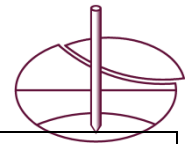


**ISSMGE FOUNDATION
REPORT ON CONFERENCE ATTENDANCE**

Your Name: Nkem Ehujuo	Your Organization: University of Cape Town	Date of report: 14 th May 2022
Conference Title: A Geotechnical Discovery Downunder – Geotechnical Discovery Awaits You	Location of Conference: International Conference Centre, Sydney, Australia	Dates of Conference: 29 th & 30 th April 2022 1 st – 5 th May 2022
What you learned: <p>The conference gave me the opportunity to discover the works of recent innovations and research that addresses the practical problems faced in the geotechnical world. Particularly, I got familiar with the use of numerical modelling to understand, interpret, and predict soil behaviour under different conditions. I also got acquainted with the latest tools and techniques in the vast and diverse areas of geotechnical engineering. Additionally, the conference gave me the opportunity to interact and network with professionals, practicing engineers, academicians, researchers, consultants, students, developers of software applications and even manufacturers of laboratory and field equipment used in site investigations. Although not been able to attend in-person, the virtual platforms gave me a synonymous experience of the conference through the virtual exhibition, meeting hub, lobby, and gallery. I was able to raise questions as they captured my interests. Through discussions with experts in the online comment section and live sessions, I received valuable insights in construction in deltaic environments which broadened my thought on the need for sustainability and resilience in geotechnical works. Lessons, and not just failures should be shared with the broader community for learning purposes. Furthermore, networking with people from different countries but similar interest will assist me explore possible research collaborations and working opportunities in the nearest future.</p>		
People you met: <p>The conference afforded me to meet notable academicians, practicing geotechnical engineers and start-ups (young businesses) from different countries all over the world. Some of these people are:</p> <ul style="list-style-type: none">• Pooria Ghadir: Founder of MatSoil and Senior Researcher, University of Exeter• Hugo Acosta-Martinez: Technical Director - Ground & Underground Engineering, Aurecon• Alexandre Lopes: Geotechnical Engineer, Terrasol• Professor Abdelmalek Bouazza, Monash University• Christoph Kraus, Engineering Geologist, Beca Ltd• Fiona Hughes, Geotechnical Engineer, Arup• Adrian Brunner, Research Associate, Vienna University of Technology• Professor Ha Bui, Monash University		



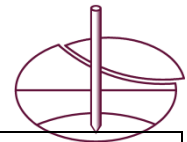
Main features of conference:

The main features of the conference include:

- Lectures on transportation geotechnics, tailing dams, artificial intelligence, energy geotechnics, unsaturated soils, environmental geotechnics, earthquake geotechnical engineering, engineering geology, biomediated-bioinspired geotechnics, rock mechanics,
- Keynote presentations
- Terzaghi Oration
- Concurrent paper presentations and parallel sessions
- CAPG Session: Are we overdesigning?
- Special lecture on planetary geotechnics
- Bright Spark Lecture
- Powerful Informative Talks (PITs)
- Technical Committee Meeting (honour lectures and paper sessions)
- ISSMGE Awards Ceremony
- ISSMGE Time Capsule Session

Your comments on the conference:

The 20th International Conference on Soil Mechanics and Geotechnical Engineering (including the 7th International Young Geotechnical Engineers Conference) was remarkable. The entire lectures and program schedule matched significantly with the theme of the conference, A Geotechnical Discovery Downunder. I heard about planetary geotechnics for the first time, it was a huge discovery as I never knew such field of geotechnics existed. The quality of lectures and papers presented were excellently delivered and detailed in nature. The speakers were experienced in their respective fields and possessed a tremendous knowledge. Also, the virtual platform was user friendly with a smooth interface, there was a helpdesk available for technical support, a gallery to view all posters, and the networking hub such great features like video calls, discussion forum, do not disturb (DND), note taking (during live sessions) and exportation of notes to device, and most importantly, contact details of conference participants. Virtual presenters were made to join their call thirty minutes before their live session. Finally, the organizing committee was very professional and humane. I am very much grateful to “ISSMGE Foundation” for providing me with the support and grant to attend such a memorable and grand conference.



Please attach short report (maximum 400 words) suitable for publication in the ISSMGE Bulletin:

7th International Young Geotechnical Engineers Conference
20th International Conference on Soil Mechanics and Geotechnical Engineering

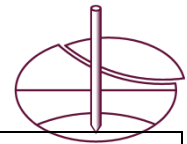
Theme: A Geotechnical Discovery Downunder – Geotechnical Discovery Awaits You

The International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE) is a reputable and prominent conference in the field of geotechnical engineering. The conference was originally planned to hold in 2021 but was postponed due to the COVID-19 pandemic. The 20th ICSMGE was held in a hybrid mode with an in-person conference for those who were able to visit Australia. The 7th IYGE which preceded the 20th ICSMGE was held between 29 and 30th April 2022 with an in-person geotechnical day on 1st May 2022.

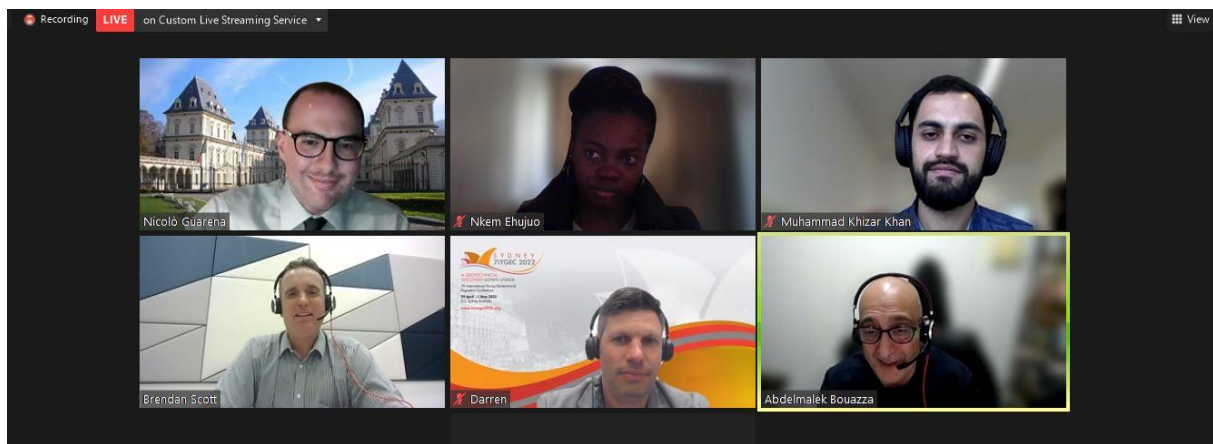
The conference was organised by the Australian Geomechanics Society. Activities for the (7th IYGE) began with a virtual exhibition followed by an Official Opening and keynote presentation on *Geotechnical Foundation Design: Some Lessons Learned* which was delivered by Professor Emeritus Harry Poulos of Tetra Tech Coffey. Thereafter paper presentations ranging from numerical modelling, geosynthetics to site investigations ensued. The author's paper on "A Comparative Analysis on the Performance of Polypropylene and Polyester Non-woven Geotextiles in Landfills" was presented on 29th April 2022 with Professor Abdelmalek Bouazza being the chair of the session. The closing remarks were presented by the event manager and the local organising committee.

The major conference kickstarted on May 2nd (after the in-person geotechnical day) with a Terzaghi Oration by Professor Antonio Gens. This was followed by State-of-the-Art lectures and CAPG session on "Are we overdesigning?" The opening ceremony started with performances and opening addresses from the conference chair, Emeritus Professor John Carter, an honorary member of Australian Geomechanics Society, Professor Emeritus Harry Poulos, and the president of the ISSMGE, Professor Charles Ng. Subsequently, paper presentations were made by prestigious researchers and scholars. There were significant breaks between the lectures and sessions to ensure participants had adequate time to network and relax.

Distinguished geotechnical engineers were recognised during the awards ceremony. Professor Fumio Tatsuoka was awarded with the 2021 Kevin Nash Gold Medal, the Outstanding Geotechnical Project was awarded to Shanghai 500KV World Expo Underground Station in China, and the Outstanding Innovator was Plaxis. The conference came to an end with conference summary and closure discussion on 5th May 2022. I am grateful to the ISSMGE Foundation for providing me with financial support to participate in this world-renowned conference which made a long-lasting impact in my life.

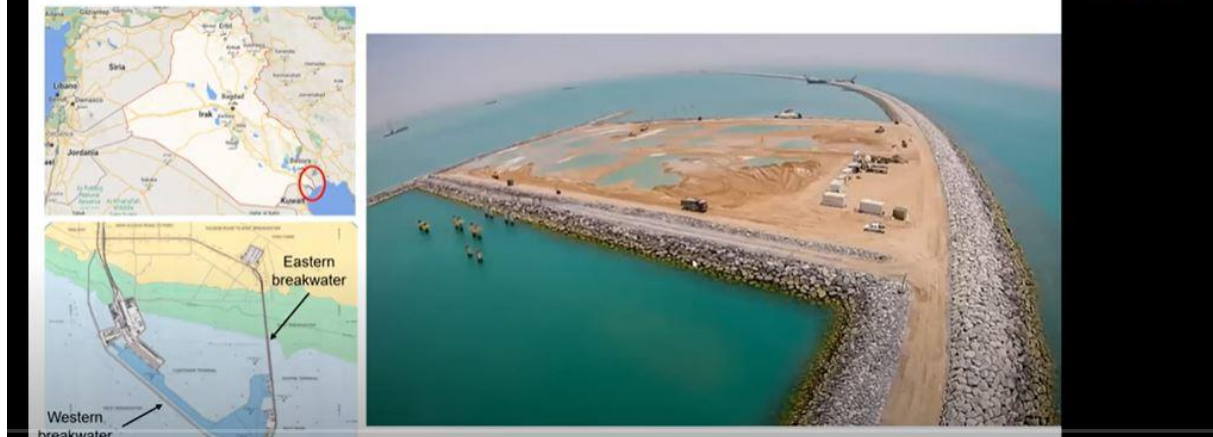


Photographs from Conference: Insert here or attach to email



Preamble

❖ Al Faw Harbour (Iraq): breakwater failure in a deltaic environment



EventStream LIVE SUPPORT UNDO EXPORT HELP

BACK TO TIMELINE

Opening Ceremony & Morning Sessions 9:15am - 11:15am LIVE NOW

This session ends in 46m No further events today

Session Information

Opening Ceremony & Morning Sessions

My Session Notes

These can be exported out at the end of the event from the export button in the top right corner.

Start typing your notes here...

Save

Activate Windows Go to Settings to activate Windows. OnAIR EventsAIR

Construction of the South breakwater

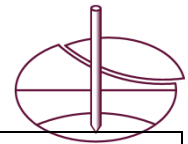
Construction phases:

- Phase I: Dredging and construction of the base mound
- Phase II: Emplacement and filling of the caissons
- Phase III: Construction of the superstructure (crown wall) and ancillary works
- Phase IV: Construction of a quay adjacent to the breakwater

Bases for design:

- Definition of the design storm
- Estimation of wave forces and uplift pressures
- Selection of an appropriate degree of safety

20th International Conference on Soil Mechanics and Geotechnical Engineering 1-5 May 2022 | ICC Sydney Australia





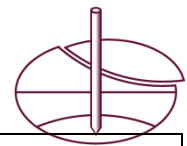
Are we overdesigning?

Results of a Survey by the ISSMGE
Corporate Associates Presidential Group

Peter Day, South Africa
Jean-Louis Briaud, USA


Corporate Associates
Presidential Group





portalapp.icmsaust.eventsair.com/VirtualAttendeePortal/7/yjgec-2022/virtualeventportal/

Foundation and Retaining Structures 1

1:00pm - 1:40pm

MEET EDITORIAL BOARD

35m

Next activity 35m

Session Information

Live Q&A

My Session Notes

Handouts

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Bright Spark Lectures for Young Members

Promoting more young and upcoming keynote lecturers (more than 25 Bright Spark lecturers already given) (in collaboration with YMPG Chaired by Lucy Wu)

- 1) The 7th Technical Conference in Eastern Asia on Geo-Natural Disasters (ATC3) held in Chengdu, China, in May 2018
- 2) The 7th International Conference on Unsaturated Soils (IC106), Hong Kong, in August 2018
- 3) 8th International Congress on Environmental Geotechnics (IC215) in Hangzhou, China, October 2018
- 4) The 17th European Conference on Soil Mechanics and Geotechnical Engineering in Reykjavik, Iceland, September 2019
- 5) The 17th African Conference on Soil Mechanics and Geotechnical Engineering in Cape Town, South Africa, October, 2019
- 6) The 16th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, in Taipei, October, 2019
- 7) The 16th Pan-American Conference on Soil Mechanics and Geotechnical Engineering, in Cancun, Mexico, November 2019

20th International Conference on Soil Mechanics and Geotechnical Engineering
1-5 May 2022 | ICC Sydney Australia

Welcome to day two and Keynote presentation

11:55pm - 12:30am

29m

Next activity 29m

Session Information

Live Q&A

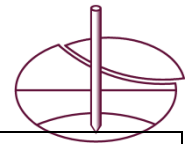
My Session Notes

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OnAIR

Geotechnical Engineering: past and future challenges

Fleur Loveridge
Associate Professor of Geostructures, School of Civil Engineering
f.a.Loveridge@leeds.ac.uk



Numerical Modelling 2

10:20am - 11:10am

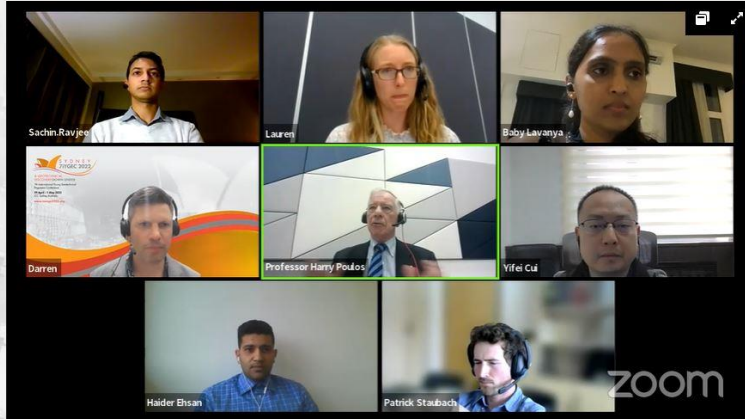
LIVE NOW

This session ends in

19m

Next activity

19m



- Session Information
- Live Q&A
- My Session Notes
- Handouts

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KEVIN NASH GOLD MEDAL

Named after Kevin Nash, Secretary General of ISSMGE (1965-1981).

A person who, through distinction as an engineer, through international contributions to engineering practice and education, through contributions to international good will, and through service to the International Society, has made a major contribution to fostering the ideals and goals of the International Society for Soil Mechanics and Geotechnical Engineering throughout the world.

Past recipients

Antonio Gens, Spain 2017

Heinz Brandl, Austria 2013

Bala Balasubramaniam SEAGS 1997

Sven Hansbo, Sweden 2009

John Burland, UK 1994

Harry Poulos, Australia 2005

E E de Beer, Belgium 1989

Jim Mitchell, USA 2001

Harry Seed, USA 1985

Decision in 2021 : Past Presidents Committee chaired by Roger Frank



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20th International Conference on
Soil Mechanics and Geotechnical Engineering
1-5 May 2022 | ICC Sydney Australia