

Brooks B. Ellwood

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Louisiana State University (LSU)
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EDUCATION

Ph.D. 1977. University of Rhode Island, Graduate School of Oceanography.

Title: Development of the standardized magnetic parameter F_X .

Advisor: Norman Watkins; deceased

MS 1974. University of Rhode Island, Graduate School of Oceanography.

Title: Application of low-field anisotropy of magnetic susceptibility to the problem of distinguishing between intrusive and extrusive deep-sea basalts.

Advisor: Norman Watkins; deceased

BS 1970. Florida State University, Department of Geology.

ACADEMIC EXPERIENCE/RANK

1999-- Professor, Department of Geology and Geophysics, LSU

2005-- Professor Emeritus, UT Arlington

2003-- Adjunct Professor, Department of Geography and Anthropology, LSU

1999-04 Adjunct Professor, Department of Geology, UT Arlington

1999-03 Chair, Department of Geology and Geophysics, LSU

1997-99 Professor, Sociology and Anthropology at UT Arlington (joint appointment)

1989-92 Acting Chair, Department of Geology, UT Arlington

1988-99 Professor, Department of Geology, UT Arlington

1983-88 Associate Professor, Department of Geology, UT Arlington

1981-83 Associate Professor, University of Georgia

1977-81 Assistant Professor, University of Georgia

1976-77 Research Associate (Post Doc), Ohio State University.

1970-76 Research Assistant, University of Rhode Island

1969-70 Teaching Assistant, Florida State University

UNIVERSITY ACTIVITY

2016-- Geology representative to the LSU Faculty Senate

2006-- Undergraduate Advisor, Geology, LSU

2017-- President, LSU Chapter AAUP

2012-14 President, Louisiana Conference AAUP

2010-11 President, LSU Chapter AAUP

2009-10 Faculty Senate Courses and Curricula Committee

2008-10 Vice President, LSU Chapter AAUP

2006-10 College of Science Undergraduate Curriculum Committee, LSU

2006-10 LSU Planning Review Council

2003-04 President, LSU Chapter AAUP

- 1998-99 Chair, Faculty Senate, UT Arlington
- 1992-99 Undergraduate Advisor, Geology, UT Arlington
- 1995-99 Faculty Senate, UT Arlington
- 1986-94 Graduate Advisor, Math Sciences Ph.D. Program, UT Arlington
- 1988-89 Vice Chair, UT Arlington Faculty Senate
- 1985-89 Faculty Senate, UT Arlington
- 1981-83 Faculty Senate, University of Georgia

AWARDS AND HONORS

- 2005-- Robey Clark Distinguished Professor in Geology, LSU
- 2010 Awarded the VAST Medal by the Vietnamese Academy of Science and Technology for long-term and significant contributions to research in Vietnam
- 2007 Harrison Family Field Camp Distinguished Professor in Geology, LSU
- 1993 South Central Federation of Mineral Societies Honorary AFMS Award Winner
- 1987 Career Award for Distinguished Research, UT Arlington
- 1981-82 Teacher of the Year, Geology, University of Georgia

PROFESSIONAL ACTIVITY

- 2007-- Reappraisal Task Group Member, Devonian/Carboniferous System Boundary GSSP, International Union of Geological Sciences Commission on Stratigraphy, Subcommission on Carboniferous Stratigraphy
- 2002-- Task Group Member, Viséan/Serpukhovian Stage Boundary, International Union of Geological Sciences Commission on Stratigraphy, Subcommission on Carboniferous Stratigraphy
- 1999-- Corresponding Member, International Union of Geological Sciences Commission on Stratigraphy, Subcommission on Devonian Stratigraphy
- 2013-14 North American Commission on Stratigraphic Nomenclature – member
- 1999-13 Editorial Board, Journal of Natural Sciences, Hanoi, Vietnam
- 2006-13 Associate Editor, Bulletin of Geosciences, Czech Geological Survey, Czech Republic
- 2004-07 Director, Baton Rouge Geological Society
- 2004-06 President, Baton Rouge Geological Society Foundation
- 2003-04 President Baton Rouge Geological Society
- 2002-03 VP Baton Rouge Geological Society
- 1999-03 Professor in Distance Education Course on Geology of the National Parks, UTA
- 1992-95 Co-Leader, International Geological Correlation Program (IGCP) 339, "Geomagnetic Equator", Vietnam: Paleomagnetism Working Group Chairman - Funded by UNESCO
- 1990 Chinese Review Commission of the State Education Commission and the International Advisory Panel of the National Academy of Sciences, Consultant - Host University: China University of Geosciences (Wuhan, China)
- 1987-99 Director, Center for Geoarcheological Studies, UTA
- 1985 Exchange Scientist, National Academy of Sciences, Exchange Program with Czechoslovakia (now the Czech Republic)

CURRENT PROFESSIONAL AFFILIATIONS

- Fellow:** Geological Society of America
- American Association for the Advancement of Science

Member: American Geophysical Union
American Association of Petroleum Geologists
National Speleological Society - NSS 11543

Honor Societies: Sigma XI; Phi Beta Delta

PUBLICATIONS:

Refereed Publications (Journal Articles and Book Chapters)

167. Ellwood, B.B., Wardlaw, B.R., Nestell, M.K., Nestell, G.P., Lan, L.T.P., 2017. Identifying globally synchronous Permian–Triassic boundary levels in successions in China and Vietnam using Graphic Correlation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 485, 561–571.
166. Brocke, R., Brett, C.E., Ellwood, B.B., Hartkopf-Fröder, C., Riegel, W., Schindler, E., Jonathan H. Tomkin, 2017. Comparative palynofacies, magnetic susceptibility and cyclicity of the Middle Devonian Müllertchen Section (Eifel area, Germany) *Palaeobiodiversity and Palaeoenvironments*, 19pp., DOI 10.1007/s12549-017-0289-9.
165. El Far, E., Ellwood, B.B., Wang, W-H., Bell, G.L., 2017. Sea level and climatic-induced facies variations in the Middle Cambrian House Range Embayment, western Laurentia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 475, 125–139
[10.1016/j.palaeo.2017.03.024](https://doi.org/10.1016/j.palaeo.2017.03.024)
164. Boschian, G., Gerometta, K., Ellwood, B.B., Karavanic, I., 2016. Late Neancerthals in Dalmatia: Site formation processes, chronology, climate change and human activity at Mujina Pecina, Croatia. *Quaternary International*, xxx, 1–24.
163. Lehrmann, D.J., Stepchinski, L., Altiner, D., Orchard, M.J., Montgomery, P., Enos, P., Ellwood, B.B., Bowring, S.A., Ramezani, J., Wang, H., Wei, J., Yu, M., Griffiths, J.D., Minzoni, M., Schaal, E.K., Li, X., Meyer, K.M., Payne, J.L., 2015. An integrated biostratigraphy (conodonts and foraminifers) and chronostratigraphy (paleomagnetic reversals, magnetic susceptibility, elemental chemistry, carbon isotopes and geochronology) for the Permian–Upper Triassic strata of Guandao section, Nanpanjiang Basin, south China, *Journal of Asian Earth Sciences*, 108, 117–135.
162. Wardlaw, B.R., Nestell, M.K., Nestell, G.P., Ellwood, B.B., Lan, T.P., 2015. Conodont biostratigraphy of the Permian–Triassic boundary sequence at Lung Cam, Vietnam, *Micropaleontology*, 61, 313–334.
161. W.-Q. Xue, B. Li, J.-X. Yan, B.B. Ellwood, J.H. Tomkin, Y. Wang, Z.-M. Zhu, 2015 High-resolution floating point time scale (FPTS) of Permian Capitanian Stage in South China: *Chinese Journal of Geophysics (Chinese)*, v. 58, 3719–3734; doi:10.6038/cjg20151023; (English), v. 58, 611–627.
160. Minzoni, M., Lehrmann, D.J., Dezoeten, E., Enos, P., Montgomery, P., Berry, A., Qin, Y., Meiyi, Y., Ellwood, B.B., Payne, J.L., 2015. Drowning of the Triassic Yangtze platform, South China, by tectonic subsidence into toxic deep waters of an anoxic basin, *Journal of Sedimentary Research*, 85, 419–444: DOI:10.2110/jrs2015.32
159. Railsback, L.B., Brook, G.A., Ellwood, B.B., Liang, F., Cheng, H., Edwards, R.L., 2015. A record of wet glacial stages and dry interglacial stages over the last 560 kyr from a standing massive stalagmite in Carlsbad Cavern, New Mexico, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 438, 256–266.

158. Nestell, G.P., Nestell, M.K., Ellwood, B.B., Wardlaw, B.R., Basu, A.R., Ghosh, N., Lan, L.T.P., Rowe, H.D., Hunt, A., Tomkin, J.H., Ratcliffe, K.T., 2015. High influx of carbon in walls of agglutinated foraminifers during the Permian-Triassic transition in global oceans. *International Geology Review*, 57, 411-427: DOI: [10.1080/00206814.2015.1010610](https://doi.org/10.1080/00206814.2015.1010610)
157. Ellwood, B.B., El Hassani, A., Tomkin, J.H., and Bultynck, P., 2015. A climate-driven model using time-series analysis of magnetic susceptibility (χ) datasets to represent a floating-point high-resolution geological timescale for the Middle Devonian Eifelian stage. daSilva, A-C., Whalen, M. T., Hladil, J., Chadimova, L., Chen, D., Spassov, S., Boulvain, F. & Devleeschouwer, X. (eds). *Magnetic susceptibility application: a window onto ancient environments and climatic variation*. The Geological Society of London Special Publications, 414, 209-223, <http://doi.org/10.1144/SP414.4>.
156. Keenan, S. and Ellwood, B.B., 2014. Geophysical evaluation of the Richland and Holloway Mounds, Southeastern Louisiana, U.S.A., *Geoarchaeology*, 29, 312-325.
155. Davies, E.J., Ratcliffe, K.T., Montgomery, P., Pomar, L., Ellwood, B.B., and Wray, D.S., 2013. Magnetic susceptibility (χ) stratigraphy and chemostratigraphy applied to an isolated carbonate platform reef complex; Lluçmajor Platform, Mallorca. In: *Deposits, Architecture and Controls of Carbonate Margin, Slope, and Basin Systems*, eds. Verwer, K., Playton, T. and Harris, P., SEPM Special Publication 105, 15 pp., doi: 10.2110/sepm.sp.105.05.
154. Ellwood, B.B., Brett, C.E., Tomkin, J.H., MacDonald, W.D., 2013. Visual Identification and Quantification of Milankovitch Climate Cycles in Outcrop: An Example from the Upper Ordovician Kope Formation, Northern Kentucky. In, Jovane, L., Herrero-Bervera, E., Hinnov, L.A., and Housen, B.A. (eds) *Magnetic Methods and Timing of Geological Processes*. The Geological Society of London Special Publications 2013, 373, p. 341-353, doi.org/10.1144/SP373.2
153. Ellwood, B.B., Lambert, L.L., Tomkin, J.H., Bell, G., Nestell, M.K., Nestell, G.P., Wardlaw, B.R., 2013. Magnetostratigraphy Susceptibility for the Guadalupian Series GSSPs (Middle Permian) in Guadalupe Mountains National Park and Adjacent Areas in West Texas. In, Jovane, L., Herrero-Bervera, E., Hinnov, L.A., and Housen, B.A. (eds) *Magnetic Methods and Timing of Geological Processes*. The Geological Society of London Special Publications 2013, 373, p. 375-394. doi.org/10.1144/SP373.1
152. Ellwood, B.B., Wang, W.-H., Tomkin, J.H., Ratcliffe, K.T., El Hassani, A., Wright, A.M., 2013. Testing high resolution magnetic susceptibility and gamma gradation methods in the Cenomanian-Turonian (Upper Cretaceous) GSSP and near-by coeval section. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 378, 75-90.
151. Algeo, T., Henderson, C.M., Ellwood, B., Rowe, H., Elswick, E., Bates, S., Lyons, T., Hower, J.C., Smith, C., Maynard, B., Hays, L.E., Summons, R.E., Fulton, J., Freeman, K.H., 2012. Evidence for a diachronous Late Permian marine crisis from the Canadian Arctic region. *Geological Society of America Bulletin*, 124, 1424-1448, doi: 10.1130/B30505.1.
150. Shen, J., Algeo, T.J., Zhou, L., Feng, Q., Yu, J., Ellwood, B.B., 2012. Volcanic perturbations of the marine environment in South China preceding the latest Permian extinction event and their biotic effects. *Geobiology*, 10, 82-103.
149. Garcia-Alcalde, J.L., Ellwood, B.B., Soto, F., Truyóls-Massoni, M., Tomkin, J.H., 2012. Precise Timing of the Taghanic Biocrisis in the upper Givetian (Middle

- Devonian) in Northern Spain Using Magnetic Susceptibility Data Sets, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 313–314, 26–40.
148. Font, E., Nédélec, A., Ellwood, B.B., Mirão, J., Silva, P.M.F., 2011. A New Sedimentary Benchmark for the Deccan Traps Volcanism? *Geophysical Research Letters*, 38, L24309, doi:10.1029/2011GL049824.
147. Balsam, W., Ellwood, B.B., Ji, J., Williams, E.R., Long, X., El Hassani, A., 2011. Magnetic susceptibility as a proxy for rainfall: worldwide data from tropical and temperate climate, *Journal of Quaternary Science Reviews*, 30, 2732–2744.
146. Algeo, T.J., Kuwahara, K., Sano, H., Bates, S., Lyons, T., Elswick, E., Hinnov, L., Ellwood, B., Moser, J., and Maynard, J.B., 2011. Spatial variation in sediment fluxes, redox conditions, and productivity in the Permian–Triassic Panthalassic Ocean, *Palaeogeography, Palaeoclimatology, Palaeoecology* 308, 65–83.
145. Ellwood, B.B., Tomkin, J.H., El Hassani, A., Bultynck, P., Brett, C.E., Schindler, E., Feist, R., Bartholomew, A., 2011. A climate-driven model and development of a floating point time scale for the entire Middle Devonian Givetian Stage: A test using magnetostratigraphic susceptibility as a climate proxy. *Palaeogeography, Palaeoclimatology, Palaeoecology* 304, 85–95.
144. Ellwood, B.B., Algeo, T., El Hassani, A., Tomkin, J.H., Rowe, H., 2011, Defining the Timing and Duration of the Kačák Interval within the Eifelian/Givetian Boundary GSSP, Mech Irdane, Morocco, Using Geochemical and Magnetic Susceptibility Patterns, *Palaeogeography, Palaeoclimatology, Palaeoecology* 304, 74–84.
143. Ellwood, B.B., Kafafy, A., Kassab, A., Abdeldayem, A., Obaidalla, N., Howe, R.W., Sikora, P., 2010. Magnetostratigraphy Susceptibility Used for High Resolution Correlation among Santonian (Upper Cretaceous) Marine Sedimentary Sequences in the U.S. Western Interior Seaway and the Western Sinai Peninsula, Egypt. In *Modern Stratigraphic techniques: Theories and Case Histories*, eds. Ratcliffe, K. and B. Zaitlin, SEPM Special Publication 94, p. 155–166.
142. Ellwood, B.B., Kafafy, A., Kassab, A., Tomkin, J.H., Abdeldayem, A., Obaidalla, N., Tandall, K.W., and Thompson, D.E., 2010. Magnetostratigraphy susceptibility used for high-resolution correlation among Paleocene–Eocene boundary sequences in Egypt, Spain, and the U.S.A. In *Modern Stratigraphic techniques: Theories and Case Histories*, eds. Ratcliffe, K. and B. Zaitlin, SEPM Special Publication 94, p. 167–179.
141. Benedetti, M.M., Haws, J.A., Funk, C.L., Daniels, J.M., Hesp, P.A., Bicho, N.F., Minckley, T.A., Ellwood, B.B., and Forman, S.L., 2010. Late Pleistocene raised beaches of coastal Estremadura, central Portugal, *Quaternary Science Reviews*, 28, 3428–3447, doi:10.1016/j.quascirev.2009.09.029
140. Over, D.J., de la Rue, S., Isaacson, P., and Ellwood, B., 2009. Upper Devonian conodonts from black shales of the high latitude Tomachi Formation, Madre de Dios Basin, northern Bolivia. *Palaeontographica Americana*, 62, 89–99.
139. Ellwood, B.B., Tomkin, J.H., Febo, L.A., Stuart, C.N., Jr., 2008. Time Series Analysis of Magnetic Susceptibility Variations in Deep Marine Sediments: A Test Using Upper Danian–Lower Selandian Proposed GSSP, Spain. *Palaeogeography, Palaeoclimatology, Palaeoecology* 261, 270–279.
138. Ellwood, B.B., Tomkin, J.H., Ratcliffe, K.T., Wright, M., Kafafy, A.M., 2008. High Resolution Magnetic Susceptibility and Geochemistry for the Cenomanian/Turonian Boundary GSSP with Correlation to Time Equivalent Core. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 261, 105–126.
137. Lan, L.T.P., Ellwood, B.B., Tomkin, J.H., Truong, D.N., 2008. Magnetic susceptibility study on the Permian/Triassic boundary in Lung Cam Limestone at Ha

- Giang Province, Viet Nam. *Journal of Geology, Series B (English)*, No. 31–32, 285–298.
136. Ellwood, B.B., Brett, C.E., MacDonald, W.D., 2007. Magnetosusceptibility Stratigraphy of the Upper Ordovician Kope Formation, Northern Kentucky. *Palaeogeography, Palaeoclimatology, Palaeoecology* 243, 42–54.
135. Ellwood, B.B., Tomkin, J., Richards, B., Benoist, S.L., and Lambert, L.L., 2007. MSEC Data Sets Record Glacially Driven Cyclicality: Examples from the Arrow Canyon Mississippian–Pennsylvanian GSSP and Associated Sections, *Palaeogeography, Palaeoclimatology, Palaeoecology* 255, 377–390. doi: [10.1016/j.palaeo.2007.08.006](https://doi.org/10.1016/j.palaeo.2007.08.006).
134. Ellwood, B.B., Fillon, R.H., Waterman, A.S., Kassab, A., 2007. High Resolution Correlations: Projecting Global Data Sets into Gulf Coast Sedimentary Sequences Using Biostratigraphy and Magnetic Susceptibility. In 27th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, The Paleogene of the Gulf of Mexico and Caribbean Basins: Processes, Events, and Petroleum Systems, Ed. L. Kennan, J. Pindell, and N.C. Rosen, pp. 232–269.
133. Lehrmann, D.J., Pei, D., Enos, P., Minzoni, M., Ellwood, B.B., Orchard, M.J., Zhang, J., Wei, J., Dillett, P., Koenig, J., Steffen, K., Druke, D., Gross, J., Kessel, B., Newkirk, T., 2007. Impact of differential tectonic subsidence on isolated carbonate platform evolution: Triassic of the Nanpanjiang basin, south China. *AAPG Bulletin*, 91, 287–320.
132. Ellwood, B.B., 2007. Low-Field magnetic susceptibility (MS) of sediments and sedimentary rocks: A general overview of active research areas. *Encyclopedia of Geomagnetism and Paleomagnetism*, Springer, pp. 566–572.
131. Thacker, P.T., Ellwood, B.B., 2007. Late Pleistocene paleoclimate and sediment magnetic susceptibility at Lapa dos Coelhos, Portugal. From the Mediterranean basin to the Portuguese Atlantic shore: *Papers in Honor of Anthony Marks*, Actas do IV Congresso de Arqueologia Peninsular, Ed. Nuno Ferreira Bicho, p.163–171.
130. Algeo, T.J., Hannigan, R., Rowe, H., Brookfield, M., Baud, A., Krystyn, L., Ellwood, B.B., 2007. Sequencing events across the Permian–Triassic boundary, Guryul Ravine (Kashmir, India). *Palaeogeography, Palaeoclimatology, Palaeoecology* 252, 328–346.
129. Algeo, T.J., Ellwood, B.B., Thoa, N.T.K., Rowe, H., Maynard, J.B., 2007. The Permo–Triassic boundary at Nhi Tao, Vietnam: Evidence for recurrent influx of sulfidic watermasses to a shallow-marine carbonate platform. *Palaeogeography, Palaeoclimatology, Palaeoecology* 252, 304–327.
128. Lehrmann, D.J., Jonathan L. Payne, J.L., Pei, D., Enos, P., Druke, D., Steffen, K., Zhang, J., Wei, J., Orchard, M.J., Ellwood, B., 2007. Record of the End Permian extinction and Triassic biotic recovery in the Chongzuo-Pinnguo Platform, southern Nanpanjiang Basin, Guangxi, south China. *Palaeogeography, Palaeoclimatology, Palaeoecology* 252, 200–217.
127. Luu Thi Phuong Lan, Ellwood B. B., Ta Hoa Phuong, 2007. Xac dinh ranh gioi F/F tren cac he tang da voi tai Xom Nha, Quang Binh bang phuong phap MSEC, Tap chi CKHVTĐ, Tap 29 (1), 30–37. *English translation*: Placement of the Frasnian–Famenian extinction event and boundary within the Xomnha section, middle Vietnam, using new biostratigraphic (conodont) and Magnetostratigraphic (susceptibility) data. *Journal of Earth Sciences* 29, 30–37 (in Vietnamese with English abstract).

126. Ellwood, B.B., Gose, W.L., 2006. Heinrich H1 and 8,200 Year B.P. Climate Events Recorded in Hall's Cave, Texas. *Geology* 34, 753–756.
125. Owsley, D.W., Ellwood, B.B., Melton, T., 2006. Search for the grave of William Preston Longley, hanged Texas Gunfighter. *Historical Archaeology* 40, 50–63.
124. Ellwood, B.B., García-Alcalde, J.L., El Hassani, A., Hladil, J., Soto, F.M., Truyóls-Massoni, M., Weddige, K., Koptikova, L., 2006. Stratigraphy of the Middle Devonian Boundary: Formal Definition of the Susceptibility Magnetostratotype in Germany with comparisons to Sections in the Czech Republic, Morocco and Spain. *Tectonophysics* 418, 31–49.
123. Brook, G.A., Ellwood, B.B., Railsback, L.B., Cowart, J.B., 2006. A 164 ka Record of Environmental Change in the American Southwest from a Carlsbad Cavern Speleothem. *Palaeogeography, Palaeoclimatology, Palaeoecology* 237, 483–507.
122. Ellwood, B.B., Balsam, W.L., Roberts, H.H., 2006. Gulf of Mexico Sediment Sources and Sediment Transport Trends from Magnetic Susceptibility Measurements of Surface Samples. *Marine Geology* 230, 237–248.
121. Schmitz, B., Ellwood, B.B., Peucker-Ehrenbrink, B., El Hassani, A., Bultynck, P., 2006. Platinum group elements and $^{187}\text{Os}/^{188}\text{Os}$ in a purported impact ejecta layer near Eifelian–Givetian stage boundary, Middle Devonian. *Earth and Planetary Science Letters* 249, 162–172.
120. Balsam, W., Ellwood, B.B., Ji, J., 2005. Direct correlation of the marine oxygen isotope record with Loess Plateau iron oxide and magnetic susceptibility records. *Palaeogeography, Palaeoclimatology, Palaeoecology* 221, 141–152.
119. Baena, J., Carrión, E., Ruiz, B., Ellwood, B., Sesé, C., Yravedra, J., Jordá, J., Uzquiano, P., Velázquez, R., Manzano, I., Sánchez-Marco, A., Hernández, F., 2005. Paleocología y comportamiento humano durante el Pleistoceno Superior en la comarca de Liébana: La secuencia de la Cueva de El Esquilleu (Occidente de Cantabria, España), Museo de Altamira. *MONOGRAFÍAS n° 20*: 461–487 (in Spanish with English abstract).
118. Ellwood, B.B., Benoist, S.L., El Hassani, A., Wheeler, C., Crick, R.E., 2004. Response to Comment on "Impact Ejecta Layer from the Mid-Devonian: Possible Connection to Global Mass Extinctions." *Science* 303, Technical Comment: 471; 471c: 1–2.
117. Thoa, N.T. K., Huyen, D.T., Ellwood, B.B., Lan, L.T.P., Truong, D.N., 2004. Determination of Permian–Triassic boundary in limestone formations from Northeast of Vietnam by paleontological and MSEC methods. *Journal of Sciences of the Earth* 26, 222–232 (in Vietnamese with an English abstract).
116. Ellwood, B.B., Harrold, F.B., Benoist, S.L., Thacker, P., Otte, M., Bonjean, D., Long, G.L., Shahin, A.M., Hermann, R.P., Grandjean, F., 2004. Magnetic Susceptibility Applied as an Age-Depth-Climate Relative Dating Technique Using Sediments from Scladina Cave, a Late Pleistocene Cave Site in Belgium. *J. archaeological Science* 31, 283–293.
115. Harrold, F., Ellwood, B., P. Thacker, P., Benoist, S., 2004. Magnetic susceptibility analysis of sediments at the Middle–Upper Paleolithic transition for two cave sites in northern Spain. ZILHÃO, J.; D'ERRICO, F. (eds.) *The Chronology of the Aurignacian and of the Transitional Technocomplexes. Dating, Stratigraphies, Cultural Implications, Trabalhos de Arqueologia* 33. Lisboa, Instituto Português de Arqueologia, 301–310.

114. Ellwood, B.B., Benoist, S.L., El Hassani, A., Wheeler, C., Crick, R.E., 2003. Impact Ejecta Layer from the Mid-Devonian: Possible Connection to Global Mass Extinctions. *Science* 300, 1734–1737.
113. Ellwood, B.B., MacDonald, W.D., Wheeler, C., Benoist, S.L., 2003. The K–T Boundary in Oman: Identified Using Magnetic Susceptibility Field Measurements with Geochemical Confirmation. *Earth Planetary Science Letters* 206, 529–540.
112. Thacker, P., Ellwood, B.B., and Pereira, C., 2002. Detecting Paleolithic Activity Areas Through Electrical Resistivity Survey: An Assessment from Vale de Obidos, Portugal. *Journal of Archaeological Science*, 29, 563–570.
111. Thoa, N. T. K., Ellwood, B.B., Ngan, P.K., Nam, V.H., and Lan, L. T. P., 2002, Determination of the Devonian–Carboniferous boundary in limestone formations from Cat Ba and Nui Voi using the MSEC Method, *Journal of Sciences of the Earth* (paper written in Vietnamese with an English abstract), 24, 56–66.
110. Crick, R.E., Ellwood, B.B., Feist, R., El Hassani, A., Schindler, E., Dreesen, R., Over, D.J., and Girard, C., 2002, Magnetostratigraphy susceptibility of the Frasnian/Famennian boundary. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 181, 67–90.
109. Thacker, P. and Ellwood, B.B., 2002. The magnetic susceptibility of cherts: archaeological and geochemical implications of source variation. *Geoarchaeology*, 17, 465–482.
108. Ellwood, B.B., Crick, R.E., Garcia–Alcalde Fernandez, J.L., Soto, F.M., Truyols–Massoni, M., El Hassani, A., and Kavas, E.J., 2001. Global correlation using magnetic susceptibility data from Lower Devonian rocks, *Geology*, 29, 583–586.
107. Ellwood, B.B., Harrold, F.B., Benoist, S.L., Straus, L.G., Gonzalez–Morales, M., Petruso, K., Bicho, N.F., Zilhão, Z., and Soler, N., 2001. Paleoclimate and Intersite Correlations from Late Pleistocene/Holocene Cave Sites: Results from Southern Europe, *Geoarchaeology*, v.16, 433–463.
106. Crick, R.E., Ellwood, B.B., El Hassani, A., Hladil, J., Hroudá, F., and Chlupac, I., 2001. Magnetostratigraphy Susceptibility of the Pridoli–Lochkovian (Silurian–Devonian) GSSP (Klonk, Czech Republic) and a Coeval sequence in Anti-Atlas Morocco, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 167, 73–100.
105. Ellwood, B.B., Crick, R.E., El Hassani, A., Benoist, S. and Young, R., 2000. MagnetoSusceptibility Event and Cyclostratigraphy applied to marine rocks: Detrital input versus carbonate productivity, *Geology*, 28, 1135 – 1138.
104. Ellwood, B.B., Villaverde, V., Benoist, S.L., Bernabeu, J., Harrold, F.B. and Thacker, P.T., 2000. A Test of the MSEC Method for Paleoclimate and Intersite Correlations from Late Pleistocene/Holocene Cave Sites in Southern Europe: Results from Cova de les Cendres, SE Spain "Espacio, Tiempo y Forma, Serie I, Prehistoria y Arqueología, 13, 141–159.
103. Crick, R.E., Ellwood, B.B., El Hassani, A., and Feist, R., 2000. Proposed Magnetostratigraphy Susceptibility Magnetostratotype for the Eifelian–Givetian GSSP (Anti-Atlas Morocco), *Episodes*, 23, 93–101.
102. Ellwood, B.B., Crick, R.E., and El Hassani, A., 1999. The MagnetoSusceptibility Event and Cyclostratigraphy (MSEC) Method Used in Geological Correlation of Devonian Rocks from Anti-Atlas Morocco, *American Association of Petroleum Geologists Bulletin*, 83, 1119–1134 (includes cover photo).
101. McPherron, S.P., Chase, P.G., Debenath, A., Dibble, H.L., Ellwood, B.B., 1999. The Fontechevade Fossils: A reanalysis of their archaeological context based on new excavations: *American Journal of Physical Anthropology*, Suppl. 28, 199.

100. Petrovsky, E. and Ellwood, B.B., 1999, Magnetic Monitoring of Air, Land and Water Pollution, Ch. 8 in Quaternary Climates, Environments and Magnetism, ed. Maher, B. and Thompson, R., Cambridge University Press, 279–322.
99. Harrold, F.B., Korkuti, M.M., Ellwood, B.B., Petruso, K.M., and Schuldenrein, J., 1999, The Paleolithic of Southernmost Albania, The Palaeolithic Archaeology of Greece and Adjacent Areas, Proceedings of the ICOPAG Conference, Ioannina (British School at Athens Studies 3), ed. G. Bailey, W., Adam, E., Panagopoulou, E., Perlés, C. and Zachos, K. (Editors), Chapter 34, 361–372.
98. Ellwood, B.B., Zilhão, J., Harrold, F.B., Balsam, W., Burkart, B., Long, G.J., Debénath, A., and Bouzouggar, A., 1998. Identification of the Last Glacial Maximum in the Upper Paleolithic of Portugal using magnetic susceptibility measurements of Caldeirão Cave sediments, *Geoarchaeology*, 13, 55–71.
97. Crick, R.E., Ellwood, B.B., El Hassani, A., Feist, R., and Hladil, J., 1997, MagnetoSusceptibility event and cyclostratigraphy (MSEC) of the Eifelian – Givetian GSSP and associated boundary sequences in North Africa and Europe, *Episodes*, 20, 167–175.
96. Ellwood, B.B., Petruso, K.M., Harrold, F.B., and Schuldenrein, J., 1997, High-Resolution Paleoclimatic Trends for the Holocene Identified Using Magnetic Susceptibility Data from Archaeological Excavations in Caves, *Journal of Archaeological Sciences*, 24, 569–573.
95. Owsley, D.W., Ellwood, B.B., and Richardson, M.L., 1997, 12 Locating and Excavating Historic Burials, IN REMEMBRANCE Archaeology and Death, eds. David Poirier and Nick Bellantoni, 201–217.
94. Dibble, H.L., Chase, P.G., Debenath, A., Ellwood, B.B., McPherron, S.P., 1997. New excavations at Fontechevade Cave (Charent, France): *Journal of Human Evolution*, 32, A6.
93. Ellwood, B.B., Petruso, K.M., and Harrold, F.B., 1997, The Utility of Magnetic Susceptibility for Detecting Paleoclimatic Trends and as a Stratigraphic Correlation Tool: An Example from Konispol Cave Sediments, SW Albania, *Journal of Field Archaeology*, 23, 263–271.
92. Ellwood, B.B., Petruso, K.M., Harrold, F.B., Korkuti, M., 1997. Paleoclimate characterization and intra-site correlation using magnetic susceptibility measurement: an example from Konispol Cave, Albania, *Journal of Field Archaeology*, v. 23, p. 263–271.
91. Korkuti, M., Petruso, K., Bejko, L., Ellwood, B., Hansen, J., Harrold, F., Russell, N., and S. Bottema, S., 1996, Shpella e Konispolit: Raport paraparak për gërmimet e viteve 1992–1994, *Iliria*, 26, 183–224 (with English summary).
90. Palmer, H.C., MacDonald, W.D., Gromme, CS and Ellwood, BB, 1996, Magnetic properties and emplacement of the Bishop tuff, California: *Bulletin of Volcanology*, v 58, no. 2–3, p. 101–116.
89. Ellwood, B.B. and Burkart, B., 1996, Chapter 7: Test of Hydrocarbon-Induced Magnetic Patterns in Soils: The Sanitary Landfill as Laboratory, in *Hydrocarbon Migration and its Near-Surface Expression*, ed. Schumacher, D. and Abrams, M. A., AAPG Memoir 66, Tulsa, OK, p.91–98.
88. Tuffreau, A., Antooine, P., Chase, P.G., Dibble, H.L., Ellwood, B.B., van Kolfschoten, T., Lamotte, A., Laurent, M., McPherron, S.P., Moigne, A.–M., Munaut, A.V., 1995, Le Gisement Acheuléen de Cagny–L'Épinette (Somme), *Bulletin de la Société Préhistorique Française*, 92, 169–191.

87. Ellwood, B.B., Peter, D.E., Balsam, W., and Schieber, J., 1995, Magnetic and Geochemical Variations as Indicators of Paleoclimate and Archaeological Site Evolution: Examples from 41TR68, Fort Worth, Texas, *Journal of Archaeological Science*, 22, 409–415.
86. Ellwood, B.B., Harrold, F.B. and Marks, A.E., 1994, Site identification and correlation using geoaerchological methods at the Cabeço do Porto Marinho (CPM) locality, Rio Maior, Portugal, *Journal of Archaeological Science*, 21, 779–784.
85. Petruso, K.M., Ellwood, B.B., Harrold, F.B., and Korkuti, M., 1994, Radiocarbon and archaeomagnetic dates from Konispol Cave, Albania, *Antiquities*, 68: 335–339.
84. Ellwood, B.B., Owsley, D.W., Ellwood, S.H., and Mercado–Allinger, P., 1994, Search for the grave of the notorious Texas outlaw William "Wild Bill" Longley, *Historical Archaeology*, 28, 94–112.
83. Ellwood, B.B., 1994, Research Note: A nomogram to evaluate time/cost, grid size and survey interval for archaeological investigations, *Geoarchaeology*, 9, 239–241.
82. Ellwood, B.B., Terrell, G.E. and Cook, W.J., 1993, Frequency dependence and the electromagnetic susceptibility tensor in magnetic fabric studies, *Physics of the Earth and Planetary Interiors*, 80, 65–74.
81. Schieber, J. and Ellwood, B.B., 1993, Determination of basinwide paleocurrent patterns in a shale succession from anisotropy of magnetic susceptibility (AMS): a case study of the mid-Proterozoic Newland Formation, Montana, *Journal of Sedimentary Petrology*, 63, 874–880.
80. Ellwood, B.B., MacDonald, W.D. and Wolff, J.A., 1993, The slot technique for rock magnetic sampling, *Physics of the Earth and Planetary Interiors*, 78, 51–56.
79. Ellwood, B.B., 1993, Magnetic properties of Argentine Basin Project MUDWAVE samples, *Deep Sea Research*, 40, 921–937.
78. Ellwood, B.B., Harrold, F.B., Petruso, K.M., and Korkuti, M., 1993, Electrical resistivity surveys as indicators of site potential: examples from a rock shelter in southwestern France and a cave in southern Albania, *Geoarchaeology*, 8, 217–227.
77. Ellwood, B.B. and Harrold, F.B. Jr., 1993, Unusual electrical resistivity effects associated with fast-growing trees, Rio Maior, Portugal, *Geoarchaeology*, 8, 157–162.
76. Brook, G. A., Burney, D. A., Cowart, J. B., and Ellwood, B. B., 1990, Present and former deserts: evidence of environmental change from cave sediments in East Africa and the American Southwest, *Studia Carsologica* 2, Publication of IGCP 252, 19–28.
75. MacDonald, W.D. and Ellwood, B.B., 1990, Comparison of magnetic and structural fabrics, Whipple Wash detachment structure, Whipple Wash, California, *Physics of the Earth and Planetary Interiors*, 64, 355–366.
74. Mims, C.V.H., Powell, C.A., and Ellwood, B.B., 1990. Magnetic susceptibility anisotropy of rocks in the Nutbush Creek ductile shear zone, North Carolina, *Tectonophysics*, 178, 207–223.
73. Ellwood, B.B., 1990, Electrical Resistivity Surveys in Two Historical Cemeteries, NE Texas: A Method for Delineating Unidentified Burial Shafts, *Historical Archaeology*, 24 (3) 91–98.
72. Darwin, R.L., Ferring, C.R., and Ellwood, B.B., 1990, Geoelectric stratigraphy and subsurface evaluation of Quaternary deposits at Cooper Basin, northeast Texas, *Geoarchaeology*, 5 (1) 53–79.
71. Ellwood, B.B., Stormer, J.C., Jr., and Whitney, J.A., 1989, Fish Canyon Tuff, Colorado: The problem of two magnetic polarities in a single tuff, *Physics of the Earth and Planetary Interiors*, 56, 329–336.

70. Jackson, M., Sprowl, D., and Ellwood, B., 1989, Anisotropies of partial anhysteretic remanence and susceptibility in compacted black shales: grain size- and composition-dependent magnetic fabric, *Geophysical Research Letters*, 16, 1063–1066.
69. Wolff, J.A., Ellwood, B.B., and Sachs, S.D., 1989, Anisotropy of magnetic susceptibility (AMS) in welded tuffs: Application to a welded-tuff dyke in the Tertiary Trans-Pecos Texas Volcanic Province, USA, *Bulletin of Volcanology*, 51, 299–310.
68. Ellwood, B.B., Burkart, B., Rajeshwar, K., Darwin, R.L., Neeley, R.A., McCall, A.B., Long, G.J., Buhl, M.L., and Hickcox, C.W., 1989, Are the iron carbonate minerals, ankerite and ferroan dolomite, like siderite, important in paleomagnetism? *Journal of Geophysical Research*, 94, 7321–7331.
67. Ellwood, B.B., Payne, J., and Long, G.J., 1989, The Rockwall, Texas: A study of unusual natural magnetic effects in geochronological surveys produced by mineral oxidation, *Geoarchaeology*, 4, 103–118.
66. Ellwood, B.B., 1989, Geophysical exploration for mineral deposits, in *Concise Encyclopedia of Mineral Resources*, edited by Carr, D.D. and Herz, N., Pergamon Press, Oxford, 147–151.
65. Ellwood, B.B., Chrzanowski, T.H., Hrouda, F., Long, G.J., and Buhl, M.L., 1988, Siderite formation in anoxic deep-sea sediments: a synergetic bacterially controlled process with important implications in paleomagnetism, *Geology*, 16, 980–982.
64. Schieber, J. and Ellwood, B.B., 1988, The coincidence between microscopic paleocurrent indicators and magnetic lineation in shales from the Precambrian Belt Basin, *Journal of Sedimentary Petrology*, 58, 830–835.
63. Sachs, S.D. and Ellwood, B.B., 1988, Controls on magnetic grain-size variations and concentrations in the Argentine Basin, South Atlantic Ocean, *Deep Sea Research*, 35, 929–942.
62. MacDonald, W.D. and Ellwood, B.B., 1988, Magnetic fabric of peridotite with intersecting petrofabric surfaces, Tinaquillo, Venezuela, *Physics of the Earth and Planetary Interiors*, 51, 301–312.
61. Schmidt, V.A., Ellwood, B.B., Nagata, T., and Noltimier, H.C., 1988, The measurement of anisotropy of magnetic susceptibility (AMS) using a cryogenic (SQUID) magnetometer and a comparison with results from a torsion-fiber magnetometer, *Physics of the Earth and Planetary Interiors*, 51, 365–378.
60. Ellwood, B.B., Hrouda, F. and Wagner, J.–J., 1988, Symposia on magnetic fabrics: Introductory comments, *Physics of the Earth and Planetary Interiors*, 51, 249–252.
59. Ellwood, B.B. and Crick, R.E., 1988, Paleomagnetism of Paleozoic asphaltic deposits in southern Oklahoma, USA, *Geophysical Research Letters*, 15, 436–439.
58. MacDonald, W.D. and Ellwood, B.B., 1987, Anisotropy of magnetic susceptibility: Sedimentological, igneous and structural-tectonic applications, *Reviews in Geophysics*, 25, 905–909.
57. Ellwood, B.B., McPherson, J.G., Sen Gupta, B.K. and Matthews, M., 1986, The proposed Eocene–Oligocene stratotype, SW Alabama: Not ideal due to magnetostratigraphic inconsistencies, *Palaios*, 1, 417–419.
56. Ellwood, B.B., Balsam, W., Burkart, B., Long, G.J. and Buhl, M.L., 1986, Anomalous magnetic properties in rocks containing the mineral siderite: Paleomagnetic implications, *Journal of Geophysical Research*, 91, 12,779–12,790.

55. Knight, M.D., Walker, G.P.L., Ellwood, B.B. and Diehl, J.F., 1986, Stratigraphy, paleomagnetism, and magnetic fabric of the Toba Tuffs: Constraints on the sources and eruptive styles, *Journal of Geophysical Research*, 91, 10,355–10,382.
54. Morrison, J. and Ellwood, B.B., 1986, Paleomagnetism of Silurian–Ordovician sediments from the Valley and Ridge Province, Northwest Georgia, *Geophysical Research Letters*, 13, 189–192.
53. Chernow, R.M., Frey, R.W. and Ellwood, B.B., 1986, Biogenic effects on development of magnetic fabrics in coastal Georgia sediments, *Journal of Sedimentary Petrology*, 56, 160–172.
52. Ellwood, B.B., 1986, Exploration for Deposits: Geophysical, in *Encyclopedia of Materials Science and Engineering*, edited by M.B. Bever, 1933–1937.
51. MacDonald, W.D. and Ellwood, B.B., 1985, Magnetic fabric and petrofabric of the Tinaquillo Peridotite: 6th Venezuelan Geologic Congress, Venezuelan Society of Geologists, Caracas, *Memoir IV*, 2470–2482.
50. McCabe, C., Jackson, M. and Ellwood, B.B., 1985, Magnetic anisotropy in the Trenton limestone: Results of a new technique, anisotropy of anhysteretic susceptibility, *Geophysical Research Letters*, 12, 333–336.
49. Ellwood, B.B., 1984. Bioturbation: some effects on remanent magnetization acquisition, *Geophysical Research Letters*, 11, 653–655.
48. Ellwood, B.B., 1984. Anisotropy of magnetic susceptibility data indicating remagnetization in diabase dikes, *Geophysical Research Letters*, 11, 101–104.
47. Ellwood, B.B., 1984. Magnetic fabric and remanence analyses of cores from the U.S. Continental Rise and the Vema Channel, *Marine Geology*, 58, 151–164.
46. Ellwood, B.B., 1984. Reply to comment on "Bioturbation: Minimal effects on the magnetic fabric of natural and experimental sediments", *Earth and Planetary Science Letters*, 71, 351–352.
45. Ellwood, B.B., 1984. Bioturbation: Minimal effects on the magnetic fabric of natural and experimental sediments, *Earth and Planetary Science Letters*, 67, 367–376.
44. Ellwood, B.B., and S.G. Pemberton, 1984. Some magnetic properties of Athabasca Oil Sand samples, Alberta, Canada, *Canadian Journal of Earth Sciences*, 21, 278–283.
43. Ellwood, B.B., 1984. Anisotropy of magnetic susceptibility: empirical evaluation of instrumental precision, *Geophysical Research Letters*, 11, 645–648.
42. Ellwood, B.B., 1983. Missing references on GEOf ref search lists, *Journal of Geological Education*, 31, 322–324.
41. Davison, F.C., Jr. and Ellwood, B.B., 1983. Thermomagnetic characteristics in late orogenic granites and gneisses of the southern Appalachian Piedmont, *Earth and Planetary Science Letters*, 64, 177–182.
40. Ledbetter, M.T and Ellwood, B.B., 1982. 133. Variations in particle alignment and size in sediments of the Vema Channel record Antarctic Bottom-Water velocity changes during the last 400,000 years. Ed. Craddock, C., *Antarctic Geoscience, Part XI: Marine Geology*, 1033–1038.
39. Ellwood, B.B., 1982. Paleomagnetic evidence for the continuity and independent movement of a distinct major crustal block in the southern Appalachians, *Journal of Geophysical Research*, 87, 5339–5350.
38. Ellwood, B.B., 1982. Estimates of flow direction for calc-alkaline welded tuffs and paleomagnetic data reliability from anisotropy of magnetic susceptibility measurements:

- central San Juan Mountains, southwest Colorado, *Earth and Planetary Science Letters*, 59, 303–314.
37. Ellwood, B.B. and Abrams, C., 1982. Magnetization of the Austell gneiss, N.W. Georgia Piedmont, *Journal of Geophysical Research*, 87, 3033–3043.
 36. Bulfinch, D.L., Ledbetter, M.T., Ellwood, B.B. and Balsam, W.L., 1982. The high velocity core of the Western Boundary Undercurrent at the base of the U.S. Continental Rise, *Science*, 215, 970–973.
 35. Ciesielski, P.F., Ledbetter, M.T. and Ellwood, B.B., 1982. The development of Antarctic glaciation and the Neogene paleoenvironment of the Maurice Ewing Bank, Antarctic, *Marine Geology*, 46, 1–51.
 34. Ellwood, B.B., 1981. Weathering effects on the magnetic properties of the Milledgeville granite, Georgia, *Earth and Planetary Science Letters*, 55, 311–316.
 33. Ellwood, B.B. and Wenner, D.B., 1981. Correlation of magnetic susceptibility and oxygen isotopic values in late orogenic granites of the southern Appalachian Piedmont, *Earth and Planetary Science Letters*, 54, 200–202.
 32. Ellwood, B.B. and Howard, J.F., III, 1981. Magnetic fabric development in an experimentally produced barchan dune, *Journal of Sedimentary Petrology*, 51, 97–100.
 31. Ledbetter, M.T. and Ellwood, B.B., 1980. Spatial and temporal changes in bottom water velocity from analysis of particle size and alignment in deep-sea sediment, *Marine Geology*, 38, 245–261.
 30. Ellwood, B.B., 1980. Induced and remanent properties of marine sediments as indicator of depositional processes, *Marine Geology*, 38, 233–244.
 29. Ellwood, B.B., Whitney, J.A., Wenner, C.B., Mose, D., and Amerigian, C., 1980. Age, paleomagnetism, and tectonic significance of the Elberton granite, Northeast Georgia Piedmont, *Journal of Geophysical Research*, 85, 6521–6533.
 28. Ellwood, B.B., Stormer, J.C., Jr., Wenner, D.B., Whitney, J.A., and Reuter, J.A., 1980. A discussion of the hydrocarbon potential of rocks underlying the southern Appalachian Piedmont Allochthon, *Geology*, 8, 205–206.
 27. Reply to: Comment on discussion of the hydrocarbon potential of rocks underlying the southern Appalachian
 26. Ellwood, B.B. and Whitney, J.A., 1980. Magnetic fabric of the Elberton granite, N.E. Georgia, *Journal of Geophysical Research*, 85, 1481–1486.
 25. Ellwood, B.B., 1980. Application of the anisotropy of magnetic susceptibility method as an indicator of bottom-water flow direction, *Marine Geology*, 34, 783–790.
 24. Ellwood, B.B., Ledbetter, M.T., and Johnson, D.A., 1979. Sedimentary fabric: a tool to delineate a high-velocity zone within a deep western Indian Ocean bottom current, *Marine Geology*, 33, M51–M55.
 23. Ellwood, B.B., 1979. Sample shape and magnetic grain sizes: Two possible controls on the anisotropy of magnetic susceptibility variability in deep-sea sediments, *Earth and Planetary Science Letters*, 43, 309–314.
 22. Ellwood, B.B., 1979. Particle flocculation: one possible control on the magnetization of deep-sea sediments, *Geophysical Research Letters*, 6, 237–240.
 21. Ellwood, B.B., 1979. Magnetic susceptibility anisotropy measurements of coal from the South Wales Coal Field: A coalification process indicator, *Geophysical Journal*, 57, 431–443.

20. Ellwood, B.B. and Ledbetter, M.T., 1979. Paleocurrent indicators in deep-sea sediment, *Science*, 103, 1335–1337.
19. Ellwood, B.B., 1979. Anisotropy of magnetic susceptibility variations in Icelandic columnar basalts, *Earth and Planetary Science Letters*, 42, 209–212.
18. Ellwood, B.B. and Watkins, N.D., 1978. Experimental emplacement mode determination on basalt in Hole 396B, in *Initial Reports of the Deep Sea Drilling Project*, XLVI, 363–367.
17. Ellwood, B.B., 1978. Flow and emplacement direction determined for selected basaltic bodies using magnetic susceptibility anisotropy measurements, *Earth and Planetary Science Letters*, 41, 254–265.
16. Marino, R.J. and Ellwood, B.B., 1978. Anomalous magnetic fabric in sediments which record an apparent geomagnetic field excursion, *Nature*, 274, 581–582.
15. Ellwood, B.B. and Noltimier, H.C., 1978. Anisotropy of magnetic susceptibility measurements as a coal banding-plane indicator, *Nature*, 274, 353–354.
14. Ledbetter, M.T., Williams, D.F. and Ellwood, B.B., 1978. Late Pliocene climate and SSW Atlantic abyssal circulation, *Nature*, 272, 237–239.
13. Ellwood, B.B., 1978. Measurement of anisotropy of magnetic susceptibility: A comparison of the precision of torque and spinner magnetometer systems for basaltic specimens, *Journal of Physics E: Scientific Instruments*, 11, 71–75.
12. Ellwood, B.B. and Ledbetter, M.T., 1977. Antarctic Bottom Water fluctuation in the Vema Channel: effects of velocity changes on particle alignment and size, *Earth and Planetary Science Letters*, 35, 189–198.
11. Ellwood, B.B. and Fisk, M.R., 1977. Anisotropy of magnetic susceptibility variations in a single Icelandic columnar basalt, *Earth and Planetary Science Letters*, 35, 116–122.
10. Ellwood, B.B. and Watkins, N.D., 1977. Some magnetic properties of specimens from Holes 332B, 334, 335 and corresponding analysis in terms of emplacement mode, in *Initial Reports of the Deep Sea Drilling Project*, XXXVII, 511–514.
9. Ellwood, B.B. and Watkins, N.D., 1976. Comparison of observed intrusive and extrusive ratios in Iceland and the Troodos Massif with experimental emplacement mode analysis of DSDP igneous rocks, *Journal of Geophysical Research*, 81, 4152–4156.
8. Ellwood, B.B. and Watkins, N.D., 1976. Characterization of emplacement mode of basalt in Hole 319A and Site 321, in *Initial Reports of the Deep Sea Drilling Project*, XXXIV, 495–499.
7. Vella, P., Ellwood, B.B., and Watkins, N.D., 1975. Surface water temperature changes in the southern ocean southwest of Australia during the last one million years, *Special Bull. Roy. Soc. N.Z., Quaternary studies: A selection of papers presented at the IX INQUA congress*, New Zealand, 1973, 13, 197–209.
6. Ellwood, B.B., 1975. Analysis of emplacement mode in basalt from DSDP Holes 319A and 321 using anisotropy of magnetic susceptibility, *Journal of Geophysical Research*, 80, 4805–4808.
5. Amerigian, C., Watkins, N.D., and Ellwood, B.B., 1974. Brunhes epoch geomagnetic secular variation on Marion Island: Contribution to evidence for long term regional geomagnetic variation maximum, *Journal of Geomagnetism and Geoelectricity*, 26, 429–441.
4. Huang, T.C., Ellwood, B.B., and Hanumara, R.C., 1974. Multivariate discriminant analysis of Sub-antarctic deep-sea sediments, *Bulletin of Geological Society of America*, 84, 1821–1824.

3. Ellwood, B.B., Watkins, N.D., Amerigian, C., and Self, S., 1973. Geomagnetic secular variation of Terceira Island, central North Atlantic, *Journal of Geophysical Research*, 78, 8699–8710.
2. Swift, C. and Ellwood, B.B., 1972. *Hypsocephalus Atlanticus*, a new genus and species of Lutjanid fish from marine Eocene limestones of northern Florida, *Contributions in Science*, 230, 1–29.
1. Ellwood, B.B., 1971. An archeomagnetic measurement of the age and sedimentation rate of Climax Cave sediments, southwest Georgia, *American Journal of Science*, 271, 304–310.

Monograph Chapters

- 2009 Ellwood, B.B., 2009. Chapter 4: Paleoclimate delineation using Magnetic Susceptibility data: In *Monograph on Fontéchevade Cave*. In: *The Cave of Fontéchevade: Recent Excavations and their Paleoanthropological Implications*, Editors, Philip G. Chase, André Debénath, Harold L. Dibble, and Shannon P. McPherron, Cambridge University Press, p. 87–94.
- McPherron, S.P., and Ellwood, B.B., 2009. Chapter 5: Electrical resistivity survey of Fontéchevade: In *Monograph, Fontéchevade Cave*: In: *The Cave of Fontéchevade: Recent Excavations and their Paleoanthropological Implications*, Editors, Philip G. Chase, André Debénath, Harold L. Dibble, and Shannon P. McPherron, Cambridge University Press, p. 95–102.
- Ellwood, B.B., 1995, Electrical resistivity and magnetic susceptibility measurements at Combe-Capelle, SW France, The Middle Paleolithic Site of Combe-Capelle Bas (France), Harold L. Dibble and Michel Lenoir, eds., *University Museum Monograph 91*, The University Museum, University of Pennsylvania, p. 193–198.

E-book

- 2017 Ellwood, B.B., *Physical Geology, with emphasis on America's National Park Area*, 2nd Ed., Kendall Hunt.

Refereed Textbook

- 1996 Ellwood, B.B., *Geology and America's National Park Areas*, Prentice Hall, 373 pp.

Other

- 2010 El Hassani, A., Ellwood, B.B., 2010. *The Magnetostratigraphy Susceptibility for Lowermost Lower Devonian to Uppermost Middle Devonian Marine Rocks: Eastern Anti Atlas, Morocco*, University Press, Rabat, Morocco.
- 1993 *Special Consultant Science and Technology*, 1993, The American Heritage College Dictionary, Third Edition, Houghton Mifflin Company, Boston, pp. 1630.

Video Programs

- 1998 Ellwood, B.B., 1998. *Geology of the National Parks Distance Education Course*, taught at UT Arlington from 1998–2000.
- 1992 Pratt, C. and Ellwood, B.B., 1992. *The Search for 'Wild Bill' Longley: Texas Outlaw*; 11 minutes, aired on UTA Today, Dallas-Fort Worth metro area.

- 1988 Pratt, C. and Ellwood, B.B., 1988. Applied Geoaerchology, aired 1989, PBS Channel 2, Dallas-Fort Worth metropolitan area, UT Arlington Television, 20 minutes; invited and shown nationally and internationally; featured in National Park Service pamphlets.

International Training Sessions

- 2009 Ellwood, B.B., Magnetic Susceptibility: Instruments, units, standardization and various approaches for using MS data sets for correlation: IGCP 580 - Magnetic Susceptibility Correlations and Paleoenvironments, Liege, Belgium.
- 1996 Instructor, International Summer School, Magnetic Fabric of Rocks: A Marker for Sedimentary, Magmatic and Deformation Structure, Varazza, Italy.

International Field Trip Leader with Papers

- 1999 Ellwood, B.B., El Hassani, A., and Crick, R.E., The MSEC signature for the latest Pridoli through Dalejan at Jbel Issoumour (Ma'der Basin): Moroccan Meeting of the Subcommittee on Devonian Stratigraphy (SDS) – IGCP 421 April 24th – May 1st Excursion Guidebook, p. 71–74.
- 1999 Crick, R.E., Ellwood, B.B., and El Hassani, A., High-resolution MSEC chronocorrelation among Tafilalt Eifelian – Givetian boundary sequences: Moroccan Meeting of the Subcommittee on Devonian Stratigraphy (SDS) – IGCP 421 April 24th – May 1st Excursion Guidebook, p. 63–70.

Published Book Reviews

- 1998 Ellwood, B.B., Geological Methods for Archaeology. Norman Herz and Ervan G. Garrison. Oxford University Press, in Society for Archaeological Sciences Bulletin, 21, p. 26-27.
- 1998 Ellwood, B.B., Ground-Penetrating Radar: An Introduction for Archaeologists. Lawrence B. Conyers and Dean Goodman. Walnut Creek, Calif.: Altamira Press, 1997, in Journal of Anthropological Research, 54, p. 421-422.

Papers and Book Chapters (non-refereed) and Extended Abstracts

- 2010 El Hassani, A. and Ellwood, B.B., 2010. The magnetostratigraphy susceptibility for lowermost Lower Devonian to uppermost Middle Devonian marine rocks: Eastern Anti Atlas, Morocco, Contributions to Science, Moroccan, pp. 18.
- 2009 Clark, S., Day, J., Ellwood, B.B., Rowe, H., Tomkin, J., 2009. Astronomical tuning of integrated Upper Famennian-Early Carboniferous faunal, carbon isotope and high resolution magnetic susceptibility records: Western Illinois Basin, Subcommittee on Devonian Stratigraphy, Newsletter No. 24., Bectker R.T., Editor, 27-35.
- 2007 Ellwood, B.B., 2007. Norman D. Watkins: A brief biography. Encyclopedia of Geomagnetism and Paleomagnetism, Springer, p. 992-993.
- 2003 Owsley, D. W., Ellwood, B.B., and Melton, T., 2003. Search for the grave of William Preston Longley, hanged Texas gunfighter, Final Report, Texas Antiquities Commission, Austin, Texas, 28 pp.
- 2001 Crick, R.E., Ellwood, B.B., Over, J., Feist, R., Gerard, C., 2001, Magnetostratigraphy susceptibility of the Frasnian/Famennian boundary (Upper Devonian) in southern Oklahoma and its relationship to the type area in southern France: Circular 102. Proceedings of the 34th Forum on the Geology of Industrial Minerals, 1998, Kenneth S.

- Johnson, ed., Proceedings of a meeting held May 2-6, 1998, in Norman, Oklahoma, hosted by the Oklahoma Geological Survey, 71-82.
- 2000 Ellwood, B.B., Harrold, F.B. and Benoist, S.L., 2000. The Magneto-Susceptibility Event and Cyclostratigraphy (MSEC) Method used for paleoclimatic estimates and correlations at archaeological sites in Europe: Results for the Middle and Upper Paleolithic, *Geolines*, 11 170-172.
- Hladil, J., Pruner, P., Ellwood, B.B. and Jansa, L.F., 2000. Gamma spectrometric and magnetosusceptibility logs from the Frasnian platform limestones (Moravia): indications of their large correlation potential, International Meeting of IGCP 421 Project, Evora, Portugal.
- 1999 McPherron, S., Chase, P.G., Debénath, A., Dibble, H.L., and Ellwood, B.B., 1999. The Fontéchevade fossils: A reanalysis of their archaeological context based on new excavations, annual meeting Am. Assoc. Physical Anthro., Columbus, Ohio, 4pp.
- 1995 Ellwood, B.B., 1995, Searching for the grave of hanged Texas gunfighter William Preston Longley, *Fronteras*, 4, 3-4.
- 1994 Crick, R.E., Ellwood, B. and El Hassani, A., 1994. Integration of biostratigraphy, magnetic susceptibility, & relative sea-level change: a new look at high resolution correlation, *Subcommission on Devonian Stratigraphy Newsletter*, 11, 59-66.
- Petruso, K.M., Harrold, F.B., Ellwood, B.B., and Korkuti, M., 1994, The Konispol Cave: New Light on the Paleolithic of Southern Albania; presented at the First International Conference on the Paleolithic of Greece and Adjacent Areas, Ioannina, 20pp.
- Ellwood, B.B. and Burkart, B., 1994, A test of hydrocarbon induced magnetic patterns in soils, AAPG Hedberg Research Conference, "Near-surface Expression of Hydrocarbon Migration", Vancouver BC, ed. Schumacher, D. and Abrams, M., invited extended abstract, pp 5.
- Owsley, D.W., Ellwood, B.B., and Mercado-Allinger, P.A., 1994. The search for the grave of William Preston Longley: Giddings Cemetery (41LE132), Lee County, Texas, Technical Report to the Texas Historical Commission, Texas Antiquities Permit No. 1083, pp. 104.
- 1993 Fields, et al., with contributions by Dering, J.P., Derrick, S.M., Ellwood, B.B., Gardner, K.M., Steele, D.G., and Yates, B.C., 1993, Excavations at the Tick, Spike, Johns Creek, and Peerless Bottoms sites, Cooper Lake Project, Delta and Hopkins counties, Texas, Reports of Investigations, No. 91, Technical Report Submitted to the US Army Corps of Engineers, 424p.
- Tarling, D.H., Hrouda, F., Ellwood, B.B., Osipov, J.B., Kafafy, A.M., Henry, B., and Chlupacova, M., 1993, Chapter 4: Primary fabrics in sedimentary and igneous rocks, in *The Magnetic Anisotropy of Rocks*, by Tarling and Hrouda, Chapman & Hall, London, 95-127.
- Tarling, D.H., Hrouda, F., Ellwood, B.B., and Stephenson, A., 1993, Chapter 2: Minerals and the magnetic properties of rocks, in *The Magnetic Anisotropy of Rocks*, by Tarling and Hrouda, Chapman & Hall, London, 29-64.
- Tarling, D.H., Hrouda, F., Stephenson, A., Ellwood, B.B., Shive, P.N., Jackson, M.J., and Urrutia-Fucugauchi, J., 1993, Chapter 1: Physical and Theoretical Background, in *The Magnetic Anisotropy of Rocks*, by Tarling and Hrouda, Chapman & Hall, London, 1-29.
- 1992 Klein, T.H., with contributions from Pickens, S., Lautzenheiser, L., and Ellwood, B.B., 1992, Phase II archaeological testing Estill Farmstead, site 41TR126, runway 16/34 west,

- Dallas/Fort Worth International Airport, Tarrant County, Texas; Technical Report Submitted to Dallas/Fort Worth International Airport and Federal Aviation Administration.
- Gadus, et al., with contributions by Yates, B.C., Dering, J.P. and Ellwood, B.B., 1992, Archeological investigations at 41DT11, 41DT21, 41DT50, 41DT54, and 41DT63 at Cooper Lake, Delta County, Texas, Reports of Investigations, No. 86, Technical Report Submitted to the US Army Corps of Engineers, 127p.
- 1989 Carlson, S.B., with contributions by Ellwood, B., Gearhart, R.L., II, Prouty, L., 1989, Archeological testing at the Jefferson Wharf site (41MR73) Marion County, Texas, Archeological Research Laboratory, Texas A&M University, Reports of Investigations, No. 9, pp. 61.
- 1987 Peter, D.E., Ellwood, B.B., Schieber, J., and Yates, B., 1987, Test excavations of the River Bend Site (41TR68), Technical Report Submitted to the US Army Corps of Engineers, pp. 46.
- 1982 Ledbetter, M.T. and Ellwood, B.B., 1982, Variations in particle alignment and size in sediments of the Vema Channel record Antarctic Bottom-Water velocity changes during the last 400,00 years, in Antarctic Geoscience, edited by C. Craddock, University of Wisconsin Press, Madison, 1033-1038.
- 1981 Ciesielski, P.F., Ledbetter, M.T., and Ellwood, B.B., 1981, Growth of the Antarctic ice sheets and the Neogene paleoenvironment of the Maurice Ewing Bank, Antarctic Journal, 16, 114-117.
- 1980 Wenner, D.B. and Ellwood, B.B., 1980, Studies of the formation of subglacially formed volcanoes in Iceland using paleomagnetic methods, in Lunar Planetary Science XI, 1236-1238.
- Whitney, J.A., Ellwood, B.B., Stormer, J.C., Jr., and Wenner, D.B., 1980, Tectonic development of the Elberton area: including interpretation of the COCORP reflection profile, in Geological, Geochemical, and Geophysical Studies of the Elberton Granite, Eastern Georgia, ed. by Stormer, J.C., Jr., and Whitney, J.A., 80-97.
- Ellwood, B.B., 1980, Magnetization of the Elberton Granite, in Geological, Geochemical, and Geophysical Studies of the Elberton Granite, Eastern Georgia, edited by Stormer, J.C., Jr., and Whitney, J.A., 80-97.
- 1978 Howard, J.H. III and Ellwood, B.B., 1978, Application of anisotropy of magnetic susceptibility measurements to transport mechanism on planetary surfaces, NASA Technical Mem. TM X-79729.
- 1973 Ellwood, B.B., and Watkins, N.D., 1973, Anisotropy of magnetic susceptibility and emplacement of submarine igneous rocks, EOS (Trans. Am. Geophysical Union), 54, 985-986.