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## **EDUCATION**

**University of Michigan**, Ph.D., Geology, 1997  
**University of Michigan**, M.S., Geology, 1993  
**Princeton University**, A.B., Geology, Magna Cum Laude, 1990

## **PROFESSIONAL EXPERIENCE**

**Chair**, Dept of Earth Sciences, Univ. of New Hampshire (2007-Present)  
**Associate Professor**, Dept. of Earth Sciences, Univ. of New Hampshire (2004-Present)  
**Assistant Professor**, Dept. of Earth Sciences, Univ. of New Hampshire (1998-2004)  
**Research Assistant**, Museum of Paleontology, Univ. of Michigan (1991-1997)  
**Teaching Assistant**, Dept. of Geological Sciences, Univ. of Michigan (1994-1996)

## **GRANTS AND AWARDS**

*NSF EAR 0841586*: “Upgrade of University of New Hampshire Paleomagnetism Laboratory” (PI; 2009-2010)  
*UNH Parent’s Association Discretionary Grant*: Restoration of the Historic Hitchcock Map (Co-PI; 2008-2009)  
*NSF EAR0707415*: “The Bighorn Basin Coring Project (BBCP) Phase I: Workshop” (PI; 2007-2008)  
*NSF EAR0642291*: “Collaborative Research: High-Resolution Calibration of the Maastrichtian to Paleocene of the Western U.S.: Integration of Geochronology, Magnetostratigraphy and Paleontology” (PI; 2007-2008)  
*NSF EAR0540835*: “SGER: A geochronological and paleoenvironmental framework for the Nanxiong Basin, Guangdong Province, South China” (PI; 2006-2007)  
*UNH Faculty Scholar* (2005-2006)  
*National Geographic Research Grant #7329-02*: “Placing temporal constraints on the Paleocene/Eocene Boundary, Chijiang Basin, China” (Co-PI; 2002-2004)  
*University of New Hampshire Outstanding Assistant Professor* (2002)  
*NSF EAR0001379*: “Collaborative Research: An integrated high resolution study of the effects of shifting climate on late Paleocene-early Eocene continental ecosystems” (PI; 2001-2004)  
*National Geographic Research Grant 6985-01*: “Early Oligocene cetaceans of southeastern Alaska” (Co-PI; 2001-2002)  
*NSF EAR0086672*: “Acquisition of paleomagnetic equipment for the Department of Earth Sciences, University of New Hampshire” (PI; 2001-2003)  
*NSF EAR9902905*: “Geochronology and mammalian paleobiogeography of the Ghazij Formation, Pakistan: Implications for the Indian-Asian collision and the Paleocene-Eocene boundary” (PI; 1999-2002)  
*National Geographic Research Grant 6528-99*: “Biostratigraphic, chemostratigraphic, and magnetostratigraphic study across the Paleocene/Eocene boundary in Hengyang Basin, China” (Co-PI; 1999-2001)  
*UNH Vice President for Research Discretionary Fund Grant* (1998)  
*John R. Dorr Award*, outstanding graduate student in the Dept. of Geological Sciences, University of Michigan (1996)

*Society of Vertebrate Paleontology Fellowship* (Honorary Mention, 1996)  
*Geological Society of America Research Grant* (1994)  
*Sigma Xi Grant-in-Aid of Research* (1994)  
*Scott Turner Award in Earth Sciences*, University of Michigan (1992, 1994)  
*Wyoming Geological Association J. David Love Fellowship* (1993)

## **PROFESSIONAL ACTIVITIES**

### **Classes Taught**

ESCI 400 - Freshman Seminar, ESCI 402 - Earth History, ESCI 652 - Paleontology, ESCI 7/854 - Sedimentary Rocks and Stratigraphy, ESCI 7/896 - Tectonics and Sedimentation, ESCI 895 - Topics in Earth Sciences (includes seminars on Evolutionary Rates, Phylogenetic Analysis, Advanced Historical Geology, Statistical Methods in Earth Sciences, Paleomagnetism, Advanced Paleobiology), ESCI 997 - Graduate Seminar

### **University Service**

Chair, Dept. Earth Sciences, UNH (Fall, 2007-Present)  
CEPS Fellowship Committee, UNH (2007-Present)  
Search Committee, Solid Earth Geophysics (2007)  
Interim Chairman, Department of Earth Sciences, UNH (2006)  
Graduate Program Coordinator, Department of Earth Sciences, UNH (2003-2007)  
Natural Resources and Earth System Sciences (NRESS) Ph.D. program executive committee (2003-2005)  
Search Committee, Sedimentary Geologist, Dept. Earth Sciences (2004)  
Faculty Contributor, UNH Teachers as Scholars program (2003)  
University Computer Cluster Working Group (2002-2003)  
College of Engineering and Physical Sciences Curriculum and Academic Planning Committee (2000-2002)  
Search Committee, Solid Earth Geochemist, Dept. Earth Sciences (2002)  
Search Committee, Glacial Geologist/Paleoclimatologist, Dept. of Earth Sciences (2001)  
Manager, Department of Earth Sciences computer resources (2000-present)  
Search Committee, Dean of the College of Engineering and Physical Science (2000)  
Plenary Speaker at the Northern New England Junior Science and Humanities Symposium (2000)  
Presentations to local mineral clubs and classes on the scientific importance of fossils (1998-Present)

### **Professional Service**

Organizing Committee; "The Future of Continental Scientific Drilling", Denver, Colorado (2009)  
Organized Bighorn Basin Coring Project (BBCP) Workshop, Powell, Wyoming (2007)  
Organized theme session for Northeast Geological Society of America Annual Meeting (2007)  
Member of the Advisory Board (2003-2005) and Vertebrate Paleontology Working Group (2000-present), Paleobiology Database, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA.  
Organizing Committee, "Climate and Biota of the Early Paleogene", Powell, Wyoming (2001).  
This was the fourth in a series of international symposia (Albuquerque, Paris, Goteborg, Bilbao) related to understanding the events surrounding the Paleocene-Eocene boundary.  
Reviewer for *Paleobiology*; *Journal of Vertebrate Paleontology*; *Nature*; *Proceedings of the National Academy of Sciences*; *Geological Society of America Bulletin*; *Journal of Human Evolution*; *Journal of Geology*; *Geology*; *Cretaceous Research*; *National Science Foundation*; *Palaeogeography, Palaeoclimatology, Palaeoecology*; *Palaios*; *Journal of Geophysical Research (Biogeosciences)*, *American Association for Petroleum Geologists*, *NWO (Dutch Organization for Scientific Research)*

## Professional Societies

*Society of Vertebrate Paleontology, Geological Society of America, American Geophysical Union, Paleontological Society*

## Graduate Students

Kaneen Christensen (M.S. Geology, 2000)

John Finarelli (M.S. Geology, 2001)

Eric White (M.S. Geology, 2002)

Walid Hamzi (M.S. Geology, 2003)

Julianne Batchelder (M.S. Geology, Current)

Erin Fernald (M.S. Earth Sciences, 2004)

Intizar Hussain Khan (Ph.D. Earth Sciences, 2006)

Kaori Tsukui (M.S. Geology, Current)

Rebecca Dodds (M.S. Geology, Current)

## PUBLICATIONS

### Journal Papers

Clyde, W. C., Tong, Y., Snell, K. E., Bowen, G. J., Ting, S., Koch, P. L., Li, Q., Wang, Y., Meng, J. 2008. An integrated stratigraphic record from the Paleocene of the Chijiang Basin, Jiangxi Province (China): Implications for mammalian turnover and Asian block rotations. *Earth and Planetary Science Letters* 269: 553-563.

Gunnell, G. F., Gingerich, P. D., Ul-Haq, M., Bloch, J. I., Khan, I. H., Clyde, W. C. 2008. New Primates (Mammalia) From The Early and Middle Eocene of Pakistan and their Paleobiogeographical Implications, *Contributions from the Museum of Paleontology, University of Michigan* 32: 1-14.

Clyde, W. C., Hamzi, W., Finarelli, J. A., Wing, S. L., Schankler, D., Chew, A. 2007. Basin-wide magnetostratigraphic framework for the Bighorn Basin, Wyoming. *Geological Society of America Bulletin* 119: 848-859.

Secord, R., Gingerich, P. D., Smith, M. E., Clyde, W. C., Wilf, P., and Singer, B. S. 2006. Geochronology and mammalian biostratigraphy of middle and upper Paleocene continental strata, Bighorn Basin, Wyoming. *American Journal of Science* 306, 211-245.

Seiffert, E. R., Simons E. L., Clyde W. C., Rossie J. B., Attia, Y., Bown T. M., Chatrath, P., Mathison M. E. 2005. Basal Anthropoids from Egypt and the Antiquity of Africa's Higher Primate Radiation. *Science* 310: 300-304.

Clyde, W. C., Finarelli, J. A., Christensen, K. E. 2005. Evaluating the relationship between pedofacies and faunal composition; Implications for faunal turnover at the Paleocene-Eocene boundary. *Palaios* 20: 390-399.

Finarelli, J. A. and Clyde, W. C. 2004. Reassessing hominoid phylogeny: Evaluating congruence in the morphologic and temporal data. *Paleobiology* 30: 614-651.

Clyde, W. C., Bartels, W. S., Gunnell, G. F., Zonneveld, J.-P. 2004. Discussion:  $^{40}\text{Ar}/^{39}\text{Ar}$  geochronology of the Eocene Green River Formation, Wyoming. *Geological Society of America Bulletin* 116:251-252.

Ting, S., Wang, Y., Schiebout J. A., Koch, P., Clyde, W. C., Bowen, G. J., Wang, Y. 2004. New early Eocene mammalian fossils from the Hengyang Basin, Hunan, China. *Bulletin of Carnegie Museum of Natural History* 36, p. 291-301.

Clyde, W. C., Khan, I. H., Gingerich, P. D. 2003. Stratigraphic response and mammalian dispersal during initial India-Asia collision: Evidence from the Ghazij Formation, Baluchistan, Pakistan. *Geology* 31:1097-1100.

- Clyde, W. C. and Christensen, K. 2003. Testing the relationship between pedofacies and avulsion using markov analysis. *American Journal of Science* 303:60-71.
- Bowen, G. J., Clyde, W. C., Koch, P. L., Ting, S., Alroy, J., Takehisa, T., Wang, Y., Wang, Y. 2002. Mammalian dispersal at the Paleocene/Eocene boundary. *Science* 295:2062-2065.
- Finarelli, J. A. and Clyde, W. C. 2002. Comparing the gap excess ratio and the retention index of the stratigraphic character. *Systematic Biology* 51:166-176.
- Clyde, W. C., Sheldon, N. D., Koch, P. L., Gunnell, G. F., and Bartels, W. S. 2001. Linking the Wasatchian-Bridgerian boundary to the Global Cenozoic Climate Optimum: new magnetostratigraphic and isotopic results from South Pass, Wyoming. *Palaeogeography, Palaeoclimatology, Palaeoecology* 167:175-199.
- Gingerich, P. D., Arif, M., Khan, I. H., Clyde, W. C., and Bloch, J. I. 1999. *Machocyon abbasi*, a new early Eocene Quettacyonid (Mammalia, Condylarthra) from the middle Ghazij Formation of Mach and Deghari Coal fields, Baluchistan (Pakistan). *Contributions from the Museum of Paleontology, University of Michigan* 30:233-250.
- Zaprowski, B. J., and Clyde, W. C. 1999. Playing Wegener in a mock world: A laboratory exercise for introductory Earth Science classes. *Journal of Geoscience Education* 47:336-340.
- Fricke, H. C., Clyde, W. C., and O'Neil, J. R. 1998. Intra-tooth variations in  $\delta^{18}\text{O}(\text{PO}_4)$  of mammalian tooth enamel as a record of seasonal variations in continental climate variables. *Geochimica et Cosmochimica Acta* 62:1839-1850.
- Clyde, W.C., and Gingerich, P. D. 1998. Mammalian community response to the latest Paleocene thermal maximum: An isotaphonomic study from the northern Bighorn basin, Wyoming. *Geology* 26:1011-1014.
- Fricke, H. C., Clyde, W. C., O'Neil, J. R., and Gingerich, P. D. 1998. Evidence for rapid climate change in North America during the latest Paleocene thermal maximum: oxygen isotope compositions of biogenic phosphate from the Bighorn Basin (Wyoming). *Earth and Planetary Science Letters* 160:193-208.
- Clyde, W. C., Zonneveld, J-P., Stamatakos, J., Gunnell, G. F., and Bartels, W. S. 1997. Magnetostratigraphy across the Wasatchian-Bridgerian boundary in the Green River Basin, Wyoming. *Journal of Geology* 105:657-669.
- Clyde, W. C., and Fisher, D. C. 1997. Comparing the fit of stratigraphic and morphologic data in phylogenetic analysis. *Paleobiology* 23:1-19.
- Clyde, W. C., Stamatakos, J., and Gingerich, P. D. 1995. Chronology of the Wasatchian land-mammal age: magnetostratigraphic results from the McCullough Peaks section, northern Bighorn Basin, Wyoming: A reply. *Journal of Geology* 103:464-466.
- Gingerich, P. D., Arif, M., and Clyde, W. C. 1995. New Archaeocetes (Mammalia, Cetacea) from the middle Eocene Domanda Formation of the Sulaiman Range, Punjab (Pakistan). *Contributions from the Museum of Paleontology, University of Michigan* 29:291-330.
- Clyde, W. C., Stamatakos, J., and Gingerich, P. D. 1994. Chronology of the Wasatchian land-mammal age: magnetostratigraphic results from the McCullough Peaks section, northern Bighorn Basin, Wyoming. *Journal of Geology* 102:367-377.

Clyde, W. C., and Gingerich, P. D. 1994. Rates of evolution in the dentition of early Eocene *Cantius*: comparison of size and shape. *Paleobiology* 20:506-522.

### **Book and Monograph Chapters**

Seiffert E.R., Bown T.M., Clyde W.C., and Simons E.L. 2008. Geology, paleoenvironment, and age of Birket Qarun Locality 2 (BQ-2), Fayum Depression, Egypt *in* Fleagle, J.G and Gilbert, C. C. (eds) Elwyn L. Simons: A Search for Origins. New York: Springer, pp. 71-86.

Zonneveld, J-P., Bartels, W.S. and Clyde, W.C. 2003. Stratal architecture of an Early Eocene fluvial-lacustrine depositional system, Little Muddy Creek area, southwestern Green River Basin, Wyoming. The Cenozoic of the Rocky Mountain Region, RMS-SEPM Special Publication: 253-288.

Koch, P. L., Clyde, W. C., Hepple, R. P., Fogel, M. L., Wing, S. L., Zachos, J. C. 2003. Carbon and oxygen isotope records from paleosols spanning the Paleocene-Eocene boundary, Bighorn Basin, Wyoming *in* Wing, S.L., Gingerich, P.D., Schmitz, B., and Thomas, E. (eds.) Causes and Consequences of Globally Warm Climates in the Early Paleogene, *Geological Society of America, Special Paper* 369, p.49-64.

Ting, S., Bowen, G. J., Koch, P. L., Clyde, W. C., Wang, Y., Wang, Y., McKenna, M. C. 2003. Biostratigraphic, chemostratigraphic, and magnetostratigraphic study across the Paleocene-Eocene boundary in the Hengyang Basin, Hunan, China. *in* Wing, S.L., Gingerich, P.D., Schmitz, B., and Thomas, E. (eds.) Causes and Consequences of Globally Warm Climates in the Early Paleogene, *Geological Society of America, Special Paper* 369, p.521-535.

Gingerich, P. D. and Clyde, W. C. 2001. Overview of mammalian biostratigraphy in the Paleocene-Eocene Fort Union and Willwood Formations of the Bighorn and Clarks Fork Basins. *In* Gingerich (ed.) Paleocene-Eocene Stratigraphy and Biotic Change in the Bighorn and Clarks Fork Basins, Wyoming, *University of Michigan Papers on Paleontology* 33: 1-14

Clyde, W. C. 2001. Mammalian biostratigraphy of the McCullough Peaks area in the northern Bighorn Basin. *In* Gingerich P. D. (ed.), Paleocene-Eocene Stratigraphy and Biotic Change in the Bighorn and Clarks Fork Basins, Wyoming, *University of Michigan Papers on Paleontology* 33: 109-126.

Gingerich, P. D., Arif, M., Khan, I. H., Haq, M.-U., Bloch, J. I., Clyde, W. C., and Gunnell, G. F. 2001. Gandhera quarry, a unique mammalian faunal assemblage from the early Eocene of Baluchistan (Pakistan). *In* Gunnell, G. F., ed., Eocene Vertebrates: Unusual Occurrences and Rarely Sampled Habitats. Plenum Press.

MacLeod, N., Ortiz, N., Fefferman, N., Clyde, W., Schuster, C. and MacLean, J. 2000. Phenotypic response of foraminifera to episodes of global environmental change. *In* Culver, S. J. and Rawson, P. (eds.), Biotic Response to Global Change, Cambridge University Press.

Gingerich, P. D., Arif, M., Bhatti, M. A., and Clyde, W. C. 1998. Marine mammals (Cetacea and Sirenia) from the middle Eocene of the Sulaiman Range, Pakistan. *In* Beard, K. C. and Dawson, M. (eds.), Dawn of the Age of Mammals in Asia, *Bulletin of the Carnegie Museum of Natural History* 34:239-259.

### **Book Reviews**

Clyde, W. C. 1999. Strange Old World. *Paleobiology* 25:417-423.

## Extended Abstracts

Clyde, W. C. and Khan, I. H. 2000. Tectonic and biogeographic implications of the Ghazij Formation (lower Eocene), Baluchistan Province, Pakistan. Pp. 34-35 in Schmitz, B., Sundquist, B., and Andreasson, F. P. (eds.), Early Paleogene Warm Climates and Biosphere Dynamics (GFF volume 122). Geological Society of Sweden, Stockholm.

## Abstracts

Lecain, R. M., Clyde, W. C., 2009, Magnetostratigraphy of the Hell Creek and Lower Fort Union Formations in Northeast Montana, *9th North American Paleontological Convention Abstracts*, p. 137.

Johnson, K. R., Bowring, S.; Clyde, W.; Ramezani, J., 2009, The Age and Duration of the Hell Creek Formation and its Relevance as a Recorder of Regional and Global Events: The Evolving Record from the Cedar Creek Anticline in Montana and the Dakotas, *9th North American Paleontological Convention Abstracts*, p. 134.

Jones, M. M., Clyde, W. C., Bowring, S. A., Ramezani, J., Johnson, K. R., 2009, High-Resolution Magnetostratigraphic Analysis of the Denver Basin Kiowa Core; Testing Paleocene Astrochronologies, *Eos Trans. AGU*, 90(22), Jt. Assem. Suppl., Abstract GP11G-06.

Bowring, S A, Ramezani, J, Buchwaldt, R, Johnson, K R, Clyde, W C, Machlus, M, 2009, High-precision U-Pb geochronology of Cretaceous-Paleocene: Challenges and promise, *Eos Trans. AGU*, 90(22), Jt. Assem. Suppl., Abstract GA14A-04

Mayer, L. A., Brumley, K., Andronikov, A., Chayes, D. N., Armstrong, A. A., Calder, B., Hall, J. K., Clyde, W. C., Bothner, W. A., Gardner, J. V., 2008, Recent Mapping and Sampling on Chukchi Borderland and the Alpha/Mendelev Ridge Complex, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract C11C-0516.

Bowring, S. A., Johnson, K. R., Clyde, W., Ramezani, J., Miller, I., and Peppe, D., 2008, A Paleocene Timescale for the Rocky Mountains: Status and Potential, *Geological Society of America Abstracts with Programs*, Vol. 40 (6): 322.

Tsukui, K. and Clyde, W. C., 2008, Ecological stability among early Eocene mammalian faunas from the Bighorn Basin, WY, *Journal of Vertebrate Paleontology*, 28 (Supplement to no. 3), p. 154A.

Clyde, W.C., Ting, S., Snell, K.E., Koch, P.L., Bowen, G.J., Qian, L., Wang, Y., Tong, Y. 2008, Timing and correlation of early Paleocene Asian land mammal ages: new results from the Nanxiong Basin, Gaungdong province, China; *Geological Society of America, Abstracts with Programs*, vol. 40 (6): 322.

Korotky, K.H., Johnson, J.E., Clyde, W.C., Giosan, L., and Rose, K., 2008. Magnetostratigraphic analysis of the marine sedimentary record at Site 19 in the Mahanadi Basin, offshore eastern India. *International Conference on Gas Hydrates*, Noida India, Feb. 6-8, 2008.

Clyde, W. C. and the South China Paleogene Working Group, 2007, Timing and correlation of the Changhuan-Nongshanian Asian Land Mammal Age boundary, *Journal of Vertebrate Paleontology* 27 (Supplement to no. 3): 60A.

Tsukui, K., Clyde, W. C., and Smith, M. E. 2007. Testing different calibrations of the Eocene Geomagnetic Polarity Time Scale using new paleomagnetic results from Green River Basin tuffs. *Geological Society of America Abstracts with Programs*, Vol. 39 (1):38.

- Clyde, W. C., Snell, K. E., Koch, P. L., Bowen, G. J., Chew, A. E., and Wing, S. E. 2006. Is ELMO in the Bighorn Basin? *Climate and Biota of the Early Paleogene, Volume of Abstracts*, p. 26.
- Gunnell, G. F., Ul-Haq, M., Gingerich, P. D., Bloch, J. I., and Clyde, W. C. 2006. New Primates (Mammalia) from Gandhera Quarry, Early Eocene, Balochistan Province, Pakistan. *Journal of Vertebrate Paleontology* 26 (Supplement to no. 3): 71A.
- Clyde, W.C., Hamzi, W., Finarelli, J., Secord, R., Wing, S. 2005. A new basin-wide magnetostratigraphic framework for the Bighorn Basin, Wyoming. *Journal of Vertebrate Paleontology* 25 (Supplement to no. 3):46A
- Clyde, W. C.; Khan, I. H. and Gingerich, P. D. 2004. Mammalian dispersal and the India-Asia collision. *Journal of Vertebrate Paleontology* 24 (Supplement to no. 3): 47A.
- Khan, I. H. and Clyde, W. C. 2004. A stratigraphic record of the time transgressive India-Asia collision from northwestern Pakistan. *Geological Society of America, Abstracts with Programs*, vol. 36, no. 24-4.
- Fernald, E. M. and Clyde, W. C. 2004. Evolutionary deceleration: the roles of cladogenesis and anagenesis. *Geological Society of America, Abstracts with Programs*, vol. 36, no. 4-4.
- Alroy, J., Behrensmeyer, K., Carrano, M., Clyde, W., Fara, E., Fortelius, M., Head, J., Hunter, J., Uhen, M., Wang, X. 2003. The 5% project; just how good is the fossil record of tetrapods? *Journal of Vertebrate Paleontology* 23 (Supplement to no. 3):29A.
- Clyde, W. C., Khan, I. H., Gingerich, P. D. 2003. Initial India-Asia Collision: Sedimentologic, Paleomagnetic and Paleontologic Evidence From the Ghazij Formation, Balochistan, Pakistan. *EOS Transactions, American Geophysical Union* 84(46), Fall Meeting Supplement, Abstract GP41D-03.
- Ting, S., Bowen, G., Koch, P., Clyde, W., Wang, Y., Wang, Y., McKenna, M. 2002. First temporally constrained Asian Paleocene/Eocene boundary record. *Journal of Vertebrate Paleontology* 22 (Supplement to no. 3):114A.
- Clyde, W. C., Finarelli, J. A., Christensen, K. E. 2002. Testing the relationship between paleosol maturity and faunal composition in vertebrate collections from the McCullough Peaks, Bighorn Basin, Wyoming. *Journal of Vertebrate Paleontology* 22 (Supplement to no. 3):45A
- Zonneveld, J-P, Bartels, W. S., Clyde, W. C., Gunnell, G. F. 2002. Stratal Architecture of an early Eocene fluvial lacustrine depositional system. *Geological Society of America, Abstracts with Programs*, No. 210-8
- Clyde, W. C., Koch, P. L., Sheldon, N. D., Gunnell, G. F., and Bartels, W. S. 2001. Isotopic oscillations and mammalian faunal turnover in the Green River Basin during the Cenozoic global climate optimum. *Climate and Biota of the Early Paleogene, Abstract Volume*, p. 19.
- Bowen, G. J., Koch, P. L., Clyde, W. C., Gingerich, P. D., and Ting, S. 2001. Terrestrial perspective on carbon cycle and climatic events near the Paleocene/Eocene boundary. *Climate and Biota of the Early Paleogene, Abstract Volume*, p. 14.
- Clyde, W. C. and Khan, I. H. 2001. Stratigraphic response to initial Indian-Asian collision: new paleomagnetic constraints from the early Eocene Ghazij Formation, Baluchistan Province, Pakistan. *Earth System Processes, Programmes with Abstracts* 1:108.
- Finarelli, J. A., Clyde, W. C. 2001. The partitioning of homoplasy in hominoid phylogeny. *Journal of Vertebrate Paleontology* 21(Supplement to no. 3):49A.

- Christensen, K. E., Clyde, W. C., Ramsey, P. J. 2000. Relationship between sedimentological facies and vertebrate faunal abundance in the McCullough Peaks, Wyoming. *Geological Society of America, Abstracts with Programs* 32:A450.
- Bowen, G. J., Clyde, W. C., Koch, P. L., Ting, S., Wang, Y., Wang, Y., McKenna, M. C. 2000. East of Eden?: Temporal constraints on the appearance of modern mammalian orders in Asia. *Geological Society of America, Abstracts with Programs* 32:A498.
- Sheldon, N. D. and Clyde W. C. 1999. Magnetostratigraphy of a lower to middle Eocene fluvial/lacustrine sequence near Continental Peak, Wyoming. *Geological Society of America, Abstracts with Programs* 31:A234.
- Clyde, W. C. 1999. Mammalian response to paleogene warm climates: contrasting community-level and lineage-level effects on body size. *Geological Society of America, Abstracts with Programs* 31:A121
- Clyde, W. C., Sheldon, N. D., and Koch, P. L. 1999. New paleomagnetic and stable-isotopic results from the Green River Basin (South Pass, Wyoming): Geological, Climatic, And Biotic Implications. *Geological Society of America, Abstracts with Programs* 31:A416.
- Clyde, W. C., Khan, I., and Arif, M. 1999. Paleogeographic and biogeographic implications of the lower Eocene Ghazij Group from the Kingri area of Baluchistan. *Journal of Vertebrate Paleontology* 19(Supplement to no. 3):39A.
- Gingerich, P. D., Arif, M., Khan, I. H., Clyde, W. C., and Bloch, J. I. 1998. Early Eocene land mammals from the middle and upper Ghazij Formation of Baluchistan (Pakistan). *Journal of Vertebrate Paleontology* 18(Supplement to no. 3):46A
- Clyde, W. C. 1997. Effects of latest Paleocene climate change and immigration on local mammalian communities in the Bighorn Basin, Wyoming: New evidence from the McCullough Peaks. *Journal of Vertebrate Paleontology* 17(Supplement to no. 3):39A
- Fricke, H. C., Clyde, W. C., O'Neil, J. R., and Gingerich, P. D. 1996. Continental paleoclimate across the Paleocene/Eocene boundary as inferred from variations in  $\delta^{18}\text{O}$  ( $\text{PO}_4$ ) of mammalian tooth enamel and fish scales. *Geological Society of America, Abstracts with Programs* 28:A224..
- Clyde, W. C., and Gingerich, P. D. 1996. Reorganization of mammalian assemblages across the Paleocene-Eocene boundary, northern Bighorn Basin, Wyoming. *Geological Society of America, Abstracts with Programs* 28:A54.
- Fricke, H. C., Clyde, W. C., O'Neil, J. R., and Gingerich, P. D. 1996. Intra-tooth variations in  $\delta^{18}\text{O}$  ( $\text{PO}_4$ ) of mammalian tooth enamel: reconstructing seasonality from the present to the Paleocene. *Journal of Vertebrate Paleontology* 16(Supplement to no. 3):35A.
- Clyde, W. C., and Fisher, D. C. 1996. Comparing the fit of stratigraphic and morphologic data in phylogenetic analysis. *Journal of Vertebrate Paleontology* 16(Supplement to no.3):29A.
- Clyde, W. C., Stamatakis, J., Zonneveld, J. P., Gunnell, G. F., and Bartels, W. S. 1995. Timing of the Wasatchian-Bridgerian (early-middle Eocene) faunal transition in the Green River Basin, Wyoming. *Journal of Vertebrate Paleontology* 14(Supplement to no. 3):24A.
- Gingerich, P. D., Arif, M., Clyde, W. C. 1995. New archaeocete whales from the early middle Eocene Domanda Formation of Pakistan. *Journal of Vertebrate Paleontology* 14(Supplement to no.3):32A.

Clyde, W. C., Stamatakos, J., and Zonneveld, J. P. 1995. Magnetostratigraphy across the Wasatchian-Bridgerian land mammal age boundary in the Green River Basin, Wyoming. *Eos Transactions, American Geophysical Union* 76(17):S98.

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