

James E.T. Channell



Education

- B.Sc. Earth Sciences, University of Leeds, 1971.
- M.Sc. Geophysics, University of Durham, 1972.
- Ph.D. Geophysics, University of Newcastle-upon-Tyne, 1975.

Theses

- M.Sc. Thesis: Analysis of surface wave data from the interstation path between Addis-Ababa and Nairobi
Advisor: R.E. Long
- Ph.D Thesis: Paleomagnetic studies in Italy and Greece and the evolution of the Mediterranean Region
Advisor: D.H. Tarling
Examiner: F. Vine

Academic Positions

- 1976-1977 Post-Doctoral Fellowship, ETH Zürich.
- 1978-1981 “Wissenschaftlicher Mitarbeiter” (Research Scientist), ETH Zürich.
- 1981-1982 Senior post-doctoral fellow Lamont-Doherty Geological Observatory, Columbia University.
- 1982-1985 Assistant Professor, University of Florida.

- 1985-1991 Associate Professor, University of Florida.
- 1991-2008 Professor, University of Florida.
- 2008-present Distinguished Professor, University of Florida.

Teaching Experience

- 1972-1975 Laboratory supervision for Physics undergraduates School of Physics, University of Newcastle-upon-Tyne.
- 1976-1981 Geophysics Field Courses and Tutorials, ETH Zürich.
- 1982-present Structural Geology, Tectonics, Stratigraphy and Timescales, University of Florida.

Honors and Awards

- 1987: Senior Fellow of Japan Society for Promotion of Science.
- 1987: Visiting Professor, Università di Napoli (Italy).
- 1995-96, 2000: Visiting Scientist, CEA-CNRS, Gif-sur-Yvette, France.
- 1995-96: University of Florida Teaching Improvement Program (TIP) Award.
- 1998: Fellow of American Geophysical Union (AGU).
- 1998: University of Florida Professorial Excellence Program (PEP) Award.
- 1998-99: JOIDES (Joint Oceanographic Institutions) Distinguished Lecturer.
- 1999-2001: University of Florida Research Foundation (UFRF) Professor.
- 2004: Gastprofessor, Geologisches Institut, ETH-Zürich, Switzerland.
- 2004: Co-chief scientist IODP (Integrated Ocean Drilling Program) Expedition 303/306.
- 2005-2007: University of Florida Research Foundation (UFRF) Professor.
- 2005: William Gilbert Award of American Geophysical Union (AGU).
- 2007: UF Faculty Achievement Recognition Honoree.
- 2008: Bullard Lecturer (AGU, San Francisco).
- 2010: Shackleton Visiting Fellow/Life Member, Clare Hall, Cambridge (UK).
- 2014: Capellini Medal, Geological Society of Italy.

Publications (1975-1979)

1975

Paleomagnetism and the Rotation of Italy: J.E.T. Channell and D.H. Tarling. *Earth Planet. Sci. Letters*, 25, 177-188.

1976

The African/Adriatic Promontory as a Paleogeographical Premise for Alpine Orogeny and Plate Movements in the Carpatho-Balkan Region: J.E.T. Channell and F. Horvath. *Tectonophysics*, 35, 71-101.

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1977

Further Evidence Relevant to the African/Adriatic Promontory as a Paleogeographic Premise for Alpine Orogeny: F. Horvath and J.E.T. Channell. *In: Structural History of the Mediterranean Basins. Editors: L. Montadert and B. Biju-Duval. Technip. Paris.*

Paleomagnetism of Limestones from the Gargano Peninsula (Italy), and the Implication of these data: J.E.T. Channell. *Geophys. J.R. Astr. Soc.* 51, 605-616.

1978

Paleomagnetism and Tectonics in Umbria, Italy: J.E.T. Channell, W. Lowrie, F. Medizza and W. Alvarez. *Earth Planet. Sci. Letters* 39, 199-210.

Reappraisal of Paleomagnetism of Colli Euganei and Monti Lessini Volcanics (Italy): J.E.T. Channell, V. De Zanche and R. Sedea. *J. Geophys.* 45, 29-33.

Dual Magnetic Polarity Recorded in a single Bed of Pelagic Limestone: J.E.T. Channell. *J. Geophys.* 44, 613-622.

1979

Paleomagnetic Evidence of large Fault Displacement around the Po-Basin: A Comment: R. Kligfield and J.E.T. Channell. *Tectonophysics* 53, 139-146.

Middle and Early Cretaceous Magnetic Stratigraphy from the Cismon section, Northern Italy: J.E.T. Channell, W. Lowrie, F. Medizza. *Earth Planet. Sci. Letters* 42, 153-166.

Adria, the African Promontory, in Mesozoic Mediterranean Paleogeography. J.E.T. Channell, B. D'Argenio, F. Horvath. *Earth Sci. Reviews.* 15, 213-292.

Magnetic Susceptibility Anisotropy as an Indicator of Sedimentary Fabric in the Gurnigel Flysch: J.E.T. Channell, F. Heller and J. Van Stuijvenberg. *Eclogae Geol. Helv.* 72(3), 781-787.

Paleomagnetism of Upper Cretaceous Limestones from the Munster Basin, Germany. F. Heller and J.E.T. Channell. *J. Geophys.* 46, 413-427.

Evidencia geofisica para un modelo de evolucion de las cuencas del Mediterraneo occidental. E. Banda and J.E.T. Channell. *Estudios Geol.* 35, 5-14.

Publications (1980-1989)

1980

On the credibility of Remanent Magnetization Measurements. W. Lowrie, J.E.T. Channell, and F. Heller. *Geophys. J.R. Astr. Soc.* 60, 493-496.

Magnetic properties of the Swiss Flysch. J.E.T. Channell, R. Freeman, and F. Heller, *J. Geophys.* 48, 60-66.

Paleomagnetism in Mountain Belts. R. Van der Voo and J.E.T. Channell, *Rev. Geophys. Space Physics.* 18/2, 455-481.

A Review of Magnetic Stratigraphy investigations in Cretaceous Pelagic Carbonate Rocks. W. Lowrie, J.E.T. Channell and W. Alvarez. *J. Geophys. Res.* 85, 33597-3605.

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1981

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1982

Timing of diagenetic haematite growth in red pelagic limestones from Gubbio (Italy). J.E.T. Channell, R. Freeman, F. Heller, and W. Lowrie. *Earth Planet. Sci. Lett.* 58, 189-201.

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In: Geology of the Northwest African continental margin. editors: V. von Rad, K. Hinz, M. Sarnthein and E. Reibold. Springer-Verlag. 23-33.

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Geomagnetic polarity in the early Cretaceous and Jurassic. Channell, J.E.T., Ogg, J.G., and Lowrie, W., Phil. Trans. R. Soc. Lond. A.A 306, 137-146.

1983

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1984

Late Miocene magnetic stratigraphy at DSDP site 521A. Heller, F., Lowrie, W., and Channell, J.E.T., Initial Reports of Deep Sea Drilling Project Vol. 73, 637-644.

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Magnetostratigraphy of the Jurassic-Cretaceous boundary in the Maiolica limestone (Umbria, Italy). W. Lowrie and J.E.T. Channell. Geology. 12(1): 44-47.

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1985

Jurassic and Cretaceous geochronology and Jurassic to Paleogene magnetostratigraphy. A. Hallam, J.M. Hancock, J. L. LaBrecque, W. Lowrie and J.E.T. Channell. Geol. Soc. London Memoir No. 10 (editor: N.J. Snelling). Blackwell Oxford. p. 118-141.

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In: The carbon cycle and atmospheric CO₂: Natural Variations Archean to Present. Editors: E.T. Sundquist and W.S. Broecker. American Geophysical Union Monograph No. 32. p. 531-545.

1986

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1987

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Biotic, geochemical, and paleomagnetic changes across the Cretaceous/Tertiary boundary at Braggs, Alabama. D.S. Jones, P.A. Mueller, J.R. Bryan, J.P. Dobson, J.E.T. Channell, J.C. Zachos and M.A. Arthur. Geology 15: 311-315.

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1988

A land-locked back-arc basin: preliminary results from ODP Leg 107 in the Tyrrhenian Sea. Leg 107 Scientific Staff. In: The Origin of Arcs. F.C. Wezel (ed.). Tectonophysics 146, 149-162.

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Paleomagnetism of Late Cretaceous and Eocene limestones and chalks from Haiti – Tectonic interpretations. M.C. Van Fossen and J.E.T. Channell. Tectonics 7 (3), 601-612.

Miocene-Pliocene boundary magnetostratigraphy at Capo Spartivento, Calabria, Italy. J.E.T. Channell, D. Rio and R.C. Thunell. Geology 16, 1100-1103.

1989

Magnetic stratigraphy and magnetic mineralogy at the Cretaceous-Tertiary boundary section, Braggs, Alabama. J.E.T. Channell and J.P. Dobson. Palaeogeography, Palaeoclimatology and Palaeoecology 69, 267-277.

Paleomagnetism of Deep Sea Sediments. J.E.T. Channell In: Encyclopedia of Solid Earth Geophysics. D.E. James (ed) Van Nostrand Reinhold Co., New York, 889-891.

Delamination and asymmetric lithospheric thickening in the development of the Tyrrhenian Rift. J.E.T. Channell and J.C. Mareschal. In: Alpine Tectonics, M.P. Coward, D. Dietrich and R.G. Park (eds.), Geological Soc. London, special publication 45, 285-302.

Paleomagnetic Evidence for Tertiary anticlockwise rotation in SW Puerto Rico. M.C. Van Fossen, J.E.T. Channell and J.H. Schellekens. Geophysical Research Letters 16(8), 819-822.

Tethyan carbonate carbon isotope stratigraphy across the Jurassic-Cretaceous boundary: an indicator of decelerated global carbon cycling. H. Weissert and J.E.T. Channell. Paleoceanography 4(4), 483-494.

Publications (1990-1999)

1990

Paleomagnetic results from volcanic rocks of the Shelve Inlier, Wales: evidence for a wide late Ordovician Iapetus Ocean in Britain. C. McCabe and J.E.T. Channell. *Earth and Planetary Science Letters*, 96, 458-468.

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Contrasting magnetic properties in Leg 107 sediments: preservation and alteration of titanomagnetite at adjacent sites. J.E.T. Channell, T. Hawthorne and M. Torii. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 113-128.

Magnetostratigraphy of sediments recovered at Sites 650, 651, 652, and 654 (Leg 107, Tyrrhenian Sea). J.E.T. Channell, M. Torii and T. Hawthorne. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 335-346.

Two "events" recorded in the Brunhes Chron at ODP Hole 650A (ODP Leg 107, Tyrrhenian Sea): Geomagnetic Phenomena? J.E.T. Channell and M. Torii. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 347-360.

Planktonic foraminiferal events and stable isotope records in the Upper Miocene, Site 654. G. Glacon, C. Vergnaud Grazzini, S. Iaccarino, J.P. Rehault, A. Randrianasolo, J.F. Sierro, P. Weaver, J. Channell, M. Torii and T. Hawthorne. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 415-428.

Biomagnetostratigraphic correlations from Leg 107 in the Tyrrhenian Sea. J.E.T. Channell, D. Rio, G. Glacon and R. Sprovieri. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 669-682.

Pliocene-Early Pleistocene chronostratigraphy and the Tyrrhenian deep-sea record from Site 653. D. Rio, R. Sprovieri and J. Channell. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 705-714.

Paleomagnetically determined rotations in the western Sicilian fold and thrust belt. J.E.T. Channell, J.S. Oldow, R. Catalano and B. D'Argenio. *Tectonics*, 9, 641-660.

Contemporaneous thrusting and large-scale rotations in the western Sicilian fold and thrust belt. J.S. Oldow, J.E.T. Channell, R. Catalano and B. D'Argenio. *Tectonics*, 9, 661-682.

Mesozoic paleogeography of the Northern Calcareous Alps – Evidence from paleomagnetism and facies analysis. J.E.T. Channell, R. Brandner, A. Spieler and N. Smathers, *Geology*, 18, 828-831.

Magnetostratigraphy and biostratigraphy of Callovian-Oxfordian limestones from the Trento Plateau (Monti Lessini, Northern Italy). J.E.T. Channell, F. Massari, A. Benetti and N. Pezzoni. *Paleogeography, Paleoclimatology and Paleoecology*, 79, 289-304.

Some whole-rock magnetic properties of Pleistocene marine sediments from the Boso Peninsula, Central Japan. M. Torii, H. Oda and J.E.T. Channell. *Rock Magnetism and Paleogeophysics*, 17, 11-16.

The terminal Messinian flood and earliest Pliocene paleoceanography in the Mediterranean: results from ODP Leg 107, Site 652, Tyrrhenian Sea. J.A. McKenzie, R. Sprovieri and J.E.T. Channell. *In: Geology of the Oceans. M. Cita (editor). Memorie Societ Geologica Italiana*, 44, 81-92.

1991

Glass from the Cretaceous/Tertiary boundary in Haiti. H. Sigurdsson, S. D'Hondt, M.A. Arthur, T.J. Bralower, J.C. Zachos, M. van Fossen and J.E.T. Channell. *Nature*, 349, 482-487.

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Sedimentary magnetism, environmental magnetism, and magnetostratigraphy. J.W. King and J.E.T. Channell. *Reviews of Geophysics, supplement, April, 1991, US National Report to IUGG*, 358-370.

Forward to "Paleogeography and Paleoceanography of Tethys". E.L. Winterer and J.E.T. Channell. *In Paleogeography and Paleoceanography of Tethys. J.E.T. Channell, E.L. Winterer and L.F. Jansa (editors). Palaeo-3*, 87, VII.

Reply to the comment of A. Trench and T.H. Torsvik on "Paleomagnetic results from the volcanic rocks of the Shelve inlier, Wales: evidence for a wide late Ordovician Iapetus Ocean in Britain". C. McCabe and J.E.T. Channell. *Earth Planet. Sci. Letters*, 104, 540-544.

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1992

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Paleomagnetism and paleogeography of the Northern Calcareous Alps (Austria). J.E.T. Channell, R. Brandner, A. Spieler and J.S. Stoner. *Tectonics, 11, 792-810.*

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Paleozoic paleomagnetic studies in the Welsh Basin – recent advances. J.E.T. Channell, C. McCabe, T. Torsvik, A. Trench and N.H. Woodcock. *Geol. Mag., 129, 533-542.*

Paleomagnetic data from Umbria (Italy): implications for the rotation of Adria and Mesozoic apparent polar wander paths. J.E.T. Channell. *Tectonophysics, 216, 365-378.*

Calcareous plankton biostratigraphy, magnetostratigraphy and paleoclimatic history of the Plio-Pleistocene Monte- San Nicola section (southern Sicily). J.E.T. Channell, E. Di Stefano and R. Sprovieri, *Boll. Soc. Paleontol. Ital., 31 (3), 351-382.*

1993

Magnetostratigraphic calibration of the Late Valanginian carbon isotope event in pelagic limestones from Northern Italy and Switzerland. J.E.T. Channell, E. Erba and A. Lini. *Earth Planet Sci. Letters, 118, 145-166.*

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1995

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