

BGA Annual Conference 2020

Tuesday 14th July at 10:00-11:15

ONLINE



Due to the COVID-19 pandemic the British Geotechnical Association ANNUAL CONFERENCE 2020 cannot be held as a physical event. Instead it will be held as three ONLINE sessions on:

Tuesday July 7th July 10:00-11:15

Tuesday July 14th July 10:00-11:15

Tuesday July 21st July 10:00-11:15

This flyer provides details for the 14th July event.

The COGAN initiative for numerical modelling

Andreas Zilles, NAFEMS

On behalf of the NAFEMS Geotechnical Working Group, the presentation will be an introduction and update on COGAN - Competency in Geotechnical Analysis - a framework to support the proficient use of numerical analysis in geotechnical engineering. The COGAN project, initiated in 2013, has established an extensive educational base to support the development of competency of the numerical analyst. Building on this endeavour, the NAFEMS Geotechnical Working Group is working to expand COGAN and develop additional ways of accessing the competency information. As well as giving an update, the presentation will invite feedback from industry on their needs in the development of numerical analysts.

The work of the BGA Early Career Group

Francesca Waldron (Chair) and Tony Bowerman (Secretary)

Francesca and Tony will be introducing themselves as the current BGA Early Career Group Representatives and will be giving an overview of the ECG from when it was first set up, to the present day including future plans. They will talk about what the ECG aims to achieve including description of events held, and what changes have been made over the past year in an effort to increase the ECG's engagement as well as expand it geographically. They will also use this opportunity to advertise upcoming webinar events and also committee roles as re-election for these roles will be held this coming October.

COOLING PRIZE WINNER 2020: Engineering mitigation of a water bearing fissure in the chalk

Emily Riley, Thames Tideway

The Thames Tideway Tunnel is a capture, storage and transfer system being constructed to increase capacity of London's combined sewer system and prevent discharging overflows into the River Thames.

Diaphragm wall construction was undertaken to facilitate tunnelling and divert sewage flows into the tunnels. At Deptford Church Street, additional ground investigation and mitigation measures were needed to control potentially high rates of groundwater inflow. This presentation will discuss the works completed to confirm the presence of a water bearing fissure, the subsequent sealing of the feature and the verification of sufficient groundwater cut off to enable the shaft excavation to commence.

BGA MASTERS PRIZE 2020: MSc Dissertation on Characterizing the Variability of London Clay. A Study of Tunnel Face Logs from the Jubilee Line Extension between Green Park and Waterloo

Geng Jie (Jay) Liang (Imperial College London), supervised by Dr Jamie Standing and Dr Simon Price

A fresh perspective on London Clay is presented through a study of tunnel face logs from the Jubilee Line Extension between Green Park and Waterloo. Field observations are collated and mapped spatially against London Clay divisions previously defined by Standing and Burland (2006). These field observations detail the presence of claystones, sand/silt bands as well as discontinuities, providing a valuable insight into the nature and variability of London Clay over a wide area.

The Future of Ground Investigation

Philip Ball, Socotec

Detail to be confirmed

The Speakers

Andreas Zilles

Andreas Zilles has served as a member of the NAFEMS Geotechnical Working Group since 2010. He is a Chief Engineer at Atkins working in the fields of geotechnical design and soil-structure interaction analysis across a wide range of projects, industries and countries.



Francesca Waldron

Francesca is a geotechnical engineer with five years' experience working as a design consultant. She now works as a delay analyst for construction disputes at Blackrock Expert Services. She has been a member of the ECG committee since 2016, taking on the position of Chair in September 2018. Alongside the ECG Secretary, she represents the Early Career Group members on the BGA Executive Committee.



Tony Bowerman

Tony is a geotechnical engineer working in Atkins' Ground Engineering and Tunnelling Practice, based in Cambridge. He has been a member of the ECG committee since 2017, taking on the position of Secretary in September 2018. Alongside the ECG Chair, he represents the Early Career Group members on the BGA Executive Committee.



Emily Riley

Emily Riley is a Geotechnical Engineer working on Tideway East for the past 4 years. She is responsible for the collection of ground investigation data, management of dewatering schemes and overview of the groundwater monitoring regime required for the project. She is currently completing a part time MSc in Geotechnical Engineering at the University of Birmingham.



Geng Jie (Jay) Liang

Jay graduated with an MSc in Soil Mechanics from Imperial College London and a BEng (Honours) in Civil Engineering from the National University of Singapore. Jay is passionate about stories which the earth can tell us and enjoyed hunting for fossils in places like Folkestone and the Isle of Sheppey. He is currently working as a tunnel engineer at Arup.



Philip Ball

As Group Technical Director, Philip Ball is focussed on continually developing industry leading technical solutions for SOCOTEC's clients. Predominantly managing the client technical engagement and development within Infrastructure & Energy Services, Philip has specific expertise in this area having joined SOCOTEC - formerly ESG - in October 2012 as Managing Director of the Geotechnical Services division.

Philip graduated from Portsmouth University with a first degree in Engineering Geology & Geotechnics and has experience in managing major geotechnical projects in the UK and abroad. He is a Fellow of the Institution of Civil Engineers and also a RoGEP (Register of Geotechnical Engineering Professionals) Adviser. As well as this, Philip is a Fellow of the Chartered Management Institute and is a Chartered Manager. Philip is currently chair of the Finance & Strategy committee of the British Drilling Association.



Further Information

w: britishgeotech.org/events

t: +44 (0)20 7665 2007

e: bga@britishgeotech.org.uk

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