

CURRICULUM VITAE of BRETT ROBERT RIDDLE

CURRENT POSITION

Professor, promotion and tenure 1996, promotion 2002
University of Nevada Las Vegas
College of Sciences
Department of Biological Sciences
4505 Maryland Pkwy.
Las Vegas NV 89154-4004

Telephone Numbers: 702 895-3133 (work)
702 281-0286 (home)
FAX Number: 702 895-3956
e-mail address brett.riddle@unlv.edu
web site <http://faculty.unlv.edu/riddle>

BIOGRAPHICAL INFORMATION

Place of birth: Boulder, Colorado
Country of citizenship: USA

EDUCATION

BA, University of Northern Colorado, Greeley, Colorado, 1979 (Biology)
MS, Fort Hays State University, Hays, Kansas, 1984 (Zoology)
PhD, University of New Mexico, Albuquerque, New Mexico, 1990 (Biology)

RESEARCH INTERESTS

Molecular systematics and evolution of mammals and other vertebrate taxa
Biogeography, phylogeography, and paleoecology
Evolution of North American biotas
Conservation biology

EMPLOYMENT HISTORY, SINCE 1979

2002-present Professor, University of Nevada Las Vegas
1996-02 Associate Professor, University of Nevada Las Vegas
1990-96 Assistant Professor, University of Nevada Las Vegas
1988-89 Research Assistant, Department of Biology, UNM
1985 Research Assistant, Department of Biology, UNM
1984-86 Assistant Curator, Museum of Southwestern Biology, UNM
1984 Biological Technician, Denver Wildlife Research Center

1981-83	Curatorial Assistant, Museum of the High Plains, FHSU
1983	Biological Technician, National Museum of Natural History
1981-83	Biological Technician, Denver Wildlife Research Center
1980-81	Graduate Research Assistant, FHSU
1980	Wildlife Technician, Colorado Division of Wildlife
1979-80	Technician, National Fish and Wildlife Laboratories

UNLV COURSE DEVELOPMENT AND INSTRUCTION

BIO 191	Principles of Modern Biology II [lecture, with S. Smith]
BIO 796	Systematics seminar [graduate seminar]
BIO 434/634	Mammalogy [lecture/lab]
BIO 496/790	Advanced Field Mammalogy [seminar/field]
BIO 490/690	Biogeography
BIO 493/796	Advanced Biogeography seminar
BIO 784	Conservation Biology [lecture/discussion]
BIO 155x	Natural History of the Desert Southwest [lecture, with S. Smith]
BIO 487/687	Principles of Systematics [lecture]
BIO 792	Molecular Biogeography [graduate seminar]
BIO 791	Molecular Systematics [graduate seminar]
BIO 714	Population Genetics [lecture, with D. Thompson]
BIO 796	Historical Ecology [graduate seminar]
BIO 796	Speciation [graduate seminar, with D. Thompson]

PUBLICATIONS

BOOKS

- Lomolino, M. V., B. R. Riddle, R. J. Whittaker, and J. H. Brown. 2010. *Biogeography, fourth edition*. Sinauer Associates, Inc.
- Lomolino, M. V., B. R. Riddle, and J. H. Brown. 2006. *Biogeography, third edition*. Sinauer Associates, Inc.

BOOK CHAPTERS

- Riddle, B.R., R.J. Ladle, S. Lourie, and R.J. Whittaker. *in press*. Chapter 4: *Basic biogeography: estimating biodiversity and mapping nature*. in Conservation Biogeography (R.J. Whittaker and R.J. Ladle, eds.). Wiley-Blackwell, Oxford.
- Riddle, B.R. *in press*. *Biogeography*. Pp. xxx-xxx, in Encyclopedia of Climate and Weather, 2nd Edition (S. Schneider and M. Mastrandrea, eds.). Oxford University Press, New York.
- Riddle, B.R. *in press*. *The expanding role of phylogeography in historical biogeography, ecology, evolution, and conservation / global change biology*. Pp. xxx-xxx, in The Handbook of Biogeography (A. Millington, M. Blumler, G. MacDonald, and U. Shickhoff eds.). Sage Publications Limited.
- Hafner, D.J. and B.R. Riddle. *in press*. *Boundaries and barriers of North American warm deserts: an evolutionary perspective*. Pp. xxx-xxx, in Palaeogeography and Palaeobiogeography: Biodiversity in Space and Time. (P. Upchurch, A McGowan, and C.

- Slater, eds.). CRC Press, Boca Raton.
- Bryson, R.W., F. Mendoza-Quijano, and B.R. Riddle. 2008. *Aguascalientes: pequeno estado, gran biogeografía*. Pp. 67 in: *La biodiversidad en Aguascalientes: estudio de estado*. Comisión Nacional para el Conocimiento y Uso de Biodiversidad (CONABIO), México D.F.
- Riddle, B. R. and D. J. Hafner. 2006. *Phylogeography in historical biogeography: investigating the biogeographic histories of populations, species, and young biotas*. Pp. 161-176, in *Biogeography in a Changing World*. (M.C. Ebach and R.S. Tangney, eds.). CRC Press, Boca Raton.
- Hafner, D. J., and B. R. Riddle. 2005. *Mammalian phylogeography and evolutionary history of northern Mexico's deserts*. pp. 225-245. in *Biodiversity, ecosystems, and conservation in northern Mexico*. (J-L. Cartron, G. Ceballos, and R.S. Felger, eds.). Oxford University Press, New York.
- Riddle, B. R. and D. J. Hafner 2004. *The past and future roles of phylogeography in historical biogeography*. Pp. 93-110, in *Frontiers of biogeography: new directions in the geography of nature* (M. V. Lomolino and L. R. Heaney, eds.). Sinauer Associates, Inc.
- Riddle, B. R. and V. Funk. 2004. *Part II: Phylogeography and Diversification* Pp. 87-91, in *Frontiers of biogeography: new directions in the geography of nature* (M. V. Lomolino and L. R. Heaney, eds.). Sinauer Associates, Inc.
- Giller, P. S., A. A. Myers, and B. R. Riddle. 2004. *Earth history, vicariance, and dispersal*. Pp. 267-276 in *Foundations of biogeography: classic papers with commentaries* (J.H. Brown, M.V. Lomolino, and D. Sax, eds.). University of Chicago Press.
- Hengeveld, R., P. S. Giller, and B. R. Riddle. 2004. *Species Ranges*. Pp. 449-455 in *Foundations of biogeography: classic papers with commentaries* (J.H. Brown, M.V. Lomolino, and D. Sax, eds.). University of Chicago Press.
- Lawlor, T.E., D.J. Hafner, P. Stapp, B.R. Riddle, and S.T. Alvarez-Castaneda. 2002. *Mammals*. Pp. 326-361, in *A new island biogeography of the Sea of Cortés* (T.J. Case, M.L. Cody, and E. Ezcurra, eds.). Oxford University Press, New York.
- Riddle, B.R. 1999. *Onychomys arenicola*. Pp. 588, in *The Complete Book of North American Mammals* (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Riddle, B.R. 1999. *Onychomys leucogaster*. Pp. 588-590, in *The Complete Book of North American Mammals*. (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Riddle, B.R. 1999. *Onychomys torridus*. Pp. 590-591, in *The Complete Book of North American Mammals*. (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Riddle, B.R. 1999. *Perognathus fasciatus*. Pp. 497, in *The Complete Book of North American Mammals*. (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Hafner, D.J., and B.R. Riddle. 1997. *Biogeography of Baja California peninsular desert mammals*. pp. 39-68, in *Life Among the Muses: Papers in Honor of James S. Findley*, eds. T.L. Yates, W.L. Gannon, and D.E. Wilson. The Museum of Southwestern Biology, The University of New Mexico, Albuquerque.
- Riddle, B.R., and K.B. Jones, Jr. 1996. *Relating phylogeographic population structure to issues in conservation biology*. pp. 108-120, in *Biodiversity in Managed Landscapes*, eds. D. Johnson and R. Szaro. Oxford University Press.
- Jones, K.B., Jr., and B.R. Riddle. 1996. *Regional scale monitoring of biological diversity*. pp. 193-209, in *Biodiversity in Managed Landscapes*, eds. D. Johnson and R. Szaro. Oxford University Press.

JOURNAL ARTICLES

- Houston, D., D. K. Shiozawa, and B. R. Riddle. In review. *The roles of Neogene geology and late Pleistocene lake levels in shaping genetic structure of the Lahontan redbside shiner Richardsonius egregius (Teleostei; Leuciscidae)*. Biological Journal of the Linnean Society.
- Riddle, B.R. in press. *review of: The Biology of Deserts*. The Quarterly Review of Biology xx:xxx-xxx.
- Riddle, B.R. 2010. *Interview with John C. Avise, recipient of the 2007 Alfred Russel Wallace Award*. Frontiers of Biogeography x:xxx-xxx.
- Bryson, R.W., Jr., García-Vázquez, U.O., and B.R. Riddle. *accepted pending revision. Phylogeography of Middle American pinesnakes: mixed responses to biogeographic barriers*. Journal of Biogeography.
- Jezkova, T., Olah-Hemmings, V., and B.R. Riddle. *in review. Niche shift in situ in response to warming climate at the end of the last glacial maximum: inference from genetic data and niche assessments in the chisel-toothed kangaroo rat (Dipodomys microps)*. Global Change Biology.
- Jezkova, T., J.R. Jaeger, V. Olah-Hemmings, K.B. Jones, D.G. Mulcahy, and B.R. Riddle. *in review. Climatic promotion of niche shifts: A case study of the desert horned lizard (Phrynosoma platyrhinos)*. Molecular Ecology.
- Jezkova, T., J.R. Jaeger, A.M. Ambos, P.M. Conrad, and B.R. Riddle. *in review. Distribution, phylogeographic structure and habitat associations of Greater and Pygmy Short-horned lizards (genus: Phrynosoma) in the Great Basin with focus on Nevada*. Copeia.
- Mantooth, S. J., and B.R. Riddle. *in press. Molecular biogeography: the intersection between geographic and molecular variation*. invited review, Geography Compass.
- Bryson, R.W., Jr., Montes de Oca, A.N., Jaeger, J.R., and Riddle, B.R. 2010. *Elucidation of cryptic diversity in a widespread Nearctic treefrog reveals episodes of mitochondrial gene capture as frogs diversify across a dynamic landscape*. Evolution 64:2315-2330.
- Riddle, B.R., and D.J. Hafner. 2010. *Integrating pattern with process at biogeographic boundaries: the legacy of Wallace*. Introductory essay to symposium papers. Ecography 33:321-325.
- Houston, D., D. K. Shiozawa, and B. R. Riddle. 2010. *Phylogenetic relationships of the western North American cyprinid genus Richardsonius, with an overview of phylogeographic structure*. Molecular Phylogenetics and Evolution 55:259-273.
- Oláh-Hemmings, V., J.R. Jaeger, M.J. Sredl, M.A. Schlaepfer, R.D. Jennings, C.A. Drost, D.F. Bradford, and B.R. Riddle. 2010. *Phylgeography of declining relict and lowland leopard frogs in the desert Southwest of North America*. Journal of Zoology 280:343-354.
- Neiswenter, S.A. and B.R. Riddle. 2010. *Evolution of silky pocket mice in the Perognathus flavus species-group: diversification in emerging grasslands in western North America*. Journal of Mammalogy 91:348-362.
- Riddle, B.R., and R.J. Whittaker. 2009. *The first humans, the second orangutan and the third chimpanzee*. Journal of Biogeography 36:1821-1822.
- Riddle, B.R. 2009. *review of: Evolutionary biogeography: an integrative approach with case studies*. The Quarterly Review of Biology 84:294-295.
- Riddle, B.R. 2009. *What is modern biogeography without phylogeography?* Journal of

- Biogeography 36:1-2.
- Jezkova, T., J. R. Jaeger, Z. L. Marshall, and B.R. Riddle. 2009. *Pleistocene impacts on the phylogeography of the desert pocket mouse (Chaetodipus penicillatus)*. Journal of Mammalogy 90: 306-320.
- Riddle, B.R., M.N. Dawson, E.A. Hadly, D.J. Hafner, M.J. Hickerson, S.J. Mantooth, and A.D. Yoder. 2008. *The role of molecular genetics in sculpting the future of integrative biogeography*. Progress in Physical Geography 32: 173-202.
- McGuire, J.A., C.W. Linkem, M.S. Koo, D.W. Hutchinson, A.K. Lappin, D.I. Orange, J. Lemos-Espinal, B.R. Riddle, and J.R. Jaeger. 2007. *Mitochondrial introgression and incomplete lineage sorting through space and time: phylogenetics of crotaphytid lizards*. Evolution 61: 2879-2897.
- Hafner, J.C, J.E. Light, D.J. Hafner, M.S. Hafner, E. Reddington, D.S. Rogers, and B.R. Riddle. 2007. *Basal clades and molecular systematics of heteromyid rodents*. Journal of Mammalogy 88:1129-1145.
- Spellman, G.M., B.R. Riddle, and J. Klicka. 2007. *Phylogeography of the Mountain Chickadee (Poecile gambeli): diversification, introgression, and expansion in response to Quaternary climate change*. Molecular Ecology 16:1055-1068.
- Williams, J.A., M.J. O'Farrell, and B.R. Riddle. 2006. *Community structure and habitat use by bats in a riparian corridor of the Mojave Desert of southern Nevada*. Journal of Mammalogy 87:1145-1153.
- Riddle, B.R. 2006. Frontispiece to Special Issue: Conservation Biogeography. Journal of Biogeography 33:2025-2026.
- Lomolino, M.V., D.F. Sax, B.R. Riddle, and J.H. Brown. 2006. *The island rule and a research agenda for studying ecogeographical patterns*. Journal of Biogeography 33:1503-1510.
- Riddle, B. R. and D. J. Hafner. 2006. *A step-wise approach to integrating phylogeographic and phylogenetic biogeographic perspectives on the history of a core North American warm deserts biota*. Journal of Arid Environments 66:435-461. [Invited Submission for Special Feature on Historical Biogeography of Deserts].
- Riddle, B.R. and D.J. Hafner. 2006. *Biografía histórica de los desiertos cálidos de Norteamérica*. New Mexico Museum of Natural History & Science Bulletin 32:57-65.
- Mantooth, S.J., and B.R. Riddle. 2005. *Annotated checklist of the Recent mammals of Nevada*. Occasional Papers, Museum, Texas Tech University.
- Riddle, B. R. 2005. *The International Biogeography Society and the inaugural Alfred Russel Wallace Award*. Journal of Biogeography 32:1507-1508.
- Jaeger, J. R., B. R. Riddle, and D. F. Bradford. 2005. *Cryptic Neogene vicariance and Quaternary dispersal of the red-spotted toad (Bufo punctatus): insights on the evolution of North American warm desert biotas*. Molecular Ecology, 14:3033-3048.
- Riddle, B. R. 2005. *Is biogeography emerging from its identity crisis?* Journal of Biogeography, 32: 185-186.
- Alexander, L.F., and B.R. Riddle. 2005. *Phylogenetics within the family Heteromyidae*. Journal of Mammalogy, 86:366-379.
- Riddle, B.R. 2004. *Review of Cladistics: A Practical Primer*. Journal of Mammalogy, 85:169-170.
- Hunter, K. H., J. L. Betancourt, B. R. Riddle, et al. 2001. *Ploidy race distributions since the Last Glacial Maximum in the North American desert shrub, Larrea tridentata*. Global Ecology and Biogeography. 10: 521-533.

- Hafner, D.J., B.R. Riddle, and S.T. Alvarez-Castaneda. 2001. *Evolutionary relationships of white-footed mice (Peromyscus) on islands in the Sea of Cortéz, Mexico*. Journal of Mammalogy.82: 775-790.
- Jaeger, J.R., B.R. Riddle, R.D. Jennings, and D.F. Bradford. 2001. *Rediscovering Rana onca: evidence for phylogenetically distinct leopard frogs from the border region of Nevada, Utah, and Arizona*. Copeia, 2001:339-354.
- Riddle, B.R., D.J. Hafner, L.F. Alexander, and J.R. Jaeger. 2000. *Cryptic vicariance in the historical assembly of a Baja California Peninsular Desert biota*. Proc. Natl. Acad. Sci. USA, 97: 14438-14443.
- Riddle, B.R., D.J. Hafner, and L.F. Alexander. 2000. *Phylogeography and systematics of the Peromyscus eremicus species group and the historical biogeography of North American warm regional deserts*. Molecular Phylogenetics and Evolution, 17:145-160
- Riddle, B.R., D.J. Hafner, and L.F. Alexander. 2000. *Evolution of Baileys' pocket mouse (Chaetodipus baileyi), comparative biogeography of C. baileyi and the Peromyscus eremicus species-group, and historical vicariance of peninsular and continental deserts in western North America*. Molecular Phylogenetics and Evolution, 17:161-172.
- Riddle, B.R. and D.J. Hafner. 1999. *Species as units of analysis in ecology and biogeography: time to take the blinders off*. Global Ecology and Biogeography. 8:433-441.
- Orange, D.I., B.R. Riddle, and D.C. Nickle. 1999. *Phylogeography of a wide-ranging, non-territorial desert lizard, Gambelia wislizenii (Crotaphytidae)*. Copeia, 1999:267-273.
- Riddle, B.R. 1998. *The historical assembly of continental biotas: Late Quaternary range-shifting, areas of endemism, and biogeographic structure in the North American mammal fauna*. Ecography, 21:437-446.
- Riddle, B.R., D.L. Propst, and T.L. Yates. 1998. *An evaluation of mitochondrial DNA restriction-site and control region sequence variation in the Gila Trout (Oncorhynchus gilae): implications for management of an endangered species*. Copeia 1998:31-39.
- Riddle, B.R. 1997. *Review of: Brown, J.H. 1995. Macroecology*. Journal of Mammalogy, 78:257-260.
- Britten, H.B., B.R. Riddle, P.F. Brussard, and T.E. Lee, Jr. 1997. *Genetic delineation of management units for the Desert tortoise, Gopherus agassizii, in the Northeastern Mojave desert*. Copeia, 3:523-530.
- Walker, L.R., and B.R. Riddle. 1997. *Review of: Wagner, W.L. and Funk, V.A. (eds) 1995. Hawaiian biogeography: evolution on a hot spot archipelago*. Journal of Tropical Ecology, 13:640.
- Riddle, B.R. 1996. *The molecular phylogeographic bridge between deep and shallow history in continental biotas*. Trends in Ecology and Evolution, 11:207-211.
- Lee, T.E., Jr., B.R. Riddle, and P.L. Lee. 1996. *Speciation in the Desert pocket mouse (Chaetodipus penicillatus Woodhouse)*. Journal of Mammalogy, 77:58-68.
- Riddle, B.R. 1995. *Molecular biogeography in the pocket mice (Perognathus and Chaetodipus) and grasshopper mice (Onychomys): the Late Cenozoic development of a North American aridlands rodent guild*. Journal of Mammalogy 76:283-301.
- Riddle, B.R. 1995. *Special feature: mammalian biogeography*. Journal of Mammalogy 76:281-282.
- Grant, E.C., and B.R. Riddle. 1995. *Are the endangered Springfish (Crenichthys Hubbs) and Poolfish (Empetrichthys Gilbert) fundulines or goodeids?: a mitochondrial DNA assessment*. Copeia 1995:209-212.

- Riddle, B.R., R.L. Honeycutt, and P.L. Lee. 1993. *Mitochondrial DNA phylogeography in northern grasshopper mice (Onychomys leucogaster)--the influence of Quaternary climatic oscillations on population dispersion and divergence*. *Molecular Ecology* 2:183-193.
- Anderson, S., B.R. Riddle, T.L. Yates, and J.A. Cook. 1993. *Los mamíferos del Parque Nacional Amboro y la región de Santa Cruz de la Sierra, Bolivia*. Special Publication of the Museum of Southwestern Biology 2:1-58.
- Riddle, B.R., and R.L. Honeycutt. 1990. *Historical biogeography in North American arid regions: an approach using mitochondrial DNA phylogeny in grasshopper mice (genus Onychomys)*. *Evolution* 44:1-15.
- Riddle, B.R., and J.R. Choate. 1986. *Systematics and biogeography of Onychomys leucogaster in western North America*. *Journal of Mammalogy* 67:233-255.

MANUSCRIPTS IN PREPARATION

- Jezkova, T., J.R. Jaeger, and B.R. Riddle. *History, yes, but ecology too: habitat use and life history traits explain landscape genetic patterns in four North American warm desert species*. [Journal to be determined].
- Graham, M.R., and B.R. Riddle. *Modelling Late Glacial and present distributions of scorpions along the Baja California Peninsula, Mexico: implications of pervasive distributional conservatism for models of biogeographic history and evolutionary diversification*. [Journal to be determined]
- Neiswenter, S.A, and B.R. Riddle. *Diversification of the Perognathus flavescens species-group in the Neogene North American grasslands*. [Journal to be determined]
- Jezkova, T., A. Leland, J.R. Jaeger, and B.R. Riddle. *Six more challenges for species distribution modelling: exploring the challenges for transferal modelling in biogeography*. *Ecological Modelling*. [Journal to be determined]
- Jezkova, T., M. Eckstut, L. Carraway, and B.R. Riddle. *Phylogeography and taxonomy of the Perognathus parvus species group*. [Journal to be determined]
- Riddle, B.R. *in prep. Historical Biogeography*. Pp. xxx-xxx, in *Encyclopedia of Life Sciences*. John Wiley & Sons, UK.
- Jezkova, T., Leland, A., Jaeger, J., and Riddle, B.R. *in prep. Reconstructing species responses to the climate of the Last Glacial Maximum in the Great Basin, USA: a comparative approach*. [Journal to be determined].
- Riddle, B.R., D.J. Hafner, T. Jezkova, L.F. Alexander, and S. Neiswenter. *Historical biogeography and phylogeography of the Chaetodipus nelsoni species group*. [Journal to be determined]
- Riddle, B.R., D.J. Hafner, L.F. Alexander, and T. Jezkova. *Phylogeny and phylogeography of Peromyscus merriami within the P. eremicus species group*. [Journal to be determined]
- Hafner, D.J., B.R. Riddle, and T. Jezkova. *Comparative mammalian phylogeography of the Mexican Altiplano and Chihuahuan Desert*. [Journal to be determined]
- Riddle, B.R., D.J. Hafner, and T. Jezkova. *Comparative mammalian phylogeography of the Sonoran-Sinaloa Desert*. [Journal to be determined]
- Riddle, B.R., S. Neiswenter, and L.F. Alexander. *Phylogenetic relationships and the biogeographic template of diversification within the silky pocket mice (Rodentia: Heteromyidae: Perognathus)*. [Journal of Mammalogy]

- Hafner, D.J., B.R. Riddle, and L.F. Alexander. *Evolution and phylogeography of pocket mice (Chaetodipus) and the development of North American regional deserts*. [Journal to be determined]
- Mantooth, S.J, D.J. Hafner, and B.R. Riddle. *Historical biogeography of Ammospermophilus and phylogeography of A.leucurus*. [Journal to be determined]
- Alexander, L.F., B.R. Riddle, and D.J. Hafner. *Phylogeography of the Dipodomys merriami species group*. [Journal to be determined]
- [array of collaborators], and B.R. Riddle. *Phylogeography of the Dipodomys spectabilis-nelsoni species complex*. [Journal to be determined]
- D.J. Hafner and B.R. Riddle. *Mitochondrial DNA perspective on the geography and evolution of chromosomal races in Chaetodipus goldmani*. [Journal to be determined]
- S. J. Mantooth, B. R. Riddle, B. Arbogast, and T. E. Lawlor. *Phylogeography of the Tamias umbrinus species-group: implications for Late Quaternary biogeography in the Great Basin, and conservation status of Palmer's chipmunk, Tamias palmeri*. [Journal to be determined]

REPORTS

- B.R. Riddle (with Cunningham, C., M. Donoghue, E. Hadly, and A. Yoder). 2009. *Charting the trajectory of life on a changing planet: biogeography for the new millennium*. Report from a Workshop, May 19-20, 2007, Las Vegas, Nevada. National Science Foundation DEB 0639022.
- Lowrey, C. and B. R. Riddle. 2004. *A protocol for monitoring relative changes in abundance of Palmers chipmunk (Tamias palmeri)*. U.S. Forest Service SMNRA, FWS Agreement 14320-9-J102.
- Micone, K. and B. R. Riddle. 2002. *The population ecology and demography of the desert pocket mouse, Chaetodipus penicillatus sobrinus, in the Las Vegas valley*. A final report prepared for the Las Vegas Valley Water District and the CCMSHCP implementation group. Part 1 of Contract No. 1999-LVVWD-1.
- Lowrey, C., and B. R. Riddle. 2002. *A protocol for monitoring relative changes in abundance of Palmer's Chipmunk (Tamias palmeri)*. A draft report prepared for the U.S. Forest Service Spring Mountains National Recreation Area and the CCMSHCP implementation group. FWS Agreement 14320-9-J102.
- Riddle, B.R. 2001. 24 Mammalian species accounts, in Purcell, R. 2001. *Portraits of Nature*. K. C. Publications, Las Vegas.
- Riddle, B.R (ed.). 1995. *Inactive Mines as Bat Habitat: Guidelines for Research, Survey, Monitoring, and Mine Management in Nevada*. Biological Resources Research Center, University of Nevada, Reno.
- Riddle, B.R. 1995. *Introduction*. pp. 1-5 IN *Inactive Mines as Bat Habitat: Guidelines for Research, Survey, Monitoring, and Mine Management in Nevada*. ed., B.R. Riddle. Biological Resources Research Center, University of Nevada, Reno.
- Merenlender, A., and B.R. Riddle. 1995. *Concluding remarks*. pp. 146-148 IN *Inactive Mines as Bat Habitat: Guidelines for Research, Survey, Monitoring, and Mine Management in Nevada*. ed., B.R. Riddle. Biological Resources Research Center, University of Nevada, Reno.
- Jennings, R.D., B.R. Riddle, and D. Bradford. 1995. *Rediscovery of Rana onca, the Relict*

- leopard frog, in southern Nevada with comments on the systematic relationships of some southwestern leopard frogs (Rana pipiens complex) and the status of populations along the Virgin River.* Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas.
- Riddle, B.R., L.R. Walker, and 11 others. 1994. *Spring Mountain National Recreation Area Management Plan*, Univ. of Nevada, Las Vegas, Conservation Biology Class, Fall Semester 1993, 91 pp.
- Riddle, B.R., and M.K. Ramsey. 1994. *A report on the use of the McCarran International Airport parking facility as roosting habitat by bats.* Final report, Clark County contract to B.R.Riddle.
- Riddle, B.R. 1992. *Mitochondrial DNA genetics of Desert tortoise populations in Nevada.* Final report, part C, NDOW contract GSF #90307-01.
- Riddle, B.R., T.L. Yates, and T.E. Lee, Jr. 1992. *Molecular divergence and variation in the endangered Mount Graham Red Squirrel (Tamiasciurus hudsonicus grahamensis).* Final report, Forest Service Research contract.
- Riddle, B.R., D.L. Propst, and T.L. Yates. 1992. *Mitochondrial DNA assessment of phylogenetic relationships and population status of Gila Trout, Oncorhynchus gilae (Miller).* Final report, New Mexico Department of Game and Fish Research contract.

INVITED SEMINARS, SYMPOSIA, AND WORKSHOPS

- 2011 SYMPOSIUM [oral paper] *Title to be determined.* Ecological and evolutionary processes across time and space in the Great Basin. Society of Vertebrate Paleontology, Las Vegas, November.
- 2011 SEMINAR [oral paper] *Title to be determined.* UCLA.
- 2010 SEMINAR [oral paper] *Biogeographic explorations in the geologically and climatically turbulent North American deserts.* University of Vermont, November.
- 2009 SEMINAR [oral paper] *Biogeography of the Baja California peninsula: vicariance, dispersal, and geologically cryptic trans-peninsular seaways.* Distinguished Speaker, 2009 Nevada Undergraduate Research Symposium, Las Vegas NV.
- 2009 SYMPOSIUM [oral paper] *Introduction and Overview: Pattern and Process at Biogeographic Boundaries Symposium.* International Biogeography Society 4th international conference, Merida, MX, January.
- 2009 PANEL [oral and discussion] *Climate change, ecosystems and research agendas in the Lower Colorado River Basin,* 2009 American Association of Geographers Annual Meeting, Las Vegas NV.
- 2008 SEMINAR: [oral paper] National Science Foundation, Arlington, VA, September
- 2008 SEMINAR: [oral paper] Department of Geography, University of Nevada Reno, March
- 2006 SYMPOSIUM: [Keynote Address, oral paper] *Late Neogene biogeography of the Baja California Peninsula: do biotic signatures of vicariance predict geologically cryptic trans-peninsular seaways?* Paleogeography and Paleobiogeography: Biodiversity in Space and Time. Cambridge, UK. April 2006.
- 2005 SYMPOSIUM: [oral paper] *The biogeography of populations, species, and young biotas: what does comparative phylogeography add to a newly emerging, more integrative biogeography?* symposium: What is Biogeography? Biennial meeting of the Systematics Association, Cardiff, Wales (August).

- 2005 WORKSHOP: [oral paper] *Building bridges between phylogeography and phylogenetic biogeography: why and how?* Second conference of the International Biogeography Society, NCTC, WV (January).
- 2004 SYMPOSIUM: [oral paper] *Using molecular approaches to identify biodiversity attributes in the North American aridlands.* Mojave Desert Science Symposium III. Redlands, CA (November).
- 2004 SYMPOSIUM: [oral paper] *Biogeography and biodiversity in the warm deserts of northern Mexico and the southwestern USA.* Riddle, B.R. and D.J. Hafner. VII AMMAC congress (Asociación Mexicana de Mastozoología) symposium on Genetics and Mexican mammals: where are we and where are we headed? Chiapas, MX (November)
- 2004 SYMPOSIUM: [oral paper] *Understanding and improving the phylogeographic link between molecular and organismal biodiversity.* DanBIF Conference on Molecular Biodiversity; Danish Biodiversity Information Facility, Copenhagen, Denmark (March)
- 2003 SYMPOSIUM: [oral paper] *Combining phylogeography and phylogenetic biogeography to investigate vertebrate speciation and biotic assembly in the warm deserts of North America.* Annual Meeting of the Biological Society of Chile, Chile (November)
- 2003 SYMPOSIUM: [oral paper] *Phylogeographic and cladistic biogeographic approaches to understanding biotic histories: working towards a synthesis of perspectives.* International Biogeography Society Inaugural Meeting, Mesquite, NV (January).
- 2001 SEMINAR: [oral paper] Dept. of Biology, Northern Arizona University (Jan 26)
- 2000 WORKSHOP: [invited participant] *Foundations and Future of Biogeography*, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA (October);
- 2000 SYMPOSIUM: [oral paper] *Mammalian biogeography for herpetologists: Late Neogene and Pleistocene vicariance in the assembly of a Peninsular Desert mammal biota.* Riddle, B.R., D.J. Hafner, and J.R. Jaeger. Natural History and Evolution of the Herpetofauna of Southern California and Baja California, 80th Annual Meeting American Society of Ichthyologists and Herpetologists, La Paz, MX (June).
- 2000 SEMINAR: [oral paper] Dept. of Zoology, Brigham Young Univ. (Nov 16)
- 2000 SEMINAR: [oral paper] Dept. of Biology, South. Illinois Univ. (April 29)
- 2000 SEMINAR: [oral paper] Dept. of Biology, Univ. Nevada Reno (Feb 17)
- 1999 SEMINAR: [oral paper] *Reinventing the wheel in North American mammal systematics and biogeography: old questions are new again and more relevant than ever.* Los Angeles County Museum of Natural History (13 Dec).
- 1999 SYMPOSIUM: [oral paper] *Historical assembly of a Great Basin shrub-steppe and desertscrub terrestrial vertebrate biota.* Riddle, B.R., and D.J. Hafner. Great Basin Biological Research Conference, Reno, NV (Oct 14).
- 1999 SYMPOSIUM: [oral paper] *University and Community College System of Nevada and USGS/BRD collaborations.* Riddle, B.R., Mojave Desert Science Symposium, Las Vegas, NV (Feb 27).
- 1998 SYMPOSIUM: [co-convener] *Comparative phylogeography of mammals and the historical assembly of continental mammalian biotas.* Euro-American Mammal Congress, Santiago de Compostela, Spain (July 20-24).
- 1998 SYMPOSIUM: [oral paper] *The assembly of mammalian biotas in regional warm deserts of North America: comparative phylogeography of cactus mice, chaetodipine pocket mice, and Merriams' kangaroo rats.* Riddle, B. R., D. Hafner, and L. Alexander. Euro-American Mammal Congress, Santiago de Compostela, Spain (July 20-24).

- 1998 SYMPOSIUM: [oral paper] *Comparative phylogeography of North American Boreal mammals*. Arbogast, B., and B. R. Riddle. Euro-American Mammal Congress, Santiago de Compostela, Spain (July 20-24).
- 1998 SEMINAR: Dept. Biology, University of Alaska Fairbanks (Nov 13)
- 1998 TUTORIAL LEADER: Dept. Biology. Wake Forest University (March 9-13)
- 1998 SEMINAR: Dept. Biology. Wake Forest University (March 11)
- 1998 SEMINAR: Department of Zoology. University of Washington (April 8)
- 1998 SEMINAR: Dept. of Biology. Boise State University (April 17)
- 1997 WORKSHOP: World Wildlife Fund; *Biodiversity conservation priorities for the Chihuahuan Desert ecoregion complex*, Monterrey MX, 30 Sept.-2 Oct. 1997
- 1997 SEMINAR: Department of Biology. University of California Riverside.
- 1995 SYMPOSIUM: *Practical application of ecosystem management*. Western Division American Fisheries Society. Park City, Utah.
- 1995 SEMINAR. Department of Biology. New Mexico State University.
- 1994 SYMPOSIUM: *Evaluating health at the landscape level*. First International Symposium on Ecosystem Health and Medicine. Ottawa, Canada.
- 1993 SEMINAR. Department of Biology. University of California Los Angeles.
- 1993 SEMINAR. Department of Zoology. Arizona State University.
- 1993 SYMPOSIUM: *Molecular phylogeny of mammals*. International Theriological Congress VI. Sydney, Australia.
- 1993 SYMPOSIUM: *Mammalian responses to Late Quaternary global climatic change*. International Theriological Congress VI. Sydney, Australia.
- 1993 SYMPOSIUM: *Sceloporus*. Annual Meeting American Society of Ichthyologists and Herpetologists. Austin, Texas. [paper given by D.I. Orange]
- 1992 SYMPOSIUM: *Inventory, monitoring, and assessment*. Biodiversity in managed landscapes. Sacramento, California. [paper given by K.B. Jones]
- 1992 SEMINAR. Philadelphia Academy of Natural Sciences.
- 1991 SEMINAR. Department of Biology. University of Nevada. Reno, Nevada.
- 1991 WORKSHOP: *Desert ecosystems*. Utah State University.
- 1990 PLENARY SESSION: *Shadle Award presentation*. Annual Meeting American Society of Mammalogists. Frostburg, West Virginia.
- 1990 SEMINAR: Department of Biological Sciences. University of Nevada Las Vegas.

CONTRIBUTED ORAL AND POSTER PRESENTATIONS SINCE 1990

2011

Jezkova, T., V. Olah-Hemmings, and B.R. Riddle. *Niche shift in situ in response to the warming climate at the end of the last glacial maximum: inference from genetic data and niche assessments in the chisel-toothed kangaroo rat (*Dipodomys microps*)*. 5th International Conference of the International Biogeography Society, Crete, January.

2010

Neiswenter, S.A., and B.R. Riddle. *Systematics of the *Perognathus fasciatus* species group with comments on the phylogeography of the North American aridlands*. American Society of Mammalogists, Laramie, WY [poster]

2009

Houston, D., D.K. Shiozawa, and B.R. Riddle. *Investigating the effects of pluvial Lake Lahontan*

- on patterns of diversification among populations of Lahontan redbside shiner. Evolution* 2009, Moscow, ID [oral]
- Mantooth, S.J., T. Lawlor, and B.R. Riddle. *Mountain-top phylogeography of the Tamias umbrinus (Rodentia: Sciuridae) species complex in western North America. Evolution* 2009, Moscow, ID [oral]
- Neiswenter, S.A., C.P. Dodge, A. Calvert, and B.R. Riddle. *Conservation genetics of cotton rats (genus Sigmodon) along the Lower Colorado River. 2009 Lower Colorado River terrestrial and riparian group (CRiTER) meeting. Laughlin, NV [oral].*
- Jezkova, T., and B.R. Riddle. *Disagreement between ecological niche models, the fossil record, and phylogeographic structure: assessing the strengths and limitations of an integrative approach to infer response of a Great Basin endemic to the Last Glacial Maximum. 2009 International Biogeography Society Meeting [student best poster award], Mérida, Mexico [poster].*
- Jezkova, T., J.R. Jaeger, and B.R. Riddle. *Does climatic change promote niche evolution? A case study of the desert horned lizard (Phrynosoma platyrhinos). 2009 Joint Meeting of Ichthyologists and Herpetologists, Portland, OR [oral].*
- Neiswenter, S.A., and B.R. Riddle. *Diversification of silky pocket mice in the Perognathus flavus species-group: implications for the biogeography of North American arid grasslands. 2009 American Society of Mammalogists Meeting (Elmer Birney Student Honoraria Award), Fairbanks, AK [oral].*
- Leland, A., and B.R. Riddle. *Geographic parthenogenesis in whiptail lizards (genus Aspidoscelis). UNLV-GPSA Research Forum*

2008

- Mantooth, S.J., D.J. Hafner, and B.R. Riddle. *The evolution of North American deserts based on biogeography of Ammospermophilus ground squirrels. ASN, SSE, SSB Annual Meetings, Minneapolis, June [oral].*
- Houston, D.D., D.K. Shiozawa, and B.R. Riddle. *Post-glacial colonization by the redbside shiner, a widespread western North American minnow. ASN, SSE, SSB Annual Meetings, Minneapolis, June [oral].*
- B.R. Riddle, T. Jezkova, and J.R. Jaeger. *Toward development of a comparative ecological niche modeling approach to reconstructing past and predicting future biotic responses to climate change in the Great Basin. Great Basin Environmental Initiative NGO workshop, Reno, Nevada [poster]*
- Bryson, R.W., A.N.M. de Oca, B.R. Riddle, and F. Mendoza-Quijano. *Filogeografía de la rana de amplia distribución Hyla arenicolor. X Reunión Nacional de Herpetología, Pachuca, Hidalgo, Mexico.*
- Bryson, R.W., B.R. Riddle, U.O. García-Vázquez, and F. Mendoza-Quijano. *Filogeografía de Pituophis (Serpentes: Colubridae) de Mesoamérica. X Reunión Nacional de Herpetología, Pachuca, Hidalgo, Mexico.*
- Hemming, V., J.R. Jaeger, M.J. Sredl, M.A. Schlaepfer, R.D. Jennings, D.F. Bradford, and B.R. Riddle. 2008. *Mitochondrial lineages of relict and lowland leopard frogs along the fringes of the Sonoran and Mojave deserts: contemporary understanding. Current Research on Herpetofauna of the Sonoran Desert IV, Tucson, AZ [oral]*

Hemming, V., J.R. Jaeger, M.J. Sredl, M.A. Schlaepfer, R.D. Jennings, D.F. Bradford, and B.R. Riddle. 2008. *Current knowledge on the phylogeography of relict and lowland leopard frogs*. BOR, Lower Colorado River Terrestrial Biology Meeting [oral]

2007

B.R. Riddle, J.R. Jaeger, T. Jezkova, and Z.L. Marshall. *Phylogeography of the desert pocket mouse (Chaetodipus penicillatus)*. American Society of Mammalogists, 87th Annual Meeting, Albuquerque, New Mexico [poster].

Jezkova, T., and B.R. Riddle. *Phylogeography of the chisel-toothed kangaroo rat (Dipodomys microps)*, an endemic rodent from the Great Basin. American Society of Mammalogists, 87th Annual Meeting, Albuquerque, New Mexico [oral].

Neiswenter, S.A., and B.R. Riddle. *Phylogeography of the Perognathus flavus species group in northern Mexico and the southwestern United States*. American Society of Mammalogists, 87th Annual Meeting, Albuquerque, New Mexico [oral].

Jaeger, J.R., D.F. Bradford, and B.R. Riddle. *Population structure of the Red-spotted toad, Bufo punctatus, in a naturally fragmented desert landscape*. California/Nevada Amphibian Population Task Force 2007 Annual Meeting, Las Vegas, Nevada [oral].

Hemmings, V., J.R. Jaeger, M.J. Sredl, M.A. Schlaepfer, R.D. Jennings, C.W. Painter, D.F. Bradford, and B.R. Riddle. *Phylogeography of Rana yavapaiensis and Rana onca: preliminary findings with conservation implications*. Population Task Force 2007 Annual Meeting, Las Vegas, Nevada [oral].

Hemmings, V., J.R. Jaeger, M.J. Sredl, M.A. Schlaepfer, R.D. Jennings, C.W. Painter, D.F. Bradford, and B.R. Riddle. *Phylogeography of Rana yavapaiensis and Rana onca: preliminary findings with conservation implications*. Society for the Study of Amphibians and Reptiles 2007 Annual Meeting, St. Louis, Missouri [poster].

2005

Spellman, G.M., J. Klicka, and B.R. Riddle. *Genetic consequences of the late Quaternary: lessons from phylogenetic and coalescent analyses of the Mountain Chickadee*. Annual Meeting, Society for the Study of Evolution, Fairbanks [oral].

2004

Marshall, Z.L., B.R. Riddle, and J. Jaeger. *Phylogeography of the desert pocket mouse (Chaetodipus penicillatus) with emphasis on the conservation of C. p. sobrinus*. Annual Meeting, American Society of Mammalogists, Arcata, California [oral].

Jaeger, J., D.F. Bradford, R.D. Jennings, and B.R. Riddle. *Status of the relict leopard frog (Rana onca)*: Declining amphibian task force meeting, Reno [oral].

2003

Alexander, L.F., and B.R. Riddle. *Phylogenetics and trends of evolutionary history within the family Heteromyidae*. Annual Meeting, American Society of Mammalogists, Lubbock, Texas [oral].

Riddle, B.R., and D.J. Hafner. *Toward a general model of vertebrate speciation and biotic assembly in the warm deserts of North America*. Annual Meeting, American Society of Mammalogists, Lubbock, Texas [oral].

Mantooth, S.J., B.R. Riddle, L. Kelley, and T. Lawlor. *Population structure and mountain-top phylogeography of the Tamias umbrinus species group in western North America*.

Annual Meeting, American Society of Mammalogists, Lubbock, Texas [poster].

2002

Williams, J.A., M.J. O'Farrell, and B.R. Riddle. *Habitat Distribution of Bats in a Riparian Corridor in the Mojave Desert of southern Nevada*. Western Bat Working Group Conference, Durango, CO, December [oral].

Jaeger, J. R., B. R. Riddle, and D. F. Bradford. *Phylogeography of Bufo punctatus: Long-term Evolution within the Warm Deserts of North American and Late Quaternary Range Shifting*. American Society of Ichthyologists and Herpetologists. Kansas City, MS, July [oral].

Alexander, L. F., B. R. Riddle, and D. J. Hafner. *Phylogeography of Dipodomys merriami, including a nested clade analysis of population histories*. Annual Meeting, American Society of Mammalogists, Lake Charles, Louisiana [poster].

Jaeger J. R., B. R. Riddle, and D. F. Bradford. *When a phylogenetic trichotomy makes sense: Phylogeography of Bufo punctatus and the evolution of North American warm deserts*. Western Section of the Wildlife Society Annual Meeting, Visalia, CA, March [oral].

2001

Williams, J.A., M.J. O'Farrell, and B.R. Riddle. *Examination of Occurrence of Bats in Riparian Habitats in Southern Nevada*. Second Great Basin Biological Research Conference, Provo, UT, October [oral].

Alexander, L.F., B.R. Riddle, and D.J. Hafner. *Phylogeography of the Dipodomys merriami species complex*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [oral].

Williams, J.A., M.J. O'Farrell, and B.R. Riddle. *Habitat distribution of bats in a riparian corridor in the Mojave Desert of southern Nevada*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [oral].

Micone, K.D. and B.R. Riddle. *Demographics of the desert pocket mouse, Chaetodipus penicillatus sobrinus in an isolated, relic population*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [poster].

Mantooth, S.J., B.R. Riddle, and D.J. Hafner. *Systematics of the antelope ground squirrels (Ammospermophilus) and phylogeography of the A. leucurus species group*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [poster].

Kelley, L.A., and B.R. Riddle. *Is Palmer's chipmunk (T. palmeri) a distinct evolutionarily significant unit (ESU) within the Uinta chipmunk (T. umbrinus) species group?* Annual Meeting, American Society of Mammalogists, Missoula, MT, June [poster].

Jaeger, J.R., B.R. Riddle, R.D. Jennings, and D.F. Bradford. *Evidence for phylogenetically distinct leopard frogs (Rana onca) from the border region of Nevada, Utah, and Arizona*. Annual Meeting, Wildlife Society, Western Section, Sacramento, CA, February [oral].

Bradford, D.F., A.C. Neale, M.S. Nash, D.W. Sada, J.R. Jaeger, and B.R. Riddle. *Habitat patch occupancy by the red-spotted toad (Bufo punctatus) in a naturally fragmented, desert landscape*. Annual Meeting, Wildlife Society, Western Section, Sacramento, CA, February [oral].

1999

Jaeger, J.R., B.R. Riddle, R.D. Jennings, and D.F. Bradford. *Evidence supporting the recognition of Rana onca in northwestern Arizona and southern Nevada*. Phoenix, AZ [oral]

- Riddle, B.R., D.J. Hafner, and L.F. Alexander. *Phylogeography of the Peromyscus eremicus species-group: cryptic lineages, paraphyletic species, and deep-history biogeography in North American deserts*. 79th Annual Meeting, American Society of Mammalogists, Seattle, WA, June [oral]
- Alexander, L.F., B.R. Riddle, T.L. Best, and D.J. Hafner. *Phylogeny and biogeography of the Dipodomys spectabilis species-group*. 79th Annual Meeting, American Society of Mammalogists, Seattle, WA, June [oral]
- Jaeger, J.R., B.R. Riddle, and D.F. Bradford. *Phylogeography of the widely distributed, desert-adapted toad, Bufo punctatus*. ASIH Joint Meeting, State College, PA, June [oral]
- Jaeger, J.R., B.R. Riddle, and R.D. Jennings. *Rediscovering Rana onca, the relict leopard frog: systematic relationships of leopard frogs along the Virgin and Colorado Rivers*. Sonoran Herpetology symposium, Phoenix, AZ, April [oral]
- 1998
- Bradford, D.F., J.R. Jaeger, R.D. Jennings, and B.R. Riddle. *Habitat patch occupancy and conservation genetics of amphibians in the Eastern Mojave Desert*. Western Society of Naturalists, Declining Amphibians Symposium, San Diego, CA [oral, publ. abstracts]
- Orange, D.I., B.R. Riddle, and D.C. Nickle. *Comparative phylogeographic structure in the North American aridland lizard genera Crotaphytus, Gambelia, and Sceloporus*. 1998 Annual Meeting, Southwestern Association of Naturalists, Albuquerque, NM, April [oral, publ. abstracts]
- 1997
- Riddle, B.R. *Did Quaternary environmental fluctuations erase historical biogeographic structure in the North American mammal fauna?* 77th Annual Meeting, American Society of Mammalogists, Stillwater, OK [oral, publ. abstracts]
- Riddle, B.R. *The historical assembly of continental biotas: Quaternary range-shifting, areas of endemism, and historical biogeographic structure in the North American mammal fauna*. Seventh International Theriological Congress, Acapulco, MX [poster, publ. abstracts]
- Hunter, K.L., B.R. Riddle, J.L. Betancourt, K.L. Cole, T.R. Van Devender, and W. G. Spaulding. *Polyploidy changes during the past 18,000 14C years in the North American desert shrub Larrea tridentata*. Annual Meeting Ecological Society of America, Albuquerque, NM [oral, publ. abstracts]
- 1996
- Riddle, B.R. *Do current paradigms in historical biogeography apply to continental biotas?: searching for areas of endemism and area-relationships in North American aridlands mammals* Annual Meeting Society for the Study of Evolution, St. Louis, MO [oral]
- Orange, D., and B.R. Riddle. *Using molecular phylogenies to infer the historical biogeography of four species of arid-dwelling lizards from the Southwestern United States: testing hypotheses of taxonomic response to Pliocene versus Pleistocene events*. Annual Meeting Society for the Study of Evolution, St. Louis, MO. [oral]
- Jones, K.B., B.R. Riddle, J.D. Wickham, and K.H. Rütters. *Regional-scale changes in western North American landscapes over the past 20 million years: a molecular phylogeographic approach*. 11th Annual U.S. Landscape Ecology Symposium, Galveston, TX. [oral, published abstract]

1995

Hunter, K.L., and B.R. Riddle. *Biogeography of North American Larrea--A new story*. Annual Meeting Ecological Society of America. Snow Bird, Utah. [oral]

Jennings, R.D., and B.R. Riddle. Annual Meeting of The Southwest Working Group of the Declining Amphibian Populations Task Force. Phoenix, Arizona. [oral]

Morgan, D.M., R.D. Jennings, and B.R. Riddle. *Determination of species status for leopard frog populations (genus Rana) along the Virgin River Valley using RFLP analysis of PCR-amplified mitochondrial DNA*. Annual Meeting American Chemical Society. San Diego, California. [poster]

1994

Ferrell, C.S., and B.R. Riddle. *Molecular paleoecology of the Perognathus parvus species-group*. Annual Meeting American Society of Mammalogists. Washington D.C. [poster]

Nickle, D.C., and B.R. Riddle. *Molecular tests of phylogenetic and biogeographic structure within the Perognathus fasciatus species-group*. Annual Meeting American Society of Mammalogists. Washington D.C. [oral]

Ferrell, C.S., and B.R. Riddle. *Systematics and biogeography of Perognathus parvus*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [oral]

Nickle, D.C., and B.R. Riddle. *Molecular phylogeographic structure within the Perognathus fasciatus species-group*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [oral]

Orange, D.I., and B.R. Riddle. *Molecular phylogeny and historical biogeography in two species of collard lizards (Crotaphytidae)*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [poster]

Riddle, B.R. *Spatio-temporal domains in the evolution of North American aridlands rodents*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [poster]

Merenlender, A.M., and B.R. Riddle. *The significance of human modified landscape features to conservation: a case study on preservation of abandoned mines as habitat for bats*. Annual Meeting Society of Conservation Biologists. Guadalajara Mexico. [oral]

Orange, D.I., and B.R. Riddle. *Molecular phylogeny and historical biogeography in two species of collared lizards (Crotaphytidae)*. Annual Meeting American Society of Ichthyologists and Herpetologists. Los Angeles, California. [oral]

Hunter, K., and B.R. Riddle. *A cpDNA evaluation of divergence in creosote bush (Larrea) among North American deserts*. Annual Meeting of SSE, SSB, MBE, and ASN. Athens Georgia. [poster]

1993

Riddle, B.R., and T.E. Lee, Jr. *The evolution of North American pocket mice: molecular phylogenetic of Chaetodipus and Perognathus*. Annual Meeting American Society of Mammalogists. Bellingham Washington. [poster]

Lee, T.E., Jr., and B.R. Riddle. *Genetic studies of Chaetodipus penicillatus*. Annual Meeting American Society of Mammalogists. Bellingham Washington. [oral]

Riddle, B.R., D.I. Orange, D. Nickle, and T.E. Lee, Jr. *Comparative phylogeographic structure in North American arid-lands: the effect of spatial scale on levels of congruence among rodents and lizards*. Joint Meeting American Society of Naturalists, Society of Systematic Biologists, and Society for the Study of Evolution. Snowbird Utah. [poster]

Grant, E.C., and B.R. Riddle. *The phylogeny of Empetrichthys and Crenichthys using mitochondrial DNA*. Annual Meeting American Society of Ichthyologists and

- Herpetologists. Austin Texas. [oral]
- Orange, D.I., B.R. Riddle, and T.E. Lee, Jr. *Phylogeographic variation in the mtDNA of desert spiny lizards (Sceloporus magister)*. Annual Meeting Arizona-Nevada Academy of Sciences. Las Vegas Nevada. [oral]
- Grant, E.C., and B.R. Riddle. *The phylogeny of Empetrichthys and Crenichthys using mitochondrial DNA*. Annual Meeting Arizona-Nevada Academy of Sciences. Las Vegas Nevada. [oral]
- 1992
- Riddle, B.R., and T.E. Lee, Jr. *A molecular phylogenetic analysis of relationships within and among genera of pocket mice (Chaetodipus and Perognathus)*. Annual Meeting American Society of Mammalogists. Salt Lake City Utah. [oral]
- Riddle, B.R., T.L. Yates, and T.E. Lee, Jr. *Telescopes or squirrels? Molecular divergence of the endangered Mount Graham Red Squirrel (Tamiasciurus hudsonicus grahamensis), and thoughts on the concept of endangered species*. Annual Meeting Southwestern Association of Naturalists. Junction Texas. [oral]
- 1991
- Riddle, B.R. *Is there spatial and temporal synchrony in the history of Perognathus (pocket mice) and Onychomys (grasshopper mice) speciation?* Annual Meeting American Society of Mammalogists. Manhattan Kansas. [oral]
- Riddle, B.R. *Is there spatial and temporal synchrony in the history of Perognathus (pocket mice) and Onychomys (grasshopper mice) speciation?* Joint Meeting American Society of Naturalists, Society of Systematic Biologists, and Society for the Study of Evolution. Hilo Hawaii. [oral]

GRANTS SINCE EMPLOYMENT AT UNLV

- 2010 Clark County Desert Conservation Program. Wesley E. Niles Herbarium Services. \$5,000
- 2010 National Science Foundation EPSCoR Summer Undergraduate Research Opportunity Program: *Impact of historical climate change on the genetic structure of the Great Basin pocket mouse, Perognathus parvus*. \$5,500.
- 2008 UNLV President's Research Award: *Integrating comparative ecological niche modeling (CENM) and phylogeography: an emerging approach to assessing responses of species assemblages to historical climatic change*. \$43,521
- 2008 National Science Foundation, Doctoral Dissertation Improvement Grant for T. Jezkova: *Integrating comparative phylogeography with ecological modeling to investigate Late Quaternary biogeography in four species of kangaroo rats (genus Dipodomys)*. \$11,516.
- 2008 United States Geological Survey: *Long-term conservation strategy for Palmer's chipmunk (Tamias palmeri) in the Spring Mountains National Recreation Area, Nevada*. \$5750
- 2008 Nevada Department of Wildlife: *Phylogeography of the Greater short-horned lizard (Phrynosoma hernandesi) and Pygmy short-horned lizard (Phrynosoma douglassii) populations in Nevada*. \$30,000
- 2007 Bureau of Reclamation: *Diagnosis and distribution, population and habitat attributes of the Colorado River and Yuma Hispid cotton rats*. \$150,423
- 2006 National Science Foundation workshop: *Really big biogeographically-based integrative historical and ecological science: grand collaborative studies of whole biotas*. \$48,625.

- 2006 Bureau of Land Management: *Peer review of Red Rock visitor center interpretive document*. \$12,000.
- 2006 Nevada Department of Wildlife: *Pocket Gopher Genetics Analysis*. \$7,500
- 2006 UNLV Planning Initiative Award, Walking Box Ranch development (co-PI with 3 others)
- 2004 Graduate Fellowship, NSF EPSCoR ACES, for Tereza Jezkova, \$10,000
- 2003 Clark County Multiple Species Habitat Conservation Plan. *Evaluation of the impact of vegetation encroachment on Relict Leopard Frog populations* (co-PI with J.R. Jaeger). \$145,526. 2 years.
- 2002 National Science Foundation. *Collaborative research: Embedded phylogeographic structure within the southern regional deserts of North America*. \$200,000.
- 2000 National Science Foundation. *Center of excellence in conservation genetics*. \$37,274 (my portion of \$499,766 total) Co-PI with 4 others from UNR.
- 2000 Clark County Adaptive Management Plan Contractors (UNR). *Graduate research: Bat species diversity and habitat preferences along the Muddy River*. \$11,002, 1 year.
- 1999 Clark County MSHCP and USFWS, collaborative with LVVWD, NPS. *Distribution, status, and population genetic structure of the Desert Pocket Mouse, Chaetodipus penicillatus sobrinus, in the Eastern Mojave Desert*. \$45,000.
- 1999 Clark County MSHCP, collaborative with NDOW, USFS, USGS/BRD. *Population surveys and genetic studies of Palmer's Chipmunk (Tamias palmeri)*. \$53,246.
- 1998 Las Vegas Valley Water District. *Rediscovering Rana onca, the Relict Leopard Frog: phylogenetic relationships and population genetic structure of leopard frogs along the Virgin and Colorado Rivers*. \$6260.
- 1998 Nevada TREC program. *A molecular genetic comparison of Great Basin and Rocky Mountain populations of an alpine plant species*. \$12000, collaborative with P. Bagley, GBCC.
- 1998 Nevada TREC program. *Molecular systematics and biogeography of the Fouquieriaceae.*, \$12000, collaborative with M. Hicks, SNCC.
- 1996 National Science Foundation. *Collaborative research: Mammalian phylogeography in regional warm deserts of North America* \$139,871
- 1996 Environmental Protection Agency. *Collaborative research: A landscape approach to characterizing localized aquatic/riparian habitat suitability and change using remote sensing and GIS techniques*. \$290,000
- 1996 Nevada EPSCoR Teaching and Research—Enhancement and Collaboration. CO-PI with M.A. Ports. *The systematics, ecology, and biogeography of two species of bats that inhabit the Great Basin*. \$6,500
- 1995 Nevada EPSCoR Teaching and Research--Enhancement and Collaboration. Co-PI with M.E. Hicks. *Molecular systematics and biogeography of columnar cacti*. \$7,000.
- 1995 Nevada EPSCoR Teaching and Research--Enhancement and Collaboration. Co-PI with M.A. Ports. *Community composition and function of bats in two ecosystems from northern Nevada*. \$6,800.
- 1995 U.S.Fish and Wildlife Service. *Candidate bat species in southern Nevada*. \$37,474.
- 1994 U.S.Fish and Wildlife Service. *Southern Nevada bat diversity*. \$13,749.
- 1993 National Science Foundation. Co-PI with D. Thompson on dissertation research for E.V. Schmidt. \$9,842
- 1993 Nevada Biodiversity Initiative. *Workshop--Inactive mines as bat habitat*. \$5,000.

- 1993 National Science Foundation, LTER supplemental award to BSR-9107520. *Molecular phylogeography of the Perognathus fasciatus species group: historical and ecological variables controlling interactions among Colorado Plateau and Great Plains xeric biotas*. \$24,000.
- 1993 UNLV. Barrick faculty development travel award. \$500.
- 1992 Various Agencies. Co-PI with R.D. Jennings. *The status of Leopard frogs (Rana pipiens complex) along the Virgin River of Arizona, Nevada, and Utah*. \$25,000.
- 1991 National Science Foundation, Grant BSR-9107520. *Historical ecology of the North American arid-lands rodent guild: molecular phylogenetics and biogeography of Perognathus, Chaetodipus, and Onychomys*. \$184,000.
- 1991 UNLV. Barrick faculty development travel award. \$550.
- 1991 UNLV. Faculty research grant. \$1,500.
- 1991 Nevada Department of Wildlife. Co-PI with P. Brussard. *Desert tortoise genetics*.

HONORS AND AWARDS

- 2007 Honoree, 5th Annual Celebration of UNLV Authors
- 2005-2006 President, International Biogeography Society
- 2003 President-elect, International Biogeography Society
- 1998 INVITED GUEST SPEAKER: Nevada Wildlife Federation Awards Banquet
- 1996 University Research Grants and Fellowships Committee Proposal bonus
- 1990 UNM Sigma Xi. *Outstanding doctoral candidate award*
- 1989 American Society of Mammalogists. *Shadle fellowship in mammalogy*.
- 1989 Desert Fishes Council. *Carl L. Hubbs best student paper award*
- 1987 UNM, *Graduate research award*.
- 1987 UNM, Dept. of Biology. *Ph.D comprehensive exam passed with distinction*
- 1985 Honors Society of Phi Kappa Phi. *Elected member*
- 1984 UNM, Dept. of Biology. *Excellent instructor award*.

GRADUATE STUDENT RESEARCH ADVISING

Current Ph.D. candidates

Robert W. Bryson, Jr.

Mexican pine-oak woodlands comparative biogeography.

[UNLV BARRICK FELLOWSHIP 2009-2010]

Mallory Eckstut

Comparative biogeographic analysis of North American desert biotas

Matthew Graham [co-advisor with J. Jaeger]

Diversification of the Great Basin and Mojave scorpion biota.

Adam Leland

Evolution of asexual whiptail lizards in the western North American deserts.

Sean Neiswenter

Biogeography of silky pocket mice (Perognathus) in western North American deserts.

[2009 ELMER C. BIRNEY AWARD, AMERICAN SOCIETY OF MAMMALOGISTS]

Connie Herr [co-advisor; main advisor is J. Klicka]

Current M.S. or M.A.S. candidatesFormer Ph.D., M.S. or M.A.S.. candidates

Lois Alexander, Ph.D.

Evolution and biogeography in the kangaroo rats and Heteromyid rodents. [Ph.D. RECEIVED 2004]

CURRENT POSITION: Faculty member College of Southern Nevada

Michael Boyles, M.S.

A phylogeographic investigation of the Mountain Chickadee. [M.S. RECEIVED 1994]

CURRENT POSITION: biologist, National Park Service.

Carolyn Ferrell, M.S.

Systematics and biogeography of the Great Basin pocket mouse, Perognathus parvus. [M.S. RECEIVED 1997].

CURRENT POSITION: Lab tech Black Hills State University.

Jeffrey da Costa [co-advisor; main advisor is J. Klicka]

Systematics and biogeography of trogons [M.S. RECEIVED 2006]

CURRENT POSITION: Ph.D. candidate Boston University

Edward Grant, M.S.

The phylogenetic affinities of Crenichthys and Empetrichthys using mtDNA. [M.S. RECEIVED 1994].

CURRENT POSITION: unknown.

Sean Harris, M.S. [co-advisor with J. Jaeger]

Rana onca population ecology. [M.S. RECEIVED SPRING 2006]

CURRENT POSITION: Wildlife Biologist Nevada Dept of Wildlife

Victoria Olah-Hemmings, M.S. [co-advisor with J. Jaeger]

Phylogeography of two closely related anurans: the Relict leopard frog (Rana onca) and Lowland leopard frog (Rana yavapaiensis).

Derek Houston

Phylogeography of red-side shiners in the western North America. [Ph.D. RECEIVED 2009]

CURRENT POSITION: Postdoctoral Research Associate, Brigham Young University

Kimberly Hunter, Ph.D

Systematics and biogeography of North and South American species of creosote bush (Larrea) using chloroplast DNA. [PH.D RECEIVED SPRING 1996] RECIPIENT OF UNLV FOUNDATION OUTSTANDING DISSERTATION AWARD

CURRENT POSITION: Associate Professor, Salisbury University MD.

Jef Jaeger, Ph.D.

Population structure in Bufo punctatus and evolution of the Bufo punctatus species group and Rana onca. [2002-2003 UNLV PRESIDENT'S GRADUATE FELLOW; 2006 COLLEGE OF SCIENCES OUTSTANDING GRADUATE DISSERTATION]

CURRENT POSITION: NPS project manager, UNLV PUBLIC LANDS INSTITUTE.

Tereza Jezkova

Phylogeography and niche evolution of Great Basin mammals.

[NSF EPSCoR FELLOW; NSF Doctoral Dissertation Improvement Grant; Recognized by UNLV President as Outstanding Graduate Student during 2010 winter commencement ceremonies]

Bruce Jones, Ph.D

Phylogeography of Phrynosoma douglassi and P. platyrhinos: A comparative analysis of diversification in deserts and woodlands. [PH.D RECEIVED FALL 1995] RECIPIENT OF UNLV FOUNDATION OUTSTANDING DISSERTATION AWARD.

CURRENT POSITION: chief geographer, UNITED STATES GEOLOGICAL SURVEY

Laura Kelley, M.A.S.

Population genetics of Palmers' chipmunk, Tamias palmeri. [M.A.S. RECEIVED 2002]

CURRENT POSITION: unknown

Chris Lowery, M.S.

Population assessment in Palmers' chipmunk Tamias palmeri. [M.S. RECEIVED 2002]

CURRENT POSITION: USGS-BRD wildlife biologist

Stacy Mantooth

Biogeography of aridlands bats (Pipistrellus hesperus) and ground squirrels.

[IAAS GRAD. FELLOWSHIP; 2002-2003 UNLV PRESIDENT'S GRADUATE FELLOW; 2005-2006 UNLV REGENT'S GRADUATE FELLOW]

Zane Marshall, M.A.S.

Distribution and ESU analysis of Chaetodipus penicillatus in the western deserts.

CURRENT POSITION: Biologist Southern Nevada Water Authority

Kerstan Micone, M.S.

Population ecology of Chaetodipus penicillatus in Clark Co., Nevada. [M.S. 2002]

CURRENT POSITION: Law Associate

Marcus Mika [co-advisor; main advisor is J. Klicka]

David Nickle, M.S.

Molecular phylogeographic structure within the Perognathus fasciatus species group.

[M.S. RECEIVED 1994]

CURRENT POSITION: research biologist Merck & Co.

David Orange, Ph.D

Comparative phylogeography within and among four species of lizards in western North American deserts (Crotaphytidae.... [PH.D RECEIVED SPRING 1997]

CURRENT POSITION: high school mathematics instructor

Marikay Ramsey, M.S.

Bat species of the Spring Mountains of southern Nevada. [M.S. RECEIVED FALL 1995]

CURRENT POSITION: unknown

Jason Williams, M.A.S.

Community structure and habitat use by bats in the Upper Moapa Valley, Clark County, Nevada. [M.A.S. RECEIVED SPRING 2001]

CURRENT POSITION: NDOW non-game wildlife biologist

Garth Spellman, Ph.D. [co-advisor; main advisor is J. Klicka; PH.D. RECEIVED SPRING 2006]

CURRENT POSITION: Assistant Professor, Black Hills State University

COMMITTEE MEMBER FOR GRADUATE STUDENTS (* Graduated)

University of Nevada Las Vegas: E. Schmidt*, J. Jaeger*, K. Bowman*, M. Hamilton*, M. Raunshaugen*, S. Vrooman*, M. Kissell*, R. Knupp, J. Gromny*, T. DeVecchio, M. Erwin (Geosciences), L. Vetter* (Geosciences), D. Fletcher, A. Shirk (Geosciences), J. Bonde (Geosciences), V. Myers (Geosciences)

Stockholm University, Sweden: 2009 Invited Opponent for Ullasa Kodandaramaiah
 University of Toronto, Canada: M. Mattern*, Johan Lindell (external examiner)
 University of Western Australia: D. Edwards* (external examiner)
 University of Alaska Fairbanks: C. Conroy*
 University of Nevada Reno: M. Rahn*, C. Wilcox
 University of New Mexico: A. Ditto*
 Centro de Investigaciones Biológicas del Noroeste: Anahid Gutiérrez Ramos

SERVICE TO PROFESSION

2010 Invited expert, Nevada Department of Wildlife Mojave Desert Technical Advisory Group
 2009 Review of book proposal for Cambridge University Press
 2008 Invited expert, Clark County MSHCP Programmatic Effectiveness Workshop, Desert Research Institute, Las Vegas, Nevada, 5 August
 2008 Invited expert, Clark County MSHCP Ecosystem Health Workshop, Desert Research Institute, Las Vegas, Nevada, 29-31 January
 2008 Symposium development (co-organizer) for 2009 International Biogeography Society 4th conference: Pattern and Process at Biogeographic Boundaries Symposium
 2008 Review of Book manuscript for University of California Press
 2008 Invited to review Book manuscript for Jones & Bartlett (declined)
 2007-2008 Past-President, International Biogeography Society (chair Nominations Committee)
 2007-ongoing Associate Editor, Systematic Biology
 2007 Panel member, Fall Phylobiogeography panel, National Science Foundation
 2007 Review of Book proposal for Oxford University Press
 2006 Peer review for USFWS, Preble's meadow jumping mouse genetic research reports
 2006 Review of proposal for 8th edition Cox and Moore Biogeography for Blackwell Press
 2006 Review of proposal for an edited Alfred Russel Wallace book for University of Chicago Press
 2006 Review of Red Rock Canyon visitor center design for Bureau of Land Management
 2005-2007 President, International Biogeography Society.
 2005 Panel member, Fall Biodiversity Survey and Inventory Panel, National Science Foundation
 2005 Invited expert review, Nevada Comprehensive Wildlife Conservation Strategy
 2004-ongoing Editor, Journal of Biogeography.
 2004-2007 Member, American Society of Mammalogists Conservation Award Committee
 2004 Peer review for USFWS, Preble's meadow jumping mouse genetic research reports
 2003-2005 President-elect, International Biogeography Society.
 2003 Panel member, Fall Systematic Biology panel, National Science Foundation.
 2003 Host, Inaugural Meeting (4-8 January 2003), International Biogeography Society.

- 2003 Co-organizer, *Phylogeography and Diversification* symposium, Inaugural Meeting (4-8 January 2003), International Biogeography Society.
- 2001-2003 VP for conferences, International Biogeography Society.
- 2001-2004 Invited participant, 'Breakfast with a scientist', Annual Meeting, American Society of Mammalogists
- 2001-present Member, *Rana onca* species recovery team
- 2000 Founding member, *International Biogeography Society*
- 1999-2010 Member, Merriam Award Committee, American Society of Mammalogists.
- 1999-present Reviewer of applications for promotion to tenure (9); performance reviews (1); promotion to full professor (2).
- 1999 Participant and discussion leader, USFWS/NNHP Workshop on the biology and conservation of Nevada herpetofauna and mammals.
- 1999-2000 Member, Relict leopard frog working group
- 1999-2000 Member, Amargosa toad working group
- 1998-2001 Associate Editor, *Journal of Mammalogy*
- 1998-present Member, Great Basin Research Consortium
- 1998-1999 Member, LVVWD Big Springs resources team
- 1997 Reviewer of Mammal species-of-concern components (including 2 half-day meetings with other experts) of *Clark County Multiple Species Habitat Conservation Plan* (I revised a significant portion of the original species list, and my suggestions were generally incorporated into the final draft document now being reviewed for submission to Fish and Wildlife Service).
- 1997 Invited Expert Participant: World Wildlife Fund Workshop: *Biodiversity conservation priorities for the Chihuahuan Desert ecoregion complex*, Monterrey MX, 30 Sept.-2 Oct. 1997
- 1997-1998 Symposium organizer: *Comparative phylogeography of mammals and the historical assembly of continental mammalian biotas*, to be held at the European-American Mammal Congress, Santiago de Compostela, Spain, 20-24 July 1998
- 1996 Invited expert: Las Vegas Valley Water District meeting
- 1996-1998 Ad hoc reviewer of Clark County Multiple Species Conservation Plan
- 1994 Editor of mammalian biogeography Special Feature, *Journal of Mammalogy*.
- 1993-94 Scientific coordinator and facilitator of workshop. *Inactive mines as bat habitat: guidelines for research, survey, monitoring, and mine management in Nevada*. University of Nevada Reno.
- 1993 Invited participant, Nevada nongame small mammal interest group. NDOW.
- 1993 Invited participant, Nevada herpetofauna interest group. NDOW. Las Vegas NV
- 1993 Invited participant, Sensitive species scorecard. TNC. Carson City, NV.
- 1993 Invited participant, Spring Mountains research group. USFWS. Carson City, NV
- 1992-1993 Board of Directors member. Arizona-Nevada Academy of Sciences.
- 1992 Molecular systematics and evolution committee. Systematics Agenda 2000.
- 1992 Evolution roundtable for graduate students panel member. ASM, Salt Lake, UT
- 1991-present Reviewer of peer-reviewed research manuscripts for *Evolution*, *Molecular Ecology*, *PNAS*, *PLOS Genetics*, *Systematic Biology*, *Journal of Mammalogy*, *Southwestern Naturalist*, *Copeia*, *Conservation Genetics*, *Journal of Biogeography*, *Great Basin Naturalist*, *North American Journal of Fisheries Management*, *Molecular Phylogenetics and Evolution*, *Ecography*, *Mammalian*

- Species Accounts, Herpetological Monographs, American Naturalist, American Midland Naturalist, Molecular Ecology, Global Ecology and Biogeography, Heredity, Palaeogeography Palaeoclimatology Palaeoecology
- 1991-present Reviewer of research proposals for National Science Foundation, National Geographic Society, U.K. Nat. Env. Res. Council, Smithsonian Institution, Idaho Specific Research Grant Program.
- 1991-1996 Honoraria committee member. American Society of Mammalogists.
- 1991-present Technical sessions chair, various meetings
- 1991 Fall special emphasis panel member, dissertation improvement grants. NSF
- 1991 Spring special emphasis panel member, dissertation improvement grants. NSF
- 1990 Fall special emphasis panel member, dissertation improvement grants. NSF
- 1989-90 Education and graduate students committee member. ASM
- 1989 Consultant, The Promised Land. British Broadcasting Corporation.
- 1987 Local committee member. Annual Meeting American Society of Mammalogists. Albuquerque New Mexico.

SERVICE TO UNIVERSITY OF NEVADA LAS VEGAS

- 2009 Lead author opinion article: *We all have a stake in UNLV*, Las Vegas Review Journal, 29 March 2009
- 2008-ongoing Steering committee member, ecological change component of NSF EPSCoR Nevada Climate Change Infrastructure grant.
- 2008-present Leadership of UNLV science collections planning process
- 2008 Participant: Harry Reid Center External Visit
- 2006 Invited guest on *Face to Face with Jon Ralston*, KLVX-TV, *Southern Nevada water grab in northern Nevada*.
- 2006 Invited guest on *Face to Face with Jon Ralston*, KLVX-TV, *Weird Science: Darwin vs. Creation in the Classroom*
- 2005-2007 Member, Walking Box Ranch planning committee
- 2004 co-Chair, Walking Box Ranch task force
- 2003 Chair, Walking Box Ranch task force
- 2003-2006 Member, Graduate College Faculty and Student Issues Committee
- 2001-2002 Member, Biological Sciences team charged to write the Walking Box Initiative proposal
- 2000-2001 Member, Graduate College Program Review Committee
- 2000 Member, Internal Peer Review Committee, Leisure Studies Program
- 1998-2000 Member, Graduate College Curriculum Committee
- 1998-2006 Member, Graduate Council
- 1996-1997 Member, Faculty Senate Program Review Committee
- 1993-1998 Designated Radiological Safety Officer Representative, occasionally
- 1993 Committee chair, UNLV Graduate College internal review of Chemistry Department graduate programs
- 1993 Committee member, UNLV Honors student Gregg Schultz
- 1991 Desert Tortoise technical advisory committee member.

SERVICE TO UNLV COLLEGE OF SCIENCE

- 2007 Tenure and Promotion Advocate for colleague at CoS Executive Committee
- 2006 Science Bowl Symposium presentation (10 February)
- 2004-2006 Member, COS Graduate Affairs committee
- 2003 College merit committee, teaching sub-committee
- 2002 College merit committee, research sub-committee
- 2000 College merit committee, research sub-committee
- 1999 Science Bowl demonstrations, 5 February.
- 1991-93 UNLV honors council member.

SERVICE TO UNLV SCHOOL OF LIFE SCIENCES

- 2010 Chair, Southern Nevada Biodiversity Resources Steering Committee
- 2010 Lead, funding collaborations development for Niles Herbarium
- 2006- 2009 Head, SoLS Ecology and Evolutionary Biology (Biodiversity, Evolution, and Ecological Sustainability) section
- 2007 – present Member, SoLS Personnel Committee
- 2007 Invited expert, *Desert Bats* episode of *Desert Survivors* series
- 2004-ongoing Development coordinator, Center for Aridlands Biodiversity Research and Education (CABRE) [expected implementation, Spring 2008]
- 2004-ongoing Interim Curator, Wesley E. Niles Herbarium
- 2002-2006 DBS Associate Chair
- 2001-2002 DBS Graduate Admissions Committee chair
- 2001 Peer evaluation of BIO 432/632 course materials for Dr. R.M. Winokur
- 2000 Recruitment facilitator, Target of opportunity hiring initiative for Dr. Javier Rodriguez
- 1999 Member, Aquatic Biologist search committee
- 1998-2006 DBS Graduate Coordinator
- 1998 Chair, Senior Molecular Biologist search committee [search suspended]
- 1996-2003 Elected member, DBS personnel committee
- 1995 Lecturer search committee member [appointed during last phase of process].
- 1994 Fall semester undergraduate advisor
- 1994 UNLV lab tour for Clayton Sellars high school science students
- 1995-1998 Space committee member.
- 1993-1997 Graduate operations committee member.
- 1993-1997 Graduate admissions committee member.
- 1992 Co-organizer DBS faculty retreat.
- 1991-93 Graduate programs committee member.

SERVICE TO COMMUNITY

- 2010 Invited expert, Spring Mountains Middle Kyle Canyon interpretive project
- 2009 Invited expert, Nuvagantu/Spring Mountain Interpretive Planning Workshop, Las Vegas, 28-31 January
- 2007 Invited presentation: Southern Nevada Group of the Sierra Club

- 2002-2004 Member, Board of Directors, Nevada Wilderness Project
- 2003 Testified at invitation from Senator Titus at State of Nevada Assembly in support of SB 358
- 2003 Wrote featured article on development of Red Rock area for Las Vegas Review Journal, April
- 2002 Member: professional advisory committee, Las Vegas Springs Preserve Visitor Center
- 2002 Panel member: 19 March Citizen's Wilderness Forum
- 2002 Signatory and contact: scientist letter to Nevada Senators re: Citizen's Wilderness Proposal
- 2002 Sponsor: 10 October WILD PAC event in Las Vegas
- 2001 Wrote featured article on local wildlife for Las Vegas Review Journal, 5 August
- 2001 Featured local expert, news story in Los Angeles Times
- 2000 Featured local expert, wildfire news story on KNTV, Channel 13
- 2000 Featured expert, New Mexico Museum of Natural History educational video
- 1998 Invited speaker, JASON X project
- 1998 Invited speaker, Nevada Wildlife Federation awards banquet
- 1997-ongoing Bat talks and/or field experiences:
Whitney Young Peoples Library Rainbow reading program
UNLV Continuing Education (offered four times)
National Association of Senior Friends
Tortoise Group
Red Rock Canyon Interpretive Association (offered four times)
Elementary schools: Meadows, Mack, Hoggard, Elaine Wynn, Gilbert Magnet, Whitney, Scottsdale (Arizona), Glendale (Arizona),
- 1997 Feature article in Las Vegas Review-Journal Newspaper, 6 July (reprinted in several newspapers throughout Nevada)
- 1996 Interview and filming of Bat program for Outdoor Nevada
- 1992-1996 UNLV Continuing Education course. *Bats: important, interesting, and unappreciated*. 92, 93, 96
- 1995 Packrat lecture, second grade class at Sunrise Acres school.
- 1994 Bat lecture at Natural History Museum, Halloween safe night.
- 1990-ongoing Frequently provide advice and answer questions on broad range of wildlife issues solicited by Las Vegas residents.

SOCIETY AFFILIATIONS

American Association for the Advancement of Science, American Society of Mammalogists, Society of Systematic Biology, The Society for the Study of Evolution, International Biogeography Society