

CURRICULUM VITAE
OF
RICHARD LAWRENCE CIFELLI

EDUCATION:

A.B., magna cum laude, Department of Sociology, Colby College, Waterville, ME, June 1976.

A.M., Department of Anthropology, University of Chicago, Chicago, IL, January 1979.

M.Phil., Department of Geological Sciences, Columbia University, New York, December 1979.

Ph.D., Department of Geological Sciences, Columbia University, New York, May 1983.
Major field, vertebrate paleontology; minor fields, comparative anatomy, systematic zoology, and stratigraphy.

FOREIGN LANGUAGES:

Portuguese, German (reading only), Spanish, French

PROFESSIONAL EXPERIENCE:

Current appointments: Associate Curator of Vertebrate Paleontology, Oklahoma Museum of Natural History; Associate Professor, Department of Zoology, University of Oklahoma; Research Associate, Department of Geosciences, University of Arizona, Tucson; Biological Survey, New York State Museum, Albany; Department of Geology, Museum of Northern Arizona, Flagstaff.

1985-86: Curator of Paleontology, Museum of Northern Arizona, Flagstaff.

1983-84: Postdoctoral Fellow, Department of Vertebrate Zoology, Smithsonian Institution, Washington, DC; Research Associate, Department of Geology, Museum of Northern Arizona, Flagstaff, Department of Geosciences, University of Arizona, Tucson.

1982: Curatorial Assistant, Department of Vertebrate Paleontology, American Museum of Natural History (curation of dinosaur collections).

1979-80: Paleontologist and consultant, Museum of Northern Arizona, Flagstaff (survey and research geology and paleontology).

1977: Dock foreman, Salamatof Seafood Co., Kenai, AK (longshoreman).

1976: Volunteer, Laboratory of Osteoarcheology, Maine State Museum, Augusta.

1975: Volunteer, Department of Palaeontology, National Museums of Kenya, Nairobi (curation of Plio-Pleistocene mammals).

1974: Archeologist, University of Alaska/Alyeska Pipeline Project (salvage and survey archeology).

FIELD EXPERIENCE:

(place; institution; objectives)

1992: Lower Cretaceous Cedar Mountain Formation of central Utah; National Geographic society; 100 million-year-old mammals and other microvertebrates.

1991: Kaiparowits region of southern Utah and Lower Cretaceous Cedar Mountain Formation in Central Utah; fossiliferous microvertebrate sites.

1990: Utah, Southern Oklahoma; visited the University of Texas, Smithsonian, American Museum of Natural History to study specimens in collections of these institutions.

1988: Utah, Big Bend, TX, Oklahoma panhandle; visited Smithsonian for study of recent mammals.

1987: Oklahoma panhandle, McCurtain Co.; Big Bend, TX (for documentation of existing Oklahoma Museum of Natural History collection); southern Utah; Colombia; Chile; Arizona (research); visited Smithsonian to get material for undergraduate research projects.

1986: Colombia; Duke University; fossil mammals of the middle Tertiary

1985: Sonora, Mexico; Museum of Northern Arizona; vertebrate zoological survey and collecting

1985: Colombia; Duke University; fossil mammals of the middle Tertiary

1984: Bolivia; Florida State Museum; magnetostratigraphy and fossil mammals of the middle Tertiary

1984: Kenya, Pakistan; Harvard University; paleontology of Miocene hominoid sites, vertebrate zoological collecting

1983: Grand Canyon; Museum of Northern Arizona; Pleistocene geology

1983-86: Utah; Museum of Northern Arizona; microvertebrate reconnaissance of the middle and late Cretaceous

1983: Grand Canyon; United States Park Service; lecturer in geology and paleontology, Colorado River Guides Training Seminar

1982: Mexico; University of Chicago; geology and paleontology of the continental Mesozoic.

1982: Grand Canyon; Scripps Oceanographic Institute; hydrology and ecology

1981: Brazil, Argentina; various; paleontology of paleocene localities

1981: Grand Canyon; Museum of Northern Arizona; geology of Pleistocene deposits

1980: Mexico; University of Chicago; zoological collecting

1979-80: southwestern U.S.A.; Museum of Northern Arizona; environmental impact surveys, reconnaissance geology and paleontology of the Grand Canyon

1978: Wyoming, Greenland; American Museum of Natural History; magnetic stratigraphy, reconnaissance geology and paleontology

1977: Wyoming; American Museum of Natural History; geology and paleontology of the early Tertiary

1976: Juneau Icefield, Alaska; Foundation for Glacier and Environmental Research; glaciology and glacial geomorphology

1975: Kenya; Yale University; paleontology and geology of various early man sites.

1974: Front Royal, VA; University of Maryland archeological field school; excavation of Paleoindian sites.

TEACHING EXPERIENCE:

Introduction to Astronomy and Geology

Physical Geology

Vertebrate Paleobiology

Evolution of the Vertebrates

Age of Dinosaurs

PROFESSIONAL AFFILIATIONS:

Asociacion Paleontologica Argentina

Society of Vertebrate paleontology

Society of the Sigma Xi

American Society of Mammalogists

Society for the Study of Evolution

Nature Conservancy

Arizona-Sonora Desert Museum

New York Academy of Sciences

Paleontological Society

FELLOWSHIPS, GRANTS, AND AWARDS:

(asterisk indicates sole investigator)

A. Currently Funded

*National Science Foundation: Early Cretaceous Mammals and Other Microvertebrates. April 15, 1994 to April 14, 1997, \$139,514.

B. Prior Research Awards.

*National Geographic Society: The Rise of Higher Mammals in North America. April 8, 1993 to April 7, 1994, \$21,180.

*National Geographic Society: Early Cretaceous mammals from the Cedar Mountain Formation, Utah. April 15, 1992-April 14, 1993, \$20,424.

*National Science Foundation; Systematics of late Cretaceous mammals of southern Utah. July 15, 1989-June 30, 1992, \$111,912.

National Science Foundation; Paleontology and Geochronology of the Middle Miocene of South America. December 1, 1989-November 30, 1992, \$380,000 (Cifelli budget \$12,000). with R.F. Kay.

National Science Foundation; ROA Supplement for Palynology of the Kaiparowits Formation. July 1, 1990-June 30, 1992, \$8,440. with M.J. Farabee.

National Science Foundation; Restoration of OMNH Vertebrate Paleontology Collection, Phase II. September 15, 1991-March 14, 1994, \$174,508. with N.J. Czaplewski.

*University of Oklahoma Research Council; Pilot Study of Early Cretaceous Mammals. I. Lab Work. October 30, 1991-October 29, 1992, \$1,560.

*National Science Foundation; Restoration of paleozoic and Mesozoic Fossil Vertebrate Collection, Stovall Museum. November 15, 1988-November 14, 1991, \$149,885.

*American Chemical Society; Microvertebrate Reconnaissance, Morrison and Antlers Formations, Oklahoma. April 15, 1988-April 14, 1990, \$18,000.

*National Science Foundation, BRR Program; Late Cretaceous Mammal Faunas of Southern Utah. April 15, 1986-January 31, 1989, \$58,360.

*National Science Foundation, REU Supplement; SEM study of early mammals. May 1, 1987-January 31, 1989, \$8,000.

National Science Foundation, BSR; Biochronology and Geochronology of Friasian (middle Miocene) land mammal age, Colombia and Chile. December 15, 1986-December 14, 1989, participant with R.F. Kay as P.I., \$300,000; Cifelli budget, \$6,000.

*Biological Research Resources Program, National Science Foundation; grant awarded for collection, preparation, and curation of Late Cretaceous mammal faunas of southern Utah. 1985, \$58,378.

*OU Associates; Morphometrics of Cretaceous Mammals. 1987, \$24,800.

National Science Foundation; Cretaceous Microvertebrates of Southern Utah. 1986, \$21,778.

*Fellowships and Grants, Smithsonian Institution; grant awarded for short term visit to study vertebrate zoology collections. 1985, \$1,030.

Committee for Research and Exploration, National Geographic Society; grant awarded for support of field work on Oligocene and Miocene vertebrate faunas of Colombia, 1985, \$18,000.

*Committee for Research and Exploration, National Geographic Society; grant awarded for support of field work and research on Cretaceous microvertebrates of southern Utah. 1984, \$12,086.

*Gordon Barbour Fund, Princeton University; grant awarded for support of research on South American fossil mammals. 1983, \$2,500.

Evidence of tooth replacement in *Alphadon* based in CT scans," presented at 55th Annual Meeting of the Society of Vertebrate Paleontology, Pittsburgh, 3 November 1995.

INVITED LECTURES GIVEN IN LAST THREE YEARS:

Therians of methatherian-eutherian grade and the origin of marsupials. International Symposium on the Analysis of Phylogenetic Relationships Among Mammals: Evidence from Molecules, Genetics, Embryology, Anatomy, and Paleontology, New York, May 1990.

The phylogeny of the native ungulates of South America. International Symposium on the Analysis of Phylogenetic Relationships Among Mammals: Evidence from Molecules, Genetics, Embryology, Anatomy, and Paleontology, New York, June 1990.

Mammals from the Age of Dinosaurs, presented at Blue Chord Colloquium, Oklahoma City, Oklahoma, September 1991.

Analysis of Shape Variation Using Ordination of Fitted Polynomial Functions, presented at Systematics Luncheon Group, University of Oklahoma, 1991.

In the footsteps of giants: mammals from the Age of Dinosaurs. Dallas Paleontological Society, Dallas, Texas, August 1992.

Mammals from the Age of Dinosaurs, presented at Science and Technology Series, Northeastern State University, March 1994.

PUBLICATIONS:

Refereed journal articles:

Cifelli, R.L. 1980. A reassessment of labyrinthodont paleolatitudinal distributions. Palaeogeography, Palaeoclimatology, Palaeoecology 30:121-131.

Cifelli, R.L. 1981. Patterns of evolution among the Artiodactyla and Perissodactyla (Mammalia). Evolution 35(3):433-440.

Cifelli, R.L. 1982. The petrosal structure of *Hyopsodus* with respect to that of some other ungulates, and its phylogenetic implications. Journal of Paleontology 56(3):795-805.

Cifelli, R.L., T.B. Rowe and B. Kues. 1982. The instrumental role of paleontology in the funding and development of a major new natural history museum. Journal of Paleontology 56(4):839-842.

Cifelli, R.L. 1983. Eutherian tarsals from the late Paleocene of Brazil. American Museum Novitates 2761:1-31.

Cifelli, R.L. 1983. The origin and affinities of the South American Condylarthra and early Tertiary Litopterna (Mammalia). American Museum Novitates 772:1-49.

- Cifelli, R.L. and M.F. Soria. 1983. Systematics of the Adianthidae (Litopterna, Mammalia). American Museum Novitates 2771:1-25.
- Cifelli, R.L. and M.F. Soria. 1983. Notes on Deseadan Macraucheniidae. Ameghiniana 20(1-2):141-153.
- Cifelli, R.L., M.J. Novacek, M.C. McKenna and N.A. Neff. 1983. Evidence from earliest known erinaceomorph basicranium that insectivorans and primates are not related. Nature 306:683-684.
- Cifelli, R.L. 1984. The origin and phylogeny of the South American Condylarthra and early Tertiary Litopterna (Mammalia). Dissertation Abstracts International 44(8):2638B-2639B.
- Cifelli, R.L. and M.F. Soria. 1984. *Adianthus bucatus* Ameghino, 1891: proposed designation of a neotype under the plenary powers. Z.N. (S.) 2430. Bulletin of Zoological Nomenclature 41:56-57.
- Cifelli, R.L. 1984. The Casamayoran Land Mammal Age in Patagonia. Ameghiniana 21(1):9-10.
- Cifelli, R.L. 1985. Biostratigraphy of the Casamayoran, early Eocene, of Patagonia. American Museum Novitates 2820:1-26.
- Cifelli, R.L., B.J. MacFadden, K.E. Campbell, O. Siles, N.M. Johnson, C.W. Naeser and P.K. Zeitler. 1985. Magnetic polarity stratigraphy and mammalian biostratigraphy of the Seseadan (late Oligocene-early Miocene) of northern Bolivia. Journal of Geology 93(3):223-250.
- Cifelli, R.L. 1985. Designation of a neotype for *Adianthus bucatus* Ameghino, 1891 (Mammalia) under the plenary powers: a response. Z.N.(S.) 2430. Bulletin of Zoological Nomenclature 42:103-106.
- Cifelli, R.L., A. Ibui, L.L. Jacobs and R.W. Thorington. 1986. A giant fossil squirrel from the late Miocene of northwestern Kenya. Journal of Mammalogy 67(2):274-283.
- Cifelli, R.L., L.G. Marshall, R.E. Drake and G.H. Curtis. 1986. Geology, vertebrate paleontology, and geochronology of the Tapera de Lopez and Scarritt Pocket, Chubut Province, Argentina. Journal of Paleontology 60(4):920-951.
- Cifelli, R.L. and C.E. Ray. 1986. Vertebrate zoogeography and evolution in Australasia. Journal of Vertebrate Paleontology 6(2):203-205 (book review).
- Cifelli, R.L. and S.K. Madsen. 1986. An upper Cretaceous symmetrodont (Mammalia) from southern Utah. Journal of Vertebrate Paleontology 6(3):258-263.

- Cifelli, R.L. and J.G. Eaton. 1987. Marsupial from the earliest Late Cretaceous of Western U.S. Nature 325:520-522.
- Kay, R.F., R. Madden, R.L. Cifelli, J.M. Plarcan, and J. Guerrero. 1987. *Stirtonia victoriae*, a new species of Miocene Colombian primate. Journal of Human Evolution 16:1-27.
- Kay, R.F., R.H. Madden, J.G. Lundberg, R.L. Cifelli, and J. Guerrero. 1988. Informe general de nuevos descubrimientos de vertebrados fosiles en el Miocene de Colombia, Chile y Ecuador. V Jornadas Argentinas de Paleontologia Vertebrados resúmenes 1988:48-49.
- Eaton, J.G., and R.L. Cifelli. 1988. Preliminary report on Late Cretaceous mammals of the Kaiparowits Plateau, southern Utah. Contributions to Geology, Univ. Wyoming 26(2):45-56.
- Cifelli, R.L., C.R. Schaff and M.C. McKenna. 1989. The relationships of the Arctostylopidae (Mammalia): new data and interpretation. Bulletin, Museum of Comparative Zoology, Harvard University 152(1):1-44.
- Cifelli, R.L. and J. Guerrero Diaz. 1989. New remains of *Prothoatherium colombianus* (Litopterna, Mammalia) from the Miocene of Colombia. Journal of Vertebrate Paleontology 9(2):222-231.
- Cifelli, R.L. 1990. Cretaceous mammals of southern Utah. I. Marsupial mammals from the Kaiparowits Formation (Judithian). Journal of Vertebrate Paleontology 10(3): 295-319.
- Cifelli, R.L. 1990. Cretaceous mammals of southern Utah. II. Marsupials and marsupial-like mammals from the Wahweap Formation (early Campanian). Journal of Vertebrate Paleontology 10(3):320-331.
- Cifelli, R.L. 1990. Cretaceous mammals of southern Utah. III. Therian mammals from the Turonian (early Late Cretaceous). Journal of Vertebrate Paleontology 10(3): 332-345.
- Cifelli, R.L. 1990. Cretaceous mammals of southern Utah. IV. Eutherian mammals from the Wahweap (Aquilan) and Kaiparowits (Judithian) formations. Journal of Vertebrate Paleontology 10(3):346-360.
- Cifelli, R.L. 1990. A primitive higher mammal from the Late Cretaceous of southern Utah. Journal of Mammalogy 71(3):343-350.
- Marshall, L.G. and Cifelli, R.L. 1990. Analysis of changing diversity patterns in Cenozoic land mammal age faunas, South America. Palaeovertebrata 19(4):169-210.

- Godthelp, H., M. Archer, R.L. Cifelli, S.J. Hand, and C.F. Gilkeson. 1992. Australia's first early Tertiary mammals. Nature 356:514-516.
- Rowe, T.B., R.L. Cifelli, T. Lehman, and A. Weil. 1992. The Campanian age Terlingua local fauna, with a summary of other vertebrates from the Aguja Formation, Trans-Pecos Texas. Journal of Vertebrate Paleontology 12(4):472-493.
- Cifelli, R.L. 1993. The phylogeny of the native ungulates of South America. In: F.S. Szalay, M.J. Novacek, and M.C. McKenna, eds., Mammal Phylogeny, vol. 2. Springer-Verlag, New York, pp. 195-215.
- Cifelli, R.L. 1993. Therians of metatherian-eutherian grade and the origin of marsupials. In: Mammal Phylogeny, vol. 2. Springer-Verlag, New York, pp. 205-215.
- Rothschild, B.M., Xiaoming Wang, and R.L. Cifelli. 1993. Spondyloarthropathy in Ursidae: a sexually transmitted disease? Research and Exploration 9(3):382-384.
- Cifelli, R.L. 1993. Early Cretaceous mammal from North American, and the evolution of marsupial dental characters. Proceedings, National Academy of Sciences USA 90:9413-9416.
- Cifelli, R.L. and Z. Johanson. 1994. Marsupial mammals from the Cretaceous of Utah. Journal of Vertebrate Paleontology 14:292-295.
- Cifelli, R.L. 1995. Therian mammals of the Terlingua Local Fauna (Judithian), Aguja Formation, Big Bend of the Río Grande, Texas. Contributions to Geology, University of Wyoming 30(2): 117-136. [volume and separates are dated December 1994, but publication date is March 1995]
- Cifelli, R. L., and Nydam, R. L. 1995. Primitive, helodermatid-like platynotan from the Early Cretaceous of Utah. Herpetologica 51(3):286-291.
- Cifelli, R. L., Czaplewski, N. J., and Rose, K. D. 1995. Additions to knowledge of Paleocene mammals from the North Horn Formation of central Utah. Great Basin Naturalist 55(4):304-314.
- Cifelli, R. L., and Fraser, N. D. 1995. Editorial report, Journal of Vertebrate Paleontology. Bulletin Society of Vertebrate Paleontology 163:27-40.
- Cifelli, R. L. 1995. Reduction of bentonitic claystones. Bulletin Society of Vertebrate Paleontology 164: 46.
- Cifelli, R. L., T. B. Rowe, J. Banta, and R. I. Howes. 1995. *Alphadon* and postcanine tooth replacement. Journal of Vertebrate Paleontology 15, supplement: 24A

Refereed book chapters:

Cifelli, R.L. 1985. South American ungulate evolution and extinction. Pp. 249-266 IN The Great American Biotic Interchange (S.D. Webb and F.G. Stehli, eds.). Plenum Publ. Co., New York.

Unrefereed publications:

Cifelli, R.L., G. Billingsley, W. Breed. 1979. The Paleontological resources of the Petrified Forest. Repts. Petrified Forest Natural History Assoc.

Cifelli, R.L. 1979. Preliminary report on the paleontological resources of the Alchesay pumped storage project (Salt River Project) study area. Printed and distributed by Wirth Assoc., Phoenix.

Cifelli, R.L., T.B. Rowe, B. Kues. 1980. Fossils of New Mexico: the making of an exhibit and a new state natural history museum. Museum of Northern Arizona Press, Flagstaff.

Cifelli, R.L. 1985. Cretaceous mammal faunas from the Kaiparawits region, southcentral Utah. 33rd Annual Symposium of Southwestern Geology and Paleontology:2 [abstract].

Cifelli, R.L., R.F. Kay, R.M. Madden and J. Guerrero Diaz. 1986. A new specimen of Miocene Colombian *Stirtonia*. American Journal of Physical Anthropology XX:XX [abstract].

Cifelli, R.L., A.K. Behrensmeyer, L. Stevens, and W.R. Downs. 1986. Overview of Quaternary deposits in the Grand Canyon. Geological Society of America. [abstract].

Cifelli, R.L., R.W. Thorington. 1986. Cranial allometry of *Sciurus*. An. Mtg. American Society of Mammalogists. [abstract].

Cifelli, R.L., L.G. Marshall. 1987. Restructuring of Cenozoic land mammal faunas of South America. XII Congr. Int. Union Quaternary Res. [abstract].

Cifelli, R.L., C.R. Schaff, M.C. McKenna. 1987. The affinities of the Arctostylopidae (Mammalia). Journal of Vertebrate Paleontology 7(3) [suppl.]:14A [abstract].

Cifelli, R.L. 1987. Therian mammals from the Late Cretaceous of the Kaiparowits region, Utah. Journal of Vertebrate Paleontology 7(3) [suppl.]:14A [abstract].

Cifelli, R.L. 1988. Structure and affinities of the Miocene South American ungulate *Megadolodus*. Journal of Vertebrate Paleontology 8(3) [suppl.]:11A [abstract].

Cifelli, R.L., E.W. Sherburn, E.M. Larson. 1988. Dental wear and habitat preference in primitive tribosphenid mammals. Journal of Vertebrate Paleontology 8(3) [suppl.]:12A [abstract].

Cifelli, R.L. 1989. The origin and early evolution of marsupials. Journal of Vertebrate Paleontology 9(3) [suppl.0]:17A [abstract].

Cifelli, R.L. and Rowe, T.B. 1990. Therian mammals from the Late Cretaceous of southern Texas. Journal of Vertebrate Paleontology 10(3) [suppl.]:18A (abstract).

Cifelli, R.L. 1991. Analysis of mammalian cusp shape using fitted polynomial functions. Journal of Vertebrate Paleontology 11(3) [suppl.]: 23A [abstract]

Czaplewski, N.J., R.L. Cifelli, and W. Langston. 1994. Catalog of type and figured fossil vertebrates, Oklahoma Museum of Natural History. Oklahoma Geological Survey Special Publications 94-1:1-36.

Cifelli, R. L. 1995. *Acrocanthosaurus atokensis*. Oklahoma Geology Notes 55:166 [note accompanying cover illustration]

Peeters, T., Johnson, K., and R. L. Cifelli. 1995. Oklahoma Dinosaur Days. Oklahoma Geocalendar 1996. Oklahoma Geological Survey [text on calendar and accompanying brochure]

Papers in Press or Submitted for Publication

Cifelli, R.L. South America ungulates. Vertebrate Paleontology (K.S. Thompson, et al., eds.).

Cifelli, R.L. Embrithopoda and Hyracoidea. Vertebrate Paleontology (K.S. Thompson, et al., eds.).

Cifelli, R.L. and C.R. Schaff. Arctostylopidae. IN: Tertiary Mammals of North America. (C. Janis, K. Scott, and L. Jacobs, eds.). Cambridge Univ. Press.

Cifelli, R.L. and C. Villarroel. Paleobiology and affinities of *Megadolodus*. IN: A History of the Neotropical Fauna: Vertebrate Paleobiology of the Miocene of Tropical South America (R.F. Kay, R.L. Cifelli, and R.H. Madden, eds.). Springer-Verlag, New York.

Cifelli, R.L. and J. Guerrero Diaz. Litopterna from the Miocene Honda Group of Colombia. IN: A History of the Neotropical Fauna: Vertebrate Paleobiology of the

Miocene of Tropical South America (R.F. Kay, R.L. Cifelli, and R.H. Madden, eds.). Springer-Verlag, New York.

Cifelli, R.L., S.K. Madsen, and E.M. Larson. Collection and preparation of microvertebrate fossils. I. Screenwashing and concentration techniques. Bulletin, Oklahoma Geological Survey (submitted 2/93).

Cifelli, R.L. Application of fitted polynomial functions to modeling biological contours. Systematic Biology (submitted 2/94).

Kay, R.F., Madden, R.H., Cifelli, R.L., and Flynn, J.J. (eds.) The History of the Neotropical Fauna: Vertebrate Paleontology of the Miocene of Tropical South America. Smithsonian Institution Press, Washington, D.C. (accepted 8/93).

Mehlhop, P. and R.L. Cifelli. A comparison of morphometric techniques to distinguish sympatric mussel species (family Unionidae) with similar shell morphology. IN: T. Yates, ed. (book title not yet available). University of New Mexico Press, Albuquerque. (submitted 1994).

Cifelli, R.L. South American ungulates. Thompson, K.S., et al., eds., Vertebrate Paleontology (submitted 11/86; revised draft accepted 9/88). [The status of this book is now uncertain; if there is no news in 1996 it will finally be removed from further listing]

Cifelli, R.L. Embrithopoda and Hyracoidea. Thompson, K.S., et al., eds., Vertebrate Paleontology (submitted 4/87; revised draft accepted 9/88). [The status of this book is now uncertain; if there is no news in 1996 it will finally be removed from further listing]

Cifelli, R.L., and Schaff, C.R. Arctostylopidae. *In*: Janis, C., K. Scott, and L. Jacobs, eds., Tertiary Mammals of North America. Cambridge Univ. Press (submitted 8/87). [This book may appear in 1996]

Janis, C. M., J. D. Archibald, R. L. Cifelli, S. G. Lucas, C. R. Schaff, R. M. Schoch, and T. E. Williamson. Archaic ungulates and ungulate-like mammals. *In*: Janis, C., K. Scott, and L. Jacobs, eds., Tertiary Mammals of North America. Cambridge Univ. Press (submitted 3/95) [this book may appear in 1996]

Cifelli, R.L., and C. Villarroel. Paleobiology and affinities of *Megadolodus*. *In*: R.F. Kay, R.L. Cifelli, and R.H. Madden, eds., The History of the Neotropical Fauna: Vertebrate Paleobiology of the Miocene of Tropical South America. Springer-Verlag, New York, pp. 263-286 [scheduled for publication in February 1996]

Cifelli, R.L., and J. Guerrero Diaz. Litopterna from the Miocene Honda Group of Colombia. *In*: R.F. Kay, R.L. Cifelli, and R.H. Madden, eds., The History of the Neotropical Fauna: Vertebrate Paleontology of the Miocene of Tropical South America. Springer-Verlag, New York, pp. 287-300. [scheduled for publication in February 1996]

Cifelli, R. L., ed., Techniques for Recovery and Preparation of Microvertebrate Fossils. Special Publication, Oklahoma Geological Survey (accepted 3/95).

Cifelli, R. L., S. K. Madsen, and E. M. Larson. Screenwashing and concentration techniques. *In*: R. L. Cifelli, ed., Techniques for Recovery and Preparation of Microvertebrate Fossils. Special Publication, Oklahoma Geological Survey (accepted 3/95).

Cifelli, R. L. Application of fitted polynomial functions to modeling biological contours. American Midland Naturalist (accepted 12/95).

Kay, R. F., Madden, R. H., Cifelli, R. L., and Flynn, J. J. (eds.). The History of the Neotropical Fauna: Vertebrate Paleontology of the Miocene of Tropical South America. Smithsonian Institution Press, Washington, D.C. (accepted 8/93). [scheduled for publication in February 1996]

Mehlhop, P., and R. L. Cifelli. A comparison of morphometric techniques to distinguish sympatric mussel species (family Unionidae) with similar shell morphology. *In*: T. Yates, ed. [book title not yet available]. University of New Mexico Press, Albuquerque. (Submitted 5/94).

Cifelli, R. L., T. B. Rowe, W. P. Luckett, J. Banta, R. Reyes, and R. I. Howes. Origins of marsupial pattern of tooth replacement: fossil evidence revealed by high resolution X-ray CT. Nature (accepted 10/95).