

Andrew Philip ROBERTS

CURRICULUM VITAE

PERSONAL

Date of birth	March 26, 1965
Place of Birth	Kyoto, Japan
Nationality	New Zealand
Marital Status	Married, four adult children

PRESENT APPOINTMENT Professor, Research School of Earth Sciences, Australian National University, Canberra, Australia (since February 2010).

PREVIOUS APPOINTMENTS

- April 2019 - March 2020:** Senior Vice-President (part-time), Australia Education Management Group, Melbourne, Australia.
- August 2012 - August 2017:** Dean, College of Physical and Mathematical Sciences, Australian National University, Canberra, Australia.
- February 2010 - August 2012:** Director, Research School of Earth Sciences, Australian National University, Canberra, Australia.
- August 2005 - July 2009:** Head, School of Ocean & Earth Science and Associate Director, National Oceanography Centre, Southampton, University of Southampton, UK.
- December 2003 - January 2010:** Professor, School of Ocean and Earth Science, Southampton Oceanography Centre, University of Southampton, UK.
- June 1999 - December 2003:** Reader, School of Ocean and Earth Science, Southampton Oceanography Centre, University of Southampton, UK.
- September 1996 - June 1999:** Lecturer, School of Ocean and Earth Science (formerly the Department of Oceanography), Southampton Oceanography Centre, University of Southampton, UK.
- April 1993 - August 1996:** Assistant Research Geophysicist and Lecturer, Department of Geology, University of California, Davis, USA.
- July 1993 - August 1996:** Adjunct Research Scientist, US Geological Survey.
- July 1991 - March 1993:** Post-Doctoral Researcher, Department of Geology, University of California, Davis, USA.
- January 1991 - July 1991:** Post-Doctoral Researcher, Centre des Faibles Radioactivités, Gif-sur-Yvette, France.

ACADEMIC QUALIFICATIONS

- 1985:** Bachelor of Science with double major in Earth Sciences and Mathematics, Massey University, Palmerston North, New Zealand.
- 1986:** Bachelor of Science with Honours (First Class) in Geophysics, Victoria University of Wellington, New Zealand.
- 1990:** Doctor of Philosophy in Geophysics, Victoria University of Wellington, New Zealand.
Thesis: "*Cenozoic paleomagnetism and tectonics of the Marlborough region, New Zealand.*"
- 2009:** Doctor of Science, Victoria University of Wellington, New Zealand.

HONOURS AND DISTINCTIONS

- 2022:** Mawson Medal and Lecture, Australian Academy of Science, for "outstanding contributions to Earth science in Australia".

2020: Edward Bullard Lecturer, American Geophysical Union.
2019: Axford Medal, Asia Oceania Geoscience Society, for “academic excellence and unselfish scientific cooperation in Asia and Oceania”
2018 - 2019: Excellent researcher (led 100 MYen project (\$A1.1M), Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan
2013: Honorary Fellow, Royal Society of New Zealand
2013: Fellow, American Geophysical Union
2011 - 2015: Guest Professor, Center for Advanced Marine Core Research, Kochi University, Japan
2010 - present: Listed in Who’s Who in the World
2009: Japan Society for the Promotion of Science Senior Invited Fellow
2009: Fellow, Royal Society of Arts (London)
2001: Philip Leverhulme Prize (£50,000 award for contributions to sedimentary magnetism; prize awarded annually to the “best young academics in the U.K.”)
2000: U.S. National Science Foundation Antarctic Service Medal
1989: Royal Society of New Zealand Young Scientists’ Award

OTHER HONOURS

2020: Excellent Reviewer Award, *Earth, Planets and Space*
2017: Outstanding reviewer, *Geophysical Journal International*
2015: Excellent Reviewer Award, *Earth, Planets and Space*
2009 - 2012, 2016: Recognition by *Nature* for exceptional service as a reviewer
2009: Exceptional Reviewer Award, *Geology*
1993, 1995: Visiting Fellow, Institute for Rock Magnetism, University of Minnesota, Minneapolis, USA.
1991: French Ministry of Foreign Affairs Post-Doctoral Fellowship, Centre des Faibles Radioactivités, Gif-sur-Yvette, France.
1989: British Council Educational Exchange Award.
1987 - 1990: New Zealand University Grants Committee Postgraduate Scholarship.

PROFESSIONAL AFFILIATIONS

Honorary Fellow, Royal Society of New Zealand (since 2013).
Fellow, American Geophysical Union (Member since 1991; Fellow since 2013).
Member, European Geosciences Union (formerly European Geophysical Society; since 1995).
Member, New Zealand Geophysical Society (1989-1995).
Member, Geological Society of America (1991-1998).
Fellow, Royal Society for the Encouragement of the Arts, Manufacture and Commerce (RSA) (since 2009).
Member, Geological Society of Australia (since 2010).

EDITORIAL SERVICE

2015 - 2016: Guest Editor, special volume, *Frontiers in Earth Science* (Nature Publishing Group).
2012 - 2013: Guest Editor, special volume, *Global and Planetary Change* (Elsevier).
2008 - 2012: Member, Editorial Board, *Frontiers of Earth Science in China* (Springer).
2008 - 2012: Associate Editor, *Geochemistry, Geophysics, Geosystems* (American Geophysical Union).
1999 - 2000: Geochronology Editor, *Terra Antarctica* (University of Siena, Italy).
1996 - 1998: Associate Editor, *Journal of Geophysical Research* (American Geophysical Union).

PROFESSIONAL ACTIVITIES (Since 1998)

- 2022:** Million Year Ice Core Project Impurities Working Group, Australian Antarctic Program.
- 2021 - 2022:** Member, College of Assessors, New Zealand Ministry of Business Innovation and Employment.
- 2021 - 2022:** Member, Canvassing Committee, American Geophysical Union, to increase diversity of honors nominations for Geomagnetism, Paleomagnetism and Electromagnetism Section.
- 2017 - 2019:** Member, Institute of Earth Sciences Advisory Committee, Academia Sinica, Taiwan.
- 2017:** Chair, Australian Research Council, Discovery Projects and Discovery Early Career Awards Panel (Mathematics, Physics, Chemistry, and Earth Science).
- 2017:** Member, Organizing Committee, “Santa Fe” International Conference on Rock Magnetism, Utrecht, The Netherlands.
- 2015 - 2017:** Member, Honors Committee, American Geophysical Union, Geomagnetism, Paleomagnetism and Electromagnetism Section.
- 2015 - 2017:** Member, College of Experts, Australian Research Council (sat on panels that recommended awards totalling ~\$190M).
- 2016:** U.S. National Science Foundation *JOIDES Resolution* Facility Performance Panel (evaluation of performance against a \$250M contract from NSF).
- 2015:** Member, Selection Advisory Committee, Special Research Initiatives Antarctic Gateway Partnership, Australian Research Council (\$24M funded).
- 2013 - 2016:** Member, *JOIDES Resolution* Facility Board, International Ocean Discovery Program (IODP). Approves upcoming expeditions based on input from science advisory structure (\$65M annual budget from US NSF).
- 2011 - 2012:** Referee panel member, Centres of Excellence Scheme, Research Council of Norway.
- 2011:** Reviewer, U.S. National Research Council report on *Scientific Ocean Drilling: Accomplishments and Challenges*.
- 2011:** Member, “Blue Ribbon” Committee, 2013-2023 Science Plan for IODP renewal.
- 2010 - 2013:** Member, Governing Council, Australia-New Zealand IODP.
- 2009 - 2013:** Member, Review and Advisory Committee, Institute for Rock Magnetism (NSF-funded National Facility), University of Minnesota, USA.
- 2009 - 2012:** Member, Planetary Magnetism Grant Panel, Deutsche Forschungsgemeinschaft (German Science Foundation). Declined due to move to Australia.
- 2009:** Member, Moderating Panel, Antarctic Funding Initiative, UK Natural Environment Research Council.
- 2008 - 2009:** UK representative, International Expert Review Panel, Scientific Committee on Antarctic Research (SCAR; www.scar.org).
- 2008:** Conference Co-Chair, Frontiers in Rock Magnetism, to honour the career of Prof. Subir Banerjee, Cargese, Corsica, France.
- 2008:** Conference Chair, The Geophysics of Climate Change, Joint meeting: Royal Astronomical Society, Geological Society of London and British Geophysical Association, London, UK.
- 2007 - present:** Member, UK Marine Science Forum (senior representatives from UK marine science community).
- 2005 - present:** Standing member, Scientific Advisory Committee of the Paleomagnetism and Geochronology Laboratory, Chinese Academy of Sciences, Beijing, China.
- 2005:** International member, Comité d’Evaluation (external quadrennial review), Laboratoire des Sciences du Climat et de l’Environnement, Gif-sur-Yvette, France.
- 2005 - present:** External referee for tenure promotions (Assistant to Associate Professor) for University of California, Davis (2005), Oregon State University (2008), Michigan Technological University (2011), University of Minnesota (2012).

- 2003 - present:** External referee, promotion to Distinguished Professor, University of California, Davis (2003), University of California, San Diego (2009), University of California, Berkeley (2011).
- 2003 - 2005:** Secretary, Paleomagnetism (field behaviour and history) Section, Magnetism, Paleomagnetism & Rock Physics Division, European Geosciences Union.
- 2002:** Co-director, Fundamental rock magnetism and environmental applications conference; 100 attendees from 23 countries, Erice, Sicily, Italy.
- 1998 - 2002:** Co-ordinator, MAG-NET project (10 laboratories from 7 countries; European Union funding of £934,000).
- 2001 - present:** External Ph.D. examiner: Victoria University of Wellington, New Zealand; University of Utrecht, The Netherlands; University of California, Davis, USA; Institut de Physique du Globe de Paris, France.
- 1998 - present:** External referee, Professorial appointment, University of Utrecht, The Netherlands (1998). Member, External Advisory Panel, Professorial appointment, Institute of Pure and Applied Geophysics, University of Munich, Germany (2004). External referee, Senior Lecturer (2006) and Associate Professor (2012) promotions, Victoria University, Wellington, New Zealand; External referee, Senior Research Fellow and Distinguished Research Fellow promotions, Institute of Earth Sciences, Academia Sinica, Taiwan (2006, 2014, 2017, 2018, 2019); External referee, Readership and Professorship promotions, University of Cambridge (2011, 2016); External referee, Associate Professor appointment, Hebrew University, Jerusalem, Israel (2013); External referee, Readership promotion, Imperial College London (2016); External referee, Assistant Professor appointment, National Taiwan University, Taipei, Taiwan (2016). External referee, Professor promotion, University of Hong Kong (2017); External referee, Professor promotion, Oregon State University (2017). External referee, Readership promotion, Lund University, Sweden (2019).
- 1997 - 1999:** Paleomagnetist, Cape Roberts Project, Antarctica (3 field seasons in Antarctica).
- 1991 - present:** Reviewer for the following journals: *Nature*, *Science*, *Proceedings of the National Academy of Sciences USA*, *Science Advances*, *Nature Geoscience*, *Nature Communications*, *Philosophical Transactions of the Royal Society*, *PloS ONE*, *Scientific Reports*, *Reviews of Geophysics*, *National Science Review*, *Journal of Geophysical Research*, *Geophysical Journal International*, *Geophysical Research Letters*, *Earth and Planetary Science Letters*, *Physics of the Earth and Planetary Interiors*, *Geology*, *Paleoceanography*, *Geochimica et Cosmochimica Acta*, *Geochemistry, Geophysics, Geosystems (G-cubed)*, *Chemical Geology*, *eLife*, *Frontiers in Earth Science*, *Geosphere*, *Marine Geology*, *Palaeo³*, *Tectonics*, *Tectonophysics*, *AGU Geophysical Monographs*, *Journal of the Royal Society Interface*, *Journal of the Geological Society of London*, *Journal of Quaternary Science*, *Quaternary Science Reviews*, *Quaternary Research*, *Quaternary Geochronology*, *Journal of Human Evolution*, *Science of the Total Environment*, *Journal of Archaeological Science*, *Archaeological Prospection*, *Mediterranean Archaeology and Archaeometry*, *Progress in Materials Science*, *Applied Physics Letters*, *Global and Planetary Change*, *Science of the Total Environment*, *Geoscience Letters*, *The Holocene*, *Cretaceous Research*, *Sedimentology*, *Geomorphology*, *Proceedings of the Ocean Drilling Program*, *Journal of Geomagnetism and Geoelectricity* (now *Earth, Planets and Space*), *Progress in Earth and Planetary Science*, *Journal of Paleolimnology*, *Journal of Marine Systems*, *Geo-Marine Letters*, *Meteoritics and Planetary Science*, *Ore Geology Reviews*, *Precambrian Research*, *New Zealand Journal of Geology and Geophysics*, *Journal of the Royal Society of New Zealand*, *Canadian Journal of Earth Sciences*, *International Journal of Earth Sciences*, *Geologie en Mijnbouw*, *Proceedings of the Geologists' Association*, *NATO-ASI Series*, *Terra Antartica*, *Antarctic Science*, *USGS Publications*, *GSA Today*, *Physics and Chemistry of the Earth*, *Australian Journal of Soil Science*, *Journal of Asian Earth Sciences*, *Journal of African Earth Sciences*, *Acta Geologica*

Sinica, Journal of Mountain Science, Annali di Geofisica, Studia Geofisica et Geodaetica. (Since 1996, average of 30+ reviews of papers/research proposals per year for international journals/funding agencies.)

1995 - present: Reviewer of research proposals for the following funding agencies: UK Natural Environment Research Council, UK Engineering and Physical Sciences Research Council, Royal Society of London, Leverhulme Trust, Royal Society of Edinburgh, Kerr-Fry Fund (Edinburgh), European Research Council, US National Science Foundation (including Geophysics, Earth System Science, Marine Geology and Geophysics, Ocean Drilling Program, Paleontology and Stratigraphy, and Polar Programs), US National Research Council, US Joint Oceanographic Institutions, Integrated Ocean Drilling Program, American Chemical Society Petroleum Research Fund, John Simon Guggenheim Memorial Foundation (USA), National Geographic Society (USA), Netherlands Geosciences Foundation, Swiss National Science Foundation, ETH Zürich Research Commission (Switzerland), German Research Foundation (DFG), Research Council of Norway, Israel Science Foundation, United States-Israel Binational Science Foundation, German-Israel Foundation for Scientific Research and Development, Belgian Fonds de la Recherche Scientifique (FNRS), French National Research Agency (ANR), National Institute of Geophysics and Volcanology (INGV, Italy), South Africa National Research Foundation, Ministry of Science and Technology (Taiwan), New Zealand Ministry of Business Innovation and Employment, Australian Research Council (ARC).

KEYNOTE AND INVITED LECTURES

- 2023:** Plenary Lecture, Australian Earth Science Convention, Perth, Australia
- 2022:** Mawson Lecture, Australian Academy of Science, Canberra, Australia
- 2021:** Instructor, Mini-Course on Paleomagnetism and Magnetic Mineralogy, XVII International Congress, Brazilian Geophysical Society, Brazil (virtual meeting).
- 2021:** Invited speaker, “Cloud Meeting on Paleomagnetism” seminar series, China.
- 2021:** Invited speaker, International Association of Geomagnetism and Aeronomy (IAGA) Scientific Assembly, Hyderabad, India (virtual meeting).
- 2021:** Invited speaker, MagNetZ seminar series (Eastern Hemisphere series).
- 2021:** Invited speaker, Japan Geoscience Union, Tokyo, Japan (virtual meeting).
- 2021:** Keynote speaker, Magnetics Information Consortium (MagIC) Workshop, La Jolla, California, USA (virtual meeting).
- 2020:** Bullard Lecture, American Geophysical Union Fall Meeting, San Francisco, USA.
- 2019:** Invited speaker, American Geophysical Union Fall Meeting, San Francisco, USA.
- 2019:** Invited speaker, LatinMag Meeting, Rancagua, Chile (meeting cancelled due to civil unrest).
- 2019:** Invited speaker, 5th Beijing International Symposium on Paleomagnetism and Earth and Planetary Deep Interiors, Beijing, China.
- 2019:** Axford Medal Lecture, Asia Oceania Geosciences Society Meeting, Singapore.
- 2019:** Invited speaker, Governance of research funding, Indonesian Ministry of Finance, Jakarta, Indonesia (by videoconference).
- 2019:** Invited speaker, International Education Management Conference, Harbin, China.
- 2018:** Invited speaker, Union Session: Grand Challenges in Paleomagnetism, American Geophysical Union Fall Meeting, Washington DC, USA.
- 2018:** Invited speaker, Science and Technology Diplomacy and Public Policy Conference, University of Tokyo, Tokyo, Japan.
- 2018:** Invited speaker (x3), Asia Oceania Geosciences Society Meeting, Honolulu, HI, USA.
- 2018:** Invited speaker, Japan Geoscience Union, Tokyo, Japan.
- 2017:** Invited speaker, American Geophysical Union Fall Meeting, New Orleans, USA.
- 2017:** Invited speaker, rock magnetism session, “Santa Fe” conference, Utrecht, The Netherlands.

- 2017:** Invited speaker, environmental magnetism session, “Santa Fe” conference, Utrecht, The Netherlands.
- 2017:** Invited speaker, Japan Geoscience Union – American Geophysical Union Joint Meeting (May), Tokyo, Japan.
- 2017:** Invited speaker, Paleomagnetic workshop (February) to honour Prof. K. Kodama on his retirement, Kochi, Japan.
- 2017:** Keynote speaker, Magnetics Information Consortium (MagIC) Workshop, La Jolla, California, USA.
- 2016:** Invited speaker, Women in Mathematics Special Interest Group, Australian Mathematical Society, Canberra, Australia.
- 2016:** Keynote speaker, International Education Management Conference, Chongqing, China.
- 2016:** Invited speaker, 4th Beijing International Symposium on Paleomagnetism and Earth and Planetary Deep Interiors, Beijing, China.
- 2015:** Invited speaker, American Geophysical Union Fall Meeting, San Francisco, USA.
- 2015:** Invited speaker, LatinMag Meeting, São Paolo, Brazil.
- 2015:** Keynote speaker, Deutsche Geophysikalische Gesellschaft (DGG), Hannover, Germany.
- 2014:** Invited speaker, Aneka Tambang Conference on Rock Magnetism, Sulawesi, Indonesia (declined).
- 2014:** Invited speaker, Asia Oceania Geosciences Society, 11th Annual Meeting, Sapporo, Japan.
- 2013:** Invited speaker, American Geophysical Union Fall Meeting (Applications of Paleomagnetism to Tectonic and other Geologic Problems session), San Francisco, USA.
- 2013:** Invited speaker, American Geophysical Union Fall Meeting (Quaternary geomagnetic field behaviour session), San Francisco, USA.
- 2013:** Invited speaker (co-author), American Geophysical Union Fall Meeting (Rock magnetism: beyond the state-of-the-art session), San Francisco, USA.
- 2013:** Invited speaker, IAGA Quadrennial Meeting, Merida, Mexico (declined).
- 2013:** Invited speaker, AGU Meeting of the Americas, Cancun, Mexico.
- 2013:** Invited speaker, Asia Oceania Geosciences Society, 10th Annual Meeting, Brisbane, Australia (clash with meeting below, declined).
- 2013:** Invited speaker, 3rd Beijing International Symposium on Paleomagnetism and Earth and Planetary Deep Interiors, Beijing, China.
- 2012:** Keynote speaker, International Symposium on Paleoceanography in the Southern Ocean and NW Pacific: Perspective from Earth Drilling Sciences, Kochi, Japan.
- 2012:** Invited speaker, American Geophysical Union Western Pacific Geophysics Meeting, Singapore.
- 2012:** Invited speaker, American Geophysical Union Western Pacific Geophysics Meeting, Singapore.
- 2012:** Invited speaker, Santa Fe Rock Magnetism Workshop (Magnetotactic bacteria), New Mexico, USA.
- 2012:** Invited speaker, Santa Fe Rock Magnetism Workshop (Environmental magnetism of eolian dust), New Mexico, USA.
- 2011:** Invited speaker, American Geophysical Union Fall Meeting (Remagnetization and Chemical Alteration of Sediments/Sedimentary Rocks session), San Francisco, USA.
- 2011:** Invited speaker, American Geophysical Union Fall Meeting (Earth Processes through Mineral and Rock Magnetism Eyeglasses session), San Francisco, USA.
- 2011:** Invited speaker, American Geophysical Union Fall Meeting (Magnetic Excursions, Reversals and Paleointensity session), San Francisco, USA.
- 2011:** Invited speaker, Geological Society of America Annual Meeting (Atmospheric Dust session), Minneapolis, Minnesota, USA.

- 2011:** Keynote speaker, Kochi International Symposium on Paleoceanography and Paleoenvironment in East Asia, Kochi, Japan.
- 2011:** Invited speaker, International Union of Geodesy and Geophysics (Rock Magnetism session), Melbourne, Australia.
- 2011:** Invited speaker, International Union of Geodesy and Geophysics (Environmental Magnetism session), Melbourne, Australia.
- 2010:** Invited speaker, American Geophysical Union Fall Meeting, San Francisco, USA.
- 2010:** Invited speaker, 2nd International Symposium, Earth's & Planetary Interiors: Observations & Numerical Models of Paleomagnetism and Planetary Magnetism, Beijing, China.
- 2010:** Invited speaker, Australian Earth Sciences Convention, Canberra, Australia.
- 2010:** Invited speaker, Santa Fe Rock Magnetism Workshop, New Mexico, USA.
- 2010:** Invited speaker, Cosmic Magnetism from Stellar to Intergalactic Scales Conference, Kiama, Australia.
- 2009:** Invited speaker, 11th International Association of Geomagnetism and Aeronomy Meeting, Sopron, Hungary.
- 2009:** Invited speaker, American Geophysical Union Spring Meeting, Toronto, Canada.
- 2009:** Invited speaker, European Geosciences Union, Vienna, Austria.
- 2009:** Invited speaker, Paleoclimate Records in Evaporative Basins Workshop, Tübingen, Germany.
- 2009:** Speaker, Quaternary Research Series, Royal Holloway University of London, UK.
- 2008:** Invited Professor, International School of Space Science (Geomagnetism and Ionosphere), Series of Events on Relations in the Sun-Earth System and Space Weather (SERSES) Program (Spring, 2008), L'Aquila, Italy.
- 2008:** Invited speaker, Monthly Meeting, Royal Astronomical Society, London, UK.
- 2008:** Plenary keynote speaker, Inauguration Celebration, Institute of Ocean and Earth Sciences, University of Malaya (modelled after NOCS), Kuala Lumpur, Malaysia.
- 2007:** Invited speaker, Environmental magnetism session, American Geophysical Union Fall Meeting, San Francisco, USA.
- 2007:** Invited speaker, International Symposium on Paleomagnetism and the Earth's Deep Interior: Unsolved Problems and Future Challenges, Beijing, China.
- 2006:** Invited keynote speaker, Japan Geoscience Union, Tokyo, Japan.
- 2006:** Lecture tour of Japan, sponsored by Japanese paleomagnetic community (Tokyo, Kyoto, Okayama, Tsukuba).
- 2006:** Invited speaker, Santa Fe Rock Magnetism Workshop, New Mexico, USA.
- 2006:** Invited keynote speaker, International Ocean Drilling Workshop, Kochi, Japan.
- 2004:** Invited speaker, Geomagnetic field behaviour session, American Geophysical Union Fall Meeting, San Francisco, USA.
- 2004:** Invited speaker, "Festkolloquium" in honour of the retirement of Prof. Heinrich Soffel as Director of the Institute of Pure and Applied Geophysics, University of Munich, Germany.
- 2003:** Invited speaker, 1st International Workshop on Magnetism, Hysteresis, and the FORC Method, Davis, California, USA.
- 2002:** Invited speaker, Fundamental Rock Magnetism and Environmental Applications Conference, Erice, Sicily, Italy.
- 2002:** Invited speaker, Royal Astronomical Society Discussion Meeting, Understanding Obliquely Convergent Margins – Case Studies from New Zealand, London, UK.
- 2001:** Invited speaker, The Geologic Record of the Antarctic Ice Sheet from Drilling, Coring and Seismic Studies Symposium, Erice, Sicily, Italy.
- 2000:** Speaker, Cape Roberts Project meeting, Columbus, Ohio, USA.
- 2000:** Speaker, American Geophysical Union Fall Meeting, San Francisco, USA.

- 2000:** Invited speaker, session dedicated to Louis Néel (Nobel laureate), European Geophysical Society meeting, Nice, France.
- 2000:** Invited keynote speaker, Western Pacific Geophysics Meeting, Tokyo, Japan.
- 2000:** Speaker, Post-cruise meeting, Ocean Drilling Program Leg 181, Mt Cook, New Zealand.
- 1999:** Speaker, Cape Roberts Project meeting, Wellington, New Zealand.
- 1998:** Invited speaker, Environmental Rock Magnetism and Paleoclimate Workshop, sponsored by the US National Science Foundation and the Institute for Rock Magnetism, University of Minnesota, at Santa Fe, New Mexico, USA.
- 1998:** Speaker, Cape Roberts Project meeting, London.
- 1997:** Invited speaker, Magnetostratigraphy session, European Union of Geosciences, Strasbourg, France.
- 1996:** Invited speaker, Environmental Rock Magnetism and Paleoclimate Workshop, sponsored by the US National Science Foundation and the Institute for Rock Magnetism, University of Minnesota, at Santa Fe, New Mexico, USA.
- 1996:** Invited speaker, Session in honour of Prof. Hans Zijderveld, European Geophysical Society, The Hague, The Netherlands.
- 1995:** Invited participant, International Sedimentary Biogeomagnetism Workshop, sponsored by the Institute for Rock Magnetism, University of Minnesota and the US National Science Foundation, Minneapolis, USA.
- 1994:** Invited speaker, Environmental Rock Magnetism and Rock Magnetic Signatures of Remagnetization Workshop, sponsored by the US National Science Foundation and the Institute for Rock Magnetism, University of Minnesota, at Santa Fe, New Mexico, USA.
- 1994:** Invited speaker, AGU Spring Meeting, Baltimore, Maryland, USA.
- 1990:** Invited speaker, Geological Records of Sea Level Change symposium, in honour of Prof. Peter R. Vail, Victoria University of Wellington, New Zealand.
- 1991 - present:** Research seminars at: University of California, Davis; University of Nebraska, Lincoln; University of Minnesota; Exxon Production Research, Houston (USA); Centre des Faibles Radioactivités, Gif-sur-Yvette; Université des Sciences et Technologies, Lille (France); Oxford, Cambridge, Leeds, Royal Holloway, Imperial, Southampton (UK); University of Utrecht (The Netherlands); Institute for Baltic Sea Research, Warnemuende; University of Munich (Germany); University of Barcelona (Spain), Victoria, Massey, Waikato, NIWA, Auckland (New Zealand); Australian National University (Australia); Chinese Academy of Sciences, Beijing, Xi'an; Peking University; Nanjing University; Lanzhou University (China); ETH-Zürich (Switzerland); Okayama University of Science & Technology (Okayama), Doshisha University (Kyoto), Geological Survey of Japan (Tsukuba), Kochi Center for Advanced Marine Core Research, Kochi University (Japan); University of Malaya (Malaysia); Kuwait Institute for Scientific Research (Kuwait); University of São Paulo (Brazil); Institute of Earth Sciences, Academia Sinica (Taiwan).

CONFERENCE SESSION ORGANIZATION

- 2021:** Co-convenor, Environmental proxies and magnetism session, Santa Fe Rock Magnetism Workshop (virtual meeting).
- 2020:** Co-convenor, Paleomagnetism and Rock Magnetism session, AOGS Meeting, Gangwon, South Korea (cancelled due to COVID-19 pandemic).
- 2020:** Co-convenor, General Paleomagnetism session, EGU Meeting, Vienna, Austria (virtual meeting).
- 2019:** Co-convenor, Cosmogenic radionuclides and paleomagnetism session, 3rd International Congress on Stratigraphy, Milan, Italy.
- 2019:** Co-convenor, Paleomagnetism and Rock Magnetism session, AOGS Meeting, Singapore.
- 2014:** Co-convenor, Environmental Magnetism session, AGU Meeting, San Francisco, USA.

- 2014:** Co-convenor, Paleomagnetism session in honour of the career of Prof. Kazuto Kodama, Asia Oceania Geosciences Society, 11th Annual Meeting, Sapporo, Japan.
- 2013:** Co-convenor, Environmental Magnetism session, AGU Meeting, San Francisco, USA.
- 2013:** Co-convenor, Paleomagnetism and Rock Magnetism from Scientific Drilling, AGU Meeting of the Americas, Cancun, Mexico.
- 2012:** Co-convenor, Environmental Magnetism session, AGU Meeting, San Francisco, USA.
- 2012:** Co-convenor, Environmental Magnetism session, EGU Meeting, Vienna, Austria.
- 2011:** Co-convenor, Environmental Magnetism session, IUGG Meeting, Melbourne, Australia.
- 2006:** Convenor, Sediment Magnetism session, AGU Western Pacific Geophysics Meeting, Beijing, China.
- 2005:** Co-coordinator, Proxies in Paleoclimatology: Education and Research (PROPER; European Union funded) Short-Course, National Oceanography Centre, Southampton.
- 2005:** Convenor, Rock Magnetism Applied to Environmental Problems session, International Association of Geomagnetism and Aeronomy Quadrennial meeting, Toulouse, France.
- 2004:** Co-convenor, Geomagnetic Field Behaviour session, European Geosciences Union, Nice, France.
- 2004:** Co-convenor, Reversals of the Geomagnetic Field session, 32nd International Geological Congress, Florence, Italy.
- 2003:** Convenor, Environmental Magnetism and Paleoclimate session, American Geophysical Union Fall Meeting, San Francisco, USA.
- 2002:** Convenor, Magnetic Grain-Size Proxies: How Reliable are They? session, Fundamental Rock Magnetism and Environmental Applications meeting, Erice, Sicily.
- 2001:** Convenor, Discussion session, The Geologic Record of the Antarctic Ice Sheet from Drilling, Coring and Seismic Studies Symposium, Erice, Sicily, Italy.
- 2000:** Convenor, Sediment Magnetism session, European Geophysical Society Meeting, Nice, France.
- 2000:** Convenor, Magnetic Records: Tectonics to Climate, AGU Western Pacific Geophysics Meeting, Tokyo, Japan.
- 1999:** Convenor, Environmental Magnetism symposium, International Union of Geodesy and Geophysics, Quadrennial meeting, Birmingham, UK.
- 1998:** Convenor, MAG-NET project meetings in Southampton, Utrecht (x2), Munich, Graz, Madrid, Zürich, Rome, and Marseille.
- 1998:** Co-convenor, Developments in Long-Core Paleomagnetic Measurement Techniques session, AGU Spring Meeting, Boston, USA.
- 1998:** Co-convenor, Paleomagnetism and paleoclimate session, Spring AGU, Boston, USA.
- 1998:** Convenor, Effects of Chemical Alteration on Magnetic Minerals, European Geophysical Society Meeting, Nice, France.
- 1997:** Convenor, Environmental Magnetism session, UK Geophysical Assembly, Southampton, UK.
- 1994:** Convenor, Environmental Magnetism and Paleoclimate session, American Geophysical Union, Fall Meeting, San Francisco, USA.
- 1993:** Co-convenor, Paleoclimate Records and Environmental Magnetism of Marine and Terrestrial Sediments from Western North America session, American Geophysical Union, Fall Meeting, San Francisco, USA.
- 1988:** Co-convenor, Paleomagnetism and its Applications in the New Zealand Region symposium, joint conference of the New Zealand Geophysical and Geological Societies, Hamilton, New Zealand.

RESEARCH FUNDING

Dates	Principal Investigator(s)	Funding Body	Title	Value
1993	K.L. Verosub & APR	U.S. Dept of Energy	Paleointensity	\$US115,000
1994	K.L. Verosub & APR	U.S. N.S.F., U.S.G.S. + Univ. of California	Long-core magnetometer	\$US286,000
1994	APR	U.S.G.S.	Fort Yukon, Alaska	\$US33,000
1995	APR	U.S.G.S.	Great Basin, Utah	\$US15,000
1995	APR	U.S. N.S.F.	Great Basin, Utah*	\$US31,000
1995	APR	JOI/USSAC	Mediterranean	\$US42,000
1995	K.L. Verosub & APR	U.S. N.S.F.	Cape Roberts, Antarctica*	\$US400,000
1996	APR	U.S. N.S.F.	Lake Bonneville*	\$US26,000
1996	K.L. Verosub & APR	U.S. N.S.F.	Thermoviscous remanence	\$US100,000
1997	APR	University of Southampton	Fine magnetic particles	£17,724
1997	APR	University of Southampton	VFTB acquisition	£43,000
1997	APR	Royal Society	Paleointensity	£8,112
1997	R.G. Rothwell & APR	NERC	BOSCORF	£30,000
1997	APR	Royal Society	Sakhalin, Russia	£10,000
1998	APR	European Union	MAG-NET	£934,000
1999	APR	Royal Society	Study visit to NZ	£3,000
1999	APR	NERC	U-channel magnetometer	£115,000
1999	K.L. Verosub & APR	U.S. N.S.F.	FORC diagrams	\$US100,000
2000	APR	Royal Society	Post-doc from China	£5,600
2000	APR	HEFCE	Shielded laboratory	£30,000
2001	APR	Royal Society	Taiwan greigite	£8,500
2001	APR	Leverhulme Trust	Leverhulme Prize	£50,000
2001	APR	HEFCE SRIF	MicroVSM	£145,000
1997 - 2009	APR	Various sources	Commercial work	£38,000

RESEARCH FUNDING (CONTINUED)

Dates	Principal Investigator(s)	Funding Body	Title	Value
2004	APR & A.R. Muxworthy	Royal Society	Royal Society Fellowship to Adrian Muxworthy†	£255,000
2004	APR	European Union	Marie Curie Fellowship to Claire Carvallo	£113,000
2004	APR & E.J. Rohling	European Union	Marie Curie Fellowship to Qingsong Liu	£156,000
2004	Wyn Williams (Edinburgh) & APR	NERC	Magnetostatic interactions in rocks	£255,000
2005	A.R. Muxworthy & APR	Royal Society	Paleointensity in pyroclastic rocks	£12,000
2006	A.R. Muxworthy & APR	Royal Society	Joint Project, China	£13,000
2007	E.J. Rohling & APR (led by Prof. John Lowe, Royal Holloway Univ. London)	NERC	Human responses to abrupt environment change (RESET) Total award: £3.4M	£531,000
2008	APR	NERC	Fundamental magnetic parameters for greigite	£242,000
2008	APR & Paul Wilson	European Union	Marie Curie Fellowship to Luigi Jovane	£165,000
2009	Nicola Pressling & APR	NERC	NERC Fellowship to Nicola Pressling†	£236,000
2009	Kazuto Kodama & APR	Japan Society for the Promotion of Science	Asian Monsoon	£200,000
2010	L.K. Fifield et al. (incl. APR)	Australian Research Council (Super Science +\$120k ANU)	Novel dating methods for marine sediments	\$698,836
2010	APR	ANU	Micromag VSM + student support funds	\$475,000
2010	APR	Insurance + ANU insurance reserve fund	2-G Enterprises magnetometer replacement	\$600,000
2010	APR, De Deckker & Norman	Australian Research Council (Discovery)	Australian dust	\$569,880

RESEARCH FUNDING (CONTINUED)

Dates	Principal Investigator(s)	Funding Body	Title	Value
2011	Rohling et al. (incl. APR as an overseas academic partner)	NERC	Interglacial sea-level consortium	£500k of a total £3.3M
2011	APR, Pillans, Heslop, Lister	ANU Major Equipment Committee	Acquisition of a magnetostatic shield	\$150,000
2011	Turner, Hill, APR, Sheppard	NZ Marsden Fund	SW Pacific geomagnetic secular variation	\$NZ615,000
2011	Heslop, APR, Tauxe	Australian Research Council (Discovery)	Sedimentary remanence acquisition	\$516,468
2011	APR, Heslop et al.	Australian Research Council (LIEF) + institutional matchings	World-class rock magnetic facility at ANU	\$563,078
2012	Heslop, APR, De Deckker, Pillans, Abrajevitch	ANU Major Equipment Committee	Oven and spinner magnetometer	\$90,000
2012	Heslop, Abrajevitch, APR	Australia-NZ IODP Consortium	Magnetofossils and Southern Ocean	\$32,000
2013	Roberts, Bazylinski & Pan	Australian Research Council (Discovery)	Magnetofossils & sedimentary remanence	\$231,023
2013	Arculus, Rohling, Roberts et al.	Australian Research Council (LIEF)	IODP Membership	\$5.3M
2014	Chang, Heslop, Roberts	Australia-NZ IODP Consortium	Magnetofossils and climate	\$20,000
2014	Li, Tohver, Roberts et al.	Australian Research Council (LIEF) + institutional matchings	Paleomagnetic facility at UWA	\$991,524
2015	Roberts, Harrison & Muxworthy	Australian Research Council (Discovery)	Unmixing FORC diagrams	\$220,672
2016	Roberts, Heslop, Rohling, Zhao	ANU Major Equipment Committee	New paleomagnetic instrumentation	\$60,000
2017	Roberts, Heslop, Zhao	DeBeers PLC, UK	Pilot study: diamond provenance	\$14,000
2018	Roberts, Oda, Heslop	National Institute of Advanced Industrial Science and Technology (AIST)	Machine learning and FORC diagrams	\$1.1M (100M Yen)

RESEARCH FUNDING (CONTINUED)

Dates	Principal Investigator(s)	Funding Body	Title	Value
2018	Horng, Roberts, Wang	National Institute of Advanced Industrial Science and Technology (AIST) Australian Nuclear Science & Technology Organisation (ANSTO)	Magnetic structure of authigenic pyrrhotite	\$33,830 (commercial value)
2018	Rodriguez-Sans, Qian, Roberts	Australia-NZ IODP Consortium	Global ice volume	\$9,975
2018	Roberts, Heslop, Scealy	Australian Research Council (Discovery)	New generation palaeomagnetic statistics	\$379,000
2019	Roberts, Heslop, Zhao, Rohling	ANU Major Equipment Committee	Replacement of a Kappabridge magnetic susceptibility meter	\$139,000
2019	Grant, Roberts, Zhao	Australia-NZ IODP Consortium	Pleistocene Australian Monsoon	\$20,000
2019	Li, Roberts	National Natural Science Foundation of China	Magnetosome biomineralization	\$478,000 (2.31M RMB)
2020	Roberts, Heslop, Harrison & Muxworthy	Australian Research Council (Discovery)	Single sample FORC unmixing	\$446,645
2010 - present	Roberts et al.	Laboratory operation + VC strategic research support	Various	\$831,748
2020	Roberts, Heslop	AIST, Japan	FORCsensei server	\$10,600
2022 - 2024	Heslop, Roberts, Fallon, Grant, Constable, Korte	Australian Research Council (Discovery)	Australian paleo-secular variation	\$470,000

Note: Small grants of the order of a few £k are not listed above. Logistics support for research cruises and for Russian and Antarctic fieldwork is in addition to the above grants. Russian fieldwork was funded via a consortium of major petroleum companies (Agip, Anadarko, Arco, BP, Exxon, JNOC, Mobil, Philips & Texaco). * = multi-institutional N.S.F. grants led by APR and/or KLV, with significant components that went to partner institutions in addition to the stated funds that went to the PI(s). † = Independent fellowships awarded to the named individuals, who applied to come to Southampton to work in my laboratory.

POST-DOCTORAL RESEARCHERS SUPERVISED

Dates	Funding Body	Name, Topic, Papers
1993 - 2001	U.S. NSF & Univ. of Southampton	Dr Christopher R. Pike, Development of FORC diagrams (papers 39, 41, 47, 50, 51, 80). Now: Retired, USA.
1999 – 2001	European Union	Dr Jaume Dinarès-Turell, Environmental magnetism and geomagnetic field behaviour (papers 57, 61, 65). Now: Senior Scientist (<i>Prima Ricercatore</i>), INGV, Rome, Italy.
2000 - 2001	The Royal Society	Dr Guo Bin, Paleoclimate record in Chinese loess/ paleosol deposits (paper 54). Now: oil exploration industry, Australia.
2000 - 2002	European Union	Dr Juan C. Larrasoña, Mediterranean paleoceanography and African monsoon dynamics (papers 62, 65, 72, 92, 103, 104, 110). Now: Staff Scientist, Instituto Geológico y Minero de España, Zaragoza, Spain.
2001 - 2003	The Leverhulme Trust	Dr Michael Winklhofer, Geomagnetic field behaviour and paleoceanography (papers 71, 72, 79). Was: Heisenberg Fellow. Now: Professor, Department of Biology and Environmental Sciences, Carl von Ossietzky Universität, Oldenburg, Germany
2003 - 2004	European Union	Dr Agnes Elmaleh (joint with Prof. I.N. McCave, University of Cambridge), Sedimentary remanence acquisition. Now: Maître de Conférence (Lecturer), Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie, Sorbonne Université, Paris, France
2004 - 2006	The Royal Society	Dr Adrian R. Muxworthy, Rock magnetism (papers 101 and 109). Now: Professor, Imperial College, London, UK.
2004 - 2006	European Union	Dr Claire Carvallo, Rock magnetic pre-screening for paleointensity studies (papers 94, 96). Now: Maître de Conférence (Lecturer), Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie, Sorbonne Université, Paris, France.
2005 - 2007	University of Southampton	Dr Christopher J. Rowan (papers 96, 102, 106, 115, 116). Now: Assistant Professor, Department of Geology, Kent State University, Ohio, USA.
2005 - 2008	European Union	Dr Qingsong Liu, Environmental magnetic analysis of aeolian dust in the North Pacific and North Atlantic Oceans (papers 95, 96, 104, 106, 113, 114). Now: Professor ('100' Talents Program), Southern University of Science and Technology, Shenzhen, China.
2006 - 2008	Natural Environment Research Council	Dr David Krása, Role of magnetostatic interactions on paleo and environmental magnetic signals: quantification using nanoimprint lithography (with Prof. Wyn Williams) (paper 117). Now: Head of Sector, Physical Sciences and Engineering Unit, European Research Council, Brussels, Belgium.
2009 - 2011	Natural Environment Research Council	Dr Liao Chang, Fundamental magnetic properties of greigite (Fe_3S_4). Now: Associate Professor, Peking University, Beijing, China.
2010 - 2011	European Union	Dr Luigi Jovane, The Late Eocene climatic transition from greenhouse to icehouse conditions in the Neo-Tethys. Now: Professor, Department of Oceanography, University of São Paulo, São Paulo, Brazil.
2011 - present	Australian Research Council	Dr David Heslop. Now: Associate Professor, Australian National University.

2011 - 2014	Australian Research Council	Dr Alexandra Abrajevitch, Developing new dating methods using cosmogenic isotopes. Now: Staff Scientist, Institute of Tectonics and Geophysics, Russian Academy of Sciences, Khabarovsk, Russia.
2011 - 2014	Australian Research Council	Dr Maureen Davies-Walczak, Developing new dating methods using cosmogenic isotopes. Now: Assistant Professor, Oregon State University.
2012 - 2013	Chinese Academy of Science	Dr Tingping Ouyang, Effects of magnetofossils on paleomagnetic recording. Now: Professor, South China Normal University, Guangzhou, China.
2013 - 2015	Australian Research Council	Dr Liao Chang, Sedimentary remanence acquisition. Now: Associate Professor, Peking University, Beijing, China.
2013 - 2015	Northwestern University, China	Dr Bin Wang, Carboniferous tectonics of NW China. Now: Associate Professor, Northwest University, Xi'an, China.
2015	China Scholarship Council	Dr Liang Chen, Effects of magnetofossils on paleomagnetic recording. Now: Researcher, South China Sea Marine Engineering Surveying Center, State Oceanic Administration, Guangzhou, China.
2015 - 2016	Chinese Academy of Science	Dr Ping Liu, Chronostratigraphy of the Australasian microtektite layer, the Matuyama-Brunhes boundary, and MIS 19. Now: Associate Professor, University of Chinese Academy of Sciences, Beijing, China.
2015 - 2016	China Scholarship Council	Dr Zhaoxia Jiang, Magnetic properties of hematite and goethite and North Pacific sedimentary magnetism and paleoclimate. Now: Associate Professor, Ocean University of China, Qingdao, China.
2015 - 2016	Australian Research Council	Dr Pengxiang Hu, Sedimentary remanence acquisition. Now: Laboratory Manager, Australian National University.
2016 - 2017	China Scholarship Council	Dr Yi Wu, Sedimentary remanence acquisition. Now: Associate Professor, South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, China.
2017 - 2018	China Scholarship Council	Dr Yan Dong, Magnetism of salt marsh sediments. Now: Associate Professor, Nantong University, Nantong, China.
2018 - 2020	Australian Research Council and AIST, Japan	Dr Pengxiang Hu, FORC unmixing and artificial intelligence. Now: Laboratory Manager, Australian National University.
2018 - 2019	AIST, Japan	Dr Tetsuro Sato, FORC unmixing and artificial intelligence Now: Post-doc, University of Tokyo, Tokyo, Japan.
2018 - 2019	China Scholarship Council	Dr Hengye Wei, Signatures of sedimentary diagenesis. Now: Professor, Southwest Petroleum University, Chengdu, China.
2020 - 2021	Australian Research Council	Dr Jia Liu, New generation of paleomagnetic statistics. Now: post-doc, ANU Biological Data Science Institute and Data-61, CSIRO, Canberra, Australia.
2020 - 2022	Australian Research Council	Dr Xiang Zhao, Single sample FORC unmixing (current).
2021 - 2022	Australian Research Council	Dr Derya Guerer, Paleomagnetic statistics of apparent polar wander paths (current; on leave from Lectureship, University of Queensland).
2022 - 2024	Australian Research Council	Dr Agathe Lisé-Pronovost, Paleomagnetic secular variation of Australia (current; jointly funded with the University of Melbourne).

Funding for many of the listed post-doctoral researchers is included in the research grants listed above.

Ph.D. STUDENTSHIP FUNDING

Dates	Supervisor(s)	Funding Body	Title, Student
10/1997 - 1/2002	Rohling, Thomson, Mills, APR	U.K. NERC	Centennial-resolution palaeoceanography of the Aegean Sea: 15,000 BP – Present (James Casford)
8/1998 - 7/2002	APR	U.K. NERC	Paleomagnetic and rock magnetic constraints on the geodynamic evolution of Sakhalin (NW Pacific) (Richard Weaver)
10/1998 - 4/2003	APR	Italian Programma Nazionale di Ricerche in Antartide (PNRA)	Chronology of Cenozoic Antarctic glacial history from circum-Antarctic marine sedimentary records (Fabio Florindo)
10/1999 - 6/2003	Rothwell, Rohling, Stow, APR	U.K. NERC	Climatic control on allochthonous sedimentation in the deep-sea (Babette Hoogakker)
10/2001 - 9/2005	APR	U.K. NERC	Neogene paleomagnetism and geodynamics of the Hikurangi margin, East Coast, New Zealand (Chris Rowan)
10/2005 - 1/2009	APR	U.K. NERC (Dorothy Hodgkin Postgraduate Award)	Fundamental magnetic properties of greigite (Fe_3S_4) (Liao Chang)
10/2005 - 10/2009	APR, Muxworthy (Imperial), MacNiocaill (Oxford)	U.K. NERC	Assessment of the usefulness of lithic clasts from pyroclastic deposits as paleomagnetic recorders (Greig Paterson)
10/2006 - 3/2011	APR, Liu (Beijing)	U.K. NERC (Dorothy Hodgkin Postgraduate Award)	How does Chinese loess become magnetized? (Xiang Zhao)
2/2011 - 2/2015	APR, David Heslop	Australian Postgraduate Award	Exploring geomagnetic field behaviour during polarity reversals and excursions (Elizabeth Ingham)
2016 – 2021	APR, David Heslop, Katharine Grant	China Scholarship Council	Environmental magnetism of eastern Mediterranean sediments and aeolian dust flux changes over orbital timescales (Yao Qian)
2018 - 2020	APR, Qingsong Liu, David Heslop	China Scholarship Council	Paleomagnetic and rock magnetic studies of North Pacific Ocean and South China Sea sediments (Congcong Cai; Dual PhD with University of Chinese Academy of Sciences)
2018 - 2020	APR, Rohling, Heslop, Galeotti, Florindo	Colfuturo Foundation, Colombia	Environmental magnetism of Eocene hyperthermal events (Victor Piedrahita-Velez)
2018 - 2020	Rohling, Grant, APR	ANU International Scholarship	Miocene-Pliocene Mediterranean climate evolution (Udara Amarathunga)
2019 - 2022	Wei Lin, APR, Yongxin Pan	Third World Academy of Science	Magnetotactic bacterial biogeography (Pranami Goswami; Dual PhD with University of Chinese Academy of Sciences)

Funding for studentships is additional to listed research grants (each studentship is worth ~ £50k; overseas studentships are worth £75k).

POSTGRADUATE SUPERVISION

Completed M.Sc. students

Kirsty Brown (deceased); Stewart Collyer (1997/98); Martin Ineson (1998/99); James Eldrett (subsequently completed a Ph.D. at Southampton), Jodie Howe (subsequently completed a Ph.D. at Leeds), Anisch Bakrania (1999/00); Joanne Byatt, Simon Bicknell, Matthew Wills (2001/02), Kirsty Styles (2002/03) (subsequently completed a Ph.D. at Leeds), Tom Broadbent (2004/05) (subsequently completed a Ph.D. at the University of Wales, Bangor), Andriana Stoddart (2020/21).

Completed Ph.D. students

- 1995:** Dr Yu-Long Cui, now Businessman (co-supervisor; papers 10, 17, 26).
- 2002:** Dr James Casford (deceased), was Lecturer, Department of Geography, University of Durham (co-supervisor).
- 2002:** Dr Richard Weaver, was Research Geophysicist, Offshore Hydrocarbon Mapping (OHM) Ltd (supervisor; papers 59, 64, 74, 80, 83, 99), now a patent lawyer.
- 2003:** Dr Fabio Florindo, now equivalent to Professor (*Dirigente di Ricerca*), Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy (supervisor; papers 30, 32, 35, 36, 44, 45, 46, 52, 54, 55, **56**, 60, 66, **67**, **68**, 70, 80, **81**, **82**, 84, 98, 99, 102, 105; thesis papers in bold), former Solid Earth Geophysics editor for the major AGU journal *Geophysical Research Letters*; now Editor-in-Chief of *Reviews of Geophysics* and member of Academia Europaea.
- 2003:** Dr Babette Hoogakker, long-term NERC Independent Research Fellow, Department of Earth Sciences, University of Oxford; now Associate Professor, Heriot-Watt University, Edinburgh, UK (co-supervisor; paper 61).
- 2005:** Dr Christopher J. Rowan, now Assistant Professor, Kent State University, Ohio, USA (supervisor, papers 85, 86, 87, 108). See blogs for both *Science* and *Nature*: <http://scienceblogs.com/highlyallochthonous/> and http://www.nature.com/naturejobs/authors/Rowan_Chris.html.
- 2009:** Dr Liao Chang, now Associate Professor, Peking University (supervisor; papers 96, 106, 109, 116, 118).
- 2009:** Dr Greig Paterson, was Associate Professor, Chinese Academy of Sciences, Beijing, China; now NERC Independent Research Fellow and Lecturer, University of Liverpool (supervisor; papers 124, 125).
- 2010:** Dr Xiang Zhao, now Post-doctoral researcher, ANU (supervisor; papers 122, 123).
- 2015:** Dr Lizzie Ingham, semi-professional athlete and geophysicist at Ruden AS GeoSolutions, Norway; now Environmental Scientist, Taranaki Regional Council (supervisor; papers 171, 205).
- 2021:** Dr Congcong Gai, now Post-doctoral researcher, Southern University of Science and Technology, Shenzhen, China (supervisor; paper 243).
- 2021:** Dr Yao Qian, Lecturer, Zhejiang Ocean University, Zhoushan, China (supervisor; papers 255, 275, 282).

Visiting Ph.D. students

- 2002:** Dr Kais Mohamed, University of Vigo (supervised by Dr Daniel Rey), Vigo, Spain (3 months), PhD completed 2006. Now: Lecturer, University of Vigo, Vigo, Spain (papers 65, 129).
- 2009 - 2010:** Dr Jairo Savian, University of São Paulo (supervised by Profs. Luigi Jovane and Ricardo Trindade), São Paulo, Brazil (1 year), PhD completed 2013. Now: Professor, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil (papers 173, 185).
- 2010:** Dr Stella Lucifora, University of Rome III (supervised by Prof. Massimo Mattei), Rome, Italy (3 months), PhD completed 2011. Now: Environmental Geologist, Rome, Italy (paper 149).
- 2013 - 14:** Dr Xiaoqing Pan, Zhejiang University (supervised by Prof. Zhong-Yue Shen), Hangzhou, China (6 months), PhD completed 2014. Now: Geologist, Zhejiang Institute of Hydrogeology and Engineering Geology, Zhejiang, China (paper 177).
- 2013 - 14:** Dr Pengxiang Hu, University of the Chinese Academy of Science (supervised by Prof. Qingsong Liu), Beijing, China (1 year), PhD completed 2015. Now: Laboratory Manager, ANU (papers 164, 179, 186).

- 2016 - 17:** Dr Meinan Shi, China University of Geosciences (supervised by Prof. Huaichun Wu), Beijing, China (6 months), PhD completed 2017. Now: Lecturer, China University of Geosciences, Beijing.
- 2016 - 17:** Mr Mingkun Li, Guangzhou Institute of Geochemistry, University of the Chinese Academy of Science (supervised by Prof. Tingping Ouyang), Guangzhou, China (1 year), PhD completed 2018. Now: Post-doc, Sun Yat-Sen University, Guangzhou, China.
- 2017:** Mr Tetsuro Sato, Tohoku University (supervised by Prof. Norihiro Nakamura), Japan (3 months), PhD completed 2018. Now: Post-doc, University of Tokyo, Japan.
- 2017 - 18:** Mr Feng Wang, East China Normal University (supervised by Prof. Weiguo Zhang), Shanghai, China (1 year), PhD completed 2019. Now: Lecturer, Shantou University, China.

SUMMARY OF RESEARCH FUNDING (Since 1993)

- | | | |
|------------------------|--|--|
| 1993 - 1996: | \$US943,000 (6 grants from the U.S. National Science Foundation) | |
| | \$US115,000 (U.S. Dept of Energy) | \$US50,000 (U.S. Geological Survey) |
| | \$US42,000 (U.S. Joint Oceanographic Institutions) | |
| 1996 - 2009: | £7,578,000 (U.K. Natural Environment Research Council) | |
| | £175,000 (Higher Education Funding Council for England) | |
| | £1,368,000 (4 grants from the European Union) | £315,000 (8 grants from The Royal Society) |
| | £50,000 (The Leverhulme Trust) | £60,000 (The University of Southampton) |
| | £200,000 (Japan Society for the Promotion of Science) | |
| 2010 - present: | \$15,023,000 (11 grants from Australian Research Council + grants from ANU; NZ Marsden Fund; ANSTO; AIST, Japan; National Natural Science Foundation of China; Industry) | |

Total research funding: \$US 1.15 Million, £9.79 Million; \$A14.5 Million = \$A35.2M

PHILANTHROPIC AND OTHER FUNDING

- 2005 - 2009:** £400k, philanthropic donations to the School of Ocean and Earth Science, Southampton (in a start-up philanthropy operation).
- 2010 - 2013:** \$A 1.3M, philanthropic donations to the Research School of Earth Sciences, ANU (in a start-up philanthropy operation).
- 2011:** \$A 8.4M, Northern Research Futures Collaborative Research Network, to build research capacity in northern Australia involving Charles Darwin University, ANU, James Cook University and the Australian Institute of Marine Science (Federal Government funding).
- 2012 - 2017:** Annual target for College increased progressively and was the highest among ANU colleges (with longest standing and most mature development activity). \$3.5M secured in 2015, growing annually.

CAPITAL PROJECT FUNDING

- 2010:** \$A 11.2M, new building for Research School of Earth Sciences, ANU (won ACT and National Master Builders Australia (MBA) Award for Best Public Building (\$5-10M category; completed 2012)).
- 2013:** \$A 25.7M, renovation of historic John Curtin School of Medical Research building for cross-College Science needs, ANU (National Trust (ACT) Award for Significant Contribution to Heritage Conservation and Australian Institute of Architects (ACT) J.S. Murdoch Heritage Award; completed 2015).
- 2013:** \$A 5M, ANU Centre for Advanced Microscopy (completed 2015).
- 2014:** \$A 45M, new building shared between ANU Mathematical Sciences Institute, Research School of Computer Science, and Australian Signals Directorate (completed in 2018).
- 2014, 2017:** \$A 124M, Stage 1, new precinct for Research School of Physics and Engineering (construction started in 2018-2019; total project cost will be ~\$300M).
- 2015:** \$A 5M, renovated space for Psychology, the Centre for Public Awareness of Science, and Science Administration (completed in 2015).

Images of completed buildings.



Jaeger 8 Building, Research School of Earth Sciences (completed 2012), ANU (winner ACT and National Master Builders Australia (MBA) Award for Best Public Building (\$5-10M category)). Funded, designed, and completed during my tenure as Director of RSES.



Science teaching Building (completed 2013), ANU, part of a \$220M project for 3 major buildings and power plant, including for the Research School of Biology and Research School of Chemistry. Funded, planned, and completed over the terms of 3 deans (~10 years), but completed during my tenure. The buildings have won a range of national awards.

COMPANY DIRECTORSHIPS

2014 - 2017: Director, ANU Enterprise (a company wholly owned by ANU); Board provides governance and strategic oversight on behalf of ANU for a parent company of 3 companies, including ASI, Social Research Centre, and ANU Edge. Total annual revenues of ~\$A 23M.

2012, 2014 - 2016: Director, Australian Scientific Instruments Pty Ltd (owned by ANU Enterprise); manufactures a range of high-tech scientific instruments, including the Sensitive High-Resolution Ion Micro-Probe (SHRIMP), which was invented in the Research School of Earth Sciences, ANU.

UNIVERSITY ADMINISTRATIVE ACTIVITIES

Dates	Nature of Contribution
2010 - 2017	Australian National University
2012 - 2017	Dean, College of Physical and Mathematical Sciences (oversight of 5 Research Schools: Astronomy & Astrophysics, Chemistry, Earth Sciences, Mathematics, Physics, plus Centre for the Public Awareness of Science and Centre for Advanced Microscopy; total post-tax annual spend of ~\$150M)
2012 - 2017	Member, ANU Senior Management Group (University Executive and Deans)
2017	Project Steering Group, Union Court Development (\$220M campus redesign for Union Court and University Avenue)
2016 - 2017	Member, ANU Self-Assessment Team, Science in Australia Gender Equity Athena Swan Pilot
2016	Member, Selection Committee, Dean, College of Asia and Pacific
2016	Member, Selection Committee, Dean, Graduate Studies
2016	Member, Major Projects Sub Committee (\$220M campus redesign for Union Court and University Avenue)
2016	Chair, Selection Panel, 2017 ANU Alumnus of the Year (Research or Academia)
2015 - 2016	Chair, Research Information Management System Project Steering Committee (overseeing implementation of \$8M research information platform across ANU)
2015	Member, Human Resources Business Transformation Project Steering Committee
2014 - 2015	Chair, ANU Research Management Systems and IT Support Committee
2014 - 2015	Chair, ANU Brazil Regional Reference Group
2014 - 2016	Deputy Chair, University Research Committee
2014 - 2017	Member, Service Improvement Group Steering Committee (Chaired by VC — provides strategic direction on administrative modernization of the ANU)
2014 - 2015	Member, ANU Research Infrastructure Committee (Chaired by DVC-R)
2014	Member, Appointment Committee, Director of Facilities and Services
2014	Member, Selection Committee, Dean, College of Medicine, Biology and Environment
2014 - 2016	Member, Hilda John Endowment Selection Committee (Chaired by DVC-R)
2014 - 2015, 2017	Chair, Joint Colleges Executive Committee (oversees joint activity of 2 Science Colleges that comprise ~55% of ANU and administration that services a \$340M annual spend)
2013 - 2015	Member, ANU Academic Promotions Working Party (Chaired by DVC-A)
2013 - 2014	Member, Information Technology Services Workspace Steering Committee
2013 - 2016	Member, Workplace Health and Safety Policy Committee
2013 - 2015	Member, University Risk Management and Audit Committee
2013 - 2016	Member, University Out-of-Round Promotion Committee
2012 - 2013	Member, Executive Director, Administration & Planning, Appointment Committee
2012 - 2013	Member, University Promotion Appeal Committee
2010 - 2012	ANU Representative, Management Committee, Northern Australian Marine Alliance (alliance involving ANU, Charles Darwin University, Australian Institute of Marine Science, Northern territory Government; \$750k annual budget)
2010 - 2012	Acting Director (as required), College of Physical and Mathematical Sciences
2012	Member, Deputy Vice-Chancellor (Research) Appointment Committee
2012 - 2017	Member, University Research Committee (School Director representative, then as Dean)
2012 - 2017	Member, Academic Board (School Director representative, then as Dean)
2004 - 2009	University of Southampton
2009	Member, Politics & International Relations Review Group, Faculty of Law, Arts and Social Science
2009	Member, Senate Appeal Panel (final court of appeal for students; at request of DVC (Education))
2009	Chair, Committee of Independent Enquiry into a Student Death
2008	Member, Academic Excellence Group (Chaired by VC)
2008	Independent Investigator, Conflict between Head of another school and a member of academic staff (at request of Dean, Faculty of Medicine, Health and Life Sciences)
2008	Member, Human Resources Review Working Group (delivered restructuring and cost rationalization by loss of 11 positions to University HR department)

2008	Member, Vice-Chancellor Appointment Committee (constituted by 5 lay members of University Council and 4 Senate Representatives; I was Senate representative for the Faculty of Engineering, Science & Mathematics)
2008	Speaker, Senior Leadership Development Course (on communication within Schools, at request of VC)
2008 - 2009	Member, University of Southampton 84 Club (links senior representatives of the University and the regional business community and public sector)
2007	Member, Senior Deputy Vice-Chancellor Nomination Committee (at request of VC)
2007	Chair, Interview Panel for appointment of 4 Lectureships to newly restructured School of Biological Sciences
2007	Speaker, University Development Trust Board Annual Dinner (dinner for 75 guests, mainly Development Trust Board members and other high net-worth individuals concerning philanthropic support of the National Oceanography Centre)
2007	Speaker, Alumni Reception, Washington, D.C. (concerning philanthropic support of the National Oceanography Centre)
2006 - 2009	Member, University Internationalization Strategy Group (Representing DVC (Research); committee reports to University Executive through PVC (Internationalization))
2006 - 2009	Member, University Branding Leadership Group (at request of Senior DVC)
2006	Chair, International Postgraduate Taught Student Admissions Working Group (at request of VC). Resulting report led to changed University processes and has significantly increased international student numbers; referred to as "Roberts Report"
2006	Member, Assessment Panel for Evaluation of Private Partnership to establish a Foundation College associated with the University
2006	Member, Appointment Committee for Director of Learning and Teaching Enhancement Unit (at request of PVC (Education))
2005 - 2008	Member, University Academic Quality and Standards Committee (Faculty representative)
2004 - 2009	Member, University Senate
2004 - 2005	Member, Postgraduate Code of Practice Working Group (Faculty representative)

FACULTY ADMINISTRATIVE ACTIVITIES

Dates	Nature of Contribution
2010 - 2017	Australian National University
2015	Chair, Appointment Committee, Research School of Earth Sciences Directorship
2014 - 2015	Chair, Appointment Committee, Research School of Physics and Engineering Directorship
2014	Chair, Appointment Committee, Mathematical Sciences Institute Directorship
2014 - 2015	Chair, Joint Colleges of Science Occupational Health and Safety Committee
2014 - 2015, 2017	Chair, Joint Colleges of Science Executive Committee (for two ANU Science Colleges)
2012 - 2017	Member, Joint Colleges of Science Executive Committee
2012 - 2017	Chair, College Executive, College of Physical and Mathematical Sciences
2012 - 2017	Chair, College of Physical and Mathematical Sciences Local Promotion Committee
2012	Chair, Appointment Committee, Research School of Chemistry Directorship
2012	Member, Appointment Committee, Research School of Earth Sciences Directorship
2012	Member, Appointment Committee, Research School of Physics and Engineering Directorship
2010 - 2012	Member, College Executive, College of Physical and Mathematical Sciences
2010 - 2011	Member, College of Physical and Mathematical Sciences Local Promotion Committee
2012	Member, Implementation Steering Committee for Administrative Review of the Colleges of Science Joint Administrative Group
1997 - 2009	University of Southampton
2005 - 2009	Member, Collaborative Training Account Management Board (oversight of an £8M award for doctoral and masters training from the U.K. Engineering & Physical Sciences Research Council)
2005 - 2009	Member, Faculty Policy and Strategy Committee

2006	Assessor, Research Assessment Exercise Simulation (for Civil and Environmental Engineering, and Mechanical Engineering submissions)
2004 - 2005	Member, Faculty Graduate School Working Group
2004 - 2005	Member, Faculty Reading Group for New Academic Programs
2004	Member, Faculty Working Group on Consultancy
2000 - 2002	Chairman, Board of Studies for Geophysical Sciences (members from SOES, Physics, Mathematics, and Geography)
2000 - 2002	Member, Science Faculty Admissions Committee
1996 - 2002	Member, Board of Studies for Geophysical Sciences
1997 - 1999	Member, Science Faculty Examinations Committee

SCHOOL ADMINISTRATIVE ACTIVITIES (2000-2012)

Dates	Nature of Contribution
2010 - 2012	Australian National University
2010 - 2012	Director, Research School of Earth Sciences
2000 - 2009	University of Southampton
2005 - 2009	Associate Director (Academic Affairs), National Oceanography Centre, Southampton
2005 - 2009	Head, School of Ocean and Earth Science (SOES)
2005 - 2009	Chair, School Board (met 4 times annually)
2005 - 2009	Chair, School Promotions Committee
2005 - 2009	Chair, School Policy and Resources Committee
2005 - 2009	Chair, School Appointment Panels for academic and senior administrative positions.
2005 - 2009	Member, Executive Board, National Oceanography Centre
2005 - 2009	Member, National Oceanography Centre Research Committee
2006 - 2009	Executive Board Representative and Champion, NOCS Environment Committee (ISO14001 accreditation achieved for NOCS in 2008)
2004	Member, National Oceanography Centre Integration Implementation Management Group (Chair, Education Sub-group)
2004 - 2005	Head, Graduate School of the National Oceanography Centre, Southampton (GSNOCs)
2004 - 2005	Chair, Graduate School of NOCS Committee
2004 - 2005	Member, SOES Academic Resources Committee (strategic planning and submission of School financial input to University Strategic Resource Allocation Model)
2004 - 2005	Member, SOES Promotions Committee (considers promotions to Senior Lecturer, Reader and Professor and for accelerated salary increments)
2001 - 2009	Member, SOES Educational Policy Committee (provides strategic oversight for academic programs throughout SOES)
2001 - 2009	Member, SOES Quality and Standards Committee (deals with details of curriculum for SOES degree programs and reports to Educational Policy Committee)
2000 - 2002	Admissions Officer, Geophysical Sciences
2000 - 2002	Member, SOES Admissions and Recruitment Committee

PROFESSIONAL DEVELOPMENT

Dates	Details of Training
2019	International Education Management Conference, Harbin, China
2016	Finance and Accounting for the Nonfinancial Executive, Graduate School of Business, Stanford University, USA
2016	International Education Management Conference, Chongqing, China
2016	Australian Institute of Company Directors, Foundations of Directorship Course
2016	Performance Development Masterclass
2016	Crawford Australian Leadership Forum, Canberra, Australia
2016	Universities Australia Conference, Canberra, Australia
2009	Council for Advancement and Support of Education (CASE) Advances Development for Deans Conference, San Diego, USA

2007	Council for Advancement and Support of Education (CASE) Development for Deans Conference, Vancouver, BC, Canada
2007	Internationalizing Higher Education: A Unique Consultative Conference, London
2006	Performance Management (3 components, 1 day each: Understanding the Legal Requirements; Managing Performance; Difficult Conversations)
2006	Safety for Senior Executives (Institution of Occupational Safety and Health)
2005 - 2006	Heads of Department Programme, Leadership Foundation for Higher Education, York

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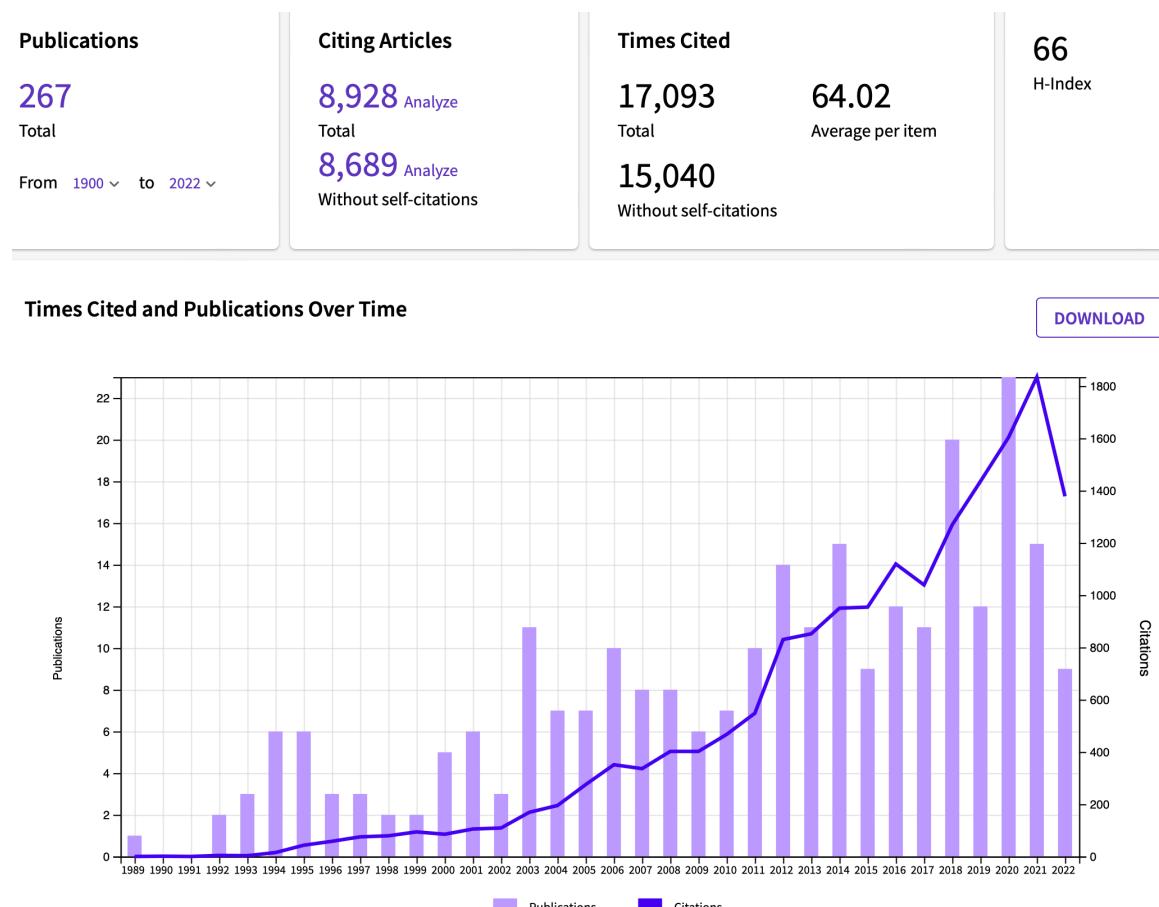
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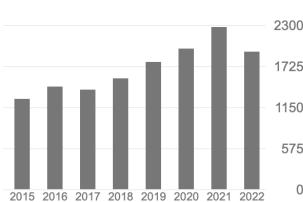
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MEDIA AND OTHER ACTIVITIES

- 1995:** Front-page article in University of California, Davis, student newspaper (*California Aggie*) about the most interesting courses on campus (Earthquakes and Earth Hazards; 300 students per year). This article generated a follow-up piece by the *Chicago Tribune*.
- 1998:** Discovery of a thick volcanic ash layer from an eruption that may have been as big as the famous 1883 Krakatoa eruption, in the second year of the Cape Roberts Project, Antarctica, generated extensive international newsprint and television coverage, including a report on CNN. Extensive international newsprint and broadcasting coverage of activities in the first year of the Cape Roberts Project, Antarctica, included television coverage on "60 minutes" and other news programs in New Zealand, Germany and Italy.
- 2000:** BBC Radio Solent, live radio interview (1 hour; Desert Island Disks format) on Antarctica.

2000: BBC Radio Solent, live radio interview (15 minutes) on effects of Antarctic ice sheets, climate change and sea level.

2003: BBC Radio Solent, live radio interview (5 minutes) on the anniversary of discovery of the South magnetic pole. Reports on award of the Philip Leverhulme Prize.

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Report on international meeting organised in relation to development of FORC diagrams by Pike, Roberts and Verosub (attended by 60 scientists from 11 countries representing departments of geology, geophysics, physics, chemistry, materials sciences, electrical and computer engineering, as well as the magnetic recording industry (e.g., IOmega, Seagate, Hitachi)). <http://www.spacedaily.com/news/nanotech-03zc.html>

Cover of *Nature*, March 8, 2007 + *Making the Paper* editorial (paper 97).

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News and views piece in *Nature* by Schneider (2014; Sea levels from ancient seashells, v. 508, pp. 465-466) providing commentary on article by Rohling et al. (2014; paper 167 above).

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Report on Geophysics of Global Climate Change meeting (chaired by APR) in London, February, 2009

<http://network.nature.com/hubs/london/events/4432>

Paper in *Nature Geoscience* (Rohling et al., 2009) on sea level change over the last 5 glacial cycles was reported by >400 web sites around the world.

News and Views commentary in *Nature* (Roberts and Grün, 2010) on the earliest human occupants of Britain were reported in newsprint (including the *New York Times*) and web sites around the world.

Similar levels of international media interest have been generated by subsequent *Nature* papers (in 2012, 2014, 2015).

American Geophysical Union Research Spotlight, published in *EOS*, reporting on paper by Roberts et al. (2018) in *Journal of Geophysical Research – Solid Earth* (<https://eos.org/research-spotlights/challenging-the-day-diagram-a-rock-magnetism-paradigm>).

Report in *Science* on a *Nature* paper that I reviewed about the oldest hominin lithic tools outside of Africa (<http://www.sciencemag.org/news/2018/07/our-ancestors-may-have-left-africa-hundreds-thousands-years-earlier-thought>)

Report by *Newsweek* (and many other outlets) on a paper by Chou et al. (2018) in *Proceedings of the National Academy of Sciences of the USA* (<https://www.newsweek.com/earths-magnetic-polarity-can-flip-much-more-quickly-previous-thought-1078538>).

Report on rapid recent changes in Earth's magnetic field (<https://www.abc.net.au/news/science/2019-01-25/earths-magnetic-poles-are-moving-but-dont-flip-out/10727276>); followed up with numerous ABC radio interviews.

American Geophysical Union Editors' Highlight, published in *EOS*, reporting on paper by Heslop and Roberts (2020) in *Journal of Geophysical Research – Solid Earth* (<https://eos.org/editor-highlights/uncertainty-propagation-in-paleomagnetic-data-quantified>).

American Geophysical Union Editors' Highlight, published in *EOS*, reporting on paper by Li et al. (2020) in *Journal of Geophysical Research – Biogeosciences* (<https://eos.org/research-spotlights/chemical-shuttling-bacteria-follow-earths-magnetic-field>).

Covers of *Journal of Geophysical Research – Biogeosciences*, July, 2020 and July, 2021.

American Geophysical Union *Science News*, published in *EOS*, reporting on paper by Roberts et al. (2021) in *Journal of Geophysical Research – Solid Earth* (<https://eos.org/editor-highlights/a-step-towards-understanding-the-magnetic-properties-in-hematite>).

Editor's Vox, published in *EOS*, reporting on paper by Jiang et al. (2022) in *Reviews of Geophysics* (<https://eos.org/editors-vox/using-hematite-to-decipher-past-climates-and-environments>).

