) RESULTING FROM CAPTIVITY. John J. Ososky¹, Samantha M. Wisely² and Steven W. Buskirk³. ¹Department of Vertebrate Zoology, Smithsonian Institution, Washington, DC; ²Department of Biology, Kansas State University, Manhattan, KS; ³Department of Zoology and Physiology, University of Wyoming, Laramie, WY.

11:00 AM. 313. *NIVIVENTER CONFUCIANUS* AND *N. FLAVESCENS* - CRANIOMETRIC CONSIDERATIONS ON A COLLECTION FROM THE LATE 1930S. Clara Stefen. Museum für Tierkunde, Staatliche Naturhistorische Sammlungen Dresden, Königsbrücker Landstr. 159, 01109 Dresden, Germany.

11:15 AM. 314. FROM CAPTIVITY TO THE WILD: FURTHER CHANGES IN BLACK-FOOTED FERRET MORPHOLOGY. Samantha M. Wisely¹, Rachel M. Santymire², Paul Marinari³, Julie Kreeger³, Travis M. Livieri⁴, David E. Wildt² and JoGayle Howard². ¹Division of Biology, Kansas State University, Manhattan, KS, USA; ²Department of Reproductive Sciences, National Zoological Park, Washington, DC, USA; ³National Black-Footed Ferret Conservation Center, Laramie, WY, USA; ⁴Prairie Wildlife Research, Wall, SD, USA.

11:30 AM. 315. VARIATION IN GASTROINTESTINAL MORPHOLOGY OF DEER: EFFECTS OF FIRE, YEAR, AND SEASON. Teresa J. Zimmerman¹,

Jonathan A. Jenks¹ and David M. Leslie². ¹Department of Wildlife and Fisheries Sciences, South Dakota State University, Brookings, SD, USA; ²Oklahoma Cooperative Fish and Wildlife Research Unit, Oklahoma State University, Stillwater, OK, USA.

Marine Mammals 2
Session Chair: Daniel Odell
University Center
Kate Buchanan Room

10:15 AM. 316. POPULATION ASSESSMENT OF WESTERN NORTH PACIFIC GRAY WHALES (*ESCHRICHTIUS ROBUSTUS*). Amanda L. Bradford^{1,4}, Paul R. Wade², David W. Weller^{3,4}, Alexander M. Burdin^{5,6}, Glenn R. VanBlaricom¹ and Robert L. Brownell⁷. ¹Washington Cooperative Fish and Wildlife Research Unit, School of Aquatic and Fishery Sciences, University of Washington, Seattle, Washington, USA; ²Marine Mammal Research Program, Texas A&M University at Galveston, Galveston, TX, USA; ³National Marine Mammal Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Seattle, Washington, USA; ⁴Southwest Fisheries Science Center, NMFS, NOAA, La Jolla, California, USA; ⁵Kamchatka Branch of Pacific Institute of Geography, Far East Branch of the Russian Academy of Sciences, Kamchatka, Russia, Russia; ⁶Alaska SeaLife Center, Seward, Alaska, USA; ⁷Southwest Fisheries Science Center, NMFS, NOAA, Pacific Grove, California, USA.

10:30 AM. 317. MAMMALIAN RESPONSES TO A CHANGING ENVIRONMENT: AN ISOTOPIC STUDY OF STELLER SEA LIONS. Pieter A.P. deHart¹ and Matthew J. Wooller^{1,2}. ¹Institute of Marine Science, School of Fisheries & Ocean Sciences, University of Alaska Fairbanks, Fairbanks, AK; ²Alaska Stable Isotope Facility, Water & Environmental Research Center, University of Alaska Fairbanks, Fairbanks, AK.

10:45 AM. 318. SCIENCE BY LITIGATION: A DISCUSSION OF CURRENT ISSUES AFFECTING FLORIDA MANATEE RESEARCH. Sara L. McDonald and Elsa M. Haubold. Florida Marine Research Institute, St. Petersburg, Florida, USA.

11:00 AM. 319. INDICATION OF WINTER FORAGING SUCCESS IN CRA-

BEATER SEALS (*LOBODON CARCINOPHSGUS*) USING MEASURES OF BODY COMPOSITION. Birgitte McDonald¹, Daniel Costa¹, Daniel Crocker² and Jenn Burns³. ¹Department of Ecology and Evolutionary Biology, University of California, Santa Cruz, Santa Cruz, CA; ²Biology Department, Sonoma State University, Santa Rosa, CA; ³Department of Biological Sciences, University of Alaska, Anchorage, Anchorage, AK.

11:15 AM. 320. DWARF AND PYGMY SPERM WHALE (GENUS *KOGIA*) STRANDING PATTERNS IN THE SOUTHEASTERN UNITED STATES. Daniel K. Odell¹, Nelio B. Barros² and Megan K. Stolen¹. ¹Hubbs-SeaWorld Research Institute, Orlando, FL, USA; ²Mote Marine Laboratory, Sarasota, FL, USA.

11:30 AM. 321. OCEANOGRAPHIC FEATURES ASSOCIATED WITH NORTHERN FUR SEAL MIGRATIONS IN THE NORTH PACIFIC. Rolf R. Ream, Jeremy T. Sterling and Thomas R. Loughlin. National Marine Mammal Laboratory, Alaska Fisheries Science Center, NMFS, Seattle, WA, USA.

Behavior 4
Session Chair: John Koprowski
Nelson Hall East
Goodwin Forum

10:15 AM. 322. USE OF CHEMOSENSORY CUES BY THE HISPID POCKET MOUSE, *CHAETODIPUS HISPIDUS*, TO RECOGNIZE SNAKE PREDATORS. Emily N. Ackland and Karen McBee. Dept. of Zoology, Oklahoma State University, Stillwater, OK, USA.

10:30 AM. 323. SOCIALITY FACILITATES SURVIVAL DURING ENVIRONMENTAL EXTREMES: DATA FROM COLONIAL TUCO-TUCOS. Eileen A. Lacey^{1,2} and John R. Wiczorek¹. ¹Museum of Vertebrate Zoology, University of California, Berkeley, CA, USA; ²Department of Integrative Biology, University of California, Berkeley, California.

10:45 AM. 324. PARENTAGE, BREEDING AND KINSHIP IN THE GREATER HORSESHOE BAT: INSIGHTS FROM A 10 YEAR STUDY. Stephen Rossiter^{1,2}, Chris Faulkes¹, Roger Ransome² and Gareth Jones². ¹School of Biological Sciences, Queen Mary, University of London,

10:15 AM - 12:00 PM

Concurrent Technical Session 9 Continued

London, UK; ²School of Biological Sciences, University of Bristol, Woodland Road, Bristol, UK.

11:00 AM. 325. THE EFFECT OF SUPPLEMENTAL FOOD ON MOVEMENTS OF COTTON RATS, *SIGMODON HISPIDUS*, IN NORTHEASTERN KANSAS. Norman A. Slade¹, Melissa Sulok¹ and Terry J. Doonan². ¹Natural History Museum and Department of

Ecology and Evolutionary Biology, The University of Kansas, Lawrence, KS, USA; ²Florida Fish and Wildlife Conservation Commission, Lake City, FL.

11:15 AM. 326. PRAIRIE VOLES IN EASTERN KANSAS: ARE THEY ALSO MONOGAMOUS? Nancy G. Solomon and Paula Hogan. Department of Zoology, Miami University, Oxford, OH, USA.

11:30 AM. 327. TEST OF THE FIRST COHORT ADVANTAGE HYPOTHESIS WITH FEATHERTAIL GLIDERS (*MARSUPIALIA*). Simon J. Ward. Department of Zoology, University of Melbourne, Melbourne, Victoria, Australia.

11:45 AM. 328. SEX-RELATED DIFFERENCES IN NURSING BEHAVIOR BY ROOSEVELT ELK. Greta M. Wengert. MGW Biological Surveys, Bayside, CA, USA.

11:45 AM - 1:30 PM

Lunch: Jolly Giant Cafeteria

1:30 PM - 4:00 PM

Concurrent Technical Session 10

Conservation 5
Session Chair: William Zielinski
University Center
Kate Buchanan Room

1:30 PM. 329. DISTRIBUTION AND PREVALENCE OF FACIAL TUMOR DISEASE IN TASMANIAN DEVILS. Marco Restani¹ and Nick Mooney². ¹Department of Biological Sciences, St. Cloud State University, St. Cloud, MN, USA; ²Nature Conservation Branch - DPIWE, Hobart, Tasmania, AUSTRALIA.

1:45 PM. 330. WHAT DO INDIANA MYOTIS DO WHEN THEY LOSE A ROOST? Dale W. Sparks, Christopher M. Ritzi and John O. Whitaker. Department of Life Sciences, Indiana State University, Terre Haute, Indiana.

2:00 PM. 331. CONSERVATION AND RECOVERY OF THE RIPARIAN WOODRAT UNDER PRESSURE FROM AN EXOTIC COMPETITOR, THE BLACK RAT. Karen L. Sproull^{1,2} and Patrick A. Kelly¹. ¹California State University, Stanislaus, Endangered Species Recovery Program, Fresno, CA; ²California State University, Fresno, Biology Department, Fresno, CA.

2:15 PM. 332. COUGAR-HUMAN INTERACTIONS: MOVEMENT PATTERNS AND BEHAVIOR ALONG THE URBAN-WILDLAND INTERFACE. Michael L. Wolfe and David C. Stoner. Dept. of Forest, Range, & Wildlife Sciences, Utah State University, Logan, UT, USA.

2:30 PM. 333. GENETIC EVALUATION OF AN AMERICAN MARTEN

REINTRODUCTION. L. Robert Peters and Bradley J. Swanson. Department of Biology, Central Michigan University, Mount Pleasant, MI, USA.

2:45 PM. 334. CONSERVATION AND CONTROVERSY WITH INTRODUCED BISON ON SANTA CATALINA ISLAND, CALIFORNIA. Rick A. Sweitzer¹, Juanita M. Constible² and Dirk H. Van Vuren³. ¹Department of Biology, University of North Dakota, Grand Forks, North Dakota, USA; ²School of Renewable Natural Resources, Louisiana State University, Baton Rouge, Louisiana, USA; ³Department of Wildlife, Fish, and Conservation Biology, University of California, Davis, California.

3:00 PM. 335. SELENIUM ACCUMULATION IN SMALL MAMMALS ON RETIRED AGRICULTURAL LANDS IN THE SAN JOAQUIN VALLEY, CALIFORNIA. Curtis E. Uptain¹, Stephen L. Lee², Steve R. Messer¹, Darren P. Newman¹ and Patrick A. Kelly¹. ¹California State University Stanislaus, Endangered Species Recovery Program, Fresno, Ca., USA; ²United States Bureau of Reclamation, 1243 N. Street, Fresno, Ca., USA.

3:15 PM. 336. HUMAN INTERACTIONS WITH ENDANGERED SAN JOAQUIN KIT FOXES IN BAKERSFIELD: CONSERVATION NEEDS AND OPPORTUNITIES. Christine L. Van Horn Job, Brian L. Cypher, Carie M. Wingert and Curtis D. Bjurlin. CSUS, Endangered Species Recovery Program, Bakersfield, CA.

3:30 PM. 337. COMPARING HISTORICAL AND CONTEMPORARY DIS-

TRIBUTIONS OF MESOCARNIVORES IN THE SIERRA NEVADA OF CALIFORNIA. William J. Zielinski¹, Richard L. Truex², Fredrick V. Schlexer¹ and Lori A. Campbell³. ¹Pacific Southwest Research Station, USDA Forest Service, Arcata, CA, USA; ²Pacific Southwest Region, USDA Forest Service, Porterville, CA, USA; ³Pacific Southwest Research Station, USDA Forest Service, Davis, CA, USA.

Natural History
Session Chair: Patrick Zollner
Nelson Hall East
Goodwin Forum

1:30 PM. 338. SEROSURVEY OF WILD RODENTS FOR HANTAVIRUSES IN PANAMA, 2000 — 2003. Blas Armien¹, Jorge Salazar—Bravo², Anibal Armien^{1,4}, Gerardo Suzán³, Luis A. Ruedas⁵, Juan M. Pascale¹, Fernando Gracia⁶ and Terry L. Yates⁷. ¹Instituto Conmemorativo Gorgas de Estudios en Salud, Rep. de Panamá; ²Department of Biological Sciences, Texas Tech University, Lubbock, Texas, USA; ⁴Medical School, Department of Surgery, University of Minnesota, Minnesota, USA; ³Museum of Southwestern Biology, University of New Mexico, New Mexico, USA; ⁵Department of Biology, Portland State University, Portland, OR, USA; ⁶Ministry of Health, Ancon, Rep. of Panama; ⁷Vice-Provost for Research, University of New Mexico, New Mexico, USA.

1:45 PM. 339. CHARACTERISTICS OF NEST SITES USED BY ENDANGERED MOUNT GRAHAM RED SQUIRRELS (*TAMIASCIURUS HUD-*

Wednesday PM

1:30 PM - 4:00 PM

Concurrent Technical Session 10 Continued

SONICUS GRAHAMENSIS). Sadie R. Bertelsen and John L. Koprowski. School of Renewable Natural Resources, The University of Arizona, Tucson, AZ.

2:00 PM. 340. INFLUENCE OF SEX ON SEASONAL SPACE USE IN ABERT'S SQUIRRELS. Andrew J. Edelman and John L. Koprowski. School of Renewable Natural Resources, University of Arizona, Tucson, AZ.

2:15 PM. 341. WISCONSIN WOLVES AND FREQUENT FRACTURES: CONTRIBUTIONS OF OSTEOPATHOLOGY TO NECROPSY AND NATURAL HISTORY DATA. Paula M. Holahan¹, E. Elizabeth Pillaert¹, Nancy J. Thomas² and Adrian P. Wydeven³. ¹University of Wisconsin Zoological Museum, Madison, WI; ²National Wildlife Health Center, Madison, WI; ³Wisconsin Department of Natural Resources, Park Falls, WI.

2:30 PM. 342. CROWNED EAGLE (*STEPHANOETES CORONATUS*) PREDATION ON VERVETS (*CHLOROCEBUS AETHIOPS*) IN SOUTH AFRICA. Julian Kerbis Peterhans^{1,2}, Graham Avery³ and Elizabeth Webb². ¹Roosevelt University, Chicago, IL; ²Division of Mammals, Field Museum, Chicago, IL; ³Iziko Museums, Capetown, South Africa.

2:45 PM. 343. VARIATION IN SMALL MAMMAL RICHNESS BY TRAP HEIGHT AND TRAP TYPE AT A SOUTH EASTERN AMAZONIAN SITE, WITH NOTES ON A NEW METHOD OF CANOPY TRAPPING. Thomas D. Lambert¹, Jay R. Malcolm¹ and Barbara L. Zimmerman². ¹Faculty of Forestry, University of Toronto, Toronto, ON, Canada; ²Brazil Program, Conservation International, Washington, DC, USA.

3:00 PM. 344. ACTIVITY PATTERNS AND SPATIAL ORGANIZATION OF WESTERN SPOTTED SKUNK AND STRIPED SKUNK IN WEST-CENTRAL TEXAS. Sean A. Neiswenter and Robert C. Dowler. Dept. of Biogogy, Angelo State University, San Angelo, TX, USA.

3:15 PM. 345. ADVANCES IN THE ACOUSTIC MONITORING OF BATS. Joseph M. Szewczak. Department of Biological Sciences, Humboldt State University, Arcata, CA.

3:30 PM. 346. SHIFTS IN DIET OF

THE BIG BROWN BAT (*EPTESICUS FUSCUS*). Ernest W. Valdez¹ and Thomas J. O'Shea². ¹US Geological Survey, Dept of Biology, Univeristy of New Mexico, Albuquerque, NM; ²US Geological Survey, Fort Collins Science Center, Fort Collins, CO.

3:45 PM. 347. SPATIAL SCALE OF HABITAT SELECTION BY SMALL MAMMALS IN NORTHERN WISCONSIN. Patrick A. Zollner¹, Jonathan H. Gilbert² and John L. Wright¹. ¹North Central Research Station U.S. Forest Service, Forestry Sciences Lab, Rhinelander, WI, USA; ²Great Lakes Indian Fish and Wildlife Commission, Odanah, WI, USA.

Systematics/Zoogeography 5
Session Chair: Theresa Spradling
Van Duzer Theater

1:30 PM. 348. SYSTEMATICS OF THE PETER'S TENT-MAKING BAT, *URODERMA BILOBATUM* (CHIROPTERA: PHYLLOSTOMIDAE), BASED ON MORPHOLOGICAL ANALYSES. Rene Fonseca^{1,2} and Robert J. Baker^{1,2}. ¹Department of Biological Sciences, Texas Tech University, Lubbock, TX; ²Natural Science Research Laboratory, The Museum of Texas Tech University, Lubbock, TX.

1:45 PM. 349. BIOGEOGRAPHY OF *ARTIBEUS JAMAICENSIS* IN THE CARIBBEAN: BASED ON VARIATION IN THE CYTOCHROME-B GENE. Peter A. Larsen¹, Scott C. Pedersen², Hugh H. Genoways³, Steven R. Hooper¹, Matt C. Bozeman¹, Bryan C. Carstens⁴ and Robert J. Baker¹. ¹Department of Biological Sciences, Texas Tech University, Lubbock, TX; ²Department of Biology and Microbiology, South Dakota State University, Brookings, SD; ³University of Nebraska State Museum, University of Nebraska, Lincoln, NE; ⁴Department of Biology, University of Idaho, Moscow, ID.

2:00 PM. 350. PHYLOGENETIC POSITION OF THE ENIGMATIC GENUS *RHAGOMYS* (RODENTIA: SIGMONTINAE). Guillermo D'Elia¹, Lucía Luna² and Bruce D. Patterson³. ¹Laboratorio de Evolución, Facultad de ciencias, Universidad de la República, Iguá 4225, Montevideo, Uruguay; ²University of Michigan Museum of Zoology, Ann Arbor, MI, USA; ³Field Museum of Natural

History, Department of Zoology, Chicago, IL, USA.

2:15 PM. 351. THE PHYLOGENETIC POSITION OF THE ZOKORS (MYOPALACINAE) AND COMMENTS ON THE FAMILIES OF MUROIDES (RODENTIA). Ryan W. Norris¹, Kaiya Zhou², Caiquan Zhou², Guang Yang², C. William Kilpatrick¹ and Rodney L. Honeycutt³. ¹Department of Biology, University of Vermont, Burlington, VT; ²College of Life Sciences, Nanjing Normal University, Nanjing, China; ³Department of Wildlife & Fisheries Sciences, Texas A&M University, College Station, TX.

2:30 PM. 352. EVOLUTIONARY RELATIONSHIPS AMONG PHALANGERIDS, (DIPROTODONTIA: PHALANGERIDAE), INFERRED FROM MITOCHONDRIAL DNA (12S RRNA) SEQUENCE DATA. Luis A. Ruedas^{1,2} and Juan Carlos Morales³. ¹Department of Biology, Portland State University, Portland, Oregon, USA; ²Museum of Vertebrate Biology, Portland State University, Portland, Oregon, USA; ³Center for Environmental Research and Conservation, Columbia University, New York, New York, USA.

2:45 PM. 353. HOW "HERITABLE" IS THE BODY SIZE OF THE VERY LARGEST MAMMALIAN TAXA? Felisa A. Smith¹, S. Kathleen Lyons² and S.K. Morgan Ernest¹. ¹Department of Biology, University of New Mexico, Albuquerque, NM, USA; ²National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA, USA.

3:00 PM. 354. DNA DATA SUPPORT A RAPID RADIATION OF POCKET GOPHER GENERA (RODENTIA: GEOMYIDAE). Theresa A. Spradling, Sara V. Brant^{2,3}, Mark S. Hafner² and Christopher J. Dickerson¹. ²Museum of Natural Science, Louisiana State University, Baton Rouge, LA; ³Department of Biology, University of New Mexico, Albuquerque, NM; ¹Department of Biology, University of Northern Iowa, Cedar Falls, IA.

3:15 PM. 355. SYSTEMATICS OF THE LITTLE BIG-EARED BATS (PHYLLOSTOMIDAE: *MICRONYCTERIS*) WITH COMMENTS ON A POSSIBLE UNDESCRIBED SPECIES. Steven R. Hooper¹, Chrissy A. Cline¹, Rene M. Fonseca¹, Calvin A. Porter² and Robert J. Baker¹. ¹Dept. Biol. Sci, Texas Tech

84th ASM Annual Meeting Program of Events

Univ., Lubbock, TX, USA; ²Dept. Biol., Xavier Univ., New Orleans, LA, USA.

3:30 PM. 356. BATS OF THE GENUS *LAEPHOTIS* THOMAS, 1901 (CHIROPTERA: VESPERTILIONIDAE). R. G. Trujillo¹, J. W. Bickham¹, L. L. Janecek², J. C. Patton¹, I. L. Rautenbach³ and D. A. Schlitter¹. ¹Department of Wildlife and

Fisheries Sciences, Texas A&M University, College Station, TX, USA; ²Savannah River Ecology Laboratory, Aiken, SC, USA; ³Xenocor Bioformulas (Pty) Ltd., Pretoria, Gauteng, South Africa.

3:45 PM. 357. MTDNA ANALYSIS OF THE SPECIFIC STATUS AND SYSTEMATIC AFFINITIES OF THE SAN-

TA CRUZ ISLAND MOUSE. Mindy L. Walker¹, Scott E. Chirhart², Rodney L. Honeycutt³ and Ira F. Greenbaum¹. ¹Biology Department, Texas A&M University, College Station, TX, USA; ²Wildlife and Fisheries Department, Texas A&M University, College Station, TX, USA; ³Biology Department, Centenary College, Shreveport, LA.

4:00 PM - 4:30 PM

Break/Refreshments/Vendors: University Center, Karshner Lounge

4:30 PM - 6:00 PM

Capstone Address: Van Duzer Theater

Capstone Speaker: Dr. Jim Estes

358. FROM KILLER WHALES TO KELP FORESTS: INDUSTRIAL WHALING AND THE REORGANIZATION OF OCEAN ECOSYSTEMS. James A. Estes. US Geological Survey, Long Marine Laboratory, Santa Cruz, California.

Thursday, June 17

8:00 AM - 12:00 PM

Housing Check Out: Jolly Giant Commons 1st Floor

Wednesday PM