



International Society for Soil Mechanics and Geotechnical Engineering

ISSMGE - TC206 Management Meeting 26-06-2025 at 09:00 – 09.30hrs - UK time

Update on TC206 work

Duncan Nicholson - Chairperson TC206

Ying Chen – Vice Chair

Alessandro Martucci - Secretary

alessandro.martucci@tonygee.com



Management Group - Agenda

1.Minutes of 21/5/25 – review actions. Covered in agenda.

2.TC206 Admin Update

- **New Secretary - Alessandro Martucci**
- **Website Update – Alessandro Nartucci**
- **International Journal of Geoengineering Case Histories (IJGCH) – Proposed Tony O’Brien .**

3.Honour Lecture

- **Marcelo Sanchez – No Vienna options**
- **Put forward alternatives IC and Webinar.**

4.Working Group Updates.

- **RTBA - Franz – 5 min**
- **Monitoring – Hock - 5 Min**
- **Tunnelling – Chris - 1 min**
- **Eurocodes - Johan - 1 min**
- **Contracts- Tony - 1 min**
- **Historical Assets – Mandy/ Ying - 1 min**

5.Conferences

- **Vienna – Workshop and papers.**
- **CIRIA R185 Revision**
 - **Scoping Meeting 3/7/25 - start Sept 25.**
- **New Conferences.**

6.Presentation

- **Stephen Walthall - on 10/9/2025.**
 - **“Principles of data and information management for ground engineering projects”**
- **Suggestions for next TC Meeting? 10/12/25**

7. Next TC Members' meeting

- **10 September 2025 (09.30hrs Uk time).**
- **10 December 2025 (09.30hrs UK time).**

8.Next Management Meeting (09.00hrs UK time)

- **25 June 2035 - 09.00hrs UK time.**
- **17 July 2025?? - 09.00hrs UK time.**
- **August - Holiday**
- **3 September 2025 – 09.00hrs.**



2)TC206 Administration Websites Update – Alessandro Martucci

- Alessandro's main job:-
- Transfer existing TC206 internal web site from Amit Google site to Google website registered as TC206.
- Update data base minutes.
- Use ISSMGE Hub as a TC206 internal site.
- Update ISSMGE - TC206 public webpage - update.
 - What can we store? Including past events (2023 to 2024)
 - New Terms of Reference.
- TC206 Membership Development.



International Journal of Geoengineering Case Histories (IJGCH).

ISSMGE- Invitation to Select Editorial Board Member Representative from your Technical Committee

- **DPN Email to Management Committee on 21/4/25 - TC206 Selection of an Editorial Board member?-**
 - **Tony O'Brien volunteered. - I agreed and put Tony's Name forward for TC206.**
- **Observational Method Case Histories.**
 - **Tony and Hock proposed paper – base on Hock's talk.**

Regarding the case histories – Hock and I can produce an OM paper for HS2.

Honour Lecture

Marcelo Sanchez (TOC Chairman) -Reply 21/6/25

- After reviewing your proposal, I still believe that the case for supporting an Honor Lecture by your TC is **not sufficiently strong at this stage.**
- **Having a record of previous conferences is very important**, even more so is the existence of a well-established and recognized series of conferences that would host the lecture. Similar cases have not been approved by the Board in the past.
- you are welcome to **prepare a revised case and send it to me.** I will bring it forward for discussion at the next Board meeting.

TC206 Options

- Expand workshops and develop to conferences.
- Hold our own conference?
- Run conferences / webinars on-line – (Amit will organise)
- Use CIRIA Guide as a topic?

4) Working Group Updates

- RTBA – Franz Tschurchnigg -
 - Imperial College Workshop – BGS funding application (Truong)
- Monitoring – Leaders Hock, Daniele, Dorota, Leen.
- Tunnels – Chris Menkiti.
- Eurocodes – Johan Spross.
- Contracts – Tony O'Brien.
- Historical Assets – Mandy Korff.

TC 206 MANAGEMENT MEETING

- Real Time Back Analysis (RTBA)

- **Franz Tschuchnigg**

Computational Geotechnics Group

Institute of Soil Mechanics, Foundation Engineering and Computational Geotechnics

Graz University of Technology

- RTBA Workshop

BGA RESEARCH DEVELOPMENT FUND - Truong

BGA RESEARCH DEVELOPMENT FUND

1 APPLICANT DETAILS

Applicant Name:	Truong Le
Position:	Lecturer
Organisation:	Imperial College London
BGA Membership Number:	90419520
Telephone:	07846264328
Email:	Truong.le@imperial.ac.uk
Website:	

@Imperial – 17.03.2026

- Date, speaker, content.....*coming soon*

TC206 / TC220 Monitoring Group

- Hock Liong Liew - Daniele, Dorota, Leen

- Enhance **interaction** between TC206 & TC220 – common interest/boundaries
- Goals of this WG:
 - **OM design + construction** (design, triggers, back analysis, site observations, contingency) + **I&M** (data quality, contract, spec, roles of I&M coordinator) + **Database** (AGS input, data/information management plan)
 - Capturing **good + bad** performances – lessons learnt from different countries, project **confidentiality** to be respected
 - Influence client/main contractor/asset owners, construction data
- Target deliverables:
 - **Clear** workflow (flow chart) – improve monitoring and reporting systems
 - Input into new CIRIA R185 in OM – new I&M chapter, new Eurocode,
 - Workshops – Imperial College March 2026 + Vienna Conference June 2026

TC206 / TC220 Monitoring Group

- Current 26 members:

- **Duncan Nicholson**
- **Andrew Ridley**
- **Ying Chen**
- **Dorota Symonidou**
- **Daniele Fornelli**
- **Hock Liong Liew**
- Tony O'Brien
- Chris Menkiti
- Ignasi Aliguer
- Angus Maxwell
- Stuart Hardy
- Paul Burton
- **De Vos Leen**
- Asha Panchal
- Neelima Satyam
- Colin Carter
- Anil Joseph
- Wei Cai
- Daniella Petani
- Berta Sola
- Colin Eddie
- Mandy Korff
- James Sze
- Philip Child
- Teoh Yaw Poh
- Stephen Walthall

*Leadership team is in **RED**

TC206 / TC220 Monitoring Group

- 2 WG meetings and 4 WG Leadership meetings held to date.
- Workshops will be organised to focus on specific activities, i.e. OM + I&M Workflow.
- First meeting on 26 March 2025
 - Lessons learnt – HS2 OM application by Hock Liong Liew
 - Focus should be on data quality NOT quantity - more data does not equal to better results!
 - A simple instrument can do the job if we know what the specific question to answer.
 - To ensure data quality, a **real effort** from everyone particularly the designer is required.
- Second meeting on 14 May 2025
 - Presentation by Stephen Walthall – “Principles of data and information management for ground engineering projects”
 - Data and information management plan – incorporation into the contract – who, how and when? Other considerations – data quality, different types of contract, OM approaches
- Next meeting -16 July 2025 – 09.00 – 10.00hrs UK time
 - Presentation by Ying Chen/Cheng Wei Kwang on I&M performance including prop force processing using data from Tottenham Court Road

Databases

- Angus Maxwell planning Database meeting with Steven Walthall (AGS database group) with SCS and BBV.
- Objective to discuss current database site operations.

Tunnelling Working Group - update by C Menkiti

Leadership.

Chris Menkiti leads this group.

- Chris has a GCG person

Restarting Tunnelling Working Group

For the Management meeting on 13/11/24 and TC206 meeting we need a presentation on:-

- List people who previously attended the Tunnelling WG.
- Terms of Reference. – topics
- Links with TC204
- Define tunnelling approach to OM and compare with Infrastructure approach. What can we learn?
- Triggers and design. **Abstract in Vienna**
- Examples.
- HS2 – bored tunnels.
- HS2 - SCL tunnels.
- Silvertown tunnel.
- Sensors and RTBA . – new sensors on cutting wheel.
- Aim for a meeting before Christmas.

Strategic papers – Vienna conf

Hold working group meeting January '25.

Eurocodes

- Abstracts - Vienna Conf - Stuart submitted paper on varying partial factors.
- Need to progress paper on Eurocode.
- Next meeting?

Contract - update by Tony O'Brien

- Need to complete table of OM projects with cost savings. - **Now end May 2025**
- Chase other experts – Alan Marr - ?? Ferovila. Lisbon contact JST – Ko forces. Spanish rep Carbon calculations counting in Table 1 example. Canary Wharf – Arup carbon experience.
- Paper for Vienna – summarise report. Individual case histories
- Link with ICE Client Initiatives.
- Link to new OM Projects.
- Need for Cat 3 checker to reassess temp work changes.
- TAA issues – AIP issues.
- Paper on Culture –
 - Organisations need to reach consensus at start of OM.. This means skill base to extend and confidence. Effects all parties – Contractors and Consultants. Key Leaders.
- Email from David J. Hatem DHatem@mgmlaw.com - US experience. Chase - presentation?
- **HS2 – WHRC – Ab Initio? Or Ipso Tempore?**
 - BBV, - omission of 112 temporary props. Carbon savings ?
 - BBV have noted regardless of commercial saving they would continue with OM to avoid the construction constraints working around temporary props.
 - OM Design – Motts
 - CAT3 fee (£1M)
- **HS2 - VRCB - OM - best way-out example**
 - SCS - Cost of New wall
 - OM assessment
 - Time
- **HS2 - Old Oak Common**

Historical Assets – Mandy Korff

- Mandy held initial meeting on 16 June 25.
- This includes :-
 - Old canal walls, - Old dock walls, - Leen and Arup Canary Wharf Banana walls
 - Old railway walls – PVE walls
 - Old cut slopes - TFL / HA/ Network rail (GCG)
 - Embankment fill - London Underground
 - Reuse of building foundation, - Dinesh Patel
 - Bridges, - Structural Health Monitoring process. ??
- Eurocode 0 Part 2 - UK rep? contact Andrew Bond? Stuart Hardy?
- Mandy /Ying submitted Vienna Abstracts
- Goal set up working group.

5) Conferences

- ISSMGE 21st Int Conf - Vienna - 14-19 June 2026
 - Honour Lecture Proposals? - 8 Proposals from other TC (Informed Helmut TC206 cannot deliver an Honour lecture)
 - 28 abstracts have TC206 is first choice on 28 abstracts. OK for Oral session. List circulated.
 - “Workshop” Sessions organised by TC206 within the conference – TC206 - we have booked. This is 2 or 3 topics??? How much time?

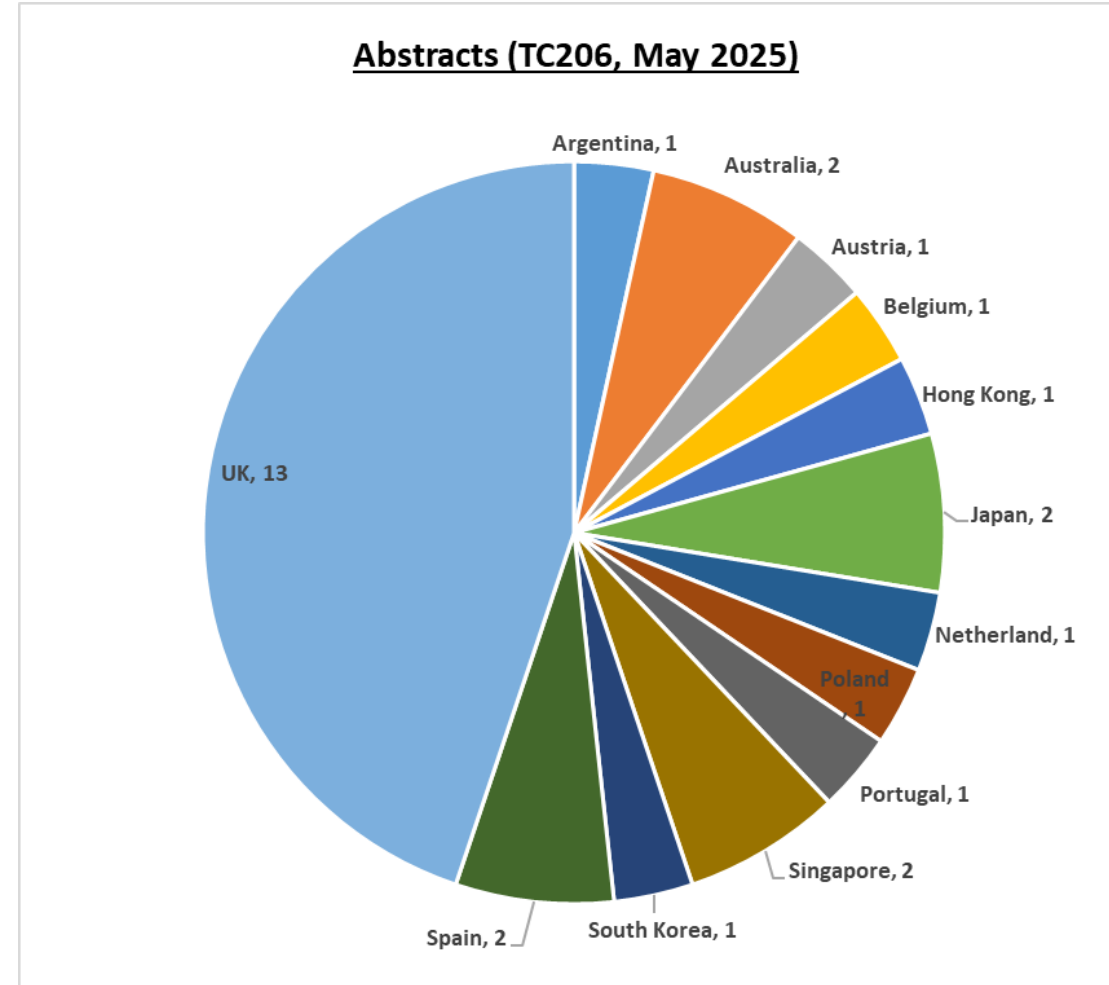
Conference: ICSMGE, Vienna Austria, 2026

Summary by Ying Chen

- ICSMGE in Vienna, Austria – 2026
- TC206 applied for conference session: 2 hours
- TC206 initially applied for key-note session for the proposed Observational Method Honour Lecture: withdraw due to deadline and approval by ISSMGE still in progress.
- Overview of the submitted Abstracts under TC206
- Open for Discussion: How Conference Session for TC206 shall be organized? Additional Session?

TC206 Abstracts at the ICSMGE, Vienna (1)

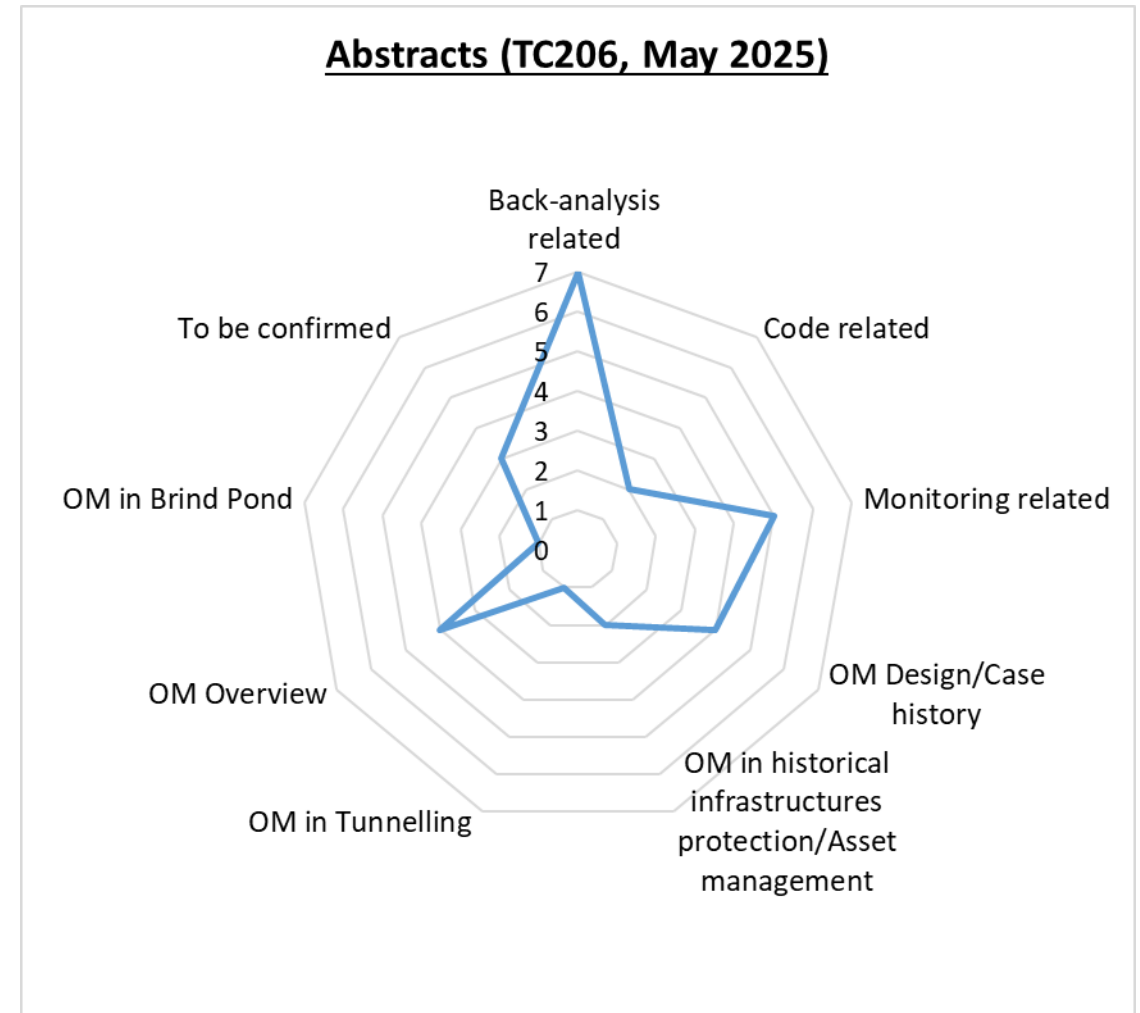
- Successfully submitted Abstracts (OM was key word 1st choice): 29
- Abstracts from 13 countries and regions: UK (13) & Europe (7) are dominated, contribution from Asia (6), Australia (2) and South America (1).



TC206 Abstracts at the ICSMGE, Vienna (2)

Topics of paper are associated with Observational Method in following subjective:

- Back-analysis related (algorithms, cast study and overview etc.)
- Monitoring related (new tech, data, data-driven design)
- OM Design / Case history
- OM Overview (contract, assurance, back analysis and monitoring)
- OM in Tunnelling
- OM in Brind Pond
- To be confirmed (not identified from titled)



12th Int. Symp. Field Monitoring in Geomechanics

[https://isfmg2026.com/.](https://isfmg2026.com/)



12th INTERNATIONAL SYMPOSIUM
FIELD MONITORING IN GEOMECHANICS

at Indore
06-10 Aug 2026

INDIAN GEOTECHNICAL SOCIETY

SIMSG ISSMGE

Field Monitoring in geomechanics TC220

- Abstract close on 31/5/25.
- Contact – Prof Neelima Satyam
neelima.satyam@gmail.com

THEMES OF SYMPOSIUM



❖ *Tunnels and Underground Spaces*

"Tunnels and Underground Spaces" as a symposium theme explores the intricate world beneath the surface, unveiling the engineering marvels, scientific advancements, and multifaceted aspects of subterranean environments.

❖ *Bridges and Transport Infrastructure*

Participants will engage in discussions surrounding sustainable and resilient infrastructure development, smart transportation systems, and the integration of emerging technologies such as artificial intelligence and renewable energy.

❖ *Dams and Embankments*

This theme invites exploration into the critical role of hydraulic engineering in water resource management and infrastructure development.

❖ *Slopes and Earthworks*

Under this theme the design, analysis, and management of slopes, embankments, and earthworks, addressing challenges related to erosion control, landslide prevention, and infrastructure resilience.

❖ *Buildings and Foundations*

"Buildings and Foundations" as a symposium theme explores the fundamental aspects of structural engineering, construction, and foundation design that underpin the built environment.

❖ *Mining and Landfill*

"Mining and Landfill" as a theme delves into the dynamic realms of resource extraction and waste management.

❖ *Environmental Monitoring*

This theme explores the latest advancements in monitoring technologies, data analytics, and methodologies for tracking changes in air quality, water resources, biodiversity, climate patterns, and more.

❖ *The Observational Method*

The Observational Method involves systematically and passively observing natural behaviors or phenomena, providing real-time insights without direct intervention.

❖ *Specifications and Standards*

This theme covers the pivotal role of meticulously defined requirements and universally accepted benchmarks across diverse industries.

❖ *Excavation and Retaining Structure*

This symposium explores the latest advancements in excavation techniques, soil stabilization, and the design and construction of retaining structures.

❖ *Inverse Modelling*

This symposium delves into the applications of inverse modeling across various disciplines, such as environmental science, geophysics, and engineering.

❖ *Advanced Design Technology*

This symposium delves into innovations such as computational design, artificial intelligence, generative design, and virtual prototyping.

Others:

- 6th Int. Conf. on Information Technology in Geo-Engineering (6th ICITG) in Graz, Austria, - 13 to 16 October 2026. -

<https://www.icitg2026.com>

- *The conference will provide a platform to discuss current developments in digital transformation within geo-engineering. Topics include case studies on information technology in practice, integration of digital systems such as Scan2BIM and BIM2FEM, the use of open benchmark datasets, uncertainty quantification and mitigation, applications of machine learning including reinforcement learning and large language models, **as well as Real-Time Back-Analysis (RTBA).***
- CIRIA Guide on OM revision. (R185) – starts Sept 2025.
 - One place on the CIRIA Steering group for TC206.
 - Who will this be? - prefer not UK base? (Johan as volunteered.)

7)Next Meetings

- **ISSMGE - TC206 Tech Committee - Members meetings:**
 - **10 September 2025 - Need to send invites**
 - Stephen Walthall
 - “Principles of data and information management for ground engineering projects”
 - **10 December 2025**
 - We need a presentation topic?
 - Tony and Hock – HS2 - WHRC and BTEP? Get HS2 agreement.
 - RTBA developments?
 - Tara ?
- **TC206 Management Group Meetings**
 - **17 July 2023 - 09.00hrs UK time**
 - **3 Sept 2025 - 09.00hrs UK time**
 - **Oct 2025**
 - **Nov 2025**
 - **Dec 2025**

Any Questions

- Nomination award?