

DENNIS V. KENT

Earth & Planetary Sciences
Rutgers University
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EDUCATION

1968 B.Sc. (Geology) City College of New York, NY
1974 Ph.D. (Marine Geology & Geophysics) Columbia University, NY
2005 Docteur honoris causa, Sorbonne, Universities of Paris-IPGP

APPOINTMENTS

2007– Board of Governors Professor of Earth & Planetary Sciences, Rutgers University
2003 Gastprofessor, Institut für Geophysik, ETH, Zürich (also in 1982 and 1987)
2003 Visiting Scholar, Scripps Institution of Oceanography, UCSD, La Jolla, CA
1998– Professor II, Department of Geological Sciences, Rutgers University
1999– Adjunct Senior Research Scientist, Lamont-Doherty Earth Observatory
1993 Director of Research, Lamont-Doherty Earth Observatory
1989–90 Interim Director, Lamont-Doherty Earth Observatory
1987–89 Associate Director for Oceans & Climate, Lamont-Doherty Earth Observatory
1987–98 Adjunct Professor, Dept. of Earth & Environmental Sciences, Columbia University
1984–99 Doherty Senior Scientist, Lamont-Doherty Earth Observatory
1981–87 Adjunct Associate Professor, Dept. of Geological Sciences, Columbia University
1979–84 Senior Research Scientist, Lamont-Doherty Earth Observatory
1974–79 Research Associate, Lamont-Doherty Earth Observatory, Columbia University

PRINCIPAL RESEARCH INTERESTS

Paleomagnetism, geomagnetism and rock magnetism, and their application to geologic problems. Current interests include Cenozoic and Mesozoic magnetostratigraphy and geomagnetic polarity time scales; paleoclimatology, paleogeography and tectonics of the Pangea supercontinent; paleofield intensity variations; and the magnetic recording properties of sediments, oceanic basalts, and polar ice.

HONORS

William Gilbert Award, American Geophysical Union (2009)
Petrus Peregrinus Medal, European Geosciences Union (2006)
Member, U.S. National Academy of Sciences (2004)
Board of Trustees Award for Excellence in Research, Rutgers University (2004)
Arthur L. Day Medal, Geological Society of America (2003)
Vening Meinesz Medal, Delft University, Holland (2003)
Fellow of the American Association for the Advancement of Science (1993)
Fellow of the American Geophysical Union (1991)
Fellow of the Geological Society of America (1985)
Original Member, ISI Highly Cited Researchers <<http://isihighlycited.com/>>; see also
<http://www.sciencewatch.com/nov-dec2001/sw_nov-dec2001_page1.htm>
Listed in Who's Who, Dictionary of International Biography, American Men and Women of Science.

PROFESSIONAL AFFILIATIONS & SERVICE

Advisory Board, Earth and Planetary Science Letters (2010-).

American Geophysical Union: President-elect and President, Geomagnetism and Paleomagnetism Section (1992–96); Edward A. Flinn III Award Committee (Chair, 1992–94); Fellows Committee (1992–94; 1998–2000; Chair, 2000–2002).

Associate Editor: Journal of Geophysical Research (1981–83), Geophysical Research Letters (1984–87), Paleocyanography (1989–1996), Terra Nova (1997–1999), *G³* (1999–2005).

Cooperative Institute for Deep Earth Research (CIDER), Steering Committee (2003–2006).

Geological Society of America: Arthur L. Day Medal Committee (2004–2007).

Institute for Rock Magnetism (Minnesota), Review and Advisory Committee (1994–1999).

IODP Management International (IODP-MI): Board of Governors, Executive Committee (2003–2007), Alternate (2007-); 2nd Triennium Review Committee (2010).

Joint Oceanographic Institutions (JOI): Board of Governors (1989–90; 1993; 1999–2007; Vice Chair, 2002–2004; Chair, 2004–2006).

Joint Oceanographic Institutions for Deep Earth Sampling (JOIDES): COSOD Working Group IV (1981); Ocean History Panel (1987–90); Executive Committee (1989–90; 1993; 1999–2003); COMPOST-II (1996–97); Extreme Climates Program Planning Group (1998–2000).

National Research Council: Committee on the Importance of Deep-Time Geologic Records for Understanding Climate Change Impacts (2007–2011).

National Science Foundation, EAR Instrument & Facilities Panel (2001–2002).

Rutgers University: Appointments and Promotions Committee (2007-); Research Council (2010-).

Subcommission on Triassic Stratigraphy (ICS/IUGS), Voting Member (2001-).

Subcommission on Neogene Stratigraphy (ICS/IUGS), Voting Member (1996-).

U.S. Continental Scientific Drilling Program, Forum Organizing Committee (1993–1995).

Visiting Committee, Department of Earth & Planetary Sciences, Harvard University (2003–2005).

Proposal reviewer for American Chemical Society (PRF), DOE, Guggenheim Foundation, Int. Science Foundation, NERC (UK), National Geographic Society, NASA, NSF, NSERC (Canada).

INVITED TALKS

UMass-Amherst; CUNY-Queens, Scripps Institution of Oceanography, Brown, University of Rhode Island, Institute of Geology-Beijing, Institute of Geology and Paleontology-Nanjing, Lehigh, Servicio Nacional de Geología y Minería-Santiago (Chile), Woods Hole Oceanographic Institution (Conoco Distinguished Lecturer, 1983), Rutgers, University of Marseille-France, University of Cincinnati, University of Michigan (Turner/Conoco Distinguished Lecturer, 1985), Syracuse, Pennsylvania State, University of Delaware, Florida International, Northwestern, Cornell, Franklin and Marshall College, Utrecht-Holland. 2001: University of Wyoming (Distinguished Lecturer). 2003: Ludwig-Maximilians-Universität München, University of Milan-Italy, ETH-Zurich, UCSD Scripps Institution of Oceanography, Delft-Holland (Vening Meinesz Lecture). 2004: Tohoku-Japan, ETH-Zurich, University of Minnesota, SUNY Stony Brook, GFZ-Potsdam, LDEO. 2005: University of Bremen, IPG-Paris, University of Florida, MIT. 2006: Yale, Braunschweig, Ludwig-Maximilians-Universität München, LDEO. 2008: Brown, LDEO, Institute of Geology & Geophysics-Beijing (Lecture Series), Rice, Texas A&M, Princeton, Harvard. 2009: Florida International, Rutgers, Stony Brook. 2010: Yale, University of Padova (Arduino Lecture), CUNY-Brooklyn.

Penrose Conferences at Cambridge (England), Helen, Georgia (U.S.), Marseille (France), Graz (Austria). Meetings of the American Geophysical Union, Geological Society of America, Joint Oceanographic Assembly, Geological Society of London, Geological Society of Australia, United Kingdom Geophysical Assembly, Royal Society, European Geophysical Society, European Geophysical Union.

Ph.D. COMMITTEES**Department of Earth and Environmental Sciences, Columbia University:**

- 1982 D. Prothero (Reader): Magnetostratigraphy and Mammalian Biostratigraphy: Testing the Isochroneity of Mammalian Biostratigraphic Events.
- 1983 L. Tauxe (Academic & Research Advisor): Rock Magnetism and Paleomagnetism of Miocene Fluvial Sediments in Northern Pakistan.
- 1983 J.J. Flynn (Reader): Correlation and Geochronology of Middle Eocene Strata from the Western United States.
- 1983 M.J. Khan (Academic Advisor): Magnetostratigraphy of Neogene and Quaternary Siwalik Group Sediments of the Trans-Indus Salt Range, Northwestern Pakistan.
- 1983 S. Marshak (Reader): Aspects of Deformation in Carbonate Rocks of Fold-thrust Belts of Central Italy and Eastern New York State.
- 1984 D.J. Spasiolu (Academic & Research Advisor): Paleomagnetic Investigations of Northern Appalachian Terrane History during the Middle to Late Paleozoic.
- 1984 B.M. Clement (Academic & Research Advisor): Details of Geomagnetic Polarity Transitions as Recorded in Deep-Sea Sediments.
- 1988 J.D. Miller (Academic & Research Advisor): Paleomagnetism Applied to Tectonic Problems in the Appalachians of North America.
- 1989 A.M. Grunow (Research Advisor): Aspects of the Evolution of the West Antarctic Margin of Gondwanaland.
- 1989 C.A. Raymond (Academic Advisor): Satellite Elevation Magnetic Anomalies and Their Use in Tectonic Studies.
- 1989 D.A. Schneider (Academic & Research Advisor): Time-Averaged Paleomagnetic Field of the Plio-Pleistocene from Deep-Sea Sediments.
- 1991 W.K. Witte (Academic & Research Advisor): Paleomagnetism of Late Triassic and Earliest Jurassic Rocks of the Newark Basin: Paleomagnetic Poles and Magnetostratigraphy.
- 1992 M.C. Van Fossen (Academic & Research Advisor): Studies in Jurassic Through Cretaceous North American Apparent Polar Wander.
- 1993 K. Kane (Reader): Long-Lived Segmentation of the Mid-Ocean Ridge.
- 1995 V. DiVenere (Academic & Research Advisor): Paleomagnetic Results from Marie Byrd Land, West Antarctica: Tectonic Implications for West Antarctica and the Atlantic-Pacific Plate Circuit.
- 1995 D. Bryant (Reader): Oxygen Isotope Systematics in Mammalian Body Water and in Modern and Fossil Equid Tooth Enamel Phosphate.
- 1999 P.M. LeTourneau (Research Advisor): Depositional History and Tectonic Evolution of Late Triassic Age Rifts of the U.S. Central Atlantic Margin: Results of an Integrated Stratigraphic, Structural, and Paleomagnetic Analysis of the Taylorsville and Richmond Basins.
- 2000 L. Sohl (Research Advisor): Paleoclimatology of the Neoproterozoic Interglacial to Marinoan Glacial Succession (~650-675 Ma), Central Flinders Ranges, South Australia.
- 2006 S. H. Zimmerman (Research Advisor): Chronology and Paleoclimate Records of the Late Pleistocene Wilson Creek Formation at Mono Lake, California Lake.
- 2008 G. Downing (Reader): Investigating the onset of Hudson Strait Heinrich Events in the Late Pleistocene.

Department of Geological Sciences, Rutgers University:

- 2002 B.S. Cramer (Research Advisor): Milankovitch versus the comet: cyclic and catastrophic climate forcing at the Paleocene/Eocene boundary.
- Current M. Schaller (Academic & Research Advisor): Paleosol estimates of the atmospheric CO₂ effect of the Early Jurassic CAMP Large Igneous Province
- Current H. Wang (Academic & Research Advisor): Mean geomagnetic paleointensities for the last 5 Ma obtained from equatorial regions using various techniques

External Committees:

- 1981 T. Onstott (Princeton University): Paleomagnetism of the Guyana Shield, Venezuela and Its Implication Concerning Proterozoic Tectonics of South America and Africa.
- 1986 J. Besse (IPG Paris): Cinematiques des Plaques et Derive des Poles Magnetiques: Evolution de la Tethys, Collisions Continentals et Couplage Noyeau-Manteau.
- 1987 D.N. Douglass (Dartmouth College): Geology and Paleomagnetism of Three Old Red Sandstone Basins: Spitsbergen, Norway and Scotland.
- 1988 Z.X. Li (Macquarie University): Palaeozoic Paleomagnetism of Australia: Tectonic Significance and Comparison with South China
- 1990 C.A. Burns (University of Delaware): The Australasian Microtektite Layer: Implications concerning its source area and its relationship to the Brunhes/Matuyama geomagnetic reversal.
- 1993 Z. Chen (University of Western Australia): Late Devonian-Early Carboniferous Palaeomagnetism of Australia and Tectonic Significance.
- 1994 P.J. Sugarman (Rutgers University): Strontium Isotope and Sequence Stratigraphy of the Uppermost Campanian-Maestrichtian and Miocene, New Jersey Coastal Plain.
- 1994 G. Muttoni (Università degli studi di Milano): Analisi Paleomagnetica di Sezioni Stratigrafiche Significative del Triassico Inferiore e Medio Della Tetide.
- 1994 X. Quidelleur (IPG Paris): Nature et Fidélité du Message Paleomagnétique des Inversions et de la Paléovariation Séculaire.
- 1995 J.S. Stoner (Université du Québec à Montréal): Magnetic Properties and Paleointensity Records from late Quaternary Labrador Sea Sediments.
- 1996 A. Hirt (ETH, Zurich): The Role of Phyllosilicates in Chemical Remagnetization (Habilitationsschrift).
- 1996 W. Krijgsman (Utrecht University): Miocene Magnetostratigraphy and Cyclostratigraphy in the Mediterranean: Extension of the Astronomical Polarity Time Scale.
- 1997 Y. Gallet (IPG Paris): Apport de la Magnetostratigraphie à l'Étude des Inversions du Champ Magnétique Terrestre (Habilitation).
- 1998 Y. Kok (Utrecht University): Relative paleointensities of the Earth's magnetic field derived from deep-sea sediments.
- 1998 J. Carlot (IPG Paris): Une étude du champ magnétique terrestre sur les 5 derniers millions d'années.
- 2000 R. Cottrell (University of Rochester): Late Cretaceous Paleomagnetism: Tectonic, Paleoclimatic and Geomagnetic Implications
- 2000 R.J. Geeve (University of New South Wales): Paleomagnetism of the southern Tamworth Belt
- 2000 N. van Vugt (Utrecht University): Orbital forcing in late Neogene lacustrine basins from the Mediterranean basin.
- 2002 Kari Lyn Anderson (Macquarie University): Palaeozoic East Gondwana: Palaeomagnetic Investigations of Queensland.
- 2007 Pavel V. Doubrovine (Rochester University): Paleomagnetism and rock magnetism of oceanic basalts: From remanence acquisition to the motion of mantle hot spots and plates.
- 2008 Dario Bilardello (Lehigh University): Correcting for paleomagnetic inclination shallowing in Carboniferous red beds from the Maritime Provinces of Canada.
- 2010 Edoardo Dallanave (University of Padova): Magnetostratigraphy and rock-magnetism of Paleogene sections from the Venetian Alps (Italy).
- 2010 Martijn Deenen (Utrecht University): A new chronology for the late Triassic to early Jurassic.

POST-DOCTORAL RESEARCH SCIENTISTS

1980 Jean Besse (now at IPG Paris, France)
1988 Pierre Rochette (now at University of Aix-Marseille III, France)
1989 In Soo Kim (now at Pusan National University, South Korea)
1991 David Schneider (now at American Scientist, Research Triangle Park, NC)
1991-93 William Witte (now at University of Alaska, Fairbanks, AK)
1991-94 Jeff Gee (now at Scripps Institution of Oceanography, La Jolla, CA)
1995 Giovanni Muttoni (now at University of Milan, Italy)
1999-01 Julie Carlut (now at Ecole Normale Superieure, Paris, France)
2000-01 Luca Lanci (now at University of Urbino, Italy)

COURSES & SEMINARS TAUGHT

Department of Earth and Environmental Sciences, Columbia University:

Paleomagnetism (W4901). Fall 1980, Fall 1982, Fall 1984, Fall 1986, Fall 1988, Fall 1991.
Magnetization of the Oceanic Crust and Ridge Crest Processes (G9901). Fall 1987.
Plate Velocities Over Geologic Time (G9901). Fall 1989.
History of Earth's Magnetic Field (G6947). Spring 1994, Fall 1996.
Geomagnetic Reversals and Associated Phenomena (G9901). Spring 1996.

Institut für Geophysik, ETH, Zürich:

Magnetostratigraphy, sea-level variations, true polar wander and comet impacts. Spring 2003.
Special Topics in Paleomagnetism. Summer 1997.
Source of Marine Magnetic Anomalies. Summer 1982.

Department of Geological Sciences, Rutgers University:

Evolution of Earth's Magnetic Field (460:611). Spring 2004.
Graduate Research Seminar (460:612). Spring 2001; Fall 2001, 2002, 2003, 2005.
Earth System History (460:102). Fall 2000, 2001, 2002, 2003, 2006.
Earth and Life Through Time (460:212). Fall 2007, 2008, 2009, 2010, 2011.
Sedimentary Geology (460:505). Spring 2000, 2002.
Earth Science Colloquium (460:356). Spring 2000, Fall 2007.
Seminar in Paleomagnetism (460:611). Spring 1999.
Geodynamics (460:570). Spring 1999, 2001.
Honors Introductory Geology Lab (460:105). Spring 1999.
Seminar: Quaternary geochronology and geomagnetism (460:613/617). Spring 2006.
Seminar: CAMP: Anatomy of a Large Igneous Province (460:613). Spring 2008.
Seminar: Climate and geomagnetism: Is there a relationship? (460:613). Spring 2009.
Seminar: Mesozoic and Cenozoic Time Scale (460:613). Spring 2010.
Seminar: Abrupt geomagnetic changes (460:613). Spring 2011.

FIELD EXPERIENCE

Ship Cruises

1968 R/V Vema: Bermuda to Bermuda
1969 R/V Vema: New York to Reykavik
1970 R/V Eastward: Barbados to Jamaica
1971 R/V Vema: Fiji to Fiji (co-Chief Scientist)
1971 R/V Vema: Fiji to Guam (co-Chief Scientist)
1979 D/V Glomar Challenger: Leg 68 (Curacao-Panama-Ecuador)
2007 R/V Melville: Magellan12 (Brisbane-Wellington-Pago Pago)

Field Sampling

1970- Caribbean (Barbados, Haiti, Jamaica), Japan (Honshu, Hokkaido), North America (e.g., Appalachians, Llano uplift, Rockies, Colorado Plateau, Sierra Nevada, Newark basins), Mediterranean (Santorini, Sicily, Hydra, Pantelleria), Europe (Slovakia, Spain, France, Greece, Italy), Africa (Mauritania, Morocco, Egypt, Kenya, Sao Tome), People's Republic of China (Yangtze platform), South America (Venezuela, Chile, Argentina), Australia (Lachlan foldbelt), New Zealand (South Island), Greenland (Jameson Land).

DENNIS V. KENT

LIST OF PUBLICATIONS

PhD Dissertation

Kent, D.V., 1974, Magnetic properties and magnetic mineralogy of deep-sea sediments, Columbia University, New York, 279 p.

Edited Volumes

Kent, D.V. and M. Krs (editors), 1987, Laurasian paleomagnetism and tectonics, *Tectonophysics* (special issue), 139 (1/2).

Berggren, W.A. and **D.V. Kent** (editors), 1988, Cenozoic time scales, *Paleoceanography* (special issue), 3 (2).

Berggren, W.A., **D.V. Kent**, M.P. Aubry and J. Hardenbol (editors), 1995, Geochronology, Time Scales and Global Stratigraphic Correlations, *SEPM Special Publication 54*, 386p.

Gubbins, D., **D.V. Kent** and C. Laj (editors), 2000, Geomagnetic polarity reversals and long-term secular variation, *Philosophical Transactions Royal Society of London A358*, 889–1223.

Channell, J.E.T., **D.V. Kent**, W. Lowrie and J. Meert (editors), 2004, Timescales of the Paleomagnetic Field, *AGU Geophysical Monograph 145*, 328p.

Journal or Book Articles

1. **Kent, D.**, N.D. Opdyke and M. Ewing, 1971, Climate change in the North Pacific using ice-rafted detritus as a climatic indicator, *Geological Society of America Bulletin*, 82, 2741–2754.
2. **Kent, D.V.**, 1973, Paleomagnetism of some Neogene sedimentary rocks on Oga Peninsula, Japan, *Journal of Geomagnetism and Geoelectricity*, 25, 87–103.
3. **Kent, D.V.**, 1973, Post-depositional remanent magnetization in deep sea sediment, *Nature*, 246, 32–34.
4. Opdyke, N.D., **D.V. Kent** and W. Lowrie, 1973, Details of magnetic polarity transitions recorded in a high deposition rate deep sea core, *Earth and Planetary Science Letters*, 20, 315–324.
5. **Kent, D.V.** and W. Lowrie, 1974, The origin of magnetic instability in cores from the central North Pacific, *Journal of Geophysical Research*, 79, 2987–3000.
6. Johnson, H.P., W. Lowrie and **D.V. Kent**, 1975, Stability of anhysteretic remanent magnetization in fine and coarse magnetite and maghemite particles, *Geophysical Journal of the Royal Astronomical Society*, 41, 1–10.
7. **Kent, D.V.**, 1975, Post-depositional detrital remanent magnetism in reconstituted deep sea sediment, in *Proceedings Takesi Nagata Conference* (June 1974, University of Pittsburgh, Pittsburgh), 85–95.

8. **Kent, D.V.** and W. Lowrie, 1975, On the magnetic susceptibility anisotropy of deep sea sediment, *Earth and Planetary Science Letters*, 28, 1–12.
9. Cande, S.C. and **D.V. Kent**, 1976, Constraints imposed by the shape of marine magnetic anomalies on the magnetic source, *Journal of Geophysical Research*, 81, 4157–4162.
10. Lowrie, W. and **D.V. Kent**, 1976, Viscous remanent magnetization in basalt samples, *Initial Reports of the Deep Sea Drilling Project*, 34, 479–484.
11. LaBrecque, J.L., **D.V. Kent** and S.C. Cande, 1977, Revised magnetic polarity time scale for the Late Cretaceous and Cenozoic, *Geology*, 5, 330–335.
12. **Kent, D.V.**, 1977, Paleomagnetism of Late Cenozoic sediments of Hokkaido, Japan, *Bulletin of the National Science Museum, Series C (Geology)*, 3, 78–85.
13. **Kent, D.V.**, 1977, An estimate of the duration of the faunal change at the Cretaceous/Tertiary boundary, *Geology*, 5, 769–771.
14. **Kent, D.V.** and W. Lowrie, 1977, Magnetic properties of igneous rock samples from Leg 37, *Initial Reports of the Deep Sea Drilling Project*, 37, 525–530.
15. **Kent, D.V.** and N.D. Opdyke, 1977, Paleomagnetic field intensity variation recorded in a Brunhes epoch deep sea sediment core, *Nature*, 266, 156–159.
16. **Kent, D.V.**, 1978, Anisotropy in sediments, in Fairbridge, R.W. and Bourgeois, J. (editors), *Encyclopedia of Sedimentology (Volume VIA)* (Dowden, Hutchinson & Ross, Stroudsburg), 13–14.
17. **Kent, D.V.**, 1978, Remanent magnetism in sediment, in Fairbridge, R.W. and Bourgeois, J. (editors), *Encyclopedia of Sedimentology (Volume VIA)* (Dowden, Hutchinson & Ross, Stroudsburg), 617.
18. **Kent, D.V.**, B.M. Honnorez, N.D. Opdyke and P.J. Fox, 1978, Magnetic properties of dredged oceanic gabbros and the source of marine magnetic anomalies, *Geophysical Journal of the Royal Astronomical Society*, 5, 513–537.
19. **Kent, D.V.** and N.D. Opdyke, 1978, Paleomagnetism of the Devonian Catskill Red Beds: Evidence for motion of the coastal New England-Canadian Maritime region relative to cratonic North America, *Journal of Geophysical Research*, 83, 4441–4450.
20. **Kent, D.V.** and N.D. Opdyke, 1978, Paleomagnetism and magnetic properties of igneous rock samples—Leg 38, *Initial Reports of the Deep Sea Drilling Project*, 38 (Supplement), 3–8.
21. **Kent, D.V.** and L.P. Tsai, 1978, Paleomagnetism and rock magnetism of Upper Jurassic limestone and basalt from Site 367, *Initial Reports of the Deep Sea Drilling Project*, 41 (Supplement), 995–1002.
22. Lowrie, W. and **D.V. Kent**, 1978, Characteristics of viscous remanent magnetization in oceanic basalts, *Journal of Geophysics*, 44, 297–315.
23. **Kent, D.V.**, 1979, Paleomagnetism of the Devonian Onondaga Limestone revisited, *Journal of Geophysical Research*, 84, 3576–3588.

24. **Kent, D.V.** and N.D. Opdyke, 1979, The Early Carboniferous paleomagnetic field of North America and its bearing on tectonics of the northern Appalachians, *Earth and Planetary Science Letters*, 44, 365–372.
25. Alvarez, W., **D.V. Kent**, I. Premoli Silva, R.A. Schweickert and R.L. Larson, 1980, Franciscan Complex limestone deposited at 17° south paleolatitude, *Geological Society of America Bulletin*, 91, 476–484.
26. **Kent, D.V.** and N.D. Opdyke, 1980, Paleomagnetism of Siluro-Devonian rocks from eastern Maine, *Canadian Journal of Earth Sciences*, 17, 1653–1665.
27. Prell, W.L., J.V. Gardner, et al., 1980, Hydraulic piston coring of late Neogene and Quaternary sections in the Caribbean and equatorial Pacific: Preliminary results of Deep Sea Drilling Project Leg 68, *Geological Society of America Bulletin*, 91, 433–444.
28. Tauxe, L., **D.V. Kent** and N.D. Opdyke, 1980, Magnetic components contributing to the NRM of Middle Siwalik redbeds, *Earth and Planetary Science Letters*, 47, 279–284.
29. **Kent, D.V.**, 1981, Asteroid extinction hypothesis (Letter), *Science*, 211, 648.
30. **Kent, D.V.** and M.R. Maurrasse, 1981, Paleomagnetic results from the Cretaceous Dumisseau Formation of Haiti, *Publications, Trans. du Premiere Colloque sur la Geologie d'Haiti, Port-au-Prince* (Mars 1980, Publ. Henri Deschamps), 236–244.
31. **Kent, D.V.**, D. Ninkovich, T. Pescatore and R.S.J. Sparks, 1981, Paleomagnetic determination of emplacement temperature of the Vesuvius 79 A.D. pyroclastic deposit, *Nature*, 290, 393–396.
32. Clement, B.M., **D.V. Kent** and N.D. Opdyke, 1982, Brunhes-Matuyama transition in three deep sea sediment cores, *Philosophical Transactions of the Royal Society of London A306*, 113–119.
33. **Kent, D.V.**, 1982, The apparent correlation of paleomagnetic intensity and climatic records in deep sea sediments, *Nature*, 299, 538–540.
34. **Kent, D.V.**, 1982, Paleomagnetic evidence for post-Devonian displacement of the Avalon Platform (Newfoundland), *Journal of Geophysical Research*, 87, 8709–8716.
35. **Kent, D.V.** and N.D. Opdyke, 1982, Paleomagnetism of Siluro-Devonian rocks from eastern Maine: Reply to Comment by J. Roy, *Canadian Journal of Earth Sciences*, 19, 232–237.
36. **Kent, D.V.** and D.J. Spariosu, 1982, Magnetostratigraphy of Caribbean Site 502 hydraulic piston cores, *Initial Reports of the Deep Sea Drilling Project*, 68, 419–433.
37. **Kent, D.V.** and D.J. Spariosu, 1982, Magnetostratigraphy of equatorial Pacific Site 503 hydraulic piston cores, *Initial Reports of the Deep Sea Drilling Project*, 68, 435–440.
38. Shipboard Scientific Party, 1982, Site 502: Columbia Basin, western Caribbean, *Initial Reports of the Deep Sea Drilling Project*, 68, 15–162.
39. Shipboard Scientific Party, 1982, Site 503: Eastern Equatorial Pacific, *Initial Reports of the Deep Sea Drilling Project*, 68, 163–242.

40. **Kent, D.V.**, 1983, Geomagnetic excursions and climate change: Reply to Comment by M.R. Rampino, *Nature*, 302, 455.
41. **Kent, D.V.** and D.J. Spariosu, 1983, High resolution magnetostratigraphy of Caribbean Plio-Pleistocene deep sea sediments, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 42, 47–64.
42. Lowrie, W. and **D.V. Kent**, 1983, Geomagnetic reversal frequency since the Late Cretaceous, *Earth and Planetary Science Letters*, 62, 305–313.
43. Spariosu, D.J. and **D.V. Kent**, 1983, Paleomagnetism of the Lower Devonian Traveler Felsite and the Acadian orogeny in the New England Appalachians, *Bulletin of the Geological Society of America*, 94, 1319–1328.
44. Clement, B.M. and **D.V. Kent**, 1984, A detailed record of the Lower Jaramillo polarity transition from a southern hemisphere deep sea sediment core, *Journal of Geophysical Research*, 89, 1049–1058.
45. Clement, B.M. and **D.V. Kent**, 1984, Latitudinal dependency of geomagnetic polarity transition durations, *Nature*, 310, 488–491.
46. **Kent, D.V.**, O. Dia and J. Sougy, 1984, Paleomagnetism of Lower-Middle Devonian Rocks and Upper Proterozoic-Cambrian(?) Rocks from Mejeria (Mauritania, West Africa), *American Geophysical Union Geodynamics Series*, 12, 99–115.
47. **Kent, D.V.**, M.C. McKenna, N.D. Opdyke, J.J. Flynn and B.J. MacFadden, 1984, Arctic biostratigraphic heterochroneity (Technical Comment), *Science*, 224, 173–174.
48. Shackleton, N.J., J. Backman, H. Zimmerman, **D.V. Kent**, M.A. Hall, D.G. Roberts, D. Schnitker, J.G. Baldauf, A. Desprairies, R. Homrighausen, P. Huddlestun, J.B. Keene, A.J. Kaltenback, K.A. O. Krumsiek, A.C. Morton, J.W. Murray and J. Westberg-Smith, 1984, Oxygen isotope calibration of the onset of ice-rafting and history of glaciation in the North Atlantic region, *Nature*, 307, 620–623.
49. Shor, A.N., **D.V. Kent** and R.D. Flood, 1984, Contourite or Turbidite? Magnetic fabric of fine-grained Quaternary sediments, Nova Scotia continental rise, in D.A.V. Stow and D.J.W. Piper (editors), *Fine-Grained Sediments: Deep Water Processes and Facies* (Geological Society London), 257–274.
50. Spariosu, D.J., **D.V. Kent** and J.D. Keppie, 1984, Late Paleozoic motions of the Meguma Terrane, Nova Scotia: New paleomagnetic evidence, *American Geophysical Union Geodynamics Series*, 12, 82–98.
51. Tauxe, L. and **D.V. Kent**, 1984, Properties of a detrital remanence carried by hematite from study of modern river deposits and laboratory redeposition experiments, *Geophysical Journal of the Royal Astronomical Society*, 76, 543–561.
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