

CURRICULUM VITAE

Professor Michael C.R. Davies CEng FICE FGS FEngNZ FRSE FLSW

SURNAME: DAVIES
FORENAMES: Michael Charles Radcliffe
NATIONALITY: British
[also hold New Zealand Permanent Residence]

MEMBER SOCIETY: British Geotechnical Association
New Zealand Geotechnical Society

Email: michael.davies@sussex.ac.uk
michael.davies@city.ac.uk; mdavie73@uwo.ca



ACADEMIC & PROFESSIONAL QUALIFICATIONS

BSc(Eng) (Hons)	Civil Engineering	University of London, King's College	1978
AKC	Diploma in Divinity	University of London, King's College	1978
MPhil	Soil Mechanics	University of Cambridge	1979
PhD	Soil Mechanics	University of Cambridge	1982
CEng	Chartered Engineer	Engineering Council, UK	1988

CAREER HISTORY

University of Sussex, England, UK

Professor Emeritus (2020 to date)
Deputy Vice-Chancellor (2013-2015)
Pro-Vice-Chancellor (Research) (2013-2019)
Professor of Engineering (2013-19)

University of Auckland, New Zealand

Dean of the Faculty of Engineering (2007-2012)
Pro Vice-Chancellor of The University of Auckland Tāmaki Innovation Campus (2009-2012)
Professor of Engineering (2007-2012)

University of Dundee, Scotland, UK

Deputy Principal (2006-2007)
Dean of the Faculty of Engineering and Physical Sciences (2002-2007)
Head of the School of Engineering (2000-2002),
Professor of Civil Engineering (1997-2007)

Cardiff University, Wales, UK

Lecturer in Soil Mechanics (1983-1997)

University of California, Los Angeles, USA

NATO/SERC Research Fellow (1982-1983)

MAJOR DISTINCTIONS

Fellow of the Royal Society of Edinburgh ¹	Elected 2003
Fellow of the Learned Society of Wales ¹	Elected 2019
Fellow of Engineering New Zealand	Elected 2009
Fellow of the Institution of Civil Engineers	Elected 2010
Fellow of the Geological Society of London	Elected 1985

Adjunct Research Professor Western University, Ontario, Canada	2025 to date
Honorary Visiting Professor City St George's, University of London	2015 to date
Honorary Professor University of Auckland	2013-2016
Honorary Professor University of Dundee	2007-2013
Honorary Professor Zhejiang University of Technology, China	2005-2010
Honorary Professorial Fellow of the Scottish Crop Research Institute	2001-2007

¹ The Royal Society of Edinburgh and the Learned Society of Wales are the national academies of science & letters for Scotland and Wales, respectively

RESEARCH INTERESTS

Research interests range from land reclamation techniques to soil reinforcement, slope stability, earthquake engineering, cold regions engineering and constitutive modelling of soils. In addition to research in mainstream geotechnical engineering, also collaborate with engineers and scientists at the interface between geotechnical engineering and engineering geology and other disciplines, such as climatology and biology. Interdisciplinary research projects include the effects of global warming on alpine slope stability and the use of vegetation to stabilise slopes.

Established geotechnical engineering research groups and geotechnical centrifuge laboratories at both Cardiff University and the University of Dundee².

RESEARCH FUNDING, PUBLICATIONS AND LECTURES

Published some 190 research papers in journals and refereed conference proceedings, and edited two conference proceedings and a research monograph.

Conceived and conducted more than 60 funded research projects as PI or co-PI. This research has been funded by UK Research Councils, the European Commission, UK and New Zealand government research agencies, and industry. Also been the principal applicant for funding to support a number of strategic research initiatives at the University of Dundee, the University of Auckland and the University of Sussex.

Presented invited lectures, keynote papers and research symposia in Europe, North and South America, Asia and Australasia.

Research Degree Supervision (as Principal Supervisor): 22 PhD Students and 27 Masters Students

Examiner for Doctoral Degrees: 30 candidates (at universities in UK, Australia, Canada, India, Hong Kong, France, South Africa, Singapore, Switzerland)

JOURNAL EDITORSHIP

Member of the Editorial Advisory Boards for the following international journals (*current):

Géotechnique

Canadian Geotechnical Journal

Ground Improvement (Journal of TC211 of the ISSMGE)

*Proceedings of the Institution of Civil Engineers, Ground Improvement** (Chair and Honorary Editor)

Proceedings of the Institution of Civil Engineers, Environmental Geotechnics

International Journal of Physical Modelling in Geotechnics (Journal of TC104 of the ISSMGE)

Transactions of The Royal Society of Edinburgh: Earth Sciences

*Electronic Journal of Geotechnical Engineering**

Journal of The Institution of Engineers, Singapore Part A: Civil & Structural Engineering

Quarterly Journal of Engineering Geology and Hydrogeology

PROFESSIONAL AND LEARNED SOCIETY COMMITTEE MEMBERSHIP

International Society for Soil Mechanics and Geotechnical Engineering

1997-2002: Technical Committee 211 - Ground Improvement

1999-2010: Technical Committee 104 - Physical Modelling in Geotechnics

2003-2007: UK representative on Council

2009-2013: **Vice-President for Australasia & First Vice-President**

2009-2013: **Treasurer**

2013 to date: **Chair** of the ISSMGE Foundation Board of Trustees

British Geotechnical Association

1994-1997 & 2000-2008: Member of the National Executive Committee

2003-2005: Vice-Chair

2005-2007: **Chair**

New Zealand Geotechnical Society

2008-2013: Member of the Management Committee

Australian Geomechanics Society

2009-2013: Member of the National Committee

² <https://www.dundee.ac.uk/facilities/centrifuge-laboratory>

Institution of Civil Engineers Wales - Ground Engineering Group

1989-1994: Member of the Executive Committee

1992-1993: **Chair**

Institution of Civil Engineers Scotland - Geotechnical Group

1999-2007: Member of the Executive Committee

2004-2006: Vice-Chair

2006-2007: **Chair**

Royal Society of Edinburgh

2003-2007: Member of Sectional Committee - B3 Engineering

2013 to date: Member of Research Fellowships Committee - Scottish Government

Learned Society of Wales

2020 to date **Chair** of Sectional Committee – A5 Engineering

Institution of Civil Engineers, UK

1995-1997: Member of the ICE S. Wales Executive Committee

2003-2006: Member of the Research and Innovation Committee

2003-2007: Member of the Associated Societies Chairs Committee

2005-2006: Member of the Engineering Committee

2007-2008: Member of the Learned Society Committee

2007-2012: Member of the Publications Advisory Board

Engineering New Zealand

2019 to date: Member of UK Branch Committee (**Chair** 2022-2024)

International Permafrost Association

2003-2007: UK representative on Council

2005-2007: Vice-Chair of British Permafrost and Periglacial Association

American Society for Testing and Materials

1990-1998: Member of Committee D-18 on Soil and Rock

OTHER RELEVANT ACTIVITIES

- Funding from EU under the ERASMUS scheme in 1990 to study the formation of Engineers in France
- Member of Organising Committee and Editor of the proceedings for 3rd International Conference on Land Reclamation, Cardiff, July 1991
- Member of Organising Committee for British Geotechnical Society conference for Young Geotechnical Engineers, Glasgow, April 1992
- Organised and presented part of course for delegates from commerce, industry and the professions entitled "Business and the environment", Cardiff 1992
- Member of Organising Committee for Geological Society conference, Cardiff, September 1993
- Chair of Organising Committee for British Geotechnical Society conference for Young Geotechnical Engineers, Cardiff, April 1994
- Organiser of EPSRC symposium on Geotechnical Centrifuge Testing, Cardiff, October, 1994
- Co-organiser of ICE/EPSC symposium on Structural Masonry, ICE, London, September, 1996
- Chair of Organising Committee for BGS/CFMS/ISSMFE international conference on Ground Improvement, ICE, London, June 1997
- Member of Organising Committee for Géotechnique/BGS symposium on Pre-failure Deformation Behaviour of Geomaterials, ICE, London, September, 1997
- Member of Organising Committee for BGS Geoenvironmental Engineering Conference, Cardiff, September 1997
- Member of Organising Committee for 8th ISSMGE International Symposium on Landslides, Cardiff, June 2000
- Member of International Scientific Committee for 4th ISSMGE International Conference on Ground Improvement Systems, Helsinki, Finland, June 2000
- Member of Organising Committee for 1st European Permafrost Conference, Rome, Italy, 2001
- Member of International Scientific Committee for the 4th ISSMGE Conference on Physical Modelling in Geomechanics, St Johns, Newfoundland, Canada, July 2002
- Member of Organising Committee for 8th International Permafrost Conference, Zurich, Switzerland, July 2003
- Member of Organising Committee for BGA International Conference on Foundations, Dundee, September 2003.
- Chair of Organising Committee for BGA Annual Symposium, ICE, London, London, June 2003.
- Member of the International Scientific Committee of the A.W. Skempton Memorial Conference (sponsored by ICE, BGA and the Geological Society of London), London, March 2004

- Member of the International Scientific Committee of the 2nd European Permafrost Conference in Potsdam, Germany, June 2005
- Member of the International Scientific Committee of the Institute of Mathematics and its Applications International Conference on Recent Advances in Nonlinear Mechanics, Aberdeen, August 2005
- Member of International Scientific Committee for the 5th ISSMGE International Conference on Physical Modelling in Geotechnics, Hong Kong, August 2006
- Co-Chair of the International Advisory Committee for the Asian Conference on Permafrost, Lanzhou, China, August 2006
- Member of International Scientific Committee for the 14th ISSMGE European conference on Soil Mechanics and Geotechnical Engineering, Madrid, Spain, September 2007
- Member of International Technical Committee for the 2nd BGA International Conference on Foundations, Dundee, June 2008
- Member of Organising Committee for 4th IGS European Geosynthetics Conference (EuroGeo4), Edinburgh, September 2008
- Member of International Advisory Committee for the International Symposium on Ground Improvement Technologies and Case Histories, Singapore, December 2009
- Member of International Scientific Committee for the 7th ISSMGE International Conference on Physical Modelling in Geomechanics, Zurich, Switzerland, July 2010
- Member of International Scientific Committee for the 3rd ISSMGE International Conference on Geotechnical Engineering for Disaster Mitigation & Rehabilitation, Semarang, Indonesia, May 2011
- Member of the Advisory Committee for the 11th ISSMGE Australasian regional conference (as Vice-President Australasia of the ISSMGE), Melbourne, Australia, July 2012
- Member of International Advisory Committee for the 2nd International Symposium on Ground Improvement Technologies and Case Histories, Wollongong, Australia, November 2012
- Member of International Advisory Committee for the 8th ISSMGE International Conference on Physical Modelling in Geotechnics, Perth, Australia, January 2014
- Member of International Advisory Committee for the 7th ISSMGE International Congress on Environmental Geotechnics, Melbourne, Australia, November 2014
- Member of International Advisory Committee for the 3rd ISSMGE European Conference on Physical Modelling in Geotechnics, EUROFUGE 2016, Nantes, France, June 2016
- Member of International Scientific Committee for ETH Zurich, Invitation Summer School, 2017
- Member of International Advisory Committee for the 9th ISSMGE International Conference on Physical Modelling in Geotechnics, London, July 2018
- Member of British Standards Institution Committee B/526/4 Strengthened/Reinforced Soils and Other Fills for the revision and expansion of BS 8006, 2005 to 2025
- Chair of CEN TC288/WG9 for the Execution of special geotechnical works - Soil nailing (EN 14490:2010) 1999-2007
- Executive Chair of the Asia-Oceania Top University League on Engineering (AOTULE), 2008 -2009
- Member of the Engineering and Physical Sciences Research Council, UK Built Environment College, 1997-2010
- Member of the Management Group for the New Zealand Ministry of Science and Innovation Natural Hazards Research Platform, 2010-2013
- Member of the Board of Directors of Auckland UniServices Limited³, 2007-2012
- Member of the Board of Directors for the New Zealand Centre for Advanced Engineering (CAENZ)⁴, 2007-2012
- Member of the Board of Directors for the Structural Timber Innovation Company⁵, 2009-2012
- Chair of the Board of Directors of the Sussex Innovation Centre⁶, 2013-2018
- Member of Greater Brighton Economic Board⁷, 2014-2018
- Chair of the Expert Advisory Board for the EPSRC funded ACHILLES Programme Grant⁸
- Member of International Advisory Committee for the 5th ISSMGE International Conference on Transportation Geotechnics, Sydney, Australia, November 2024

³ Auckland UniServices Limited is a wholly owned company of The University of Auckland. Established in 1988, it manages the University's commercial research and consultancy partnerships, forms new business ventures based on University research and owns and develops the University's intellectual property estate.

⁴ CAENZ is a not-for-profit organisation to advance social progress and economic growth for New Zealand through broadening national understanding of emerging technologies and facilitating early adoption of advanced technology solutions.

⁵ The Structural Timber Innovation Company is an Australasian research consortium developing and commercialising new technologies to enable structural timber to compete more effectively in the building and construction market.

⁶ The Sussex Innovation Centre is wholly owned by the University of Sussex. It is home to more than 100 member companies, spanning a range of sectors from engineering and biomedical research to new media, design and IT.

⁷ Governance body for the Greater Brighton City Deal and the bid for devolution of the Greater Brighton region.

⁸ The ACHILLES Programme (2018-24) addressed climate effects on deteriorating transport infrastructure geotechnical assets.