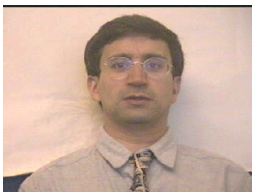
Amir Rahim PhD

Managing Director, the CRISP Consortium Ltd



SKILLS

Teaching: contract lecturer covering engineering and maths subjects. Use of effective learning techniques and hands-on workshops.
Management: Hands-on Manager, Proactive, Resource Exposure Reduction, Team Building, Communicator and Listener, Technical and Business Expertise
Analytical: Research skills acquired during postgraduate research, numerical methods, geotechnical engineering design, structural analysis, mathematical modelling
Computing: Programming in FORTRAN (inc. F90), C, C++, Visual Basic, Java and HTML

HIGHER EDUCATION

BSc Plymouth Polytechnic (CNAA) (1980-1983)
MSc and PhD University of Wales Swansea (Oct 1984-1991)
PhD title "Large Deformation Analysis of some Geotechnical Problems". PhD Supervisor Dr David Naylor.

EMPLOYMENT

1989-1997 Engineer/Analyst/Programmer Dar Al-Handasah Consultants (UK) Ltd
1997 to date Programmer/Managing Director The CRISP Consortium Ltd

Current responsibilities include:

- Overall responsibility for the development SAGE-CRISP project which include the Fortran FE engine as well as the VB and C modules constituting the Windows pre- and post processors.
- Implementation of new models and features in the geotechnical finite element program CRISP.
- Help in providing support for CRISP users world-wide.
- Assist in the educational courses for program CRISP world-wide.
- Carry out geotechnical analysis for clients.
- Maintain the CRISP Consortium web site and provide educational material for users.
- Contract teaching at South Bank University

CONSULTANCY SERVICES

List of geotechnical projects provided to clients as a consultancy service

- Pipeline upheaval buckling analysis for client EMC using program SAGE-CRISP.
- FE analysis of field trackway lining in collaboration with the University of Southampton for the DRE. 1998.
- FE analysis for South Arne oil platform foundation. The is an undrained analysis, the purpose of which is to find out if soil liquefaction due to wave loading on the platform is possible. This work was carried out with Senior engineers at SAGE Engineering (UK). 1998
- Earthquake response analysis for client Exxon in association with SAGE Engineering, Inc. 2000.
- 3D earthquake response analysis for client Sandwell in association with SAGE Engineering, Inc (USA). July 2001
- 3D suction caisson analysis using CRISP FEMAP for Indian client ONGC. 2001/2002.
- FE analysis of seismic induced deformation for Puerto Caucedo breakwater. Client Mouchel Consulting. Worked carried out jointly with Dr Andrew Chan (Birmingham University). 2002.
- FE analysis of tunnel problems for client TubeLines, 2003. This work involves implementing a new small strain stiffness soil model into the FE code.
- Total stress seismic response analysis for single pile foundation for client Mouchel consulting, 2002.

TEACHING

Currently teaching at South Bank University. Subjects taught are Soil Mechanics, Geotechnical Design, Structural Steelwork design (MSc), Advanced Maths and supervising several student projects. Students projects cover various geotechnical subjects as well as numerical modelling (FE) subjects.