



Fig. 1.1. Malcolm Carnegie McKenna.

Chapter 1

Malcolm C. McKenna: A Biography and Bibliography

SUSAN K. BELL

Malcolm Carnegie McKenna was born on July 21, 1930, in Pomona, California, and grew up in Claremont where he attended the Webb School, a high school that produced many future paleontologists and geologists. With biology teacher Raymond Alf, he took summer field trips to Nebraska and Wyoming, as well as many shorter trips into the nearby desert, and by the age of seventeen he was “hooked” on fossils. In his late teens, McKenna contracted tuberculosis and spent close to a year in a sanitarium. During this time he did a prodigious amount of reading and became thoroughly familiar with the paleontological literature.

Soon after McKenna enrolled in the undergraduate paleontology program at the University of California at Berkeley, he was made a teaching assistant for graduate students because he already “knew fossils backwards and forwards”. During his undergraduate years he married Priscilla Coffey, whom he had known since nursery school, became a father with the birth of Douglas in 1954, and began the research for his Ph.D. In 1954 McKenna received his B.A. in paleontology and in 1958 he was awarded his doctorate under the tutelage of Don Savage, R. A. Sturton, Charles Camp, and Sam Welles. The work for his dissertation on the *Fossil Mammalia from the early Wasatchian Four Mile fauna, Eocene of northwest Colorado* was especially notable because of the large number of tiny fossils he was able to recover by turning Claude Hibbard’s screen washing technique into mass production.

After receiving his graduate degree, McKenna was an instructor for a year in the Department of Paleontology at the University of California until George Simpson, with whom he had done fieldwork for a number of summers, invited him to come to the American Museum of Natural History.

McKenna, who claims to have never “worked” a day in his life, began his career at the American Museum in 1960 as Assistant Curator in the Department of Vertebrate Paleontology—the youngest curator in the museum at the time. Concurrently he became Assistant Professor of Geology at Columbia University, inheriting some of Simpson’s former students. During his early years at the museum, McKenna continued his fieldwork in the American West, applying his screening techniques to the recovery of Cretaceous mammals. Having arrived at the museum already outfitted with a field crew of four—Priscilla, Douglas, Katharine (born 1956), and Andrew McKenna (born 1958)—he augmented the crew with new graduate students and a third son, Bruce, born in 1962.

At this time McKenna took on Simpson’s former project, the classification of mammals. He also became interested in the collections made in Mongolia in the 1920s by the American Museum’s Central Asiatic Expeditions, an interest that he shared with his graduate students. The McKennas learned some Russian, and in 1964, visited Mongolia by way of the Soviet Union.

Following the death of Childs Frick in 1965, McKenna was named Frick Associate Curator and Chairman of the Frick Laboratory. In this capacity he was instrumental in making certain that the Frick collection of fossil mammals came to the AMNH. The American Museum–Columbia University paleontology program was a beneficiary of this incomparable gift as the vastly augmented collection of fossil vertebrates attracted many graduate students. In 1968 McKenna became Frick Curator at the American Museum and, four years later, Professor of Geology at Columbia.

Particular interests, among many, during the 1970s and 1980s included the study of



Fig. 1.2. Malcolm and students in the field ca. 1980.

Tertiary primates and insectivores, and the paleogeography of the North Atlantic. McKenna spent field seasons on Ellesmere and Axel Heiberg islands in the Canadian Arctic and on Greenland. He also carried out fieldwork in South America, both in Patagonia and the Chilean Andes, as well as continuing his work in western North America. Intrigued by the Grand Canyon, the McKennas ordered a couple of dories and spent several summers running the river with family, students, colleagues, and friends.

In 1990, 26 years after Malcolm's first visit to Mongolia, the Mongolian People's Republic invited representatives of the AMNH, including McKenna, to visit and to establish a cooperative program with the Mongolian Academy of Sciences. Since then, joint Mongolian-American expeditions have visited the Gobi annually, working sites discovered earlier by the Central Asiatic Expeditions and discovering many new highly productive localities as well. Malcolm, Priscilla, and a

number of graduate students have focused on the search for mid-Tertiary mammals.

After 35 years of "progress" reports and a decade of allusions to its imminent publication, the long-awaited *Classification of Mammals above the Species Level* was published in 1997 with myself as coauthor. The project continues online.

In January 2001 McKenna retired from the American Museum of Natural History but not from paleontology. His subsequent move to Boulder, Colorado, has placed him within a day's drive of many of his favorite fossil localities in northern Colorado and Wyoming. Students—former, present, and future—continue to be welcome at his summer digs. Recent travels have taken him to both northern and southern polar regions, where evidence of climatic change has heightened his longstanding concerns about the environment. McKenna's lengthy bibliography, which attests to his broad interests and productivity, continues to grow.

Malcolm McKenna was awarded the Romer-Simpson Medal by the Society of Vertebrate Paleontology in October 2001. In accepting the award he noted, "In my association with the Columbia Geology Department I've advised 25 [actually 34] PhDs and have been on a lot more advisory committees. That has been extremely rewarding for me, and I thank the victims for teaching me a lot."

PUBLICATIONS OF MALCOLM C. MCKENNA

- Asher, R.J., and M.C. McKenna. 1997. Relevance of Tertiary North American insectivorans to Caribbean biogeography. *Journal of Vertebrate Paleontology* 17(3, suppl.): 30A.
- Asher, R.J., M.C. McKenna, R.J. Emry, A.R. Tabrum, and D.G. Kron. 2002. Morphology and relationships of *Apternodus* and other extinct, zalambdodont, placental mammals. *Bulletin of the American Museum of Natural History* 273: 1–117.
- Atz, J.W., C.J. Cole, N. Eldredge, W.D. Emerson, E.S. Gaffney, B.N. Haugh, L.H. Herman, E. Kersteuer, M.C. McKenna, J.G. Maisey, C.W. Myers, G. Nelson, N.I. Platnick, F.H. Rindge, D.E. Rosen, J.G. Rozen, R.T. Schuh, C.L. Smith, I. Tattersall, R.H. Tedford, R. Wygodzinsky, and R.G. Zweifel. 1981. Majority verdict. *Nature* 290: 730.
- Berggren, W.A., M.C. McKenna, J. Hardenbol, and J.D. Obradovich. 1978. Revised Paleogene polarity time scale. *Journal of Geology* 86(1): 67–81.
- Black, C.C., J.T. Gregory, J.H. Hutchison, E. Lundelius, M.C. McKenna, J.M. Rensberger, D.E. Savage, W.D. Turnbull, and D.P. Whistler. 1973. Data conventions for specimen record files. *Society of Vertebrate Paleontology News Bulletin* 97: 61–69.
- Bleefeld, A.R., and M.C. McKenna. 1985. Skeletal integrity of *Mimolagus rodens* (Lagomorpha, Mammalia). *American Museum Novitates* 2806: 1–5.
- Bryant, J.D., and M.C. McKenna. 1995. Cranial anatomy and phylogenetic position of *Tsaganomys altaicus* (Mammalia: Rodentia) from the Hsanda Gol Formation (Oligocene), Mongolia. *American Museum Novitates* 3156: 1–42.
- Bryant, J.D., M.C. McKenna, P.N. Froelich, and B. Luz. 1992. Oxygen isotopic composition of fossil horse enamel phosphate as a continental paleoclimate indicator. *Journal of Vertebrate Paleontology* 12(3, suppl.): 20A.
- Charrier, R., A.R. Wyss, J.J. Flynn, C.C. Swisher III, M.A. Norell, F. Zapatta, M.C. McKenna, and M.J. Novacek. 1996. New evidence for late Mesozoic–early Cenozoic evolution of the Chilean Andes in the upper Tinguiririca Valley (35°S), central Chile. *Journal of South American Earth Sciences* 9(5/6): 393–422.
- Charrier, R., A.R. Wyss, M.A. Norell, J.J. Flynn, M.J. Novacek, M.C. McKenna, C.C. Swisher III, D. Frassinetti, and P. Salinas. 1990. Hallazgo de mamíferos fosiles del Terciario inferior en el sector de Termas del Flaco, Cordillera Principal, Chile Central: implicaciones paleontológicas, estratigráficas y tectónicas. Segundo Simposio sobre el Terciario de Chile, Concepción, Diciembre 1990: 73–84.
- Cifelli, R.L., C.R. Schaff, and M.C. McKenna. 1989. The relationships of the Arctostylopidae (Mammalia): new data and interpretation. *Bulletin of the Museum of Comparative Zoology* 152(1): 1–44.
- Clemens, W.A., and M.C. McKenna. 1971. Triconodonta. In *McGraw-Hill encyclopedia of science and technology*, 3rd ed., vol. 14: 97–98. New York: McGraw-Hill.
- Clemens, W., M.C. McKenna, D.E. Russell, R.E. Sloan, and L. Van Valen. 1964. Cimolestidae Marsh, 1889 (Mammalia): proposed suppression under the plenary powers. *Z.N.(S.)* 1630. *Bulletin of Zoological Nomenclature* 21(5): 363.
- Committee Advisory to the U.S. Geological Survey. 1987. *Geologic mapping in the U.S. Geological Survey*. Washington, DC: National Academy Press.
- Dashzeveg, D., and M.C. McKenna. 1975. Tarsioid primate from the latest Paleocene of Asia. *American Journal of Physical Anthropology* 42(2): 297.
- Dashzeveg, D., and M.C. McKenna. 1977. Tarsioid primate from the early Tertiary of the Mongolian People's Republic. *Acta Palaeontologica Polonica* 22(2): 119–137.

- Dashzeveg, D., and M.C. McKenna. 1991. *Euboromys*, a new name for the Eocene rodent *Boromys* Dashzeveg, 1990, not *Boromys* Miller, 1916. *Journal of Vertebrate Paleontology* 11(4): 527.
- Dashzeveg, D., M.J. Novacek, M.A. Norell, J.M. Clark, L.M. Chiappe, A. Davidson, M.C. McKenna, L. Dingus, C. Swisher, and P. Altangerel. 1995. Extraordinary preservation in a new vertebrate assemblage from the Late Cretaceous of Mongolia. *Nature* 374: 446–449.
- Davis, D.D. and M.C. McKenna. 1971. Insectivora. In McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 7: 164–165. New York: McGraw-Hill.
- Dawson, M.R., M.C. McKenna, K.C. Beard, and J.H. Hutchison. 1993. An early Eocene plagiomenid mammal from Ellesmere and Axel Heiberg islands, Arctic Canada. *Kaupia* 3: 179–192.
- Dene, H., M. Goodman, M.C. McKenna, and A.E. Romero-Herrera. 1982. *Ochotona princeps* (pika) myoglobin: an appraisal of lagomorph phylogeny. *Proceedings of the National Academy of Sciences of the USA* 79: 1917–1920.
- Dingus, L., R. Tedford, E. Gaffney, M. McKenna, M. Novacek, and E. Delson. 1994. Mammals and their extinct relatives: a guide to the Lila Acheson Wallace Wing. New York: American Museum of Natural History.
- Domning, D.P., C.E. Ray, and M.C. McKenna. 1986. Two new Oligocene desmostylians and a discussion of tethytherian systematics. *Smithsonian Contributions to Paleobiology* 59: i–iii, 1–56.
- Domning, D.P., C.E. Ray, and M.C. McKenna. 1991. A new specimen of *Behemotops proteus* (Mammalia: Desmostylia) from the Oligocene of Washington. *Journal of Vertebrate Paleontology* 11(3, suppl.): 26A.
- Eberle, J.J., and M.C. McKenna. 2002. Early Eocene Leptictida, Pantolestia, Creodonta, Carnivora, and Mesonychidae (Mammalia) from the Eureka Sound Group, Ellesmere Island, Nunavut. *Canadian Journal of Earth Sciences* 39(6): 899–910.
- Flynn, J.J., B.J. MacFadden, and M.C. McKenna. 1984. Land-mammal ages, faunal heterochrony, and temporal resolution in Cenozoic terrestrial sequences. *Journal of Geology* 92(6): 687–705.
- Flynn, J.J., M.J. Novacek, H.E. Dodson, D. Frassinetti, M.C. McKenna, M.A. Norell, K.E. Sears, C.C. Swisher III, and A.R. Wyss. 2002. A new fossil mammal assemblage from the southern Chilean Andes: implications for geology, geochronology, and tectonics. *Journal of South American Earth Sciences* 15(3): 285–302.
- Gaffney, E.A., and M.C. McKenna. 1979. A Late Permian captorhinid from Rhodesia. *American Museum Novitates* 2688: 1–15.
- Gingerich, P.D., and M.C. McKenna. 1980. Mammalian paleontology in China. *Society of Vertebrate Paleontology News Bulletin* 118: 42–44.
- Gutmann, J.T., P.D. Pushkar, and M.C. McKenna. 1989. Late Cretaceous and Tertiary history and the dynamic crushing of cobbles, Black Butte area, southwestern Montana. *Engineering Geology* 27: 413–431.
- Gutmann, J.T., P.D. Pushkar, and M.C. McKenna. 1990. Late Cretaceous and Tertiary history and the dynamic crushing of cobbles, Black Butte area, southwestern Montana. In A.M. Johnson, C.W. Burnham, C.R. Allen, and W. Muehlberger (editors), *Richard H. Jahns memorial volume*: 413–431. Amsterdam: Elsevier. [Reprint of Gutmann, Pushkar, and McKenna, 1989]
- Jenkins, F.A., Jr., E.L. Simons, M.C. McKenna, and P.D. Gingerich. 1985. Princeton's intellectual trust. *Science* 229: 330.
- Kellner, A.W.A., and M.C. McKenna. 1996. A leptictid mammal from the Hsanda Gol Formation (Oligocene), Central Mongolia, with comments on some Palaeoryctidae. *American Museum Novitates* 3168: 1–13.
- Kent, D.V., M.C. McKenna, N.D. Opdyke, J.J. Flynn, and B.J. MacFadden. 1984. Arctic biostratigraphic heterochrony. *Science* 224: 173–174.
- Krishtalka, L., R.M. West, C.C. Black, M.R. Dawson, J.J. Flynn, W.D. Turnbull, R.K. Stucky, M.C. McKenna, T.M. Bown, D.J. Golz, and J.A. Lillegraven. 1987. Eocene (Wasatchian through Duchesnean) biochronology of North America. In M.O. Woodburne (editor), *Cenozoic mammals of North America*: 77–117. Berkeley: University California Press.
- Lampietti, P.K., L.F. Marcus, S.K. Bell, and

- M.C. McKeena. 1984. A data base management system for mammal classification. Abstracts, American Society of Mammalogists, 64th Annual Meeting, 24–28 June 1984, Humboldt State University, Arcata, California: 66.
- Lillegraven, J.A., and M.C. McKenna. 1986. Fossil mammals from the “Mesaverde” Formation (Late Cretaceous, Judithian) of the Bighorn and Wind River Basins, Wyoming, with definitions of Late Cretaceous North American Land-Mammal “Ages”. *American Museum Novitates* 2840: 1–68.
- Lillegraven, J.A., M.C. McKenna, and L. Krishtalka. 1981. Evolutionary relationships of middle Eocene and younger species of *Centetodon* (Mammalia, Insectivora, Geolabididae) with a description of the dentition of *Ankyloodon* (Adapisoricidae). University of Wyoming Publications 45: i–vii, 1–115.
- Lofgren, D.L., and M.C. McKenna. 2002. The Goler Formation of California. In R.E. Reynolds (editor), *Between the basins: exploring the western Mojave and southern Basin and Range Province*: 66–68. Riverside: California State University, Desert Studies Consortium, in association with LSA Associates, Inc.
- Lofgren, D.L., M. McKenna, H. Hutchison, R. Nydam, and J. Honey. 2002. New records of Paleocene vertebrates from the Goler Formation of California. *Journal of Vertebrate Paleontology* 22(3, suppl.): 80A.
- Lofgren, D.L., M.C. McKenna, and S.L. Walsh. 1999. New records of Torrejonian–Tiffanian mammals from the Paleocene–Eocene Goler Formation, California. *Journal of Vertebrate Paleontology* 19(3, suppl.): 60A.
- Lofgren, D., M. McKenna, and S. Walsh. 2002. Vertebrate paleontology of the Goler Formation, El Paso Mountains, California (Field Guide for WAVP 2002). Claremont, CA: Raymond Alf Museum of Paleontology, 15 pp.
- Love, J.D., M.C. McKenna, and M.R. Dawson. 1976. Eocene, Oligocene, and Miocene rocks and vertebrate fossils at the Emerald Lake locality, 3 miles south of Yellowstone National Park, Wyoming. U.S. Geological Survey Professional Paper 932-A: i–iv, 1–28.
- Marincovich, L., Jr., E.M. Brouwers, D.M. Hopkins, and M.C. McKenna. 1990. Late Mesozoic and Cenozoic paleogeographic and paleoclimatic history of the Arctic Ocean Basin, based on shallow-water marine faunas and terrestrial vertebrates. In A. Grantz, L. Johnson, and J.F. Sweeney (editors), *The geology of North America*, vol. L, *The Arctic Ocean Region*: 403–426. Boulder, CO: Geological Society of America.
- McCarthy, James J., and Malcolm C. McKenna. 2000. How Earth’s ice is changing. *Environment* 42(10): 8–18.
- McKenna, M.C. 1954a. Gray Bull Mammals from the Knight Formation in Moffat County, Colorado. *Journal of Mammalogy* 35(4): 581.
- McKenna, M.C. 1954b. Earliest Wasatchian vertebrates from the Hiawatha Member of the Knight Formation, Moffat County, Colorado. *Bulletin of the Geological Society of America* 65(12), pt. 2: 1283.
- McKenna, M.C. 1955a. Paleocene mammal, Goler Formation, Mojave Desert, California. *Bulletin of the American Association of Petroleum Geologists* 39(4): 512–515.
- McKenna, M.C. 1955b. A new species of mylagaulid from the Chalk Cliffs local fauna, Montana. *Journal of the Washington Academy of Sciences* 45(4): 107–110.
- McKenna, M.C. 1955c. Age of the Four Mile local fauna, northeast Sand Wash Basin, Colorado. In *Wyoming Geological Association, Guidebook, tenth annual field conference, Green River Basin*: 105–107. Casper: Wyo. Geol. Assoc.
- McKenna, M.C. 1955d. Earliest Eocene vertebrates from the Sand Wash Basin, northwest Colorado. In *Intermountain Association of Petroleum Geologists and Rocky Mountain Association of Geologists, Guidebook to the geology of northwest Colorado*: 41–42. Salt Lake City: Intermtn. Assoc. Petrol. Geol.
- McKenna, M.C. 1956. Survival of primitive notoungulates and condylarths into the Miocene of Colombia. *American Journal of Science* 254: 736–743.
- McKenna, M.C. 1958. Summary of the dissertation submitted in partial satisfaction

- of the requirements for the degree of Doctor of Philosophy: Fossil Mammalia from the early Wasatchian Four Mile fauna, Eocene of northwest Colorado. University of California Publ. Geol. Graduate Div., Northern Sect., 4 pp.
- McKenna, M.C. 1959. *Tapochoerus*, a Uintan dichobunid artiodactyl from the Sespe Formation of California. Bulletin, Southern California Academy of Sciences 58(3): 125–132.
- McKenna, M.C. 1960a. Fossil Mammalia from the early Wasatchian Four Mile fauna, Eocene of northwest Colorado. University of California Publications in Geological Sciences 37(1): 1–130.
- McKenna, M.C. 1960b. The Geolabidinae, a new subfamily of early Cenozoic erinaceoid insectivores. University of California Publications in Geological Sciences 37(2): 131–164.
- McKenna, M.C. 1960c. Condylarthra. In McGraw-Hill encyclopedia of science and technology, vol. 3: 394. New York: McGraw-Hill.
- McKenna, M.C. 1960d. Dermoptera fossils. In McGraw-Hill encyclopedia of science and technology, vol. 4: 68–69. New York: McGraw-Hill.
- McKenna, M.C. 1960e. Dinocerata. In McGraw-Hill encyclopedia of science and technology, vol. 4: 196–197. New York: McGraw-Hill.
- McKenna, M.C. 1960f. Insectivora fossils. In McGraw-Hill encyclopedia of science and technology, vol. 7: 143–144. New York: McGraw-Hill.
- McKenna, M.C. 1960g. Pantodonta. In McGraw-Hill encyclopedia of science and technology, vol. 9: 536–537. New York: McGraw-Hill.
- McKenna, M.C. 1960h. A continental Paleocene vertebrate fauna from California. American Museum Novitates 2024: 1–20.
- McKenna, M.C. 1960i. The shoulder girdle of the mammalian subclass Allotheria. Anatomical Record 138(3): 367.
- McKenna, M.C. 1961a. A note on the origin of rodents. American Museum Novitates 2037: 1–5.
- McKenna, M.C. 1961b. On the shoulder girdle of the mammalian subclass Allotheria. American Museum Novitates 2066: 1–27.
- McKenna, M.C. 1961c. Foreword. In M. Austin, The land of little rain: xi. Garden City: Doubleday.
- McKenna, M.C. 1962a. Collecting small fossils by washing and screening. Curator 5(3): 221–235.
- McKenna, M.C. 1962b. *Eupetaurus* and the living petauristine sciurids. American Museum Novitates 2104: 1–38.
- McKenna, M.C. 1962c. Studies of the natural history of the Mongolian People's Republic and adjacent areas, made by the American Museum of Natural History. Mongolia Society Newsletter 1(3): 31–35.
- McKenna, M.C. 1962d. Papers mainly on Mongolian natural history published by the American Museum of Natural History. Mongolia Society Newsletter 1(3): 36–45.
- McKenna, M.C. 1963a. (Review of) R. Moore, Evolution. Natural History 72(5): 9.
- McKenna, M.C. 1963b. The early Tertiary primates and their ancestors. Proceedings of the XVI International Congress of Zoology, Washington, DC 4: 69–74.
- McKenna, M.C. 1963c. New evidence against tupaoid affinities of the mammalian family Anagalidae. American Museum Novitates 2158: 1–16.
- McKenna, M.C. 1963d. Primitive Paleocene and Eocene Apatemyidae (Mammalia, Insectivora) and the primate-insectivore boundary. American Museum Novitates 2160: 1–39.
- McKenna, M.C. 1964a. Mining for fossils in Wyoming. Nature and Science 1(16): 10–11.
- McKenna, M.C. 1964b. The undersea history of America. Saturday Review 48(23): 54–57.
- McKenna, M.C. 1964c. *Zeuglodon*. In Encyclopedia Americana, 1 p.
- McKenna, M.C. 1965a. (Review of) C.C. Black, A review of the North American Tertiary Sciuridae. Quarterly Review of Biology 40(2): 191–192.
- McKenna, M.C. 1965b. Geologic map. In H.J. Cook, Runningwater Formation, middle Miocene of Nebraska. American Museum Novitates 2227: 3.
- McKenna, M.C. 1965c. Stratigraphic nomenclature of the Miocene Hemingford Group, Nebraska. American Museum Novitates 2228: 1–21.

- McKenna, M.C. 1965d. Collecting microvertebrate fossils by washing and screening. *In* B. Kummel and D. Raup (editors), *Handbook of paleontological techniques: 193–203*. San Francisco: W. H. Freeman and Co. [Abridgment of McKenna, 1962a]
- McKenna, M.C. 1966a. Paleontology and the origin of the Primates. *Folia Primatologica* 4(1): 1–25.
- McKenna, M.C. 1966b. Synopsis of Whittneyan and Arikareean camelid phylogeny. *American Museum Novitates* 2253: 1–11.
- McKenna, M.C. 1966c. Speculations on endemism in terrestrial West Coast Paleogene mammals. *Special Paper (Geological Society of America, Abstracts for 1965)* 87: 314–315.
- McKenna, M.C. 1966d. Pantodonta. *In* McGraw-Hill encyclopedia of science and technology, vol. 9: 536–537. New York: McGraw-Hill. [Revision of McKenna, 1960g]
- McKenna, M.C. 1967. Classification, range, and deployment of the prosimian Primates. *Colloques Internationaux du Centre National de la Recherche Scientifique* 163, *Problèmes Actuels de Paléontologie (Évolution des Vertébrés)*, Paris, 6–11 Juin 1966: 603–610.
- McKenna, M.C. 1968a. *Leptacodon*, an American Paleocene nyctithere (Mammalia, Insectivora). *American Museum Novitates* 2317: 1–12.
- McKenna, M.C. 1968b. Preliminary announcement of Arikareean mammals from high-level Tertiary sediments, Bighorn Mountains. *In* *Field conference guidebook for the high altitude and mountain basin deposits of Miocene age in Wyoming and Colorado, August 16–25, 1968*, 6 pp. Boulder: University of Colorado Museum.
- McKenna, M.C. 1968c. Origin and adaptive radiation of therian mammals. Preprinted abstracts of conference on comparative and evolutionary aspects of the vertebrate central nervous system, New York Academy of Sciences, December 2–4, 1968, New York, session 4, paper 2: 9–10.
- McKenna, M.C. 1969a. (Review of) E.T. Drake (editor), *Evolution and environment: a symposium presented on the occasion of the one hundredth anniversary of the foundation of Peabody Museum of Natural History at Yale University*, New Haven, Conn., 1966. *Science* 163: 662–663.
- McKenna, M.C. 1969b. The origin and early differentiation of therian mammals. *Annals of the New York Academy of Sciences* 167(1): 217–240.
- McKenna, M.C. 1971a. A route to late Cenozoic temperature history? *Science* 172: 503.
- McKenna, M.C. 1971b. Fossil mammals and the Eocene demise of the De Geer North Atlantic dispersal route. *Abstracts with Programs (Geological Society of America)* 3(7): 644.
- McKenna, M.C. 1971c. Condylarthra. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 3: 427–428. New York: McGraw-Hill.
- McKenna, M.C. 1971d. Dermoptera. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 4: 84–85. New York: McGraw-Hill.
- McKenna, M.C. 1971e. Dinocerata. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 4: 217–218. New York: McGraw-Hill.
- McKenna, M.C. 1971f. Docodonta. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 4: 289. New York: McGraw-Hill.
- McKenna, M.C. 1971g. Embrithopoda. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 4: 644. New York: McGraw-Hill.
- McKenna, M.C. 1971h. Macroscelidea. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 8: 14. New York: McGraw-Hill.
- McKenna, M.C. 1971i. Multituberculata. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 8: 736–737. New York: McGraw-Hill.
- McKenna, M.C. 1971j. Pantodonta. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 9: 606. New York: McGraw-Hill.
- McKenna, M.C. 1971k. Pantotheria. *In* McGraw-Hill encyclopedia of science and technology, 3rd ed., vol. 9: 607. New York: McGraw-Hill.
- McKenna, M.C. 1971l. Symmetrodonta. *In* McGraw-Hill encyclopedia of science and

- technology, 3rd ed., vol. 13: 378–379. New York: McGraw-Hill.
- McKenna, M.C. 1972a. (Review of) A.A. Dahlberg (editor), *Dental morphology and evolution: a symposium*, Englefield Green, England, September 1968. *Science* 176: 1115–1116.
- McKenna, M.C. 1972b. Vertebrate paleontology of the Togwotee Pass area, northwestern Wyoming. In R.M. West (coordinator), *Guidebook, Field conference on Tertiary biostratigraphy of southern and western Wyoming*, August 5–10, 1972: 80–101.
- McKenna, M.C. 1972c. Eocene final separation of the Eurasian and Greenland-North American landmasses. *International Geological Congress, 24th Session, Montreal, Canada, sect. 7, Paleontology*: 275–281.
- McKenna, M.C. 1972d. Possible biological consequences of plate tectonics. *BioScience* 22(9): 519–525.
- McKenna, M.C. 1972e. Was Europe connected directly to North America prior to the middle Eocene? In T. Dobzhansky, M.K. Hecht, and W.C. Steere (editors), *Evolutionary biology*, vol. 6: 179–189. New York: Appleton-Century-Crofts.
- McKenna, M.C. 1973a. Sweepstakes, filters, corridors, Noah's arks, and beached Viking funeral ships in palaeogeography. In D.H. Tarling and S.K. Runcorn (editors), *Implications of continental drift to the earth sciences*, vol. 1 (Proceedings, NATO Advanced Study Institute, April 1972, University of Newcastle upon Tyne): 295–308. London: Academic Press.
- McKenna, M.C. 1973b. Comment on: L.A. Frakes and E.M. Kemp, Palaeogene continental positions and evolution of climate. In D.H. Tarling and S.K. Runcorn (editors), *Implications of continental drift to the earth sciences*, vol. 1 (Proceedings, NATO Advanced Study Institute, April 1972, University of Newcastle upon Tyne): 559.
- McKenna, M.C. 1973c. (Review of) E.L. Simons, *Primate evolution: an introduction to man's place in nature*. *American Journal of Physical Anthropology* 39(3): 494–496.
- McKenna, M.C. 1973d. Sbor ostatkov melkikh pozvonochnykh posredstvom otmyvki i proseivaniya. In B. Kummel and D. Raup (editors), *Methodika paleontologicheskikh issledovaniy*: 170–178. Moscow: Izdatel'stvo "MIP". [Russian translation of McKenna, 1965f]
- McKenna, M.C. 1975a. Fossil mammals and early Eocene North Atlantic land continuity. *Annals of the Missouri Botanical Garden* 62(2): 335–353.
- McKenna, M.C. 1975b. Toward a phylogenetic classification of the Mammalia. In W.P. Luckett and F.S. Szalay (editors), *Phylogeny of the primates: a multidisciplinary approach (Proceedings of Wenner-Gren Symposium no. 61, Burg Wartenstein, Austria, July 6–14, 1974)*: 21–46. New York: Plenum.
- McKenna, M.C. 1976a. *Esthonyx* in the upper faunal assemblage, Huerfano Formation, Eocene of Colorado. *Journal of Paleontology* 50(2): 354–355.
- McKenna, M.C. 1976b. Comments on Radinsky's "Later mammal radiations". In R.B. Masterton, M.E. Bitterman, C.B.G. Campbell, and N. Hotton (editors), *Evolution of brain and behavior in vertebrates 1*: 245–250. Hillsdale, NJ: Lawrence Erlbaum Assoc.
- McKenna, M.C. 1977. Vertebrate fossils and the Antiquities Act of 1906. *Society of Vertebrate Paleontology News Bulletin* 110: 40–41.
- McKenna, M.C. 1978. Crepuscular Arctic Eocene mammals. Abstracts with Programs (Geological Society of America) 10(7): 453.
- McKenna, M.C. 1979. Molecular mammalogy. (Review of) M. Goodman and R.E. Tashian (editors), *Molecular anthropology: genes and proteins in the evolutionary ascent of the Primates*; and A.E. Romero-Herrera, H. Lehmann, K.A. Joysey, and A.E. Friday, *On the evolution of myoglobin*. *Systematic Zoology* 28(1): 109–113.
- McKenna, M.C. 1980a. Notes from a Patagonian journal. *Rotunda* 4(3): 5.
- McKenna, M.C. 1980b. Getting going again in 1947. *Alf Museum Journal* 1(2): 1–2.
- McKenna, M.C. 1980c. Mammals in the age of dinosaurs. (Review of) J.A. Lillegraven, Z. Kielan-Jaworowska, and W.A. Clemens (editors), *Mesozoic mammals*. *Science* 208: 718–719.

- McKenna, M.C. 1980d. Eocene paleolatitude, climate, and mammals of Ellesmere Island. *Palaeogeography, Palaeoclimatology, Palaeoecology* 30(3): 349–362.
- McKenna, M.C. 1980e. Remaining evidence of Oligocene rocks previously present across the Bighorn Basin, Wyoming. *In* P.D. Gingerich (editor), *Early Cenozoic paleontology and stratigraphy of the Bighorn Basin, Wyoming. Papers on Paleontology* 24: 143–146.
- McKenna, M.C. 1980f. Late Cretaceous and early Tertiary vertebrate paleontological reconnaissance, Togwotee Pass area, northwestern Wyoming. *In* L.L. Jacobs (editor), *Aspects of vertebrate history: essays in honor of Edwin Harris Colbert: 321–343*. Flagstaff: Museum of Northern Arizona Press.
- McKenna, M.C. 1980g. Early history and biogeography of South America's extinct land mammals. *In* R.L. Ciochon and A.B. Chiarelli (editors), *Evolutionary biology of the New World monkeys and continental drift: 43–77*. New York: Plenum.
- McKenna, M.C. 1981a. More museums. *Nature* 289: 626–627.
- McKenna, M.C. 1981b. Discussion [of: A. Hallam, Relative importance of plate movements, eustasy, and climate in controlling major biogeographic changes since the early Mesozoic]. *In* G. Nelson and D.E. Rosen (editors), *Vicariance biogeography, a critique: 335–338*. New York: Columbia University Press.
- McKenna, M.C. 1981c. Cenozoic terrestrial sediments and their vertebrate fossils in and around the North Atlantic. NATO Advanced Research Institute, Programme and Abstracts, Structure and development of the Greenland-Scotland Ridge—new methods and concepts, Bressanone, Italy, 11–15 May 1981: 23–24.
- McKenna, M.C. 1981d. Live issues: the classification of North American mammals. (Review of) E.R. Hall, *The mammals of North America*, 2nd ed., vols. 1–2. *Nature* 294: 597.
- McKenna, M.C. 1981e. (Review of) W.P. Luckett (editor), *Comparative biology and evolutionary relationships of tree shrews. International Journal of Primatology* 2(1): 97–101.
- McKenna, M.C. 1982a. Chinese puzzles. *Nature* 300: 212.
- McKenna, M.C. 1982b. More of dinosaur extinction, and more. (Review of) L.B. Halstead, *Hunting the past: fossils, rocks, tracks and trails—the search for the origin of life. Nature* 300: 560.
- McKenna, M.C. 1982c. Lagomorph interrelationships. *Geobios, Mémoire spécial* 6: 213–223.
- McKenna, M.C. 1983a. Cenozoic paleogeography of North Atlantic land bridges. *In* M.H.P. Bott, S. Saxov, M. Talwani, and J. Thiede (editors), *Structure and development of the Greenland-Scotland Ridge: 351–399*. New York: Plenum.
- McKenna, M.C. 1983b. Fossil mammals. (Review of) D.E. Savage and D.E. Russell, *Mammalian paleofaunas of the world. Science* 221: 1282.
- McKenna, M.C. “1983”[1984a]. Holarctic landmass rearrangement, cosmic events, and Cenozoic terrestrial organisms. *Annals of the Missouri Botanical Garden* 70(3): 459–489.
- McKenna, M.C. 1984b. Sweepstakes, filters, corridors, Noah's arks, and beached Viking funeral ships in palaeogeography. *In* R.M. Schoch (editor), *Vertebrate paleontology: 113–126*. New York: Van Nostrand Reinhold Company. [Facsimile reprint of McKenna, 1973a]
- McKenna, M.C. 1984c. Order in mammals. (Review of) S. Anderson and J.K. Jones, Jr. (editors), *Orders and families of Recent mammals of the world. Nature* 312: 675.
- McKenna, M.C. 1985. The great American terrestrial interchange and reorganized oceanic circulation in the latest Tertiary. *South African Journal of Science* 81(5): 258.
- McKenna, M.C. 1986a. Glirology. (Review of) W.P. Luckett and J.-L. Hartenberger (editors), *Evolutionary relationships among rodents: a multidisciplinary analysis. Science* 231: 166–167.
- McKenna, M.C. 1986b. (Review of) F.G. Stehli and S.D. Webb (editors), *The great American biotic interchange. American Scientist* 74: 315.
- McKenna, M.C. 1986c. Edentates. (Review of) G.G. Montgomery (editor), *The evolution and ecology of armadillos, sloths,*

- and vermilinguas. *Science* 233: 1102–1103.
- McKenna, M.C. 1986d. Mammalian phylogeny. Abstracts, Twentieth International Numerical Taxonomy Conference, State University of New York at Stony Brook, 24–26 October 1986, 1 page.
- McKenna, M.C. 1986e. Putting flesh onto the bones. (Review of) R.J.G. Savage and M.R. Long, *Mammal evolution: an illustrated guide*. *Nature* 324: 186.
- McKenna, M.C. 1987a. A new lineage of primate-like mammals from the Eocene of Wyoming. Abstracts with Programs (Geological Society of America) 19(5): 320–321.
- McKenna, M.C. 1987b. Molecular and morphological analysis of high-level mammalian interrelationships. *In* C. Patterson (editor), *Molecules and morphology in evolution: conflict or compromise?*: 55–93. Cambridge: Cambridge University Press.
- McKenna, M.C. 1988a. The vertebrates updated. (Review of) R.L. Carroll, *Vertebrate paleontology and evolution*. *Science* 239: 512–513.
- McKenna, M.C. 1988b. Stones, bones, names [letter to the editor]. *The New York Times*, February 6, 1988.
- McKenna, M.C. 1989. Marsupials right side up. (Review of) M. Archer (editor), *Possums and opossums: studies in evolution*. *Science* 244: 1096–1097.
- McKenna, M.C. 1990. Plagiomenids (Mammalia: ?Dermoptera) from the Oligocene of Oregon, Montana, and South Dakota, and middle Eocene of northwestern Wyoming. *In* T.M. Bown and K.D. Rose (editors), *Dawn of the age of mammals in the northern part of the Rocky Mountain interior, North America*. Special Paper (Geological Society of America) 243: 211–234.
- McKenna, M.C. 1992. The alpha crystallin A chain of the eye lens and mammalian phylogeny. *Annales Zoologici Fennici* 28: 349–360.
- McKenna, M.C. 1993a. The horse tree. (Review of) B.J. MacFadden, *Fossil horses: systematics, paleobiology, and evolution of the family Equidae*. *Science* 260: 1156–1157.
- McKenna, M.C. 1993b. Response by Malcolm C. McKenna for the award of The Paleontological Society Medal, October 27, 1992. *Journal of Paleontology* 67(4): 689–690.
- McKenna, M.C. 1994. Early relatives of Flopsy, Mopsy, and Cottontail. *Natural History* 103(4): 56–58.
- McKenna, M.C. 1995a. The mobile Indian raft: a reply to Rage and Jaeger. *Systematic Biology* 44(2): 265–271.
- McKenna, M.C. 1995b. Biostratigraphy of the type Hsanda Gol Formation, Oligocene of Mongolia. *Journal of Vertebrate Paleontology* 15(3, suppl.): 42A.
- McKenna, M.C. 1996a. Holarctic landmass rearrangement, cosmic events, and Cenozoic terrestrial organisms. *In* M. Chang (editor), *Collection of translated papers on vicariance: 136–173*. Beijing: Encyclopedia Press. [Chinese translation of McKenna, 1984a]
- McKenna, M.C. 1996b. The multituberculate alloclavicle is not homologous with the interclavicle of monotremes. *Journal of Vertebrate Paleontology* 16(3, suppl.): 52A.
- McKenna, M.C. 1997. Trunk lines. (Review of) J. Shoshani and P. Tassy (editors), *The Proboscidea: evolution and palaeoecology of elephants and their relatives*. *Science* 276: 46–47.
- McKenna, M.C. 1998. Semi-isolation of the Arctic Ocean in the late Thanetian to earliest Ypresian time. Abstracts with Programs (Geological Society of America) 30(7): 118.
- McKenna, M.C. 2000. Unwilling workers aid in fossil finds. *The Fossil Times*, Spring 2000: 1, 3.
- McKenna, M.C. 2001. Sentimental journeys. (Review of) S. Winchester, *The map that changed the world: William Smith and the birth of modern geology*. *New York Times Book Review*, Sunday, August 5, 2001: 14.
- McKenna, M.C. 2002. [Remarks on receiving] Romer-Simpson Medal. *Society of Vertebrate Paleontology News Bulletin* 182: 41–43.
- McKenna, M.C. 2003. Collecting small vertebrates in the terrestrial Cretaceous of Wyoming and Mongolia. *In* D.E. Brown (editor), *The Mesozoic in Wyoming: 70–*

75. Casper, Wyoming: Tate 2002, Tate Geological Museum, Casper College.
- McKenna, M.C., R. Asher, R. Emry, A. Tabrum, and D. Kron. 2002. The search for extinct relatives of modern mammals: the case of soricids and *Apternodus*. *Journal of Vertebrate Paleontology* 22(3, suppl.): 86A.
- McKenna, M.C., and S.K. Bell. 1997a. Classification of mammals. *Journal of Vertebrate Paleontology* 17(3, suppl.): 64A.
- McKenna, M.C., and S.K. Bell. 1997b. Classification of mammals above the species level. New York: Columbia University Press.
- McKenna, M.C., A.R. Bleefeld, and J.S. Mellett. 1994. Microvertebrate collecting: large-scale wet sieving for fossil microvertebrates in the field. In P. Leiggi and P. May (editors), *Vertebrate paleontological techniques*, vol. 1: 93–111. Cambridge: Cambridge University Press.
- McKenna, M.C., and M. Chow. 2001. New phenacodont-like mammal, late Paleocene of China. *Journal of Vertebrate Paleontology* 21(3, suppl.): 79A–80A.
- McKenna, M.C., M. Chow, S. Ting, and Z. Luo. 1989. *Radinskya yupingae*, a perisodactyl-like mammal from the late Paleocene of China. In D.R. Prothero and R.M. Schoch (editors), *The evolution of perisodactyls*: 24–36. New York: Oxford University Press.
- McKenna, M.C., G.F. Engelmann, and S.F. Barghoorn. 1977. (Review of) P.D. Gingerich, Cranial anatomy and evolution of early Tertiary Plesiadapidae (Mammalia, Primates). *Systematic Zoology* 26(2): 233–238.
- McKenna, M.C., and J.J. Flynn. 1989. Kemmerer, Wyoming to Thermopolis, Wyoming. In J.J. Flynn (editor), *Mesozoic/Cenozoic vertebrate paleontology: classic localities, contemporary approaches* (28th International Geological Congress Field Trip Guidebook T322): 29–33. Washington, DC: American Geophysical Union.
- McKenna, M.C., and F. Haase. 1992. *Marsholestes*, a new name for the Eocene insectivoran *Myolestes* Matthew, 1909, not *Myolestes* Brèthes, 1904. *Journal of Vertebrate Paleontology* 12(2): 256.
- McKenna, M.C., and C.P. Holton. 1967. A new insectivore from the Oligocene of Mongolia and a new subfamily of hedgehogs. *American Museum Novitates* 2311: 1–11.
- McKenna, M.C., J.A. Hopson, and H.-P. Schultze. 1981. Vertebrate paleontology. *Geotimes* 26(2): 56–57.
- McKenna, M.C., J.H. Hutchison, and J.H. Hartman. 1987. Paleocene vertebrates and nonmarine Mollusca from the Goler Formation, California. In B.F. Cox (editor), *Basin analysis and paleontology of the Paleocene and Eocene Goler Formation, El Paso Mountains, California*: 31–41. Los Angeles: Pacific Section, Society of Economic Paleontologists and Mineralogists.
- McKenna, M.C., Z. Kielan-Jaworowska, and J. Meng. 2000. Earliest eutherian mammal skull, from the Late Cretaceous (Coniacian) of Uzbekistan. *Acta Palaeontologica Polonica* 54(1): 1–54.
- McKenna, M.C., and D.L. Lofgren. 2003. *Mimotricentes tedfordi*, a new arctocyonid from the late Paleocene of California. In L.J. Flynn (editor), *Vertebrate fossils and their context: contributions in honor of Richard H. Tedford*. *Bulletin of the American Museum of Natural History* 279: 632–643.
- McKenna, M.C., and J.D. Love. 1970. Local stratigraphic and tectonic significance of *Leptoceratops*, a Cretaceous dinosaur in the Pinyon Conglomerate, northwestern Wyoming. U.S. Geological Survey Professional Paper 700-D: D55–D61.
- McKenna, M.C., and J.D. Love. 1972. High-level strata containing early Miocene mammals on the Bighorn Mountains, Wyoming. *American Museum Novitates* 2490: 1–31.
- McKenna, M.C., and E. Manning. 1977. Affinities and palaeobiogeographic significance of the Mongolian Paleogene genus *Phenacolophus*. *Géobios, Mémoire spécial* 1: 61–85.
- McKenna, M.C., J.S. Mellett, and F.S. Szalay. 1971. Relationships of the Cretaceous mammal *Deltatheridium*. *Journal of Paleontology* 45(3): 441–442.
- McKenna, M.C., and J. Meng. 2001. A primitive relative of rodents from the Chinese Paleocene. *Journal of Vertebrate Paleontology* 21(3): 565–572.

- McKenna, M.C., P. Robinson, and D.W. Taylor. 1962. Notes on Eocene Mammalia and Mollusca from Tabernacle Butte, Wyoming. *American Museum Novitates* 2102: 1–33.
- McKenna, M.C., D.E. Russell, and D.E. Savage. 1969. *Protomomys* Teilhard de Chardin, 1927 (Mammalia): proposed suppression under the plenary powers. *Z.N.(S.)* 1847. *Bulletin of Zoological Nomenclature* 25(4/5): 165.
- McKenna, M.C., D.E. Russell, R.M. West, C.C. Black, W.D. Turnbull, M.R. Dawson, and J.A. Lillegraven. 1973. K/Ar recalibration of Eocene North American Land-Mammal “Ages” and European ages. Abstracts with Programs (Geological Society of America) 5(7): 733.
- McKenna, M.C., and H.-P. Schultze. 1982. Vertebrate paleontology. *Geotimes* 27(2): 56–57.
- McKenna, M.C., and G.G. Simpson. 1959. A new insectivore from the middle Eocene of Tabernacle Butte, Wyoming. *American Museum Novitates* 1952: 1–12.
- McKenna, M.C., and R.A. Stirton. 1960. Primates (fossil). In *McGraw-Hill encyclopedia of science and technology*, vol. 10: 589–590. New York: McGraw-Hill.
- McKenna, M.C., and R.A. Stirton. 1971. Primates (Fossils). In *McGraw-Hill encyclopedia of science and technology*, 3rd ed., vol. 10: 679. New York: McGraw-Hill.
- McKenna, M.C., Xue X., and Zhou M. 1984. *Prosarcodon lonanensis*, a new Paleocene micropternodontid palaeoryctoid insectivore from Asia. *American Museum Novitates* 2780: 1–17.
- Meng, J., and M.C. McKenna. 1996. The Mongolian remodeling in the global frame—Paleogene faunal turnovers and biostratigraphy. *Journal of Vertebrate Paleontology* 16(3, suppl.): 52A–53A.
- Meng, J., and M.C. McKenna. 1998a. Faunal turnovers of Palaeogene mammals from the Mongolian Plateau. *Nature* 394: 364–367.
- Meng, J., and M.C. McKenna. 1998b. Paleocene–Eocene boundary and evolution of gliriform mammals of Mongolia. *Journal of Vertebrate Paleontology* 18(3, suppl.): 63A.
- Meng, J., C.-k. Li, D. Dashzeveg, and M.C. McKenna. 1999. Basal gliriform mammals: morphology and phylogeny. *Journal of Vertebrate Paleontology* 19(3, suppl.): 63A.
- Nicholson, T.D., B. Schaeffer, T. Galusha, M.C. McKenna, M.F. Skinner, B.E. Taylor, and R.H. Tedford. 1975. The fossil mammal collections of the American Museum of Natural History. *Curator* 18(1): 16–38.
- Norell, M.A., J.M. Clark, D. Dashzeveg, R. Barsbold, L.M. Chiappe, A.R. Davidson, M.C. McKenna, A. Perle, and M.J. Novacek. 1994. A theropod dinosaur embryo and the affinities of the Flaming Cliffs dinosaur eggs. *Science* 266: 779–782.
- Norell, M.A., M.C. McKenna, and M.J. Novacek. 1992. *Estesia mongoliensis*, a new fossil varanoid from the Cretaceous Barun Goyot Formation of Mongolia. *American Museum Novitates* 3045: 1–24.
- Novacek, M.J., D. Dashzeveg, and M.C. McKenna. 1994. Late Cretaceous mammals from Ukhaa Tolgod, Mongolia. *Journal of Vertebrate Paleontology* 14(3, suppl.): 40A.
- Novacek, M.J., and M.C. McKenna. 1991. Evolving data sets and evolving mammals. *Journal of Vertebrate Paleontology* 11(3, suppl.): 48A.
- Novacek, M.J., M.C. McKenna, N.A. Neff, and R.L. Cifelli. 1983. Evidence from earliest known erinaceomorph basicranium that insectivorans and primates are not closely related. *Nature* 306: 683–684.
- Novacek, M.J., M. Norell, M.C. McKenna, and J. Clark. 1994. Fossils of the Flaming Cliffs. *Scientific American* 271(6): 60–63, 66–69.
- Novacek, M.J., G.W. Rougier, D. Dashzeveg, and M.C. McKenna. 2000. New eutherian mammal from the Late Cretaceous of Mongolia and its bearing on the origins of the modern placental radiation. *Journal of Vertebrate Paleontology* 20(3, suppl.): 61A.
- Novacek, M.J., G.W. Rougier, J.R. Wible, M.C. McKenna, D. Dashzeveg, and I. Horovitz. 1997. Epipubic bones in eutherian mammals from the Late Cretaceous of Mongolia. *Nature* 389: 483–486.
- Novacek, M.J., A.R. Wyss, and M.C. McKenna. 1987. The major groups of eutherian mammals. Programme, International

- Symposium, The Phylogeny and Classification of the Tetrapods, 2 pp. London: The Linnean Society.
- Novacek, M.J., A.R. Wyss, and M.C. McKenna. 1988. The major groups of eutherian mammals. In M.J. Benton (editor), The phylogeny and classification of the tetrapods, vol. 2: Mammals (Systematics Association Special Volume 35B): 31–71. Oxford: Clarendon Press.
- Ray, C.E., D.P. Domning, and M.C. McKenna. 1994. A new specimen of *Behemotops proteus* (order Desmostylia) from the marine Oligocene of Washington. In A. Berta and T.A. Deméré (editors), Contributions in marine mammal paleontology honoring Frank C. Whitmore, Jr. Proceedings of the San Diego Society of Natural History 29: 205–222.
- Rougier, G.W., M.J. Novacek, M.C. McKenna, and J.R. Wible. 2001. Gobiconodonts from the Early Cretaceous of Oshih (Ashile), Mongolia. American Museum Novitates 3348: 1–30.
- Rougier, G.W., J.R. Wible, M.J. Novacek, M.C. McKenna, and D. Dashzeveg. 1995. A mammalian petrosal from the Early Cretaceous of Mongolia: mammalian relationships from the ear region characters. Journal of Vertebrate Paleontology 15(3, suppl.): 50A.
- Russell, D.E., and M.C. McKenna. 1961a. Étude de *Paroxyclaenus*, Mammifère des phosphorites du Quercy. Compte Rendu Sommaire des Séances de la Société Géologique de France 5: 131.
- Russell, D.E., and M.C. McKenna. 1961b. Étude de *Paroxyclaenus*, Mammifère des phosphorites du Quercy. Bulletin de la Société Géologique de France, 7th sér., 3: 274–288.
- Savage, D.E., and M.C. McKenna. 1974. Symposium: vertebrate paleontology as a discipline in geochronology: I, II, III. Geology 2(2): 83–84.
- Schaeffer, B., and M.C. McKenna. 1985. George Gaylord Simpson 1902–1984. Society of Vertebrate Paleontology News Bulletin 133: 62–63.
- Sereno, P.C., and M.C. McKenna. 1990. The multituberculate clavicle and interclavicle and the early evolution of the mammalian pectoral girdle. Journal of Vertebrate Paleontology 10(3, suppl.): 42A.
- Sereno, P.C., and M.C. McKenna. 1995. Cretaceous multituberculate skeleton and the early evolution of the mammalian shoulder girdle. Nature 377: 144–147.
- Sereno, P.C., and M.C. McKenna. 1996. Multituberculate phylogeny: reply [to letter to Nature from G.W. Rougier, J.R. Wible and M.J. Novacek]. Nature 379: 406–407.
- Shoshani, J., and M.C. McKenna. 1991. *Hemimastodon crepusculi*: is it a proboscidean, an artiodactyl, or Ungulata incertae sedis? Journal of Vertebrate Paleontology 11(3, suppl.): 55A.
- Shoshani, J., and M.C. McKenna. 1995. Mammalian evolution vis-a-vis Asian biogeography. Journal of Vertebrate Paleontology 15(3, suppl.): 53A.
- Shoshani, J., and M.C. McKenna. 1998. Higher taxonomic relationships among extant mammals based on morphology, with selected comparisons of results from molecular data. Molecular Phylogenetics and Evolution 9(3): 572–584.
- Shoshani, J., M.C. McKenna, and S.K. Bell. 1996. *Morrillia*, subgenus or genus? Journal of Vertebrate Paleontology 16(3, suppl.): 65A.
- Shoshani, J., M.C. McKenna, K.D. Rose, and R.J. Emry. 1997. *Eurotamandua* is a pholidotan not a xenarthran. Journal of Vertebrate Paleontology 17(3, suppl.): 76A.
- Stucker, G.F., M.J. Galusha, and M.C. McKenna. 1965. Removing matrix from fossils by miniature sandblasting. In B. Kummel and D. Raup (editors), Handbook of paleontological techniques: 273–275. San Francisco: W. H. Freeman.
- Stucker, G.F., M.J. Galusha, and M.C. McKenna. 1973. Preparirovanie malkikh okamenelostej pri pomoshchi miniatyurnogo vozdušno-abrazivnogo apparata. In B. Kummel and D. Raup (editors), Metodika paleontologicheskikh issledovaniy: 241–242. Moscow: Izdatel'stvo "MIP". [Russian translation of Stucker, Galusha, and McKenna, 1965]
- Stucky, R.K., and M.C. McKenna. 1993. Mammalia. In M.J. Benton (editor), The fossil record 2: 739–771. London: Chapman & Hall.

- Szalay, F.S., and M.C. McKenna. 1971. Beginning of the age of mammals in Asia: the late Paleocene Gashato fauna, Mongolia. *Bulletin of the American Museum of Natural History* 144(4): 269–317.
- Szalay, F.S., M.J. Novacek, and M.C. McKenna (editors). 1993a. Mammal phylogeny: Mesozoic differentiation, multituberculates, monotremes, early therians, and marsupials. New York: Springer-Verlag.
- Szalay, F.S., M.J. Novacek, and M.C. McKenna (editors). 1993b. Mammal phylogeny: placentals. New York: Springer-Verlag.
- Thewissen, J.G.M., and M.C. McKenna. 1992. Paleobiogeography of Indo-Pakistan: a response to Briggs, Patterson, and Owen. *Systematic Biology* 41(2): 248–251.
- Ting, S., G. Bowen, P. Koch, W. Clyde, Y. Wang, Y. Wang, and M. McKenna. 2002. First temporally constrained Asian Paleocene/Eocene boundary record. *Journal of Vertebrate Paleontology* 22(3, suppl.): 114A.
- Ting, S., G.J. Bowen, P.L. Koch, W.C. Clyde, Y. Wang, Y. Wang and M.C. McKenna, 2003. In S.L. Wing, P.D. Gingerich, B. Schmitz, and E. Thomas (editors), Causes and consequences of globally warm climates in the early Paleogene. Special Paper (Geological Society of America) 369: 521–535.
- Ting, S., J. Meng, M.C. McKenna, and C. Li. 2002. The osteology of *Matutinia* (Simplicidentata, Mammalia) and its relationship to *Rhombomylus*. *American Museum Novitates* 3371: 1–33.
- Van Valen, L., P.M. Butler, M.C. McKenna, F.S. Szalay, B. Patterson, and A.S. Romer. 1967. *Galeopithecus* Pallas, 1783 (Mammalia): proposed validation under plenary powers. *Z.N.(S.) 1792. Bulletin of Zoological Nomenclature* 24(3): 190–191.
- Wang, X., and M.C. McKenna. 1999. New materials of *Amphicticeps* (Carnivora, Musteloidea) from Mongolia, and basal arctoid relationships. *Journal of Vertebrate Paleontology* 19(3, suppl.): 83A.
- Wible, J.R., G.W. Rougier, and M.C. McKenna. 1998. New data on skull structure in the Mongolian Late Cretaceous eutherian mammal *Zalambdalestes*. *Journal of Vertebrate Paleontology* 18(3, suppl.): 86A.
- Wible, J.R., G.W. Rougier, M.C. McKenna, and M.J. Novacek. 1997. Earliest eutherian ear region: a petrosal of *?Prokennalestes* from the Early Cretaceous of Khoobur, Mongolia. *Journal of Vertebrate Paleontology* 17(3, suppl.): 84A.
- Wible, J.R., G.W. Rougier, M.J. Novacek, and M.C. McKenna. 2001. Earliest eutherian ear region: a petrosal referred to *Prokennalestes* from the Early Cretaceous of Mongolia. *American Museum Novitates* 3322: 1–44.
- Wible, J.R., G.W. Rougier, M.J. Novacek, M.C. McKenna, and D. Dashzeveg. 1995. A mammalian petrosal from the Early Cretaceous of Mongolia: implications for the evolution of the ear region and mammalian interrelationships. *American Museum Novitates* 3149: 1–19.
- Wood, C.B., M.C. McKenna, and D. Bosko. 2000. An old specimen of a new undescribed late Paleocene *Apternodus*-like insectivore. *Journal of Vertebrate Paleontology* 20(3, suppl.): 80A.
- Wyss, A.R., J.J. Flynn, M.A. Norell, C.C. Swisher III, R. Charrier, M.J. Novacek, and M.C. McKenna. 1993. South America's earliest rodent and recognition of a new interval of mammalian evolution. *Nature* 365: 434–437.
- Wyss, A.R., J.J. Flynn, M.A. Norell, C.C. Swisher III, M.J. Novacek, M.C. McKenna, and R. Charrier. 1994. Paleogene mammals from the Andes of central Chile: a preliminary taxonomic, biostratigraphic, and geochronologic assesment. *American Museum Novitates* 3098: 1–31.
- Wyss, A.R., M.A. Norell, J.J. Flynn, M.J. Novacek, R. Charrier, M.C. McKenna, C.C. Swisher III, D. Frassinetti, P. Salinas, and J. Meng. 1990. A new early Tertiary mammal fauna from central Chile: implications for Andean stratigraphy and tectonics. *Journal of Vertebrate Paleontology* 10(4): 518–522.
- Wyss, A.R., M.J. Novacek, and M.C. McKenna. 1987. Amino acid sequence versus morphological data and the interordinal relationships of mammals. *Molecular Biology and Evolution* 4(2): 99–116.