NEIL H. LANDMAN
CURATOR, CURATOR-IN-CHARGE AND PROFESSOR
DIVISION OF PALEONTOLOGY

HIGHEST DEGREE EARNED
Ph.D.

AREA OF SPECIALIZATION
Evolution, life history, and systematics of externally shelled cephalopods

EDUCATIONAL EXPERIENCE
Ph.D. in Geology, Yale University, 1982
M. Phil. in Geology, Yale University, 1977
M.S. in Earth Sciences, Adelphi University, 1975
B.S. in Mathematics, summa cum laude, Polytechnic University of New York, 1972

PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION
FACULTY APPOINTMENTS
Adjunct Professor, Department of Biology, City College
Adjunct Professor, Department of Geology, Brooklyn College

GRADUATE ADVISEES
Susan Klofak, Biology, CUNY, 1999-present
Krystal Kallenberg, Marine Sciences, Stony Brook, 2003-present

GRADUATE COMMITTEES
Christian Soucier, Biology, Brooklyn College, 2004-present
Krystal Kallenberg, Marine Sciences, Stony Brook, 2003-present
Yumiko Iwasaki, Geology, CUNY, 2000-2009
Emily Allen, Geology, University of Chicago, 2002-2005
Susan Klofak, Biology, CUNY, 1996-present
Claude Monnet, University of Zurich, presently
Sophie Low, Geology, Harvard University

RESEARCH GRANT SUPPORT
Kosciuszko Foundation. Comparative study of ammonite faunas from the United States Western Interior and Polish Lowland. Post-doc: Izabela Ploch, Geological Museum of Polish Geological Institute. 2011.
NSF Grant MR1-R2 (Co-PI): Acquisition of a High Resolution CT-Scanner at the American Museum of Natural History: 2010-2013.
NSF Grant No. DBI 0619559 (Co-PI): Acquisition of a Variable Pressure SEM at the AMNH: 2006-2009

NSF Grant No. EAR 0308926 (PI): Collaborative Research: Paleobiology, paleoceanography, and paleoclimatology of a time slice through the Western Interior Seaway: 2003-2006

National Science Foundation, Collaborative Research: Soft Tissues and Membrane Preservation in Permian Cephalopods, $40,000, February 1, 2002-January 31, 2006.

National Science Foundation, Collaborative Research: Paleobiology, Paleoceanography, and Paleoclimatology of a Time Slice through the Late Cretaceous Western Interior Seaway, $18,369, September 1, 2003-August 31, 2006.

RECENT PUBLICATIONS IN REFEREED JOURNALS (2006-2011)

Palamarczuk, S. and N.H. Landman. 2011. Dinoflagellate cysts from the upper Campanian Pierre Shale and Bearpaw Shale of the U.S.Western Interior. Accepted with minor revision. Rocky Mountain Geology.

Bonacum, J., N.H. Landman, R.H. Mapes, M.W. White, A.J.White, and J. Irlam. 2011. Evolutionary radiation of Recent Nautilus and Allonautilus. American Malacological Bulletin 29:1-16.

Kruta, I., N.H. Landman, I. Rouget, F. Cecca, and P. Tafforeau. 2011. The role of ammonites in the Mesozoic marine food web revealed by jaw preservation. Science 331: 70-72.

Mapes, R.H., L.A. Doguzhaeva, H. Mutvei, N.H. Landman, and K. Tanabe. 2010. The oldest known (Lower Carboniferous-Namurian) protoconch of a rostrum-bearing coleoid (Cephalopoda) from Arkansas, USA: phylogenetic and paleobiologic implications. Ferrantia 59: 114-125.

Mapes, R.H., N.H. Landman, K. Cochran, C. Goiran, and B. Richer de Forges. 2010. Early taphonomy and significance of naturally submerged Nautilus shells from the New Caledonia region. Palaios. 25: 597-610.

Landman, N.H., W.J. Kennedy, W.A. Cobban, and N.L. Larson.2010. Scaphites of the ―nodosus group from the Upper Cretaceous (Campanian) of the Western Interior of North America. American Museum of Natural History Bulletin 342: 1-242.

Cochran, J.K., K. Kallenberg, N.H. Landman, P.J. Harries, D. Weinreb, K.K. Turekian, A.J. Beck, and W.A. Cobban. 2010. Effect of diagenesis on the Sr, O, and C isotope composition of Late Cretaceous mollusks from the Western Interior Seaway of North America. American Journal of Science 310: 69-88.

Kruta, I., N.H. Landman, I. Rouget, F. Cecca, and N.L.Larson. 2010. The jaw apparatus of the Late Cretaceous ammonite Didymoceras. Journal of Paleontology 84(3):556-560.

Tanabe, K., C .Kulicki, N.H. Landman, and A. Kaim. 2010. Tuberculate micro-ornamentation on embryonic shells of Mesozoic ammonoids: Microstructure, taxonomic variation, and morphogenesis. Cephalopods-Present and Past, Tanabe, K., Y. Shigeta, Y. Sasaki, and H. Hirano (editors), Tokai University Press, Tokyo: 105-121.

Klofak, S.M. and N.H. Landman. 2010. Some exceptionally well preserved specimens of Agoniatites vanuxemi form the Middle Devonian Cherry Valley Limestone of

New York State, USA. Cephalopods-Present and Past, Tanabe, K., Y. Shigeta, Y. Sasaki, and H. Hirano (editors), Tokai University Press, Tokyo: 93-103.
Landman, N.H., R.O. Johnson, M.P. Garb, L.E. Edwards, and F.T. Kyte. 2010. Ammonites from the Cretaceous/Tertiary Boundary, New Jersey, USA. Cephalopods-Present and Past, Tanabe, K., Y. Shigeta, Y. Sasaki, and H. Hirano(editors), Tokai University Press, Tokyo: 287-295.
Landman, N.H., R.H. Mapes, and C. Cruz. 2010. Soft tissues in ammonoid cephalopods from the Bear Gulch Lagerstätte (Lower Carboniferous), Montana, USA. Cephalopods-Present and Past, Tanabe, K., Y. Shigeta, Y. Sasaki, and H. Hirano(editors), Tokai University Press, Tokyo: 147-153.
Polizzotto, K. and N.H. Landman. 2010. Pseudosutures and 10 siphuncular membranes in hollow Rhaeboceras (Scaphitidae): Implications for chamber formation and shell growth. Cephalopods-Present and Past, Tanabe, K., Y. Shigeta, Y. Sasaki, and H. Hirano (editors), Tokai University Press, Tokyo: 131-140.
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Machalski, M., J.W.M. Jagt, N.H. Landman, and J. Uberna. 2009. First record of the North American scaphitid ammonite Discoscaphites iris from the upper Maastrichtian of Libya. Neues Jahrbuch für Geologie und Paläontolologie Abhandlungen. 254/3: 373-378.
Gupta, N.S., D.E.G. Briggs, N.H. Landman, K. Tanabe, and R.E. Summons. 2008. Molecular structure of organic components in cephalopods: Evidence for oxidative cross linking in fossil marine invertebrates. Organic Geochemistry 39: 1405-1414.
Kruta, I., and N.H. Landman. 2008. Injuries on Nautilus jaws: Implications for the function of ammonite aptychi. The Veliger 50(3): 241-247.
Tanabe, K., C. Kulicki, and N.H. Landman. 2008. Development of the embryonic shell structure of Mesozoic ammonoids. American Museum Novitates 3621: 1-19.
Kulicki, C., K. Tanabe, and N.H. Landman. 2007. Primary structure of the connecting ring of ammonoids and its preservation. Acta Palaeontologica Polonica 52(4): 823- 827.
Landman, N.H., and W.A. Cobban. 2007. Redescription of the Late Cretaceous (late Santonian) ammonite Desmoscaphites bassleri Reeside, 1927, from the Western Interior of North America. Rocky Mountain Geology 42(2): 67-94.
Polizzotto, K., N.H. Landman, and R.H. Mapes. 2007. Cameral membranes in Carboniferous and Permian goniatites: Description and relationship to pseudosutures. In
N.H. Landman, R.A. Davis, and R.H. Mapes (eds.), Cephalopods Present and Past: New Insights and Fresh Perspectives, Springer, New York. pp. 181-204.
Landman, N.H., and W.A. Cobban. 2007. Ammonite touch marks in Upper Cretaceous (Cenomanian-Santonian) deposits of the Western Interior Seaway. In N.H. Landman,
R.A. Davis, and R.H. Mapes (eds.), Cephalopods Present and Past: New Insights and Fresh Perspectives, Springer, New York. pp. 396-422.

Landman, N.H., N.L. Larson, and W.A. Cobban. 2007. Jaws and radula of Baculites from the Upper Cretaceous (Campanian) of North America. In N.H. Landman, R.A. Davis, and R.H. Mapes (eds.), Cephalopods Present and Past: New Insights and Fresh Perspectives, Springer, New York. pp. 257-298.

Klofak, S.M., N.H. Landman, and R.H. Mapes. 2007. Patterns of embryonic development in Early to Middle Devonian ammonoids. In N.H. Landman, R.A. Davis, and R.H. Mapes (eds.), Cephalopods Present and Past: New Insights and Fresh Perspectives, Springer, New York. pp. 15-56.

Machalski, M.J., J.W.M. Jagt, N.H. Landman, and N. Motchurova-Dekova. 2007. The highest records of North American scaphitid ammonites in the European Maastrichtian (Upper Cretaceous) and their stratigraphic implications. Acta Geologica Polonica 2:

Landman, N.H., R.O. Johnson, M.P. Garb, L.E. Edwards, and F.T. Kyte. 2007. Cephalopods from the Cretaceous/Tertiary boundary interval on the Atlantic Coastal Plain, with a description of the highest ammonite zones in North America. Part 3. Manasquan River Basin, Monmouth County, New Jersey. Bulletin of the American Museum of Natural History 303: 1--122.

Landman, N.H., K. Polizzotto, R.H. Mapes, and K. Tanabe. 2006. Cameral membranes in prolecanitid ammonoids from the Permian Arcturus Formation, Nevada. Lethaia 39(4): 365--379.

Landman, N.H., C.J. Tsujita, W.J. Cobban, N.L. Larson, K. Tanabe, and R.L. Flemming. 2006. Jaws of Late Cretaceous placenticeratid ammonites: how preservation affects the interpretation of morphology. American Museum Novitates 3500: 1--48.

Landman, N.H., C.J. Tsujita, W.A. Cobban, N.L. Larson, K. Tanabe, and R.L. Flemming. 2006. Jaws of Late Cretaceous placenticeratid ammonites: How preservation affects the interpretation of morphology. *American Museum Novitates* 3500: 1-44.

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