

RICHARD IAN WOODS Curriculum Vitae

Lecturer in Civil Engineering, Surrey University



Areas of Expertise

- Design of propped and anchored earth-retaining structures
- Finite element methods in soil-structure interaction analysis
- Uplift resistance of transmission tower footings
- Load transfer mechanisms in ground anchors
- Interpretation of field plate load tests
- Embankments on soft ground
- Design methods for reinforced soil structures
- Effects of rising groundwater on buried structures
- Large-diameter prestressed concrete pipes in backfilled trenches
- Monitoring and analysis of SCL/NATM tunnels

Education and Professional Qualifications

- 1981 BSc (1st Class Hons) Civil Engineering, Portsmouth Polytechnic
- 1988 Chartered Civil Engineer (CEng)
- 1988 Member, Institution of Civil Engineers (MICE)

Prizes and Awards

- 1981 Institution of Civil Engineers Prize
- 1981 Sifeg Partnership Prize for Geotechnics

Career Summary

1988 - date	University of Surrey, Guildford	Lecturer in Civil Engineering
1985 - 1988	City University, London	Lecturer in Geotechnical Engineering
1984 - 1985	City University, London	Research Assistant in Civil Engineering
1981 - 1984	Binnie & Partners, London	Graduate Civil Engineer
1978 - 1981	Binnie & Partners, London	Industrial Trainee
1977	Binnie & Partners, Hong Kong	Technical Assistant

Professional Affiliations

- 1983 British Geotechnical Association (formerly BGS)
- 1983 International Society for Soil Mechanics and Geotechnical Engineering
- 1991 International Geosynthetics Society
- 1991 UK & Eire Association for Computational Methods in Engineering

Publications

Over 20 technical papers in refereed journals and conferences, mostly dealing with numerical modelling and computer aided design in geotechnical engineering; one co-authored text book on earth pressure and earth-retaining structures; numerous research reports.