

91st Annual Meeting
The American Society of Mammalogists



A Joint Meeting With
The Australian Mammal Society

Portland State University
24–28 June 2011

Venues are circled in red, as follows:

Lincoln Hall ⇨

Science Bldg 2 ⇨

Smith Memorial Student Union (banquet) ⇨

Hoffmann Hall ⇨

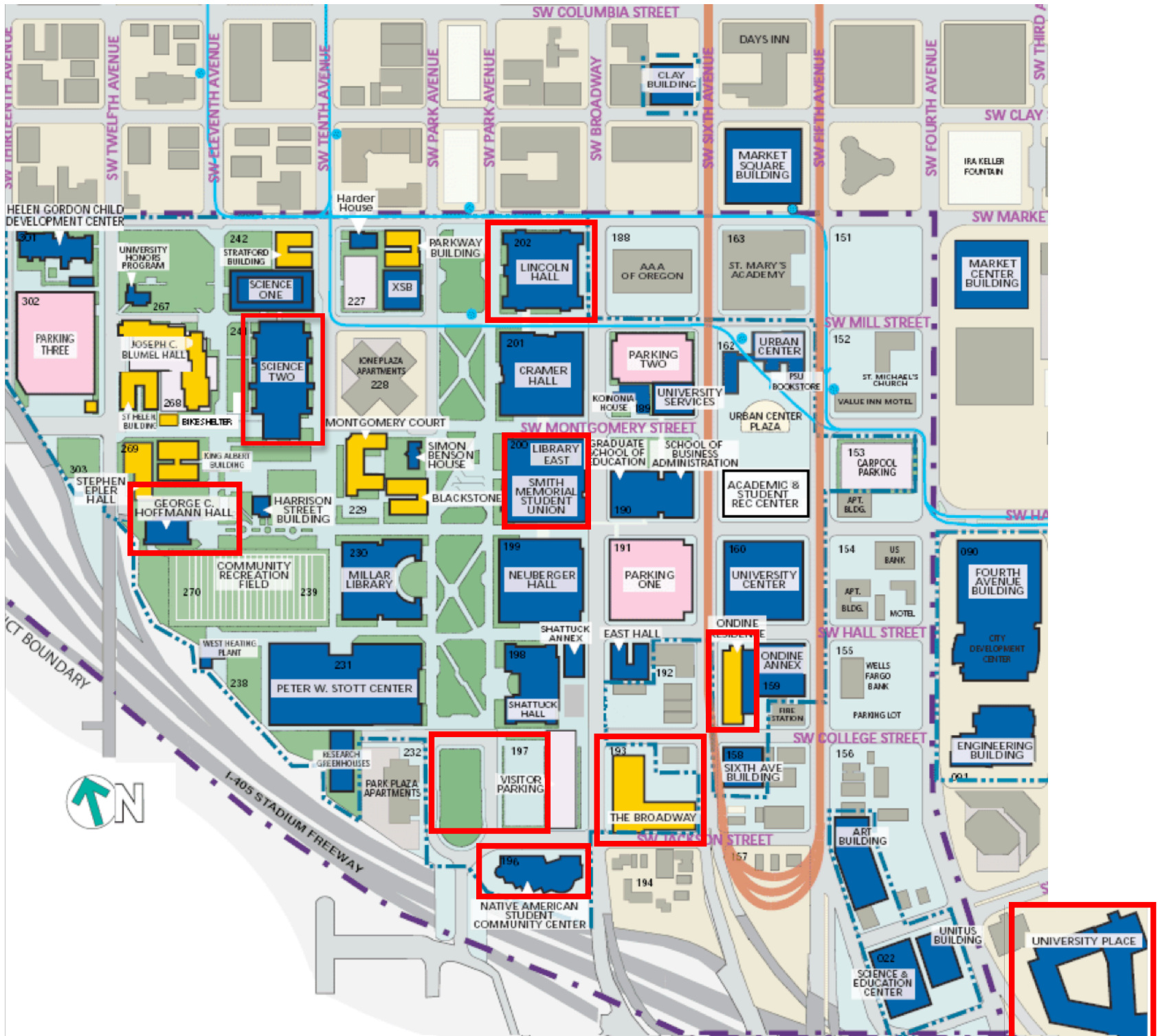
Ondine Hall ⇨

Park Blocks (picnic) ⇨

Broadway Residence Hall ⇨

Native American Student Center ⇨

University Place Hotel ⇨



Thursday 23 June

1800: Board of Director's Dinner

Friday 24 June

0800–1700: Board of Directors' Meeting; Smith Memorial Student Union, Room 238

1000–1730: Winery Tour

1200–2200: Registration; Hoffmann Hall

1830–2300: Opening Social; Hoffmann Hall

Key to symbols:

* Presenter

† Australian student candidate for the Bolliger Award (best student oral presentation—Australian Mammal Society): Jennifer Anson; Elizabeth Burgess; Jemma Cripps; Melissa Danks; Achim Eberhart; Greta Frankham; Sarah Garnick; Stephen Griffiths; Rachel Harris; Gemma Morrow; Thomas M. Newsome; Hayley Stannard; Andrew Wiewel.

¶ Australian student candidate for the Lyne Award (best student poster presentation—Australian Mammal Society): Jemma Cripps

§ Student oral or poster presentation being evaluated

Saturday 25 June

Plenary Session 1 — Lincoln Hall Auditorium

8:00		Welcome Address — Dr. Roy Koch, Provost and Vice President for Academic Affairs		
8:10		Opening Remarks; Australian Mammal Society: Tony Friend		
8:20		Opening Remarks; American Society of Mammalogists: Michael Mares		
8:30	1	Jackson Award	Julie Woodruff	Stress and single parents: socially-mediated glucocorticoid responses in colonial tuco-tucos (<i>Ctenomys sociabilis</i>)
8:50	2	Birney Award	Chris Habeck§	Effects of elevated atmospheric CO ₂ and tropospheric O ₃ on the behavior and performance of a mammalian herbivore, <i>Microtus ochrogaster</i>
9:10	3	Howell Award	Tereza Jezkova	Niche shifting in response to warming climate after the last glacial maximum: inference from niche assessments and genetic data in the chisel-toothed kangaroo rat (<i>Dipodomys microps</i>)
9:30	4	Shadle Fellowship	Bret Pasch§	Acoustic communication mediates altitudinal zonation in Neotropical singing mice
9:50	5	ASM Fellowship	Peter Larsen	Reticulate evolution in mammals: an example from the genus <i>Artibeus</i>

Saturday 25 June

10:20	Refreshments	Lincoln Hall Atrium
10:45	AMS Members' Meeting	Hoffmann Hall
12:30	Lunch	

		Technical Session 1—Biogeography		AMS Special Technical Session: Small Mammal Population Declines		Technical Session 3—Evolutionary Biology		
		Moderator: Eliécer E. Gutiérrez	Room: Hoffmann Hall	Moderator: Alex Kutt	Room: Native American Student Ctr.	Moderator: Darrin Carroll	Room: Ondine Hall 218–220	
13:45	6	Carolyn Gillen*§ and Eric Hellgren	Effects of forest composition on mast production and small-mammal density in southern Illinois	13	Sarah Legge, John Karnowski, and Alex Kutt*	20	Byron Weckworth*§, Stefano Mariani, Allan McDevitt, Mark Hebblewhite, Marco Musiani	Evolutionary dynamics of caribou (<i>Rangifer tarandus</i>) in western North America: a molecular review of taxonomy, ecotypes and populations
14:00	7	James S. Mellett	What constraints anchor the upper and lower limits of mammalian body mass?	14	Xavier Lambin*, Thomas Cornulier, and Nigel G. Yoccoz	21	Marissa Parrott*, Paula Watson, Matt West, Julie Koch, and Andrew Weeks	Conservation and genetic rescue of Australia's only hibernating marsupial, the mountain pygmy possum (<i>Burramys parvus</i>)
14:15	8	Aaron N. Facka*, Robert R. Dunn, Robert C. Swiers, and Scott Robertson	Converging on the mechanisms of distribution and diversity in myrmecophagous mammals	15	Christy M. McCain* and Sarah R. B. King	22	Cody W. Thompson*, Frederick B. Stangl, Jr., and Robert D. Bradley	Y-chromosome and mitochondrial sequences indicate genetic introgression in ground squirrels (genus <i>Spermophilus</i>)
14:30	9	Samantha M. Wisely* and Heather D. Barton	Phylogeography of striped skunks (<i>Mephitis mephitis</i>) in North America: Pleistocene dispersal and contemporary population structure	16	Andrew T. Smith	23	David Byrn, Kashawnda Lee-Woodard*, Racheal Jackson, and Oliver R. W. Pergams	Proximate causes of rapid evolution in rats and mice on the California Channel Islands

14:45	10	Andreas S. Chavez* and Jim Kenagy	Clinal patterns of genetic and phenotypic variation in two pine squirrel (<i>Tamiasciurus</i>) hybrid zones	17	Stephen N. Kinyua, Bernard A. Agwanda, and Jacob Goheen*	Synergistic effects of climate and large-mammal extinction on community structure of small mammals in East Africa	24	Ryan W. Taylor*§, Adrienne K. Boon, Denis Réale, Murray M. Humphries, Stan Boutin, and Andrew G. McAdam	Maternal and genetic effects on red squirrel behavioral syndromes
15:00	11	Eliécer E. Gutiérrez*, Robert P. Anderson, Robert S. Voss, and Sharon A. Jansa	Can interspecific competition create allopatry? Insights from phylogenetics and climatic niche models of mouse opossums (Didelphidae: <i>Marmosa</i>)	18	Peter L. Meserve* and Douglas A. Kelt	Long-term changes in mammal assemblages in South America: the importance of global climate change and habitat alteration	25	Tina W. Wey*, Loren D. Hayes, and Luis A. Ebensperger	Do social connections influence female reproductive success in degus (<i>Octodon degus</i>)?
15:15	12	Lucas K. Hall*, Brock R. McMillan, Randy T. Larsen, and Robert N. Knight	Use of available drinking water by two desert canids: a test of the indirect effect of water hypothesis	19	I. J. Gordon* and A. S. Kutt	Small mammal population change; a synthesis of global patterns	26	Ben Dantzer*§, Rudy Boonstra, Stan Boutin, Rupert Palme, Murray M. Humphries, and Andrew G. McAdam	Hormone-mediated maternal effects in red squirrels

15:30		Refreshments
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		Technical Session 4—Community Ecology		Technical Session 5—Systematics		Technical Session 6—Conservation		
		Moderator: Richard Stevens	Room: Hoffmann Hall	Moderator: Brett R. Riddle	Room: Native American Student Ctr.	Moderator: Bruce D. Patterson	Room: Ondine Hall 218–220	
15:45	27	Maria Mercedes Gavilánez and Richard D. Stevens	Niche overlap and influence of niche conservatism on structure of primate communities: evaluating habitat use under a phylogenetic perspective	36	Thomas J. McGreevy Jr*, Lisa Dabek, Thomas P. Husband	45	Achim Eberhart*†§, Nevil Amos, Andrea C. Taylor, Paul Sunnucks, and Kathrine A. Handasyde	Combining observational and genetic techniques to measure dispersal in fragmented landscapes

						Goodfellow's tree kangaroo (<i>D. goodfellowi buergeri</i>) sister taxa?			
16:00	28	Mark Witecha*, Andrea R. Litt, Timothy E. Fulbright, Susan M. Cooper, and Daniel P. Walker	Effects of high-intensity wildfire on small mammal abundance and species richness	37	Michael D. Carleton and William T. Stanley*	Species limits within the <i>Praomys delectorum</i> complex (Muridae: Murinae) of East Africa: a morphometric reassessment and biogeographic implications	46	Jennifer Anson*†§, Christopher Dickman, and Timothy Jessop	Stress triangle: do introduced predators exert indirect costs to both Australia's predators and prey?
16:15	29	Ann Marie Gawel	Ecology of introduced ungulates in the limestone forests of Guam	38	Brett R. Riddle*, Tereza Jezkova, Mallory E. Eckstut, Viktoria Hemmings, and Leslie N. Carraway	Deep genealogical subdivisions within the great basin pocket mouse, <i>Perognathus parvus</i> (Peale, 1848): phylogenetic, biogeographic, and taxonomic implications	47	Bruce D. Patterson, Samuel M. Kasiki, and Alexander Mwazo Gombe	Extractive threats to an <i>Acacia-Commiphora</i> woodland in southeastern Kenya and population trends of larger mammals
16:30	30	Damon B. Lesmeister*§, Clayton K. Nielsen, Eric M. Schaubert, and Eric C. Hellgren	Occupancy dynamics of a carnivore guild in the Midwest	39	Nicholas J. Kerhoulas*, Matthew M. Smith, Link E. Olson	Cryptic phylodiversity in the hoary marmot	48	Valerie J. Clarkston*, Patrick A. Zollner, and Winston P. Smith	Robotic squirrels and infrared cameras: a method for estimating risk of predator attack
16:45	31	Kurt Jenkins*, Nathan Chelgren, Kimberly Sager-Fradkin, Patricia Happe, Michael Adams, and Steven Perakis	Riparian mammal communities prior to restoring the Elwha River ecosystem, Olympic Peninsula, Washington	40	R. Eduardo Palma* and Enrique Rodríguez-Serrano	Systematic revision of the sigmodontine mouse <i>Oligoryzomys longicaudatus</i> along the Andes of Chile, with the probable occurrence of a new form	49	Carmina Gutiérrez-González*, Miguel Gómez-Ramírez, Carlos López-González	Jaguar permanency and density in northern jaguar reserve, Sonora, Mexico, years 1999 – 2010
17:00	32	Melissa Danks*†§, Karl Vernes, Nigel Andrew, and Teresa Lebel	Swamp wallaby mycophagy in eucalyptus forests: patterns in richness and composition	41	Jorge-Luis Pino*§, David L. Reed, and Steven Phelps.	Lineage divergence of singing mice (genus <i>Scotinomys</i>) in southern Central American highlands	50	Derek J. A. Broman*§, John A. Litvaitis, Patrick M. Tate, and Mark R. Ellingwood	Identification of habitat characteristics of bobcats (<i>Lynx rufus</i>) in New Hampshire using contrasting habitat models

17:15	33	Glynnis A. Hood* and David Larson	Seasonal effects of beavers on biodiversity: from ice and snow to the dog-days of summer in Alberta's boreal forest	42	Megan S. Corley*§, Roy N. Platt, Brian R. Amman, and Robert D. Bradley	Phylogenetic relationships and tribal divergence times in the subfamily Neotominae	51	Timothy J. Smyser*, Scott A. Johnson, L. Kristen Page, Cassie M. Hudson, and Olin E. Rhodes, Jr.	Translocation of Allegheny woodrats in Indiana: response of population dynamics to genetic rescue and <i>Baylisascaris procyonis</i> mitigation
17:30	34	Aaron Johnston§	Competition between eastern and western gray squirrels in the puget lowlands	43	Laura M. Cisneros*§ and Michael R. Willig	Neotropical bat metacommunities in a human-modified landscape	52	Winston P. Smith* and Barry J. Fox	Interspecific competition between <i>Myodes gapperi</i> and <i>Peromyscus keeni</i> in a Southeast Alaskan rain forest
17:45	35	Rebecca J. Rowe*, Rebecca C. Terry, and Eric A. Rickart	Environmental change and declining resource availability for small mammal communities in the Great Basin	44	Marina S. Ascunce*, Karen Olson, Karla Logan, Bret M. Boyd, Jason Sumners, Rodney L. Honeycutt, Randall W. DeYoung, and David L. Reed	Origin of the white tail deer of the Guantanamo Bay Naval Base in Cuba	53	Celia López-González*, D. F. García-Mendoza, G. Tapia Ramírez, A. Lozano, and Tiberio C. Monterrubio-Rico	Elements of the metacommunity structure of bats at the San Pedro-Mezquital River Basin, Durango-Nayarit, Mexico

18:00	Dinner
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		Symposium 1: New ecological and evolutionary perspectives in mammalian biogeography	
		Organizers: Robert P. Anderson and Christy M. McCain	
		Hoffmann Hall	
19:00	54	Robert P. Anderson	Introduction
19:05	55	Christy M. McCain	Global climate change models and mammalian diversity on mountains
19:25	56	Richard D. Stevens	Stronger tests of mid-domain effects on biodiversity gradients of New World bats
19:45	57	Jacob R. Goheen	A biogeographic perspective on temporal dynamics and local saturation of small mammal communities
20:05	58	Robert P. Anderson	Ecological niche models: the complement to phylogeny for disentangling contingency and determinism in mammalian biogeography
20:25	59	Sharon A. Jansa	Reconstructing tropical forest history from phylogenetic trees: did a mid-Tertiary mass extinction shape the diversification of South American opossums?
20:45		All	Discussion and questions, moderated by Christy M. McCain
21:00			End of Symposium 1

21:00	Welcoming Social
23:00	End Welcoming Social



Sunday 26 June 2011

* Presenter

† Australian student candidate for the Bolliger Award (best student oral presentation—Australian Mammal Society)

¶ Australian student candidate for the Lyne Award (best student poster presentation—Australian Mammal Society)

§ Student oral or poster presentation being evaluated

		Special unopposed AMS Technical Session	Lincoln Hall Auditorium	Predator interactions on both sides of the Pacific
8:00	60	Chris R. Dickman	Introduction	
8:05	61	Chris R. Dickman and Euan Ritchie	Predator interactions and predator impacts: the Australian arena	
8:20	62	William J. Ripple and Robert Beschta	Large predators and trophic cascades in Western North America	
8:35	63	Matthew Gompper*, Damon Lesmeister, Justina Ray, Jay Malcolm, and Roland Kays	Habitat preferences or intraguild interactions: what structures the Adirondack carnivore community?	
8:50	64	Mathew Crowther, Mike Letnic, and Melanie Fillios	The ecological role and identity of the dingo in Australia	
9:05	65	Christopher L. Burdett*, David M. Theobald, Carlo Rondinini, Moreno Di Marco, Luigi Boitani, and Kevin R. Crooks.	Global patterns of fragmentation and connectivity of mammalian carnivore habitats	
9:20	66	Aaron J. Wirsing*, William J. Ripple, Robert L. Beschta, and Steven W. Buskirk	Can restoring wolves help lynx recovery?	
9:35		All	Discussion and questions	

9:45	Refreshments	Lincoln Hall Atrium
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10:00	Group Photo: Lincoln Hall Auditorium
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10:15	ASM Members' meeting I	Lincoln Hall Auditorium
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12:15	Lunch
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13:30	Poster Session I	Hoffmann Hall
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67	Darrin P. Lunde, Kyndall B. P. Hildebrandt*, John J. Ososky, Suzanne C. Peurach, Craig A. Ludwig, Linda K. Gordon, Neal Woodman, Alfred L. Gardner, Louise H. Emmons, Richard W. Thorington Jr., Don E. Wilson, and Kristofer M. Helgen	Documenting biodiversity: the role of temporal museum collections and the need for continued growth
68	Diego F. García-Mendoza and C. López-González*	The mammal tissue collection at the CIIDIR Unidad Durango, Instituto Politécnico Nacional
69	Christopher J. Yahnke, Silvia Saldívar Bellassai, and Isabel Gammara de Fox	Museogeografía: Where are the Paraguayan Mammal Collections?
70	Ana D. Davidson*, Alison G. Boyer, Hwahwan Kim, Sandra Pompa-Mansilla, Marcus J. Hamilton, Daniel P. Costa, Gerardo Ceballos, and James H. Brown	Determinants of global extinction risk in marine mammals
71	Kristina Ernest*, Raychel Parks, and Patricia Garvey-Darda	Pika habitats in a fragmented landscape: natural and anthropogenic patches
72	Jonathan Nations*, Eric Fitzgerald, and Joshua R. Whorley	The effects of habitat size on small mammal diversity in Seattle city parks
73	Richard W. Thorington*, Jr., John L. Koprowski, Michael A. Steele, James F. Whatton, and Paula W. Bohaska	Squirrels of the world: the world of squirrels
74	Kathryn D. Stuart	Ecology and conservation of the western gray squirrel (<i>Sciurus griseus</i>) in the North Cascades
75	Kathryn D. Stuart§	Strategies for communicating western gray squirrel research to promote conservation
76	Kyung Hee Jang and Hung Sun Koh*	Extensive genetic isolation of the endemic, Korean chipmunk from the Korean peninsula (<i>Tamias barberi</i> Johnson & Jones), examined from nuclear and mitochondrial DNA sequences
77	Carisa R. Stansbury*§, D. E. Ausband, C. M. Mack, P. Zager, M. Mitchell, and L. P. Waits	A noninvasive genetic sampling approach to evaluate population size of gray wolves <i>Canis lupus</i> in Idaho
78	Molly M. McDonough*, Cibele G. Sotero-Caio, Patrick J. Lewis, Monte L. Thies, Matlhgonolo Tswiio, and Robert J. Baker	Mitochondrial DNA and karyotypic data reveal the presence of <i>Mus minutoides</i> in Botswana
79	Scott E. Henke, Anna S. Lund, Damon L. Williford, Randy W. DeYoung*, Christopher Wineberger, Jeremiah Trantham, and Nancy L. Mitton	Genetic structure and phylogenetic relationships among pocket gophers (<i>Geomys</i>) in southern coastal Texas
80	Helen K. Pigage*, Jon C. Pigage, and John R. Demboski.	Siphonaptera of <i>Peromyscus maniculatus</i> and <i>P. truei</i> in central and western Colorado
81	Richard Parkhill*§ and Christy M. McCain	The relationship of rodents and burying beetles in the Front Range of Colorado
82	Jeremy E. Wilkinson*§, Sean A. Neiswenter, Brett R. Riddle, Janet K. Braun, Michael A. Mares, and Ronald A. Van Den Bussche	Evolutionary relationships among subspecies of Ord's kangaroo rat, <i>Dipodomys ordii</i> , based on mitochondrial and nuclear DNA
83	Ryan W. Norris*, Cory L. Strobe, C. William Kilpatrick, and Arlin Stoltzfus	A novel approach to incorporating fossil discovery bias in molecular clock calibration and its application in rodents

84	Jeb Bevers*, Steven Robertson, Jan Zinck, Zachary D. Hyde, and Luis A. Ruedas.	Mitochondrial DNA reveals a new species of carnivorous marsupial in Tasmania
85	DeeAnn Reeder	Bat and rodent diversity in South Sudan: field studies in a former conflict zone
86	Julie A. Parlos*§ and Robert J. Baker	Evaluating species boundaries within <i>Dermanura</i> by testing for phylogenetic congruence among multiple molecular markers
87	Nathan S. Upham*§ and Bruce D. Patterson	A preliminary analysis of divergence timing and historical biogeography in the caviomorph rodent group Octodontoidea (Rodentia: Hystricomorpha)
88	Lizette Siles*§, Peter A. Larsen, Scott C. Pedersen, Gary G. Kwiecinski, Robert J. Baker	New insights on the species-level diversity within the <i>Micronycteris megalotis</i> complex (Chiroptera: Phyllostomidae)
89	Sarah G. Hoss*§ and Michelle L. Haynie	Genetic variation at major histocompatibility complex (<i>Mhc</i>) loci in <i>Neotoma albigula</i> : potential clues to coevolution with arenaviruses
90	José Antonio Romero–Meza*§, Jorge Ortega and Stacey Lance	Characterization and amplification of microsatellite loci for <i>Leptonycteris yerbabuenae</i> (Chiroptera: Phyllostomidae)
91	Matthew R. Mauldin*§, Ethan B. Rowell, Michelle L. Haynie, and Robert D. Bradley	Molecular and ecological evaluation of hybridization in two species of woodrats (<i>Neotoma floridana</i> and <i>N. micropus</i>)
92	Andrew G. Hope*§, Kelly A. Speer, John R. Demboski, Sandra L. Talbot, and Joseph A. Cook	A climate for speciation: rapid spatial diversification among the <i>Sorex cinereus</i> complex of shrews
93	Michelle Gerlosky* and Michelle Haynie	Genetic diversity within the northern grasshopper mouse (<i>Onychomys leucogaster</i>) in southern Texas
94	Joseph A. Cook*, Eileen A. Lacey, Steffi Ickert–Bond, Scott V. Edwards, and Kayce Bell	AIM–UP!: Stimulating the use of museum collections in undergraduate education
95	Elizabeth A. Flaherty and Merav Ben–David	Incorporating K–12 and undergraduate education into mammal field research: investigating effects of climate–induced vegetation changes on least chipmunks (<i>Tamias minimus</i>) in southeast Wyoming
96	John O. Matson*, Walter Bulmer, Megan S. Corley, Ralph P. Eckerlin, Adam W. Ferguson, Nicté Ordóñez Garza, and Lizette Siles	Teaching about small mammals: a model for conservation and wildlife managers in Guatemala and El Salvador
97	Oliver R. W. Pergams* and Patricia A. Zaradic	Videophilia
98	Victoria Jackson	Engaging students in research and enhancing knowledge of Africa’s mammals and ecosystems: the African conservation experience
99	Dawn M. Kaufman	The changing face of American mammalogy: the history and status of human diversity
100	Casey C. Day*§, Lucas K. Hall, Matthew D. Westover, Robert J. Edgel, Randy T. Larsen, and Brock R. McMillan	Factors influencing the behavior of kit fox at water sources in the Mojave Desert
101	Lucas K. Hall*§, Brock R. McMillan, Randy T. Larsen, Robert N. Knight, and Kevin D. Bunnell	Use of available drinking water by two desert canids: a test of the indirect effect of water hypothesis
102	Erin N. Tennant * and David J. Germano	An experimental test of competitive interactions between Tipton kangaroo rats (<i>Dipodomys nitratoides nitratoides</i>) and Heermann’s kangaroo rats (<i>D. heermanni</i>) in the San Joaquin Valley, California

103	Matthew D. Westover*, Lucas K. Hall, Casey C. Day, Robert N. Knight, Randy T. Larsen, and Brock R. McMillan	Diversity of wildlife associated with natural and anthropogenic water sources in the Great Basin Desert, Utah
104	Rachel S. Crowhurst*§ and Clinton W. Epps	Connectivity of impala (<i>Aepyceros melampus</i>) populations across Tanzanian parks and reserves
105	Nalleli Lara–Díaz, Helí Coronel–Arellano, Alejandro González Bernal and Carlos A. López–González	Black bear population and connectivity in the sky islands of Mexico/United States
106	Amanda E. Cheeseman*§ and Elmer J. Finck	Temporal diet analysis of a declining mesocarnivore, the eastern spotted skunk (<i>Spilogale putorius</i>)
107	Suzanne Stone	Management: effective tools for reducing livestock losses
108	Cedric Worman* and Robert D. Holt	The impacts of feral hogs (<i>Sus scrofa</i>) on herbaceous community characteristics and interactions with landscape patterns in a Floridian coastal hammock
109	Channing Hughes*§, Robbie Gaffney, Christopher Dickman	A preliminary study assessing risk to Tasmanian devils from poisoning for red foxes
110	John S. Scheibe* and Patrick Mitsdarfer	Passive acoustic sampling of northern flying squirrels (<i>Glaucomys sabrinus</i>) on Prince of Wales Island, Alaska.
111	Emily H. Scobie*§, Melissa J. Merrick, John L. Koprowski, and Vicki L. Greer	The subterranean life of an arboreal squirrel: burrow use by endangered Mt. Graham red squirrels
112	Cody Dicks§	The status of swamp rabbits (<i>Sylvilagus aquaticus</i>) in southeast Missouri
113	Robert J. Edgel*§, Randy T. Larsen, and Brock R. McMillan	Short–term response of pygmy rabbits (<i>Brachylagus idahoensis</i>) to construction of the Ruby Pipeline in northern, UT
114	Amy E. Gottfried*, Thomas J. McGreevy Jr., Brian C. Tefft, Mary S. Niebels, and Thomas P. Husband	Habitat preferences of New England cottontail (<i>Sylvilagus transitionalis</i>) in southern New England
115	Jennifer M. Schmalz*§, Samuel I. Zeveloff, Barbara Wachocki, and Masako Wright	Habitat ecology of pygmy rabbits in northeastern Utah
116	Brianna Molter*§ and Erika Barthelmess	Acoustic survey of summertime bat activity in three habitats in northern New York state
117	Lisa Powers*§, Jean Mengelkoch, and Joyce Hofmann	Wing damage patterns of North American bats: indicators of white–nose syndrome survival?
118	Roger D. Peyton*, Jon C. Pigage, and Richard Bunn	Multiple bats entangled on cactus
119	Robert C. Swiers* and Roger A. Powell	Use of non–invasive genetic data to estimate fisher (<i>Martes pennanti</i>) population parameters in the eastern Siskiyou Mountains of California
120	Christopher Bottom and John A. Litvaitis*	Using remotely–triggered cameras to inventory forest mammals: cameras are not created equal
121	Reed Ojala–Barbour*, Jorge Brito M., and William R. Teska	Comparisons of the diversity of small mammals between intact and disturbed high Andean woodlands in Ecuador
122	Monte L. Thies*, Alicia M. Kennedy, and Patrick J. Lewis	Preliminary analyses of post–wildfire vertebrate surveys of the Koanaka Hills, Botswana
123	Richard Tutalo, Patrick J. Lewis, and Monte L. Thies*	A comparative analysis of small mammals from barn owl pellets and live trapping from the Koanaka Hills, northwestern Botswana
124	Megan C. Baker*, William J. McShea, Anthony J. Lynam, and JoGayle Howard	TaPhraya National Park, Thailand—a unique and neglected protected area, and the species that call it home

125	Bradley J. Bergstrom* and Steven R. Sheffield	ASM policy guidance on behalf of rare and endangered North American mammals, 1997–2010
126	Brian Keane* and Nancy Solomon	Female prairie vole reproductive success and group living
127	Sara A. Parsons*, Nancy G. Solomon, and Brian Keane	Influence of vasopressin receptor gene polymorphism (<i>avpr1a</i>) on space use of free-ranging prairie voles (<i>Microtus ochrogaster</i>)
128	Michael A. Steele, Melissa Bugdal, Amy Yuan, Andrew Bartlow*§, Jarrod Buzalewski, Nathan Lichti, and Robert Swihart	Cache placement, pilfering, and a recovery advantage in a seed-dispersing rodent: could predation of scatter hoarders contribute to seedling establishment?
129	Leslie Herington*§ and Paul Stapp	Effects of cactus removal on grassland rodents
130	Stephen E. Rice*§ and Robert K. Rose	Patterns of transiency, sex bias, and body weight in open-habitat rodent populations
131	Katelynn J. Frei, Emily Wilkinson, and Robert C. Dowler*	Use of camera trapping to determine patterns of habitat use by medium-sized mammals in west-central Texas
132	Andrea Romero*§, Robert M. Timm, and Deedra K. McClearn	Ecology and population estimates of mammals in a lowland Neotropical forest: how can a strip-census help us decipher these communities?
133	Jonathan N. Pauli* and M. Zachariah Peery	Novel approaches to studying the population ecology of two- (<i>Choloepus</i> sp.) and three-toed (<i>Bradypus</i> sp.) sloths
134	Rebecca Davis*§ and Paul Leberg	A multi-method approach to assessing eastern spotted skunk occurrence in Louisiana
135	Jamie R. Crait and Merav Ben-David	Abundance and distribution of river otters in Yellowstone Lake in relation to prey declines
136	Becky M. Pierce, Vernon C. Bleich, R. Terry Bowyer, and Kevin L. Monteith	Top-down versus bottom-up forcing: evidence from mountain lions and mule deer
137	Juan P. Carrera-E. §, Noé de la Sancha, Sergio Solari, Nicté Ordóñez Garza, Carleton J. Phillips, and Robert J. Baker	Differences in phyllostomid bat assemblages in a latitudinal and disturbance gradient along western Ecuador
138	Jemma K. Cripps*¶§, Ian Beveridge, Jenny Martin, and Graeme Coulson	Patterns of nematode infection in a free-ranging population of eastern grey kangaroos
139	Roger A. Powell	Identifying occupied home ranges using travel distances, changes in speed and final settlement of translocated fishers (<i>Martes pennanti</i>)
140	Toni Weidman* and John Litvaitis	Can supplemental food increase winter survival of a threatened cottontail rabbit species?
141	George Lai*§, Abigail A. Curtis, and Blaire Van Valkenburgh	Frontal sinus size and shape in aquatic and terrestrial carnivorans
142	Isaac M. Ortega*, Gladys Garay, and Oscar Guineo	Social ecology of the endangered huemul at Torres del Paine National Park, Chile
143	Joseph R. Burger§	Comparative life histories of rodents
144	Nathanael Lichti*§, Michael A. Steele, and Robert K. Swihart	Mast species composition alters seed fate in North American rodent-dispersed nuts
145	Bryan S. McLean*§ and Steven D. Emslie	A unique isotopic record of mammal ecology in the Southern Rockies during and after the last glacial period
146	Eli M. Swanson*§, Kay E. Holekamp, Barbara L. Lundrigan, Bradley M. Arsznov, and Sharleen T. Sakai	Multiple determinants of encephalization and brain architecture in Carnivora

		Technical Session 7—Conservation				Technical Session 8—Morphology				Technical Session 9—Population Ecology	
		Moderator: Ric How	Room: Hoffmann Hall			Moderator: Felisa A. Smith	Room: Native American Student Ctr.			Moderator: Patrick A. Zollner	Room: Ondine Hall 218–220
15:15	147	Roberta Bencini*, Harriet Mills, Brian Chambers, Paul de Tores, Ian Harris, and Kaori Yokochi	Fauna crossings down under: who is using them and why?	152	Shawn B. Whiteman*§ and Felisa A. Smith	Quite a spread: variation in molar morphology of <i>Neotoma</i> (woodrat) species	157	Tanya R. Aldred*§, Patrick A. Zollner, and Jonathan H. Gilbert	Comparison of rest site selection between translocated and resident martens in Wisconsin		
15:30	148	Melissa J. Merrick*§ and John L. Koprowski	Dispersal and settlement in an endangered forest obligate: multiple approaches	153	Virginia L. Naples	Anatomical indicators of adaptations for an ambush strategy of prey capture in the osteology of the forelimb of the extinct scimitar-tooth, <i>Xenosmilus hodsonae</i> as compared to a more cursorial pursuit predator, the extant conical-tooth cat, <i>Panthera leo</i> .	158	Melissa Pardi	Continent-wide changes in small mammal community structure during the Pleistocene–Holocene transition: implications for future climate change		
15:45	149	Linc Schmitt, Peter Spencer*, and Ric How	Assessing populations ahead of a threatening process: molecular and demographic analysis of the northern quoll on Kimberley Island and the mainland	154	Ariel E. Marcy*§ and Elizabeth A. Hadly	By tooth or claw: variations in pocket gopher (<i>Thomomys</i> spp.) digging morphology predict distribution across an environmentally heterogeneous region	159	Bruce G. Marcot* and Jonathan N. Pauli	Development and testing of empirical probability network models to predict age of martens (<i>Martes americana</i> and <i>M. caurina</i>) based on telomere analysis		
16:00	150	Julie Allen*, Michael Miyamoto, Chieh-Hsi Wu, Tamar Carter, Judit Ungvari-Martin, Kristin Magrini, and Colin Chapman	Microsatellite DNA evidence of an endangered primate elucidates the history of an African rainforest	155	Oliver R. W. Pergams* and Joshua J. Lawler	Recent and widespread morphological change in rodents	160	William Z. Lidicker, Jr.	Genetic structure of <i>Microtus californicus</i> over a multiannual density peak and decline		

16:15	151	Kristen E. Lucia*§ and Brian Keane	Blame it on your parents? A field test of the effects of inbreeding on adult prairie voles	156	Bill Breed*, Chris Leigh, Tasha Speight, and Jennifer Washington	Co-evolution of genital morphology of arid zone old endemic Australian rodents—cryptic female choice or sexual conflict?	161	Eric Tobin*§, Jenneke Visser, Paul Leberg, and James Peterson	A comparison of marsh vegetation types using occupancy studies of small mammal populations in Louisiana
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16:30 Break

		Special Technical Session— Ecology of Marsupial and Eutherian Herbivory				Technical Session 11—Wildlife Diseases				Technical Session 12—Genetics	
		Moderator: Graeme Coulson	Room: Hoffmann Hall			Moderator: Laurie Dizney	Room: Native American Student Ctr.			Moderator: Trieste Musial	Room: Ondine Hall 218–220
16:45	162	Jemma K. Cripps*†§, Michelle E. Wilson, Mark A. Elgar, Graeme Coulson	Experimental manipulation of fertility reveals lactation costs in free-ranging marsupials	168	Laurie J. Dizney*, Todd Zolka, Dylan Taylor, and M. Denise Dearing	Disease transmission dynamics within host populations	174	Alyson M. Andreasen*§, Kelley M. Stewart, William S. Longland, Jon P. Beckmann, and Matthew L. Forister	Mountain lions of the Great Basin: identification of source-sink dynamics using Bayesian genetic techniques		
17:00	163	Sarah Garnick*†§, Graeme Coulson, Julian Di Stefano, and Mark Elgar	Habitat specialization in four sympatric macropod species	169	Christina L. Hutson*, Darin S. Carroll, Nadia Gallardo-Romero, Sonja Weiss, Christine M. Hughes, Cody Clemmons, Victoria A. Olson, Johanna S. Salzer, Jason Abel, Erin McDowell, Kevin L. Karem, and Inger K. Damon	Monkeypox disease transmission in an experimental setting: prairie dog (<i>Cynomys ludovicianus</i>) animal model	175	Trieste Musial*, Mitchell B. Cruzan, and Luis A. Ruedas	Evolutionary and landscape genetic structure of <i>Puma concolor</i> in Oregon		

17:15	164	Dale R. McCullough	Comparison of kangaroo and deer ecology and population dynamics	170	Haley Frater*, Julie Blanchong, Lyric Bartholomay, Jon Oliver, and Jesse Randall	Impact of prescribed burning for oak regeneration on <i>Peromyscus leucopus</i> and <i>Ixodes scapularis</i> populations in relation to <i>Borrelia burgdorferi</i>	176	Donelle Schwalm*§, Warren B. Ballard, Lisette P. Waits, Nancy E. McIntyre, Philip S. Gipson, and John Young	Genetic implications for management of swift fox in Texas
17:30	165	Larisa R.G. DeSantis	Inferring the ecology of extant and extinct Australian marsupials using stable isotopes and dental microwear texture analysis	171	Johanna S. Salzer*§, Thomas R. Gillespie, Julian Kerbis Peterhans, Innocent B. Rwego, Kevin L. Karem, Inger K. Damon, and Darin S. Carroll	Effects of habitat disturbance on host community structure and pathogen prevalence	177	Tammy R. Wilbert*§, Deborah A. Smith, Katherine Ralls, Daniel E. Meade, and Jesús E. Maldonado	Changes of a population in time and space—non-invasive monitoring of the endangered San Joaquin kit fox (<i>Vulpes macrotis mutica</i>) on the Topaz solar farm
17:45	166	Lynne Selwood*, Siyam Subair, Shuliang Cui, Kathrine A. Handasyde	Design of taxon-specific fertility control vaccines in marsupials	172	Jessica L. Sandstrom*, Eric M. Schaubert, and Richard S. Ostfeld	The effect of natural and experimental variations in small mammal activity on Lyme Disease risk	178	Greta J. Frankham*†§, Kathrine A. Handasyde, and Mark D. B. Eldridge	Conservation genetics of the long-nosed potoroo (<i>Potorous tridactylus</i>)
18:00	167	Graeme Coulson*, Marco Festa-Bianchet	Macropodid marsupials as models: prospects for behavioural ecology and population dynamics	173	Yoshinori Nakazawa*, R. Ryan Lash, Ginny L. Emerson, Yu Li, Kevin L. Karem, Inger K. Damon, and Darin S. Carroll	Biogeographic factors in monkeypox virus differentialtion	179	Andrew S. Wiewel*†§, Stephen C. Donnellan, Terry Bertozzi, Ken P. Aplin, and Alan Cooper	Exploring population structure in multiple genetic lineages of <i>Rattus rattus</i> using mitochondrial DNA and microsatellites

18:30		Picnic	South Park Blocks
20:45		End Picnic	



Monday 27 June

6:30		Run for Research	
7:35		End Run for Research	

		Plenary Session 2	Lincoln Hall Auditorium	
8:00	180	Grinnell Award	Enrique Lessa	Opportunities for science education in South America
8:45	181	Leopold Award	Herbert H. T. Prins	What Aldo Leopold would have seen in Central Asia
9:30	182	Merriam Award	Gerardo Ceballos	No title or abstract submitted

10:15 Refreshments

10:30		ASM Members' Meeting II	Lincoln Hall Auditorium
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12:00		Lunch	Board of Directors' Lunch (outgoing and incoming board members) Smith Memorial Union, Cascade Room (236)
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* Presenter

† Australian student candidate for the Bolliger Award (best student oral presentation—Australian Mammal Society)

¶ Australian student candidate for the Lyne Award (best student poster presentation—Australian Mammal Society)

§ Student oral or poster presentation being evaluated

		Technical Session 13—Population Ecology				Technical Session 14—Reproduction				Technical Session 15—Conservation	
		Moderator: Christy M. McCain	Room: Hoffmann Hall			Moderator: Janet M. Lanyon	Room: Native American Student Ctr.			Moderator: William J. Zielinski	Room: Ondine Hall 218–220
13:30	183	Eric Schaubert*, Clayton K. Nielsen, Lene J. Kjær, and Charles Anderson.	Fluctuating social affinities of female and juvenile white-tailed deer at various time scales and impacts on disease transmission	189	John Hackemer*§ and Christy M. McCain	The effect of reproductive status on movement patterns in <i>Peromyscus</i> species	195	Santiago F. Burneo	Conservation and research priority areas of mammals in Ecuador based on species distribution modeling		

13:45	184	Aaron W. Reed* and Norman A. Slade	Population Effects of botfly parasitism on white-footed mice	190	Elizabeth A. Burgess*†§, Tamara Keeley, and Janet M. Lanyon	Tusks and testosterone: investigating male sexual maturity in wild dugongs (<i>Dugong dugon</i>)	196	John L. Koprowski	Conservation of the endangered Mt. Graham red squirrel: much more than Scopes vs. Squirrels
14:00	185	Alison Matthews*, Laura Ruckys, Bill Ellis, Sean FitzGibbon, Daniel Lunney, Mathew Crowther, Al Glen, Brad Purcell, Katherine Moseby, Jenny Stott, Don Fletcher, Claire Wimpenny, Ben Allen, Linda Van Bommel, Michael Roberts	The success of GPS collar deployments on Australian mammals	191	Catherine Kemper* and Ikuko Tomo	Assessing reproductive status and abnormalities in male bottlenose dolphins from South Australia	197	Susan C. Loeb	Potential climate change effects on Indiana bat (<i>Myotis sodalis</i>)
14:15	186	Sarah R. B. King* and Christy M. McCain	Differences in capture of harvest mice (<i>Reithrodontomys</i>) using Sherman and pitfall traps	192	Meeghan Gray*, Elissa Cameron, David Thain, and Lowell Miller	A return to fertility? Efficacy of contraceptive treatments in feral horses 4–6 years post-treatment	198	Erik A. Beever	Landscape –scale conservation and management of montane wildlife: contemporary climate may be changing the rules
14:30	187	Stephen R. Griffiths†§, Lisa Godinho, Ian Beveridge, Lindy Lumsden, Graeme Coulson, and Graeme Pendock	Remote monitoring of artificial nesting box use by microbats	193	Madan K. Oli*, Jeffrey Hostetler, and David P. Onorato	Reproductive parameters of the endangered Florida panthers	199	William J. Zielinski*, Fredrick V. Schlexer, T. Luke George, Kristine L. Pilgrim, and Michael K. Schwartz	Estimating abundance, density and survival of the endangered Point Arena mountain beaver (<i>Aplodontia rufa nigra</i>) using noninvasive sampling.

14:45	188	Paul C. Griffin*, Kurt Jenkins, Bruce Lubow, Patricia Happe, Mason Reid, David Vales, Barbara Moeller, Scott McCorquodale, and Michelle Tirhi	Estimating detection bias in aerial surveys: a double-observer sightability model for elk	194	Elissa Cameron* and Wayne Linklater	The influence of social bonding between unrelated females on reproductive success in feral horses	200	Jonathan Webb*, Stephanie O'Donnell, and Richard Shine	Conditioned taste aversion enhances the survival of an endangered Australian predator (Northern Quoll, <i>Dasyurus hallucatus</i>) imperiled by a toxic invader
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Cancelled

15:00		Refreshments	
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		Symposium 2: Cryptic and undocumented diversity in the mammals of Australasia	
		Hoffmann Hall	
15:15			Introduction
15:25	201	Ken Aplin	The past, present, and future of Australian mammal taxonomy: new studies reveal unsuspected diversity in virtually every group.
15:45	202	Kristofer M. Helgen	The Unknown Continent: mammal diversity East of Wallace's Line
16:05	203	Brian S. Arbogast*, Ken P. Aplin, Kyle N. Armstrong, Lisa M. Ogawa, and Andrea Taylor	Cryptic diversity in an iconic Australian marsupial: the Greater Glider, <i>Petauroides volans</i>
16:25	204	Kyle N. Armstrong*, Fred Ford, Ken P. Aplin, Stephen C. Donellan, and Allan Cooper	Using ancient DNA methods on informative museum specimens to realise the true mammalian diversity of Australia
16:45		All	Discussion and questions
17:00			End of Symposium 2

17:15		Pre-banquet Social	
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18:15		Banquet followed by merriment and Auction
to		
23:00		

Tuesday, 28 June

* Presenter

† Australian student candidate for the Bolliger Award (best student oral presentation—Australian Mammal Society)

¶ Australian student candidate for the Lyne Award (best student poster presentation—Australian Mammal Society)

§ Student oral or poster presentation being evaluated

		Technical Session 16—Natural History				Technical Session 17—Community Ecology				Special Technical Session—Physiology of Monotremes and Marsupials	
		Moderator: Brian Arbogast	Room: Hoffmann Hall		Moderator: Christopher R. Dickman	Room: Native American Student Ctr.		Moderator: Phil Withers	Room: Ondine Hall 218–220		
8:00	205	Anne-Marie C. Hodge*§, Brian Arbogast, Travis Knowles, and E. Natasha Vanderhoff	Extensive terrestrial activity patterns, intraspecific spatial overlap, and factors affecting camera-trap success for the margay (<i>Leopardus weidii</i>), a declining tropical felid, at a mid-elevation site in the eastern Andean foothills of Ecuador	212	Louise A. Pastro*§, Christopher R. Dickman, and Mike Letnic	Burning for Biodiversity or Burning Biodiversity? The impacts of prescribed burning and wildfire on the alpha and beta diversity of arid zone small mammals	219	Phil Withers and Terry Dawson	Monotreme and marsupial physiology: an overview		
8:15	206	Eileen A. Lacey*, Pablo A. Cuello, Julie A. Woodruff, Mauro N. Tammone, and John R. Wieczorek	The plot thickens: a new social tuco tuco from northern Argentina	213	Jacob E. Lucero*§, Brock R. McMillan, and Phil S. Allen	Cheatgrass (<i>Bromus tectorum</i>), native grasses, and small mammals in the great basin: a test of the apparent competition hypothesis	220	Stewart Nicol	Ecophysiology of monotremes		
8:30	207	Nicolás Ramos-Lara*§ and John L. Koprowski	A stranger in the genus <i>Tamiasciurus</i> : life-history and behavior of Mearns's squirrels in Baja California, Mexico	214	Nicholas P. McCann*, Patrick A. Zollner, and Jonathan H. Gilbert	Relationship between rest sites, kill sites, and selection of cover types within home ranges of martens	221	Christine Cooper* and Philip Withers	Hygic physiology of marsupials		

8:45	208	Nicté Ordóñez–Garza*§, Noé De la Sancha, and John O. Matson	Analysis of small mammal communities of “La Fraternidad” biosphere reserve, Guatemala	215	Miguel Gómez Ramírez*, Carmina Gutiérrez González, Carlos López González	Mammal community comparisons according to cattle presence	222	Gemma Morrow*†, Stewart C. Nicol, and Susan M. Jones	Reproductive physiology of the Tasmanian echidna
9:00	209	Roland Kays* and Martin Wikelski	Movebank: an online archive and tool for analysis and sharing of animal tracking data	216	Sean P. Maher* and Andreas S. Chavez	Understanding the ecological niche of <i>Tamiasciurus</i>	223	Rachel L. Harris*†, Noel W. Davies, and Stewart C. Nicol	Love stinks: pheromones and mating behavior in the short-beaked echidna
9:15	210	Timothy G. Jessen*§ and John L. Koprowski	Hairtube sampling for detection and identification of small mammals	217	George O. Batzli* and Carrie E. DeJaco	The impact of white-tailed deer on the development of introduced grassland	224	Lisa Warnecke* and Fritz Geiser	Thermal energetics of basking in heterothermic mammals: an overview
9:30	211	Y. Jim Hsu, Chiao–Ping Wang, and Y. Kirk Lin*	Synergistic effects of Taiwan vole (<i>Microtus kikuchi</i>) latrines on soil Nitrogen in an alpine meadow	218	Amy Sullivan	Factors shaping vole and white-footed mice population dynamics and distribution in tallgrass prairie assemblages	225	James M. Turner*, Lisa Warnecke, Gerhard Körtner, and Fritz Geiser	Marsupial hibernation

9:45		Refreshments	
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		Technical Session 19—Population Ecology				Technical Session 20—Physiology				Technical Session 21—Ecology	
		Moderator: Janet Rachlow	Room: Hoffmann Hall			Moderator: Brandon Hawkins	Room: Native American Student Ctr.			Moderator: Peter R. Law	Room: Ondine Hall 218–220
10:00	226	Ellen C. Garland*§, Matthew S. Lilley, Anne W. Goldizen, Melinda L. Rekdahl, Claire Garrigue, and Michael J. Noad	Quantifying call sequences and similarity in an evolving sexual display: humpback whale song	234	Lisa Shipley	Mechanisms for consuming toxins by a sagebrush specialist: the pigmy rabbit	242	Jon C. Pigage*, Roger D. Peyton, Rick Clawges, Helen K. Pigage, and Richard Bunn	Preliminary findings on the effects of military training on mule deer (<i>Odocoileus hemionus</i>) resource selection and reproductive success		

10:15	227	Andrew J. Edelman	Male-based sex ratio in litters of banner-tailed kangaroo rats	235	Jacob Templin and Jan G. van Tets*	Using the doubly-labeled water method to measure field metabolic rate in northern red-backed voles, <i>Myodes rutilus</i>	243	Joseph D. Holbrook*§, Randy W. DeYoung, Michael E. Tewes, and John H. Young	Exploring the demographic history of peripheral mountain lions
10:30	228	Eric D. Freeman*§, Brock R. McMillan, Randy T. Larsen, and Ken Clegg	Long-lasting effects of maternal condition in free-ranging cervids: a test of the Trivers and Willard hypothesis	236	Natalie Calatayud* and Marilyn Renfree	In vitro sperm capacitation in a marsupial: the stripe-faced dunnart, <i>Sminthopsis macroura</i>	244	Peter R. Law*, Brad Fike, and Peter C. Lent	Demography of a reintroduced black rhinoceros population: the first two decades
10:45	229	Jessica T. Rodkey*§, Patrick A. Zollner, Robert Chapman, Valerie J. Clarkston, and Matthew Krauser	Microhabitat Selection of <i>Reithrodontomys megalotis</i> in Central Indiana	237	Diane Post*, Brandon Hawkins, James Eldridge, and Joseph Schenckman	The physiological effect of abnormal fuel metabolism on <i>Neotoma micropus</i> ; establishment of potential effects	245	Amanda Goldberg*§ and Jack F. Cully	Estimated apparent survival of black-tailed prairie dogs at four small national parks using the robust design in program Mark
11:00	230	Brad Law*, Mark Chidel, and Alf Britton	The ecology of the eastern pygmy possum <i>Cercartetus nanus</i> in forests and the impact of logging	238	Brandon Hawkins*, Diane Post, James Eldridge, and Joseph Schenckman	The physiological effect of abnormal fuel metabolism on <i>Neotoma micropus</i> ; results of field tests across wildland-urban interface	246	Peter Spencer*, Kelly Wilson, Lincoln Schmitt, Ric How, Helen Grimm, and Paul de Tores	Wildlife carers and translocation programs alter natural genetic patches and have contributed to the recent decline of the western ringtail possum, <i>Pseudocheirus occidentalis</i>
11:15	231	Kaeda C. Boyles*, Patrick A. Zollner, Jessica T. Rodkey, Valerie J. Clarkston, Matthew S. Kraushar, and Robert N. Chapman	Implications of prescribed burning and bush-hogging for prairie maintenance upon annual survivorship of two common small mammals	239	Ryan A. Long*, R. Terry Bowyer, John G. Kie, and Warren P. Porter	Linking climatic variability to behavior and fitness in herbivores: a bioenergetic approach	247	Thomas M. Newsome*†§, Guy Ballard, Peter Fleming, Chris Dickman	When resources boom: learning from the story of dingoes in the Tanami Desert, Australia

11:30	232	Amy Ulappa*§, Lisa Shipley, Janet Rachlow, Laura Bond, Rick Kelsey, and Jennifer Forbey	Nutritional and chemical factors shaping the “foodscape” of a dietary specialist herbivore, the pygmy rabbit	240	Bradley S. Cohen*§, David A. Osborn, George R. Gallagher, Robert J. Warren, and Karl V. Miller.	Development and use of an automated device for conducting visual discrimination tests with white-tailed deer	248	James D. Kelly*§, William D. Gulsby, Karl V. Miller, Charlie Killmaster, and John Bowers	Coyote food habits in the Piedmont region of Central Georgia
11:45	233	Meghan. J. Camp*§, B. A. Woods, Janet L. Rachlow, T. R. Johnson, and Lisa A. Shipley	I can see you, but you can't see me: the relationship between visibility and concealment in sagebrush habitat and potential tradeoffs	241	Hayley Stannard*†§ and Julie Old	Digestibility trials of two captive dasyurids: the kultarr (<i>Antechinomys laniger</i>) and red-tailed phascogale (<i>Phascogale calura</i>)	249	Kevin L. Monteith*, Vernon C. Bleich, Thomas R. Stephenson, Becky M. Pierce, Mary M. Conner, Robert. W. Klaver, and R. Terry Bowyer	Timing of seasonal migration in mule deer: effects of climate, plant phenology, and life history characteristics

12:00		Lunch	
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		Technical Session 22—Conservation				Technical Session 23—Genetics				Technical Session 24—Natural History	
		Moderator: Edward J. Heske	Room: Hoffmann Hall			Moderator: Jessica E. Light	Room: Native American Student Ctr.			Moderator: Guy N. Cameron	Room: Ondine Hall 218–220
13:15	250	Chris Pavey* and Chris Burwell	Diet and prey selection of the southern marsupial mole <i>Notoryctes typhlops</i> : an enigma from Australia's sand deserts	257	Isabel Arely Hernández–Dávila*§, Jorge Ortega, Jorge A. Vargas, and Burton Lim	The use of DNA barcode (barcoding) to determine diversity of phyllostomid bats of the Yucatán peninsula	264	Amy Cross*§ and George Feldhamer	Microhabitat use by golden mice (<i>Ochrotomys nuttalli</i>) in southern Illinois		
13:30	251	Jennifer M. Duggan*§, Robert L. Schooley, and Edward J. Heske	Influence of habitat quality, patch size, and spatial connectivity on occupancy and turnover of Franklin's ground squirrel (<i>Poliocitellus franklinii</i>)	258	Katelyn I. Schumacher*§, Brian S. Arbogast, James L. Sparks, John F. Pagels, Rodney J. Dyer, and Bonnie L. Brown	Genetic evidence for a new subspecies of the endangered northern flying squirrel (<i>Glaucomys sabrinus</i>) in southwestern Virginia: implications for taxonomy and conservation	265	Suellen A. Jacob*§ and Guy N. Cameron	Effects of microhabitat and weather conditions on foraging behavior of white footed mice		

13:45	252	Rosa R. Jessen*§ and John L. Koprowski	Habitat associations and use by Neotropical tree squirrels in the Peruvian Amazon	259	Diana L. Dishman*§, Deborah A. Duffield, Harriet R. Huber, Dyanna M. Lambourn, and James M. Rice	Sex-biased gene flow appears to maintain genetic exchange among pacific harbor seal (<i>Phoca vitulina richardsi</i>) populations along the coasts of Washington and Oregon	266	Scott Nunes*, Mikael D. Langner, Michael G. Harrie, Natalie E. Lowry, and Deidre A. Doyle	Responses of maternal Belding's ground squirrels to a non-threatening intruder: experience improves discrimination
14:00	253	Gillian Holloway* and Winston Smith	Influence of forest structure and experimental green-tree retention on northern flying squirrels (<i>Glaucomys sabrinus</i>)	260	Sarah Courbis*§, Robin W. Baird, Frank Cipriano, and Deborah A. Duffield	Examining baselines for biologically significant genetic differentiation levels: Pantropical spotted dolphins as an example	267	Gerald Carter*§, Rob Mies, Gerald Wilkinson	Reciprocal food sharing in vampire bats revisited
14:15	254	Brian Cypher*, Alexandra Madrid, Christine Van Horn Job, Erica Kelly, Stephen Harrison, and Tory Westall	Foraging patterns of island foxes: implications for conservation	261	John J. Andersen*§, John C. Hafner, and Jessica E. Light	Population dynamics of the pallid kangaroo mouse, <i>Microdipodops</i>	268	L. Leann Kanda*, Laura Easton, Jeffrey Hatzel, and Laura Louon	Temperament and space use in wild muskrat
14:30	255	Janet L. Rachlow*, Meghan K. Lonneker, Lisa A. Shipley, Eveline S. Larrucea, and William R. Bosworth	Mapping the distribution of uncommon mammals: pygmy rabbits in the sagebrush steppe	262	Karen E. Munroe*§ and John L. Koprowski	Social behaviors and genetic structure in a population of round-tailed ground squirrels (<i>Xerospermophilus tereticaudus</i>): what you see isn't always what you get	269	Scott LaPoint§ and Roland Kays	Behavior and ecology of fisher (<i>Martes pennanti</i>) inhabiting an urban ecosystem
14:45	256	Jamie Utz*§, Lisa Shipley, Janet Rachlow, and Jennifer Forbey	Understanding the tradeoff between safety and food quality in pygmy rabbits (<i>Brachylagus idahoensis</i>)	263	Matthew MacManes* and Eileen Lacey	Behavioral genomics: using transcriptome sequencing to identify genes influencing social behavior	270	J. Anthony Friend	Is Gilbert's Potoroo still the world's rarest marsupial?

15:00		Refreshments	
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		Technical Session 25—Biogeography				Technical Session 26—Genetics				Technical Session 27—Systematics	
		Moderator: Janet K. Braun	Room: Hoffmann Hall		Moderator: Ronald A. Van Den Bussche	Room: Native American Student Ctr.		Moderator: Darin S. Carroll	Room: Ondine Hall 218–220		
15:30	271	Brandi S. Coyner*, Janet K. Braun, Michael A. Mares, and Ronald A. Van Den Bussche	Phylogenetic and biogeographic relationships of South American grass mice, genus <i>Akodon</i> (Rodentia: Cricetidae), using a multi-gene approach	277	Zachary S. Taylor* and Susan M. G. Hoffman	Mice get around: landscape correlates of genetic variation in white-footed mice (<i>Peromyscus leucopus</i>)	283	Paul Velazco* and Nancy B. Simmons	Systematics and taxonomy of great striped-faced bats of the genus <i>Vampyroides</i> Thomas, 1900 (Chiroptera: Phyllostomidae)		
15:45	272	Hayden T. Gardner*§ and Christy M. McCain	The relationship between species diversity and environmental productivity: a study of small mammals in the Front Range of Colorado	278	Sarah R. Welborn*§ and Jessica E. Light	Population genetic analyses of the Baird's pocket gopher, <i>Geomys breviceps</i>	284	Serena A. Carroll*, Tara K. Sealy, Brian R. Amman, Alan Kemp, Robert Swanepoel, Pierre B. H. Formenty, Stephen Balinandi, John T. Kayiwa, James A. Comer, James N. Mills, Jordan W. Tappero, Emmanuel Byaruhanga, Robert Downing, Thomas G. Ksiazek, Stuart T. Nichol, and Jonathan S. Towner	Which <i>Hipposideros</i> is which? Cryptic species in the <i>Hipposideros caffer</i> complex from Uganda		
16:00	273	J. Angel Soto-Centeno*§ and David L. Reed	Assessing the effects of late Pleistocene climate on populations of Greater Antillean long-tongued bats (Phyllostomidae: <i>Monophyllus redmani</i>)	279	Justin B. Lack*, Dan Greene, Meredith K. Hamilton, Michael A. Mares, Janet K. Braun, and Ronald A. Van Den Bussche	<i>Rattus</i> phylogeny reveals novel <i>R. tanezumi</i> invasion and hybridization in the United States	285	Eric J. Sargis*, Neal Woodman, Aspen T. Reese, and Link E. Olson	Hand proportions in tree shrews (Scandentia, Tupaiidae) and taxonomic boundaries within the <i>Tupaia glis-belangeri</i> species complex		

16:15	274	Rebecca C. Terry*, Cheng Lily Li, Elizabeth A. Hadly	Predicting species responses to climatic warming: hindcasting the past using the modern geographic range	280	William S. Beatty*§, James C. Beasley, and Olin E. Rhodes, Jr.	Regional and local genetic structure in the virginia opossum (<i>Didelphis virginiana</i>) in a fragmented landscape	286	Juan F. Diaz–Nieto*§, Robert S. Voss, Sharon A. Jansa	Diversification in the Neotropics: phylogenetic and phylogeographic analyses of the genus <i>Marmosops</i> (Didelphimorphia: Didelphidae)
16:30	275	Robert P. Anderson*, Eliécer E. Gutiérrez, José Ochoa–G., Franger J. García, and Marisol Aguilera	Habitat requirements, body size, and tests for differential immigration and extinction in small mammals of the sky islands of Falcón, Venezuela	281	David W. Hale	Aneuploid primary meocytes in rodents	287	Nancy D. Moncrief*, Wm. David Webster, Jerry R. Choate, and Hugh H. Genoways	Systematic revision of the northern short–tailed shrew, <i>Blarina brevicauda</i> (Say)
16:45	276	Kevin Bracy Knight*§ and Christy M. McCain	Elevational Rapoport’s rule: montane small mammals challenge its consistency	282	Ric How*, Celeste de Haas, Greg Cozens, Peter Spencer, and Linc Schmitt	Geographic variation in morphology and genetics of an island specialist: the tropical Kimberley rock rat, <i>Zyomys woodwardi</i>	288	Neal Woodman	Taxonomic status and relationships of <i>Sorex obscurus parvidens</i> Jackson, 1921, from California: the <i>Sorex obscurus/ vagrans/ monticolus/ ornatus</i> question

17:00	Dinner
17:00–18:30	AMS Dinner and Awards

18:15–19:45	Poster Session II	Hoffmann Hall
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288	P.B.Vrana*, A. Lewandowski, J. Kenney–Hunt, T. Glenn, J. Glenn, C.–F. Chen, K. Shorter, M. J. Dewey, G. Szalai, and M. R. Felder.	Development of resources for <i>Peromyscus</i> genomic research
289	Amanda H. Eisemann*, Francisca M. Mendez–Harclerode, Robert D. Bradley, Charles F. Fulhorst, and Michelle L. Haynie	Genetic variation at seven microsatellite loci in <i>Neotoma albigula</i> (white–throated woodrat) from Arizona
290	Ethan B. Rowell*, Matthew R. Mauldin, Michelle L. Haynie, and Robert D. Bradley	Genetic evaluation of a <i>Neotoma micropus/Neotoma floridana</i> hybrid zone

291	Shey R. Ramsey*, Francisca M. Mendez–Harclerode, Robert D. Bradley, Charles F. Fulhorst, and Michelle L. Haynie	Mitochondrial d–loop sequence variation among <i>Neotoma albigula</i> (white–throated woodrat) from Arizona
292	Melissa T. Roberts*§, Jennifer A. Leonard, Kristofer M. Helgen, Richard Thorington, and Jesús E. Maldonado	Phylogenetic analysis of the Southeast Asian tree squirrel subfamily Nannosciurinae, implications for a dynamic biogeographic past and patterns of speciation
293	Aaron F. Goldberg* and Liliana M. Dávalos	Hypothesis testing in historical biogeography: a null model based on equilibrium theory
294	Liliana M. Dávalos*, Andrea Wetterer, Jonathan H. Geisler, and Nancy B. Simmons	Everything but the kitchen sink: saturation in morphology and molecules, gene trees, ecological convergence, and phylogenetic conflict in the Phyllostomidae
295	Barbara J. Shaw* and Luis A. Ruedas*	Elucidating semi–aboreal locomotion of small ground sloths (Superorder Xenarthra, Order Pilosa)
296	Angela D. Hornsby*§ and Marjorie D. Matocq	Ecogeographic and phylogenetic patterns in <i>Neotoma cinerea</i> morphology
297	Cecilia Hennessy*§, Chia–Chun Tsai, Patrick Zollner, and Olin E. Rhodes, Jr.	Barrier effects of interstate highways on eastern chipmunks (<i>Tamias striatus</i>)
298	Randall J. Wilk, Tom Manning, and Winston P. Smith*	Response of Townsend’s and Siskiyou chipmunks to variable retention logging in Pacific Northwest Forest experimental blocks
299	Xianfeng Yi*, Michael A. Steele, and Zhibin Zhang	A novel cache management strategy of the Siberian chipmunk, with implications for oak regeneration
300	Mary S. Niebels*§, Thomas J. McGreevy Jr., Brian C. Tefft, Amy E. Gottfried, and Thomas P. Husband	Distribution and conservation genetics of the New England cottontail (<i>Sylvilagus transitionalis</i>) in southern New England
301	Bonnie A. Woods*§, Meghan J. Camp, Janet L. Rachlow, Timothy R. Johnson, Lisa S. Shipley, and Jennifer S. Forbey	Using giving up densities as a metric of predation risk in free–ranging mammals: evaluating habitat tradeoffs by pygmy rabbits in the field
302	Winnifred E. A. Pipkin*§, Kelly A. Smith, and Michelle L. Haynie	Mitochondrial d–loop sequence variation in striped skunks (<i>Mephitis mephitis</i>) from the central United States
303	Jacob J. Burkhart, Stephanie Sell, Ole Nielsen, Brendan P. Kelly, and Bradley J. Swanson*	Reduced gene flow in ringed seals (<i>Pusa hispida</i>) caused by Hudson Bay
304	Jill Devine*§, Sara Ressing, George A. Feldhamer, and Agustín Jiménez	Age–related morphometrics in the eastern mole (<i>Scalopus aquaticus</i>)
305	George A. Feldhamer* and Brenna N. Towery	Dental anomalies in the eastern mole (<i>Scalopus aquaticus</i>)
306	Katy Estill*§, Eve Waters, Nathan Sutter, and Monte L. Thies	An analysis of morphological variation in domestic rabbit breeds (<i>Oryctolagus cuniculus</i>)
307	Brady Y. Neiles*, Carisa R. Stansbury, Merav Ben–David, Steven W. Buskirk, and Jonathan N. Pauli	Efficacy of morphometric body condition indices for American and Pacific martens
308	Annie McNutt*§, Graham J. Slater, Abigail A. Curtis, and Blaire Van Valkenburgh	Humeral shape and locomotor behavior in carnivores
309	Jay A. O’Sullivan	Testing the Ferocious Pony Hypothesis
310	Monte L. Thies*, Irisa Arney, Bertin Denova, Julie Taylor, and Patrick J. Lewis	Species–level apomorphies in Southern African microfauna: data from the post–crania
311	Salvatore J. Agosta*, Joseph Bernardo, and Michael A. Steele	Macrophysiology of mammal distributions – do species with higher rates of basal metabolism have larger geographic ranges?
312	Christine Oswald	Comparison of several blood parameters in deer mice (<i>Peromyscus maniculatus</i>) from serpentine

		and non-serpentine areas
313	Jacob Templin and Ian G. van Tets*	Using the doubly-labeled water method to measure field metabolic rate in northern red-backed voles, <i>Myodes rutilus</i>
314	Samantha Hunt-Viehland, Misha Mazurkewycz, and Cary D. Chevalier*	Blood serum chemistry and hematology in field-fresh raccoons (<i>Procyon lotor</i>) in northwest Missouri during summer
315	Molly Bechtel*§, David Thain, and Nathan Nieto	A comparison of microhistology and PCR analysis in assessing desert bighorn sheep diets in central Nevada
316	Candace Williams, Natalie Calatayud*, William Holmes, J. Fields Falcone, Darrell Sparks, Carol Williams, Andy Kouba, Scott Willard, and Ashli Brown	Dietary effects on the gastrointestinal microflora of the giant panda
317	Keith B. Aubry*, Catherine M. Raley, Steven W. Buskirk, William J. Zielinski, Richard T. Golightly, Kathryn L. Purcell, Richard D. Weir, and J. Scott Yaeger	Meta-analysis of resting habitat selection by the fisher in the pacific coastal states and provinces
318	Catherine M. Raley* and Keith B. Aubry	Food habits of the fisher in the cascade range of southern Oregon
319	Yeong-Seok Jo§	Distribution and diet of Eurasian otters (<i>Lutra lutra</i>) in South Korea
320	Janice Koler-Matznick*, I. Lehr Brisbin, Jr., and Mark Feinstein	New Guinea dingo vocalizations
321	Adam W. Ferguson*§, Nicté Ordóñez-Garza, Lizette Siles, Megan S. Corley, Michael Panasci, Walter Bulmer, Ralph P. Eckerlin, and John O. Matson	Five weeks without a skunk: survey results from an expedition to Guatemala, July–August 2010
322	Jorge Brito M. and William R. Teska*	Description of the nests and movements of two species of <i>Thomasomys</i> (Cricetidae) from an Andean woodland in Ecuador
323	Donald W. Kaufman, Dawn M. Kaufman*, Glennis A. Kaufman	Habitat preference and distribution of an uncommon mouse in tallgrass prairie: 30 years of the hispid pocket mouse
324	Rachel E. Walsh*§, Eileen A. Lacey, Todd Dawson, James L. Patton, and Craig Moritz	Influence of diet on elevational range shift patterns of chipmunks (<i>Tamias</i> spp.) in Yosemite National Park over the past century
325	Marcia A. Revelez, Janet K. Braun*, and Michael A. Mares	Rehousing and long-term monitoring of the fluid specimens in the collection of mammals at the Sam Noble Oklahoma Museum of Natural History
326	Suzanne Peurach*, Kyndall Hildebrandt, and Meghan Truckey	Behind the scenes: the hidden gems of the Smithsonian Institution's National Museum of Natural History Mammal Collections
327	Sara Beatriz González-Pérez*, Gary D. Schnell, María de Lourdes Romero-Almaraz, Cornelio Sanchez-Hernández, Michael L. Kennedy, and Troy L. Best	Bats of Colima, Mexico: identifying distributional patterns, characterizing ecological aspects of distributions and predicting habitats
328	Benjamin P. Pauli, Patrick A. Zollner, Scott Haulton, Gang Shao, Guofan Shao, and Dale W. Sparks	Application and evaluation of Indiana bat habitat suitability models on Indiana state forests
329	Christian Alejandro Delfin-Alfonso, Carlos Alberto López-González, and Miguel Eduardo Equihua-Zamora	Conditions affecting environmental and geographical distribution of black bear in the Sierra Madre Occidental ecoregion and sky islands
330	Jason L. Malaney*§, Andrew G. Hope, Yadéeh E. Sawyer, Steven O. MacDonald, and Joseph A. Cook	Phylogeography and historical demography highlight biogeographic processes for boreal mammals in western North America
331	Kayce Bell*§, Eric Hoberg, John R. Demboski, and	Complexity in a wormy world: revealing phylogeography among chipmunks and pinworms

	Joseph A. Cook	
332	Sean P. Maher* and Andreas S. Chavez	Understanding the ecological niche of <i>Tamiasciurus</i>
333	Katherine M. Thibault* and Rebecca Hufft Kao	The national ecological observatory network challenge: designing continental-scale, standardized sampling for mammals
334	Michael T. Calkins* and Anita T. Morzillo	Habitat connectivity for red tree voles across the Pacific Northwest
335	Steven M. Sullivan§	Project Squirrel: perceptual differences towards urban habitats by sympatric populations of squirrels and humans
336	Jana Eggleston*§ and Robert K. Rose	A small mammal community in a changing landscape in southeastern virginia, 2005–2011
337	Lynda A. Randa	Effects of vole herbivory on plant species composition and abundance in an urban prairie restoration
338	Erika R. Arnold	Why the perspective of a parasite matters
339	Danielle E. Garneau*, Andrew S. Rumpf, Emily S. Weyburne, Thomas M. Cuppernull, Meghan E. Lawler, and Adam G. Boe	Potential effects of beech bark disease on small mammals and invertebrates in northeastern U.S. forests
340	John C. Lisek*§ and Victoria L. Jackson	Predicting occupancy from a community survey of medium to large-sized mammalian carnivores and herbivores in the Tuli Game Reserve of Botswana
341	Diana J. Raper, Tania Lewis, Quinn Payton, Anita T. Morzillo*	Carrion use by vertebrate scavengers in the Gustavus–Glacier Bay ecosystem, Alaska
342	Sara M. Ressing§	Small mammals, heavy metals, big problems?
343	Danielle M. Tufts*§ and Scott L. Gardner	Endoparasite species of the North American pika (<i>Ochotona princeps</i>) from Colorado
344	Evan C. Wilson*§ and Stanley D. Gehrt	A cost of urban living? Sarcoptic mange in urban coyotes
345	Siddiqua Bano and Naheed Sultana*	Clinical–biochemical alteration in goats during helminthiasis and their therapeutic management
346	Anna Czupryna*§, Rachel Santymire, Lisa Faust, Machunde Bigambo, Joel Brown, and Chris Whelan	Effects of vaccination program on stress hormone concentrations in free ranging domestic dogs in Tanzania
347	Craig Gritzen* and M. Denise Dearing	Co-infection with endoparasites and Sin Nombre virus in deer mice (<i>Peromyscus maniculatus</i>)
348	Nadia F. Gallardo–Romero*, Sonja L. Weiss, Clifton Drew, Scott K. Smith, Yoshinori J. Nakazawa, Jeanine Bartlett, Maureen Metcalfe, Cody J. Clemmons, Ginny L. Emerson, Christina L. Hutson, Victoria A. Olson, Whitney B. Davidson, Kevin L. Karem, and Darin S. Carroll	Volepox virus pathogenesis in <i>Peromyscus californicus</i>
349	John A. Yunger*, Hairong Lin, and Xin Lu	Relationship of heavy metals among three trophic levels: soil, cotton, and rodents in Xinjiang, China
350	Christopher Collins and Roland Kays	The effect of disease and parasites on activity patterns in white-footed mice
351	Steven R. Sheffield	Human-induced mammalian mortality patterns across North America: loss of carnivores in the United States and Canada
352	Link E. Olson*, Aren M. Gunderson, Karen M. Blejwas, and Steven O. MacDonald	“Mitochondrial area codes” of existing museum specimens reveal new bat records for Alaska
353	Abigail A. Curtis*§ and Blaire Van Valkenburgh	A quantitative study of frontal sinuses in Carnivora
354	Sarah Lou Malick*§, John G. Bruggink, and Jerrold L. Belant	The influence of patch size, isolation, and spotted knapweed on small mammal community structure in the Grand Sable Dunes of Pictured Rocks National Lakeshore, Michigan

355	Aimee P. Rockhill*§ and Christopher S. DePerno	The efficiency of surveying mammals in coastal wetlands; distribution, richness, and abundance
356	Isaac M. Ortega	Defending the territory until death do us part? A guanaco soap opera
358	Mark S. Hafner, Amber R. Gates, Verity L. Mathis*§, James W. Demastes, and David J. Hafner	Resurrecting a species of pocket gopher (genus <i>Thomomys</i>) using molecules, morphology and niche modeling
359	Zachary S. Taylor* and Susan M. G. Hoffman	Mice get around: landscape correlates of genetic variation in white-footed mice (<i>Peromyscus leucopus</i>)
360	James G. Hallett* and Margaret A. O'Connell	Assessment of differences in community composition using similarity/dissimilarity measures
361	K. J. Califf§, B. L. Williams, K. E. Holekamp	Evolution of immune system genes within the family Hyaenidae: implications for mate choice
362	Michael S. Rentz	Still trapping happy: a comparison of three common live traps (Ugglan, Sherman, and Fitch-style)
363	Floyd W. Weckerly	Density-associated changes in group sizes of male and female elk and use of meadows
364	Rachel Rule* and Judd Case	New species of dasyuromorphian marsupials from Late Oligocene deposits, Tirari Desert, South Australia
365	Kerry L. Nicholson, Sutirtha Dutta, S.P. Goyal, Q. Qureshi, and D. Singh	To kill or not to kill? Understanding the drivers of human-leopard interactions from spatio-temporal patterns in a high conflict region of India
366	Brett Woods	Using consomic rats to determine genes that confer protection against negative effects of high fat diet and the connection to hibernators

		Capstone Address	Lincoln Hall Auditorium
20:00	367	Elizabeth Hadly	Ecological and evolutionary responses of mammals to climatic change: insights from the Late Quaternary fossil record

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