

3-DAY GROUNDWATER CONTROL DESIGN & MODELLING WORKSHOP

MORE INFO

€900 + VAT

18 hours of Seminars and Practical Workshops from 12:15 Wed 22nd to 15:15 Fri 24th February 2023

Join us for three days of practical seminars and workshops where you will learn the fundamentals of groundwater control design & hands-on application of the modelling of groundwater flow in both confined and unconfined aquifer systems, applying easy to use modelling software.

Receive complimentary licenses for OGI's groundwater flow models, CVM11-FLOW & GEMOS-LITE. Apply these models to many practical groundwater case studies.

This event is intended for practicing groundwater engineers or hydrogeologists who have some existing understanding of groundwater flow basics, and have a desire to increase their design and modelling skills.

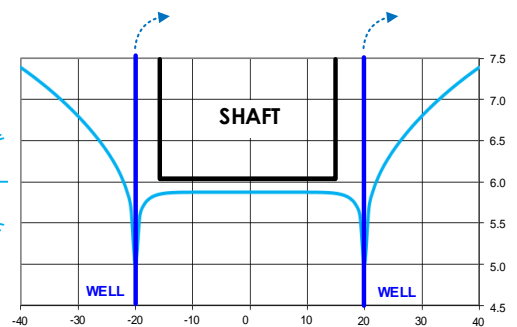
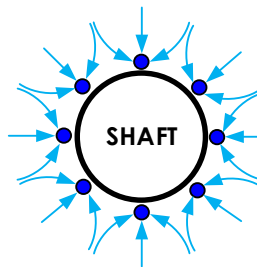
THIS COURSE WILL BE TAUGHT IN ENGLISH

SOFTWARE INCLUDED WITH EVENT



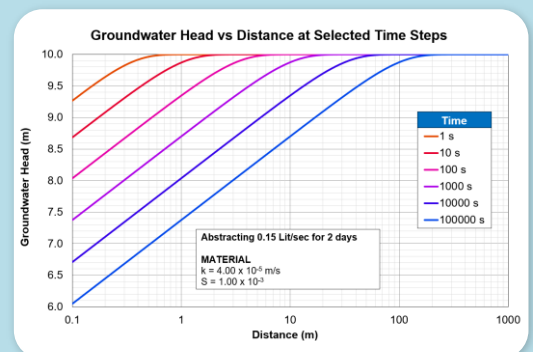
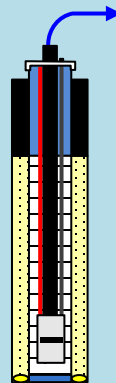
DAY 1: Groundwater Flow Design – GEMOS (Stephen Thomas and Jamie Bates)

- Aquifer Properties – Permeability & Storage
- Darcy's Law & the Well Flow Equations
- Well Performance – Screen & Ground Yield
- Multiple Well Analysis using GEMOS
- Simulate multi-well water table drawdown beneath a shaft



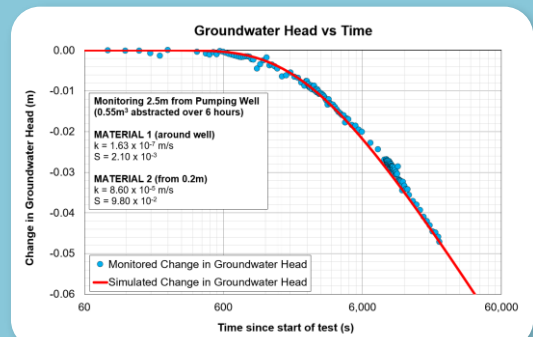
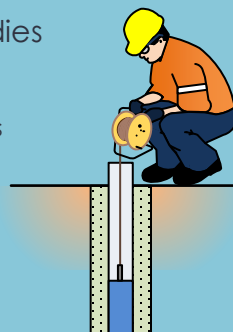
DAY 2: Numerical Modelling – CVM (Stephen Thomas and George French)

- Numerical Groundwater Modelling Techniques
- The Groundwater Flow Equation
- Setting up a Finite Element Model
- Simulating an Aquifer Pumping Test
- Evaluating Radius of Influence for transient conditions



DAY 3: Numerical Modelling - Case Studies (Stephen Thomas and George French)

- Hands-on application of GEMOS & CVM models to case studies previously prepared by OGI
- Calibration of models to existing field data
- Simulation and forecasting of groundwater behaviour in practice
- Participants can apply the models to OGI problems or their own data.



FARO, PORTUGAL



HOTEL MÓNACO

Address: Rua Baptista Severino - Urbanização Monte da Ria, 8005-237 Faro, Portugal
Phone: +351 289 895 060



EXPERTS

Eur Ing Engenheiro Dr Stephen Thomas

Dr Stephen Thomas is Founder and Chairman of UK based company OGI Groundwater Specialists Ltd. He is a chartered British and European Civil Engineer, a Fellow of the Institution of Civil Engineers, and a registered Ground Engineering Adviser (RoGEP). He has a first-class honours degree in Civil Engineering and MSc from the University of Wales, a Doctorate from Oxford University, an MBA from Durham University, and is an Honorary Fellow at the Durham University Department of Earth Sciences. Stephen is also a Senior Engineer of Portugal and Membro da Ordem dos Engenheiros, Membro da Associação Portuguesa dos Recursos Hídricos (APRH), and Sociedade Portuguesa de Geotecnia (SPG). He is a member of the Portuguese Commission of Environmental Geotechnics (CPGA), and specifically the Urban Areas and Environmental Geotechnics working group. He has 42 years of experience working in the groundwater industry, since graduating in Civil Engineering.



George French

George French has 8 years of industrial experience at OGI, after graduating from Durham University, achieving a first-class MSci honours degree in Geoscience. George is an expert in the finite element modelling of complex groundwater control systems, including designing systems for depressurising tunnel faces, dewatering shafts and deep excavations in unstable ground. He has extensive experience in modelling partly saturated soils, successfully achieving an industry-based Masters of Research in 2021 from Durham University whilst at the same time working at OGI. He has particular specialist knowledge in modelling multi-dimensional groundwater flow behaviour, coupled with soil deformation and change in soil strength. He is a critical team member in the design and development of the latest OGI groundwater modelling products such as GEMOS - Lite and CVM11-FLOW.



Jamie Bates

Jamie Bates has a first-class honours degree in Computer Science from Durham University, after which he self-developed his unique style of programming using various software languages. At OGI, Jamie has responsibility of maintaining and advancing the modelling software, while ensuring it is as simple and user-friendly as possible. He is a highly valued member of OGI's technical team, and has gained extensive knowledge and experience in the application of ground and groundwater software to a range of complex civil engineering projects. Jamie will be present in person to assist participants to learn and to apply the software to the case study problems.



Direct Flights



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- GLASGOW
- NEWCASTLE
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- BIRMINGHAM
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- CARDIFF
- EXETER
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FARO

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- BERLIN
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- STOCKHOLM
- OSLO
- DÜSSELDORF
- VIENNA

Ticket includes lunch and light refreshments. Accommodation and flights are not included in the price.



MORE INFO



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