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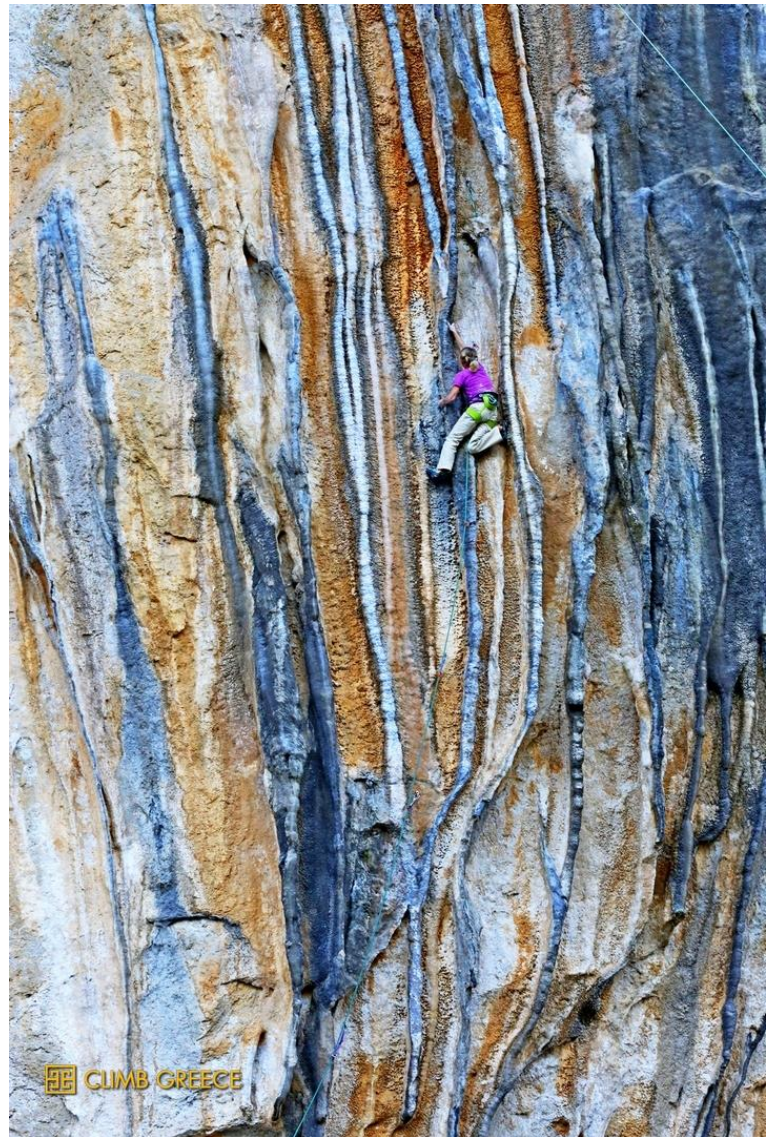
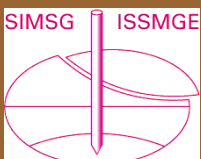
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& ΓΕΩΤΕΧΝΙΚΗΣ  
ΜΗΧΑΝΙΚΗΣ

# Τα Νέα

## της Ε Ε Ε Ε Γ Μ

187

Αρ. 187 – ΜΑΙΟΣ 2024



Η Angela Eiter στην διαδρομή Λεοντόκαρδος  
στο αναρριχητικό πεδίο Μπαμπάλα, Κυπα-  
ρίσσι Λακωνίας

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Φωτογραφία εξωφύλλου: Η Angela Eiter (παγκόσμια πρωταθλήτρια στην αναρρίχηση), σκαρφαλώνοντας στα εκπληκτικά κολονέτα της διαδρομής Λεοντόκαρδος. Αναρριχητικό πεδίο Μπαμπάλα, Κυπαρίσσι Λακωνίας.

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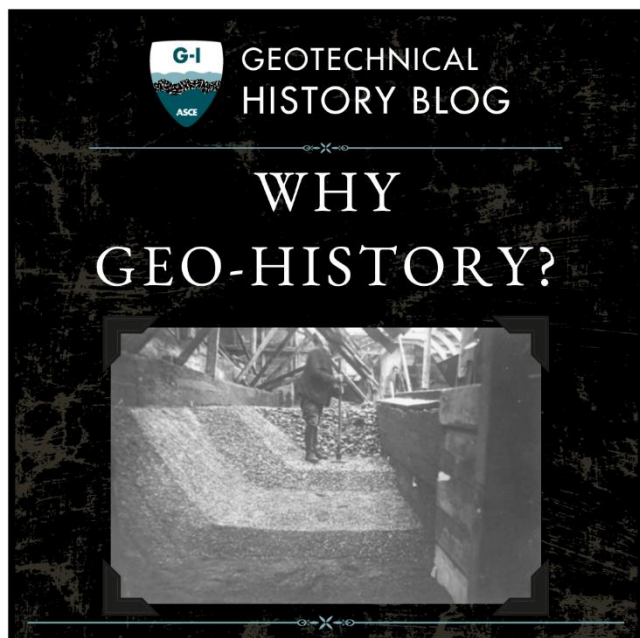
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## Geotechnical history: Why it needs a deeper foundation

Michael Bennett, P.E., M.ASCE (Gannett Fleming, Inc., Audubon, PA)



### The past and present of geotechnical engineering

Next year, the geotechnical profession will mark the centennial of the first book to systematically examine its fundamentals. In 1925, Karl Terzaghi first gained wide renown with the release of his work *Erdbaumechanik auf Bodenphysikalischer Grundlage*, approximately translated as *Earthwork Mechanics Based on Soil Physics*. The book remains singularly impressive among Terzaghi's many career achievements for how much its cutting-edge technical content shifted the conversation about the engineering behavior of soils and foundations. By 1925, civil engineers had quantified some basic geotechnical principles and had seen the consequences of many others but hadn't yet developed a coherent framework for describing these phenomena. Thus, the field languished in a morass of stovepiped knowledge, unreliable rules of thumb, and rivalries between practitioners who tackled questions of soil engineering behavior using either theoretical or practical approaches. Terzaghi broke this stalemate with his methodical investigation and quantification of novel concepts such as effective stress and consolidation. These concepts, presented collectively in *Erdbaumechanik*, gave civil engineers a new, more organized approach to explore and solve problems of soil mechanics and foundations.

One hundred years later, geotechnical engineering enters its second century in a far better position. Most of our field's fundamental problems have been articulated, debated, and (to different extents) solved, and the state of practice is robust. Intriguing interdisciplinary opportunities beckon to modern geotechnical researchers and practitioners and offer creative ideas for addressing the profession's modern challenges. The library of published geotechnical scholarship and literature is both remarkable and ever-growing. The same methodical thinking that drove the geotechnical breakthroughs of the field's first 100 years remains at the heart of these ongoing advances. Simultaneously, our discipline also

takes a keen interest in its heritage, which one can call geo-history. Geo-professionals have written and continue to write many literature reviews and case histories, along with articles about aspects of geo-history.



Image 1: Attendees of the 1st International Conference on Soil Mechanics and Foundation Engineering, held at Harvard University in June 1936.  
Source: Withiam (2024).

To date, though, the methodical approach that has been central to technical advances in geotechnical engineering hasn't been used consistently in studies of geo-history. The topic has been explored to some extent, but its telling remains scattered and haphazard. Thus, most modern geotechnical practitioners, teachers, and students know their professional heritage mainly through the names of a few pioneers (especially Terzaghi) and perhaps some anecdotes about them. The ironic result is that the state of geo-history today has parallels to that of geotechnical engineering 100 years ago. Many key facts about geo-history now, as with geotech then, are well-established, but these haven't yet been organized so they can be fully utilized.

### The benefits of revising geo-history

The sea change Terzaghi kickstarted on the technical side of geotech in the 1920s ultimately enabled civil engineers to fully appreciate what they understood about soil mechanics and foundations. This, in turn, allowed them to start filling the gaps in their knowledge of the subject. Likewise, starting a paradigm shift in the 2020s on how geo-history is examined will probably yield similar advantages over the current state of practice. Geo-professionals who improve their and their peers' understanding of how geotechnical engineering has reached where it now stands and why their forebears explored and developed the field in the directions they chose, rather than via other ones, will probably bring about many positive changes in the discipline. Two seem particularly likely.

First, revisiting how our field has developed will help us geo-professionals improve its best practices and standard of care. More accurately understanding geo-history will involve reexamining geotechnical ideas that have fallen by the wayside. Some were undoubtedly disregarded because they were simply wrong, but others with more merit were just as surely overlooked because they weren't widely circulated or predated the technology needed to take them further. These long-forgotten ideas may well inspire new geotechnical advances and opportunities, including some tied to seemingly intractable modern conundrums. Moreover, gaining a better understanding of geo-history will also remind geo-professionals that the field's basic tenets are human creations which are thus prone to error. This frame of reference will, in turn, help them critically reevaluate and (if needed) correct mistakes within existing theories and techniques. One such scenario played out in the 1980s when Professor Emeritus Richard Handy of Iowa State University found and fixed an error in Terzaghi's theory of soil arching while investigating a fatal retaining wall failure. Overall, the revisions to geotechnical best practices likely to come from an improved understanding of geo-history will help geo-professionals better protect and serve the public, save time and money during design and construction, and more effectively meet their communities' needs and improve their quality of life (Bennett et al. 2018).

Second, studying geo-history in more depth will make us more adept at learning from and appreciating the experiences of our predecessors. Geo-history can function as a dependable catalog for the library that is the collective experiences of geo-professionals. Constructing and using this catalog will allow us to better grasp both technical big-picture trends in our field, as described, and – perhaps even more crucially – non-technical ones. For example, biographical sketches of geotechnical pioneers reflect that they were almost all European or American men. This striking reality vividly underscores the importance to modern geotechnical engineering of broadening the range of perspectives within our profession by cultivating a diverse workforce. Similarly, many geo-pioneers had divergent personalities, which at times impeded technical progress in the discipline. Examining the various interpersonal styles of the early geotechs and how they meshed or conflicted has the potential to be tremendously valuable to modern professionals and academics in the field, all of whom navigate similar challenges in their own careers at some point.



Image 2: Professor Emeritus Richard Handy of Iowa State University.

Source: Bennett et al. (2018).

New lines of inquiry in technical disciplines are deservedly subject to discussion and skepticism, especially a non-traditional one like geo-history. Such scrutiny can only improve the study of geo-history as it develops, much as it did with geotechnical engineering. The new discipline was not universally popular upon its debut, and Terzaghi spent nearly 15 years after *Erdbaumechnik's* publication defending the principles of soil mechanics against detractors who maintained, as one wrote in 1937, that it "has caused no visible progress in: 1) The art of foundation design; and 2) the methods for computing slope stability." Only during World War II did geotechnical engineering finally gain universal acceptance as developments such as the Modified Proctor test and USCS proved its mettle on the battlefield. Similarly, a methodical study of geo-history will likely lead to numerous practical benefits from its inception, as described, and will almost assuredly lead to more as research continues (Peck 1993).

### A new approach to geo-history

Consulting primary sources is, perhaps, the soundest method for geo-professionals to start meticulously investigating their discipline's evolution. They can begin exploring geo-history by reading an article or chapter of their choice from historical geotechnical literature and writing a review on it. Then, as they continue their studies, they can compare different historical sources. Such a building-block approach is more likely

to uncover larger geo-historical trends than reading a few geo-historical works which are already prominent. For instance, Victorian sources on lateral earth pressures reflect how intensely civil engineers feuded before the dawn of geotechnical practice based on whether they designed retaining walls and supports of excavations using mainly theory or a combination of field experience and rules of thumb. Only in the 1920s did Terzaghi solve the issue by combining the two clashing approaches into semi-empirical procedures for assessing soils' engineering properties. The rediscovery of this bygone antagonism and other similar geo-historical trends will steadily make geo-history more valuable for guiding the profession's future.

Using a step-by-step approach to explore geo-history has abundant precedent in the analogous technique Terzaghi utilized a century ago to do his pioneering technical research on consolidation and effective stress. Terzaghi's protégé, Ralph Peck, noted decades later of his mentor's early work that "the theory was developed after the experiments. Only when Terzaghi felt that he understood the phenomenon on the basis of intensive study of the data from tests on real foundation materials did he turn his attention to a mathematical theory embodying the results." Terzaghi and Peck discussed this methodology at length during their collaborations, and Peck later refined it into the modern observational method. Likewise, using an incremental, source-driven methodology to research and revamp geo-history it will make it more accurate and, therefore, more useful to geo-professionals as well (Peck 1993).



Image 3: Profs. Ralph Peck and Karl Terzaghi in Talbot Lab at the University of Illinois at Urbana-Champaign, early 1950s.

Source: Peck-Young (2024).

### Geo-history: Current work and its future

Methodically studying geo-history using a source-driven approach has the potential to help strengthen the geotechnical discipline by ushering in new solutions, techniques, and ways of thinking. It will help geo-professionals refine and, as needed, correct the field's fundamental principles, thereby improving best practices and public safety. Furthermore, it will assist them in drawing upon their predecessors' experiences to navigate the daily challenges both they and the field as a whole face. The findings of even a preliminary geo-history review demonstrate the subject's worth to the profession. (The writer has begun performing such work through his geo-history blog entries posted on the Geo-Institute website.) More and equally valuable findings are likely as geo-history puts down deeper roots. Given time and attention, it seems likely to become a self-sustaining niche topic within geotechnical engineering.

Studying geo-history will take time to pay dividends to the geotechnical engineering profession, and the process of understanding the field's evolution will probably never be complete. However, its probable long-term benefits remain immense, and the subject beckons to be studied. Perhaps no one expressed the value of such studies of history more succinctly or eloquently than legendary British Prime Minister and Nobel Prize-winning historian Sir Winston Churchill. "The longer you look back," Sir Winston once noted, "the farther you can look forward" (Manchester 1983).



Image 4: Prime Minister Winston Churchill of the United Kingdom, 1941.

Source: National Portrait Gallery (2024).

### Acknowledgments

Sebastian Lobo-Guerrero, Ph.D., P.E., BC.GE., M.ASCE (A.G.E.S., Inc.: Canonsburg, PA), the author's onetime colleague, reviewed a draft of the entry. Thomas Kennedy (Geopier: Davidson, NC), the author's Virginia Tech classmate, co-wrote several previous iterations of this entry, the most recent of which appeared as a 2023 Deep Foundations magazine article.

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# ΝΕΑ ΑΠΟ ΤΙΣ ΕΛΛΗΝΙΚΕΣ ΚΑΙ ΔΙΕΘΝΕΙΣ ΓΕΩΤΕΧΝΙΚΕΣ ΕΝΩΣΕΙΣ



ΕΛΛΗΝΙΚΗ  
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ΕΔΑΦΟΜΗΧΑΝΙΚΗΣ  
& ΓΕΩΤΕΧΝΙΚΗΣ  
ΜΗΧΑΝΙΚΗΣ

## Γεωτεχνικός σχεδιασμός μεγάλων έργων υπό σεισμικά και ανακυκλικά φορτία

Διαδικτυακή διάλεξη της Δρος Αμαλίας Γιαννακού  
22 Μαΐου 2024  
[Σύνδεσμος Διάλεξης](#)

### Περίληψη Διάλεξης

Στην διάλεξη παρουσιάζονται παραδείγματα γεωτεχνικού σχεδιασμού μεγάλων τεχνικών έργων ανά τον κόσμο. Στα έργα αυτά περιλαμβάνονται: γέφυρα μήκους 25 χιλιομέτρων που ενώνει τον κόλπο της Μανίλα στις Φιλιππίνες, πλωτός τερματικός σταθμός εισαγωγής υδροποιημένου φυσικού αερίου (FSRU) στην νοτιοανατολική Ασία, δεξαμενή υδροποιημένου φυσικού αερίου στην νότια Ασία, αγωγός φυσικού αερίου στην Αφρική και υπεράκτια αιολικά πάρκα στην ανατολική ακτή των Η.Π.Α. και στην Ανατολική Ασία. Δίνεται έμφαση σε όλα τα στάδια γεωτεχνικού σχεδιασμού και της σημασίας τους στην κατανόηση των κρίσιμων μηχανισμών απόκρισης των κατασκευών και στην ανάπτυξη αξιόπιστων και οικονομικών λύσεων για τη θεμελίωση μεγάλων έργων. Πιο αναλυτικά εξετάζονται ο σχεδιασμός προγράμματος διερεύνησης του υπεδάφους σε θαλάσσια έργα με γεωφυσικές και γεωτεχνικές μεθόδους, η επεξεργασία των αποτελεσμάτων της εδαφικής διερεύνησης για την ανάπτυξη εδαφικού μοντέλου, η ανάπτυξη σεισμικών κινήσεων σχεδιασμού μέσω μελέτης σεισμικής επικινδυνότητας και η χρήση προηγμένων αριθμητικών μεθόδων με κατάλληλα βαθμονομημένα και επαληθευμένα εδαφικά καταστατικά προσομοιώματα για την εκτίμηση της απόκρισης περίπλοκων κατασκευών σε δράσεις λόγω σεισμικής δόνησης, ρευστοποίησης, διάρρηξης ρήγματος, αστάθειας πρανούς, αέρα και κύματος.

### Σύντομο Βιογραφικό Σημείωμα Ομιλήτριας



Η Δρ Αμαλία Γιαννακού είναι γεωτεχνικός μηχανικός και ιδρυτικό μέλος της GR8 GEO με περισσότερα από 15 χρόνια εμπειρία στην διερεύνηση και τον γεωτεχνικό χαρακτηρισμό του υπεδάφους, τον γεωτεχνικό σχεδιασμό, την ανάπτυξη σεισμικών κινήσεων σχεδιασμού και την προσομοίωση μεγάλων έργων με αριθμητικές μεθόδους. Μετά την απόκτηση του διδακτορικού της το 2007 από τον τομέα Γεωτεχνικής

του Ε.Μ.Π. υπό τον Καθηγητή Γιώργο Γκαζέτα με θέμα «Σεισμική Απόκριση Κεκλιμένων Πασσάλων», εργάστηκε στην πολυεθνική εταιρεία Fugro σε διάφορες θέσεις στις Η.Π.Α. και στην Ευρώπη μέχρι το 2018 οπότε εγκαταστάθηκε στην Αθήνα και ίδρυσε την GR8 GEO. Η Δρ Γιαννακού έχει δουλέψει σε πληθώρα έργων ανά τον κόσμο και έχει διευθύνει τεχνικές ομάδες διαφόρων ειδικοτήτων κατά τα στάδια ανάπτυξης και

σχεδιασμού μεγάλων έργων όπως 3 από τις 10 μεγαλύτερες κρεμαστές γέφυρες στον κόσμο (Izmit Bay Bridge, 3rd Bosphorus Bridge, 1915 Canakkale Bridge στην Τουρκία), την υποθαλάσσια σήραγγα του Bay Area Rapid Transit στο Σαν Φρανσίσκο, το νέο αεροδρόμιο της Κωνσταντινούπολης και αναχώματα αντιπλημμυρικής προστασίας στο Χρόνιγκεν της Ολλανδίας. Τα τελευταία πέντε χρόνια έχει διευθύνει τις γεωτεχνικές μελέτες σεισμικού σχεδιασμού δεξαμενών LNG, πλωτών τερματικών σταθμών εισαγωγής αερίου (FSRU), υπεράκτιων πλατφορμών εξόρυξης πετρελαίου σε Μέση Ανατολή, Ασία και Κεντρική Αμερική καθώς και μελέτες σχεδιασμού θεμελίωσης υπεράκτιων αιολικών πάρκων σε Ευρώπη, ΗΠΑ, και Ασία. Έχει συγγράψει 13 άρθρα σε επιστημονικά περιοδικά και πάνω από 30 σε επιστημονικά συνέδρια σε θέματα γεωτεχνικής σεισμικής μηχανικής και χρήσης αριθμητικών αναλύσεων για τον σχεδιασμό μεγάλων τεχνικών έργων.



ΑΚΑΔΗΜΙΑ



ΑΘΗΝΩΝ

## Συνεδρία Υποδοχής του Καθηγητή κ. James Jackson ως αντεπιστέλλοντος μέλους της Ακαδημίας Αθηνών

Την Τρίτη 21 Μαΐου 2024 έγινε η συνεδρία υποδοχής του κ. **James Jackson**, Καθηγητή στις «Επιστήμες της Γης» στο Πανεπιστήμιο του Cambridge, ως αντεπιστέλλοντος μέλους της Ακαδημίας Αθηνών. Κατά την τελετή υποδοχής, ο Ακαδημαϊκός κ. Κωνσταντίνος Συνολάκης παρουσίασε τον Καθηγητή κ. James Jackson, ο οποίος ακολούθως εξεφώνησε ομιλία με θέμα **"How earthquakes shape Greece"**.



### Περίληψη

The discovery of Plate Tectonics in the 1960s provided an adequate description of the evolution of the oceans, but not of the continents, for which a different language is needed. Greece is one of the most active parts of the great earthquake belt that stretches across

the Mediterranean, through the Middle East, central Asia and China. Though relatively small, Greece has had a disproportionately large influence on our understanding of the processes that control the deformation of the continents, creating the landscape and geology of the land on which we live. Many of the concepts now central to our understanding of continental behaviour originated from a study of Greece, which has always been a focus of international attention because of its rapid deformation, abundant earthquakes, long historical earthquake record, and spectacular earthquake-produced landscape at sea level, accompanied by a sustained and excellent data-base of observations in seismology, geodesy, geomorphology and geology, mostly assembled by Greek scientists. This talk will summarize and illustrate that distinguished achievement.

### Βιογραφικό Σημείωμα Ομιλητού

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1985 President's Award, Geological Society of London

1997 Bigsby Medal, Geological Society of London

2002 Elected Fellow of the Royal Society

2003 Elected Fellow of American Geophysical Union

2004 Harold Jeffreys Lecturer, Royal Astronomical Society

2015 Honorary Professor, Indian Institute of Science Education and Research, Kolkata

2015 Wollaston Medal, Geological Society of London

2015 CBE (Commander of the Order of the British Empire)

## Main fieldwork experience

Published field-based studies from Algeria, Italy, Greece, Cyprus, Turkey, Egypt, Iran, India, Pakistan, Mongolia, Malawi, New Zealand, USA (California, Nevada, Utah), Kazakhstan, Kyrgyzstan, Turkmenistan.

## Public Understanding of Science, Media, etc.

2023 Interview for BBC The Life Scientific, 21 March, [www.bbc.co.uk/programmes/b0155qc7](http://www.bbc.co.uk/programmes/b0155qc7)

----- Typically 5-8 public science lectures a year on earthquakes and tsunamis

1997 10 hours of public lectures on 'Planet Earth' in 5 cities in New Zealand (British Council)

1996 8 hours of public lectures on 'Planet Earth', Tokyo, Japan (and NHK TV)

1995 Royal Institution/BBC Christmas Lecturer, 'Planet Earth an explorer's guide' (5 hours) [www.rigb.org/explore-science/explore/video/planet-earth-explorers-guide-edge-world-1995](http://www.rigb.org/explore-science/explore/video/planet-earth-explorers-guide-edge-world-1995)

1983 Main presenter of BBC Horizon programme`

## Public service outside Cambridge

2017 UK (Royal Society) representative at 3rd Joint Science Conference of the Western Balkans Process in Paris

2012 Member, Earth Observatory of Singapore, review panel.

2011,12 Member, Deutsche Forschungsgemeinschaft (DFG) Geoscience panel.

2011 Member, Uppsala University review panel, Sweden.

2009–15 Member, Board of Advisors, GeoHazards International.

2006 Chairman, Tectonics Observatory Visiting Committee, Caltech

2005 Member of National Science Foundation Committee of Visitors, Washington DC.

2001 Member of National Research Council/National Academy review panel of National Science Foundation EARTHSCOPE initiative to U.S. Congress

1993–95 Member of Research Grants and Training Awards Committee, N.E.R.C.

1993–94 Member of the Royal Society Radioactive Waste Study Group, and co-author of the report Disposal of Radioactive Wastes in Deep Repositories (Royal Soc. 1994)

1992 Visiting Committee, Institute de Physique du Globe, Paris

## Some named lectures

2001 Mallet-Milne Lecturer, Society of Earthquake & Civil Engineering Dynamics, London

2004 Kliegel Lecturer, Caltech, Pasadena

2004 Harold Jeffreys Lecturer, Royal Astronomical Society, London

2018 Lamor Lecturer, Cambridge Philosophical Society

## Miscellaneous, big projects, science into policy

- 2012–18 lead PI of the NERC-ESRC Consortium 'Earthquakes Without Frontiers': a partnership between earthquake scientists in UK universities (Cambridge, Oxford, Durham, Leeds) and countries in the earthquake belt between Italy and China working together to share knowledge, expertise, training and resources to increase resilience to earthquakes in Asia. The partnership included social scientists in the universities of Durham, Hull and Northumbria as well as science-into-policy experts from the Overseas Development Institute in London. See <http://ewf.nerc.ac.uk/>

- 2002– founding Director of COMET (Centre for Observation and Modelling of Earthquakes and Tectonics: <https://comet.nerc.ac.uk/>) now part of NERC's National Capability infrastructure.

**Advice to Government:** Advice to COBR, SAGE, GO Science, DFID after the 2015 Nepal earthquake, and to MOD and FCDO on earthquake risk to overseas facilities.

**Editorial Boards of Journals:** J. Earthquake Engineering; MTA Bulletin (Bulletin of Geological Survey of Turkey); Biographical Memoirs of Fellows of the Royal Society.

## Publications

>200 articles, of which 187 are in international reviewed literature. ISI H-index was 90 on 29.12.2023 with

>21,000 citations

## General areas of interest and expertise

Earthquake seismology, space-based geodesy and Quaternary geology, combined with field and remote observations of geomorphology, to study how the continents develop and deform on all scales, from individual earthquakes to the evolution of mountain belts. Interactions with civic leaders, officials and others responsible for public safety on how to use earthquake science to reduce the risk from earthquakes to populations in developing countries.

Η συνεδρία είναι διαθέσιμη για παρακολούθηση μέσω του ακόλουθου συνδέσμου:

[https://diavlos.gnet.gr/room/8570?eventid=16272&vod=13432\\_session](https://diavlos.gnet.gr/room/8570?eventid=16272&vod=13432_session).

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### Σχολή Πολιτικών Μηχανικών Τομέας Γεωτεχνικής Εκπαιδευτική Εκδρομή Τεχνικής Γεωλογίας

Η μεγάλη εκπαιδευτική εκδρομή Τεχνικής Γεωλογίας του Τομέα Γεωτεχνικής, της Σχολής Πολιτικών Μηχανικών, από 24 Απριλίου έως 4 Μαΐου, ολοκληρώθηκε με μεγάλη επιτυχία.



Μια ομάδα 130 φοιτητών του 4ου έτους κατέκτησαν τις Άλπεις και πολλές άλλες περιοχές Ιταλίας και Γαλλίας σε αντικείμενα μεγάλων ενεργών κατολισθήσεων, εμβληματικών και τραγικών αστοχιών έργων Πολιτικού Μηχανικού όπου το γεωλογικό μοντέλο δεν αξιολογήθηκε κατάλληλα ή ήταν λανθασμένο. Είδαν μεγάλα τεχνικά έργα αυτοκινητοδρόμων, όλα τα πιθανά μέτρα προστασίας – αντιστήριξης που μπορεί να εφαρμοστούν σε βραχώδη πρανή, μικρά ή μεγάλα, μεγάλες σήραγγες των Άλπεων (υπό υπερκείμενα 2500m) αλλά και θέματα θεμελίωσης ιστορικών μνημείων και μεθόδους προστασίας τους.

Η ομάδα αυτή των 130 φοιτητών ξεκίνησε την 1η ημέρα με μικρές ομάδες-παρέες να παρακολουθούν το πρόγραμμα της εκδρομής με απόλυτη συνέπεια και αφοσίωση. Κάθε ημέρα οι ομάδες αυτές μεγάλωναν και κατέληξαν να γίνουν μια μεγάλη ομάδα στην αποφώνηση της εκδρομής την τελευταία ημέρα. Η συμμετοχή στο εκπαιδευτικό πρόγραμμα τους ήταν υποδειγματική. Αποτελεσματική. Με μεγάλη διάθεση να ξεπερνούν τα μικρο-εμπόδια που μας τύχαιναν κάθε σχεδόν ημέρα. Όμως αυτό που έμεινε από την ομάδα της χρονιάς του 2024 ήταν τα χαμόγελα, τα εντυπωσιασμένα βλέμματα που μεταλλάσσονταν σε κάθε στάση, οι ζεστές καλημέρες αλλά κυρίως η μεγάλες κοινές αγκαλιές όταν ξεκουράζονταν από το βαρύ πρόγραμμά μας.

Ευχαριστούμε πάρα πολύ τους 48 χορηγούς μας για την ση-

μαντική υποστήριξη τους στην εκπαιδευτική διαδικασία. Ήταν ένα ποσό και ένας αριθμός χορηγών ρεκόρ για τα δεδομένα της εκδρομής αυτής. Και πάλι τους ευχαριστούμε όλους θερμά!



Ειδικότερα, αισθανόμαστε την υποχρέωση να ευχαριστήσουμε του χορηγούς για την πραγματοποίηση αυτής της ιστορικής εκδρομής. Ειδικότερα, ευχαριστούμε θερμά τις εταιρείες ΤΕΡΝΑ Α.Ε., ΑΒΑΞ Α.Ε., ΙΝΤΡΑΚΑΤ Α.Ε., ΜΥΤΙΛΗΝΑΙΟΣ Α.Ε., ΑΚΤΩΡ ΠΑΡΑΧΩΡΗΣΕΙΣ, ΟΒΕΡΜΕΥΕΡ HELLAS LTD, ΛΑΜΔΑ DEVELOPMENT, C&M ENGINEERING S.A., ΕΚΤΕΡ Α.Ε., ΕΛΛΗΝΙΚΕΣ ΥΠΟΔΟΜΕΣ ΚΑΙ ΟΔΟΙ ΜΕ ΔΙΟΔΙΑ – HELLASTRON, ΓΕΩΤΕΧΝΙΚΕΣ ΕΡΕΥΝΕΣ Α.Τ.Ε., ΕΔΑΦΟΜΗΧΑΝΙΚΗ Α.Ε., HELLAS GOLD SA, ΡΟΓΚΑΝ & ΣΥΝΕΡΓΑΤΕΣ Α.Ε, STRUCTURES & GEOTECHNICS ΙΚΕ, ΟΜΙΚΡΟΝ ΚΑΠΠΑ-ΜΕΛΕΤΗΤΙΚΗ Α.Ε., ΑΤΤΙΚΗ ΟΔΟΣ Α.Ε., ΟΛΥΜΠΙΑ ΟΔΟΣ Α.Ε., GR8 GEO Engineering Consultants, SALFO & Associates SA., NAMA Consulting Engineers and Planners SA., DENCΟ Α.Ε., ΓΕΩΜΕΛΕΤΗ ΣΥΜΒΟΥΛΟΙ ΜΗΧΑΝΙΚΟΙ, MyFlat, ΡΟΪΚΟΣ ΣΥΜΒΟΥΛΟΙ ΜΗΧΑΝΙΚΟΙ, ΚΑΡΑΒΟΚΥΡΗΣ ΚΑΙ ΣΥΝΕΡΓΑΤΕΣ, ΥΔΡΟΕΞΥΓΙΑΝΤΙΚΗ Ε.Ε., Haris P.Lamaris & Associates, ΟΜΙΛΟΣ ΤΕΧΝΙΚΩΝ ΜΕΛΕΤΩΝ Α.Τ.Ε, ΠΡΟΤΥΠΟ ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ, ΕΔΑΦΟΣ Α.Ε., A&K Associate Engineers PC, ODYSSEY CYBERSECURITY, ΔΟΜΗ ΑΕ ΣΥΜΒΟΥΛΟΙ ΜΗΧΑΝΙΚΟΙ, BRAND WORKS I.K.E., ΑΤΕΝΕΙΑ Ι.Κ.Ε., ΤΡΙΤΩΝ ΣΥΜΒΟΥΛΟΙ ΜΗΧΑΝΙΚΟΙ ΑΕ, ΑΓΡΟΤΙΚΟΣ ΠΤΗΝΟΤΡΟΦΙΚΟΣ ΣΥΝΕΤΑΙΡΙΣΜΟΣ ΑΡΤΑΣ, ΒΑΡΔΑΣ - ΟΙΚΟΝΟΜΟΥ ΑΕ, ΝΕΟΤΕΚ, ΝΕΟΤΕΚ – Π.ΞΥΣΤΡΗΣ & ΣΙΑ Ε.Ε., ΧΙΩΝΗΣ ΚΑΙ ΣΥΝΕΡΓΑΤΕΣ, ΔΟΜΙΚΟΣ ΚΟΣΜΟΣ-NATΣΗΣ, Cretalive OnMedia.

Και βέβαια ευχαριστούμε το ίδρυμά μας, το Εθνικό Μετσόβιο Πολυτεχνείο και ειδικότερα την Σχολή μας για την δυνατότητα εκτύπωσης των τευχών της εκδρομής, ένα πολύτιμο υλικό για την βιβλιοθήκη των φοιτητών.



Οι περισσότεροι από αυτούς απόφοιτοι της Σχολής, έχοντας συμμετάσχει στην εμβληματική εκδρομή που διοργάνωνε για δεκαετίες ο εκλιπών Ομ. Καθηγητής Παύλος Μαρίνος με την συμβολή του Ομ. Καθηγητή Γιώργου Τσιαμπάου. Η εικόνα των 130 φοιτητών να παρακολουθούν με δέος το μάθημα του Vajont κάτω από σταθερή βροχή για πολύ ώρα, χωρίς να χά-



νουν λεπτό το ενδιαφέρον τους, χωρίς να ελέγχουν το κινητό τους, συνέχεια της τεράστιας παρακαταθήκης που άφησαν οι δύο καθηγητές στην Σχολή μας, τον Τομέα Γεωτεχνικής, στο ΕΜΠ.



Υπεύθυνος οργάνωσης της εκδρομής ήταν ο Επ. Καθηγητής του Τομέα Γεωτεχνικής Βασίλης Π. Μαρίνος. Μαζί με μια σπουδαία ομάδα 9 φοιτητών! Από τον Οκτώβριο έως τον Απρίλιο, 9 άγνωστοι ή απλώς γνωστοί μεταξύ τους φοιτητές, έφτιαξαν μια δυνατή ομάδα η οποία με μεθοδικότητα βοήθησε σε όλα τα επίπεδα στην οργάνωση της εκδρομής. Τους αξίζουν συγχαρητήρια όχι μόνο για τον χρόνο που διέθεσαν για να εκπροσωπήσουν τους υπόλοιπους φοιτητές αλλά κυρίως για το εξαιρετικό αποτέλεσμα που κατάφεραν: Δημήτρης Σολωμιδης, Ελπίδα Φράγκου, Νίκη Δρακοπούλου, Καίτη Ρίζου, Βασίλης Μουχαρτίδης, Μαριάννα Λαδά, Αναστασία Τσιακούμη, Γιώργος Κίτσιος Κεραμίδας, Εβελίνα Κατσαρού.

Στην οργάνωση και εκτέλεση της εκδρομής συνέβαλε εξαιρετικά ο Υποψήφιος Διδάκτορας του τομέα Θέμης Χατζηθεοδοσίου. Με την προετοιμασία του εκπαιδευτικού υλικού στο πεδίο και στο τεύχος.

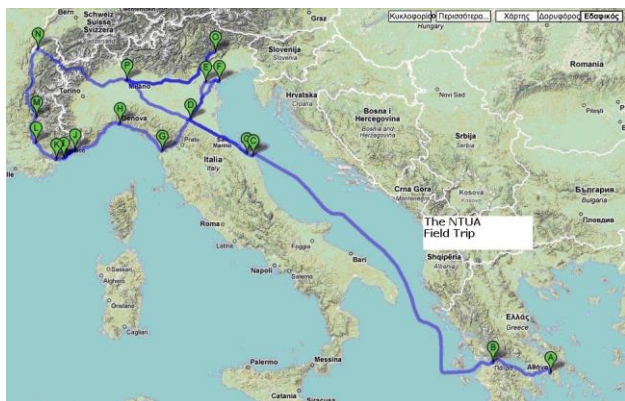
Θερμές ευχαριστίες στον μεταδιδάκτορα Ιωάννη Φαρμάκη ο οποίος συνόδευσε και βοήθησε στην εκτέλεση της εκδρομής.

Θα θέλαμε να ευχαριστήσουμε ιδιαίτερα την γιατρό μας, Ειρήνη Ναζαρή για την παρουσία της στην δύσκολη εκδρομή μας και την εξαιρετική συμβολή της όταν χρειάστηκε.

Ευχαριστούμε πολύ τους οδηγούς μας, τον Ιωάννη Φωτόπουλο που συνοδεύει χρόνια την εκδρομή μας, τον Γιάννη, τον Χρήστο, τον Γιώργο για την άφογη μεταφορά μας στα πολύ απαιτητικά μέρη που επισκεφτήκαμε και ασφαλή επιστροφή μας.

Τέλος, ευχαριστούμε το ταξιδιωτικό γραφείο Our Travel για την συνεργασία στην οργάνωση της εκδρομής. Οι συνοδοί από το γραφείο, ο Κος. Βλάχος, η Κα. Ιωάννα και ο κ. Γιώργος έγιναν αμέσως ενεργά μέλη της ομάδας μας και βοήθησαν πάρα πολύ στο έργο μας.

Επίκουρος Καθηγητής ΕΜΠ



Οδοιπορικό εκδρομής από το <https://www.geoengineer.org>.



ΔΗΜΟΚΡΕΤΕΙΟ  
ΠΑΝΕΠΙΣΤΗΜΙΟ  
ΘΡΑΚΗΣ

## Πολυτεχνική Σχολή Τμήμα Πολιτικών Μηχανικών Τομέας Γεωτεχνικής Μηχανικής

### Ημερίδα «ΓΕΩΤΕΧΝΙΚΗ ΜΗΧΑΝΙΚΗ ΚΑΙ ΣΥΝΕΡΓΕΙΕΣ: Εμπειρίες και Προοπτικές»



Τη Δευτέρα 20/5/2024 πραγματοποιήθηκε με μεγάλη επιτυχία η Ημερίδα με τίτλο: «ΓΕΩΤΕΧΝΙΚΗ ΜΗΧΑΝΙΚΗ ΚΑΙ ΣΥΝΕΡΓΕΙΕΣ: Εμπειρίες και Προοπτικές» σε ένα κατάμεστο από φοιτητές, καθηγητές και επισκέπτες, αμφιθέατρο του Τμήματος Πολιτικών Μηχανικών του Δημοκριτείου Πανεπιστημίου Θράκης, στην Πανεπιστημιούπολη Κιμμερίων, στην Ξάνθη. Η Ημερίδα αυτή συνδιοργανώθηκε από τον Τομέα Γεωτεχνικής Μηχανικής (Παύλος Αστερίου, Μάνος Ροβίθης, Ιωάννης Μάρκου, Νίκος Κλήμης και Φ.-Κ. Πλιάκας) του Τμήματος Πολιτικών Μηχανικών του Δ.Π.Θ. και την εταιρεία GeoTerra Σύμβουλοι Μηχανικοί (Μανώλης Βαρδαβάκης, Γιάννης Λάζαρης, Ευστράτιος Τζιβόλιας) και κάλυψε επιστημονικά ένα ευρύ πεδίο συνεργειών της Γεωτεχνικής Μηχανικής με τη συμμετοχή διακεκριμένων ομιλητών άλλων Πανεπιστημίων (Αναστάσιος Σέξτος, Ορέστης Παπακυριακόπουλος και Π. Καρύδης), Ερευνητικών Ινστιτούτων (Βασίλης Μάργαρης), καθηγητών του Τομέα Γεωτεχνικής Μηχανικής (Νίκος Κλήμης και Ιωάννης Μάρκου), του Τμήματος Πολιτικών Μηχανικών (Βασίλειος Προφυλίδης), αλλά και από τη συνδιοργανώτρια εταιρεία (Μανώλης Βαρδαβάκης).



Η εκδήλωση αυτή ήταν αφιερωμένη στη μνήμη του Πάνου Παπακυριακόπουλου, ο οποίος διετέλεσε καθηγητής του Τμήματος Πολιτικών Μηχανικών του Δ.Π.Θ. και ειδικότερα του Τομέα Γεωτεχνικής Μηχανικής, αλλά και ιδρυτικό στέλεχος της εταιρείας GeoTerra.

Ζήσαμε ιδιαίτερες στιγμές με τις αναφορές που έγιναν από συνεργάτες και φίλους του στην προσωπικότητά του,

στα έργα του και στις αρχές του στην ακαδημαϊκή, επαγγελματική και προσωπική του ζωή, με την παρουσία της συζύγου του κας Ειρήνη Τσαμανδουράκη και του υιού του κ. Ορέστη Παπακυριακόπουλου.

Δυστυχώς, λόγω τεχνικών προβλημάτων δεν κατέστη εφικτή η ζωντανή αναμετάδοση (live streaming) της εκδήλωσης. Θα επανορθώσουμε, τουλάχιστον μερικώς, με την ανάρτηση υλικού από την εκδήλωση.

Εκ μέρους του Τομέα Γεωτεχνικής Μηχανικής εκφράζουμε τις θερμές ευχαριστίες μας προς τη συνδιοργανώτρια εταιρεία GeoTerra και την κα. Ειρήνη Τσαμανδουράκη για την ένθερμη και αδιάλειπτη υποστήριξη της προετοιμασίας της Ημερίδας, το Τμήμα Πολιτικών Μηχανικών για τη φιλοξενία της εκδήλωσης, αλλά και τους συναδέλφους, τους φοιτητές και τους φίλους που μας τίμησαν με την παρουσία τους.

Επίσης, ευχαριστούμε τον κ. Κ. Χαλιορή, Αντιπρύτανη Οικονομικών Δ.Π.Θ., τον κ. Λ. Ηλιάδη, Πρόεδρο του Τμήματος Πολιτικών Μηχανικών και τον κ. Αργ. Πλέσια, Πρόεδρο Μελετητών Ελλάδας που χαιρέτησαν την εκδήλωση.



## International Society for Soil Mechanics and Geotechnical Engineering

### ISSMGE News

[www.issmge.org/news](http://www.issmge.org/news)

### ISSMGE TC222 - Workshop on Geo Data Structures and Underground Asset Registries on May 30th

ISSMGE Secretariat / [TC222](https://www.issmge.org/news) / 23-05-2024

Announcing the 4th TC222 digital workshop to be held on the May 30th on the topic of Geo Data Structures and Underground Asset Registries This will be an online event (on Teams) with talks from Holger Kessler (AtkinsRealis), Dr. Song (IMDE), Grzegorz Ryzynski (PGI) and Rob van der Krogt (TNO).

The date and time for the event is:

**May 30th 2024 | 10.00 (Paris), 16.00 (China), 04.00 (New York), duration 2h**

To attend, please sign up using this Forms link: <https://forms.office.com/e/GMv2z2j4sf>

A Teams meeting invitation will be sent shortly after signup.

We hope you have the time to attend!

Please feel free to share the invitation to your network, this workshop is open to all.

More information can be found here:

<https://www.linkedin.com/company/83013194/admin/feed/posts/>

Best regards,

Mats Kahlström (Secretary)

### ISSMGE Bulletin open invitation

ISSMGE IT Administrator / General / 22-05-2024

This is an open invitation by the president to all ISSMGE members to send their articles about their events and activities for review and publication at the new bulletin 2nd issue Vol 18. If you are an individual member, please submit via your affiliation, be it your national society, corporate associate, technical committee, or board level committee.

[View Invitation](#)

### ISSMGE Interactive Technical Talk Episode 17: Geotechnical BIM and Digital Twins (TC222)

ISSMGE IT Administrator / [TC222](https://www.issmge.org/news) / 24-05-2024

The seventeenth episode of International Interactive Technical Talk has just been launched and is supported by TC222. Mickaël Beaufils, Amanda Huang, Prof. Ashtarout Ammar and Sankar V S are discussing with Dr. Marc Ballouz about Geotechnical BIM and Digital Twins.

[Watch ISSMGE Interactive Technical Talks](#)

### International Conference on Geotechnical Engineering Education 2025 (GEE2025)

ISSMGE IT Administrator / [TC306](https://www.issmge.org/news) / 30-05-2024



The Conference Geotechnical Engineering Education 2025 ([GEE 2025](#)): Charting the path toward the future will be held in Nancy, France, on July 2-4, 2025. The Conference is organized by the Technical Committee TC306 for Geo-engineering Education of the ISSMGE, under the auspices of the French Society for Soil Mechanics and Geotechnical Engineering (Comité Français de Mécanique des Sols et de Géotechnique - CFMS) and the Ecole Nationale Supérieure de Géologie, Université de Lorraine, France.

The Conference GEE2025 has two priority themes (in addition to more typical education themes such as curricula, coursework and educational material):

1. Teaching of unsaturated soils
2. Use of numerical modeling to support teaching

Submission deadlines are September 5, 2024, for abstracts and February 5, 2025, for papers.

You are invited to visit the conference site (<https://gee2025.sciencesconf.org/>) and create an account to receive updates.

### 14th International Symposium on Landslides

ISSMGE Secretariat / [JTC1](https://www.issmge.org/news) / 24-05-2024

<https://www.isl2024.com/>

The 14th International Symposium on Landslides "**Land-slides across the scales: from the fundamentals to engineering applications**" will take place July 7-12<sup>th</sup> 2024 in Chambéry (Savoie, France)

### ICSE-12 website is now open

ISSMGE Secretariat / [TC213](#) / 31-05-2024

The ICSE-12 website is now open at <https://icse12.cqjtu.edu.cn/index.htm>.



### News

<https://www.isrm.net>

#### ARMS13, New Delhi - Full paper submission deadline is 31 May 2024 2024-05-17

The deadline for submission of full papers to the ISRM International Symposium 2024 and Asian Rock Mechanics Symposium ARMS13 is 31 May 2024.

For more information on the event, [visit the conference website](#).



### News

<https://about.ita-aites.org/news>

#### ITACET LUNCHTIME LECTURE SERIES #35 13 May 2024

The thirty-fifth instalment of the Lunchtime Lecture Series will focus on 'Logistics in long and deep tunnels' in collaboration with the working group 17.

This LLS#35 will run on May 14th at 13:00 CET time

The episode will feature three lectures and will finish with a Q&A with all speakers.

- Logistical aspects of deep tunnelling - Magali Schivre
- Logistical challenges and solutions of Gauduri tunnel in north-south corridor (Kvesheti-Kobi) road project in Georgia - Junpeng Wang

- Logistical issues specific to the Brennero project - Antonio Voza

Sign up for free subscription: [Lunchtime lecture series#35 | Itacet](#)

#### ITACET LUNCHTIME LECTURE SERIES #36 16 May 2024

The thirty-sixth instalment of the Lunchtime Lecture Series will focus on 'Low carbon Tunnelling' in collaboration with ITAtech.

This LLS#36 will run on June 11th at 13:00 CET time

The episode will feature three lectures and will finish with a Q&A with all speakers.

- Introduction - Benoit Jones
- Design and optioneering - Wolfgang Aldrian
- Some example of carbon reduction in practice - Benoit de Rivaz

Sign up for free subscription: [Lunchtime lecture series#36 | Itacet](#)

#### ITA AWARDS 2024: CALL FOR ENTRIES 16 May 2024

##### CALL FOR ENTRIES

The 10th edition of the International Tunnelling and Underground Space awards welcomes new applications, ITA is now calling new candidate to apply.

The 2024 edition will take place on 28 November, in Genova, Italy in conjunction with the two-days international conference "Tunnels and Underground Works: over the last 5 decades and onwards" organized by the Italian Tunnelling Society (SIG) from 29-30 November 2024.

These events are organized as part of the celebration of the 50th anniversary of ITA and SIG.

The ITA Awards provide an opportunity to highlight you're achievement and share your success with the tunnelling and underground space industry!

Submit your entry among 8 categories!

Registration for application is now open until 30th June 2024. [Home - ITA Tunnelling Awards 2024 \(ita-aites.org\)](#)

#### Scooped by ITA-AITES #116, 2 May 2024

[Nine chinese tunnels rank as iconic projects in World Tunnel Congress](#)

[Tunnelling milestones for Sydney Metro West | Australia](#)

[World's largest diameter Hard Rock TBM breaks through | Georgia](#)

[Norwegian investors propose large underground salmon farm in the southend | UK](#)

[Hudson Tunnel project now estimated to create \\$19.6B in economic activity, nearly 100K jobs | USA](#)

[Upcoming projects April 2024](#)

[Fehmarnbelt | Purpose-built vessel arrives to line tunnel trench with gravel 'cushion' | Denmark](#)

[Antwerp to host World Tunnel Congress 2027 | Belgium](#)

[China wows at record World Tunnel Congress 2024](#)

[Namma Metro: Underground tunnel work on Pink Line 95% complete | India](#)

### **Scooped by ITA-AITES #117, 14 May 2024**

[New Athens Metro line to alleviate heavy urban traffic | Greece](#)

[HS2 reaches halfway point in tunnelling | UK](#)

[Progress in underground section of Agra Metro gathers momentum | India](#)

[London just built a massive sewage tunnel to clean up its poop problem | UK](#)

[The incredible new £12bn mega-tunnel that could end traffic chaos in world famous city | USA](#)

[Bangkok Metro Purple Line delivered a second EPBM | Thailand](#)

[Sydney Metro West tunnelling reaches Burwood North | Australia](#)

[Morocco's proposed \\$13 billion underwater tunnel to connect Europe to Africa by 2030s | Spain - Morocco](#)

[Snowy Hydro still on track | Australia](#)

[The Channel Tunnel, from pipe dream to European reality | UK - France](#)

### **Scooped by ITA-AITES #117, 28 May 2024**

[Bullet Train Project: Over 76,000 segments to be cast for tunnel between Bandra Kurla Complex and Shilphata | India](#)

[Empire State-sized underground energy storage project is 'ten times bigger than nearest rival' | Finland](#)

[The challenge of building an MRT tunnel close to the KPE | Singapore](#)

[The future of infrastructure: Trends in tunnel design](#)

[Tunnelling ahead at Sydney Metro | Australia](#)

[Vegas Loop tunnel reaches off-Strip resort | USA](#)

[Massive underground project aims to protect Great Lakes from sewage, storm water | USA](#)

[Japanese companies help build metro lines overseas](#)

[Nominations Being Accepted for 10th ITA Tunnelling Awards](#)

[Incredible £3bn 10-mile underwater rail tunnel | China](#)

[First Fehmarn Belt immersed tunnel element cast | Denmark - Germany](#)



### **BTSYM May Workshop**

#### **Instrumentation & Monitoring system design & specification**

Tuesday, 16 May 2024, Institution of Civil Engineers, One Great George Street, Westminster, London SW1P 3AA



#### **Event Information:**

I&M is a discipline that falls between surveying, geotechnical engineering and structural engineering, with some contributions from other disciplines. This multifaceted nature of I&M and asset protection makes it difficult for the individual to acquire a comprehensive knowledge of the discipline.

The goal of this workshop is to help designers and contractors identify oversights in design and I&M system specification which can lead to misleading or disconcerting monitoring results. The workshop will cover the essential requirements of the most common monitoring methods and the particulars of the I&M process in general.

#### **Speaker:**

##### **Andres Rodriguez**

Andres is a Geologist by background who has been working in Instrumentation & Monitoring for more than 12 years. He has worked in the UK, Spain and Peru, giving him experience in a diverse range of I&M projects such as urban tunnelling, slope stability, heavy trials and monitoring for building construction and refurbishment.

His experience started on the monitoring subcontractor side, working to become Technical Lead for Enabling Works in Lower Thames Crossing, I&M Lead for ASC in HS2 Section C2/C3, and now as I&M Manager for Strabag (SCS) in HS2 Section S1/S2, helping deliver the Atlas Road Logistics Tunnel and the Euston Tunnels



**News**

**Register Now: Free Hybrid Symposium On Geosynthetics And Sustainability** May 6, 2024

The International Symposium on Geosynthetics and Sustainability will be held online and in person on the 14th of May from 13:15 – 18:45 CET in [Read More »](#)

**IGSF Annual Report 2023 Published** May 10, 2024

The IGS Foundation (IGSF) celebrates another active year widening access to geosynthetics education in its latest annual report. Funding geosynthetics testing videos to enable more [Read More »](#)

**IGS North America Delivers Triumphant GeoAmericas 2024** May 15, 2024

Nearly 800 attendees, 130 presentations, 39 breakout sessions and three keynotes added up to a successful 5th GeoAmericas conference. Organized by IGS North America, the [Read More »](#)

**Nominations Invited For Renowned Giroud Lecture** May 31, 2024

One of the IGS's most prestigious lecture opportunities for talented individuals in the geosynthetics industry is now open for nominations. Nominations are being invited for [Read More »](#)



**National Committee of the British Geotechnical Association**

**Στα 14 εκλεγμένα μέλη πέντε Έλληνες συνάδελφοι**

Chair : Andrew Ridley  
Vice Chair : **Yuli (Chaido) Doulala-Rigby**  
Honorary Secretary : Nick Armstrong  
Honorary Treasurer : Tony Bowerman  
Honorary Communications Officer : Martin Preene  
Immediate Past Chair : David Toll

ICE Secretariat : Kate Beardsley  
Elected member : Pedro Ferreira  
Elected member : **Christina Mavrommati**  
Elected member : Hoe Chian Yeow  
Elected member : Kevin Briggs  
Elected member : **Katerina Tsiampousi**  
Elected member : Giulia Viggiani  
Elected member : **Dimitrios Daskalopoulos**  
Elected member : **Georgios Katsigiannis**  
Elected member : Stephen Thomas

**Στα 14 εκλεγμένα μέλη της National Committee of the British Geotechnical Association οι πέντε (5) είναι Έλληνες συνάδελφοι. Συγχαρητήρια!**



**Yuli (Chaido) Doulala-Rigby**, Tensar. Yuli is a Chartered Engineer (CEng) and a Fellow of the Institution of Civil Engineers (FICE) with nearly 30 years' experience in geotechnical engineering, and in particular with geosynthetics. Yuli has worked as a Geotechnical Engineer for 10 years in Hong Kong and since her return in the UK some 18 years ago, she has been working for Tensar International overseeing projects' designs in the UK, Europe, Middle East, Russia and Asia Pacific. Yuli has served as a past Chair of the UK Chapter of the International Geosynthetics Society (IGS) and the ICE NW Region and she is currently the Vice Chair of the British Geotechnical Association (BGA) and an Appointed Board Member of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE).



**Christina Mavrommati**, Civil Engineer, Project Director, Mott MacDonald. Christina's work experience includes a variety of roles in the field of engineering and geotechnical engineering. Christina started their career as a Graduate Engineer at Mott MacDonald in 2000 and worked there until 2003. Christina then worked as an Assistant Geotechnical Engineer at TRITON SA from 2003 to 2004, followed by a role as an Assistant Geotechnical Engineer at EDAFOS Engineering Consultants S.A. from 2004 to 2007. From 2007 to 2012, they worked as a Geotechnical Engineer at ATTIKO METRO. Christina returned to Mott MacDonald in 2013 and held various positions, including Senior Geotechnical Engineer from 2013 to 2015, Principal Geotechnical Engineer from 2016 to 2017, Principal Engineer from 2018 to 2021, and currently serves as a Project Director starting from July 2021. Christina Mavrommati holds a Bachelor of Engineering (BEng) degree in Civil Engineering from UCL. Christina also obtained a Master's degree in Soil Mechanics and Engineering Seismology from Imperial College London. In addition, she has the certification of CEng MICE from the Institution of Civil Engineers (ICE).



**Katerina Tsiampousi**, Civil Engineer, Imperial College London. Katerina is a Senior Lecturer at Imperial College London, specialising in constitutive and hydraulic modelling of unsaturated soils and in numerical modelling of geotechnical infrastructure. Her recent work in the area of unsaturated soil mechanics has focused on numerical modelling of soil-atmosphere interaction and the associated

seasonal development of suctions in the field, for which she has developed and applied equations governing coupled consolidation, and constitutive and hydraulic models for unsaturated soils. She is an elected member of the British Geotechnical Association and a member of the ISSMGE Technical Committee 106 Unsaturated Soils nominated by HSSMGE. She seats at the Editorial Panels of Géotechnique and of Computers and Geotechnics.



**Dimitrios Daskalopoulos**, Civil Engineer, Technical Director AECOM. Dimitri is a civil engineer with more than 18 years of experience in the design and management of the geotechnical aspects of a wide range of projects. He is a Chartered Engineer in the UK as a Member of the Institution of Civil Engineers, and a member of the UK-Register of Geotechnical Engineering Professionals. Dimitri gained his experience working in his home

country of Greece and in the United Kingdom, with projects located in Europe, Africa and Asia, including high-profile projects such as Egnatia Motorway (Greece), Lyme Regis Environmental Improvements Phase IV (UK), Hinkley Point C (UK), Ethiopia Landslide Study, Amsterdam Schiphol Airport (Netherlands) and Colombo North Port (Sri Lanka). Dimitri's areas of specialism include retaining wall design, deep excavations, soil-structure interaction, landslide remediation and earthworks design (unreinforced and reinforced). [dimitrios.daskalopoulos@aecom.com](mailto:dimitrios.daskalopoulos@aecom.com)



**Georgios Katsigiannis**, Civil Engineer. Georgios is the Head of Technical Disciplines at Eiffage Kier Ferroviaria (EKFB) JV owning the development of the strategy to deliver the overall programme technical performance. This is achieved through the successful leadership of the Technical Discipline teams involved in the design

and construction phase of Britain's new high speed rail line (HS2) Main Works Civils contract C23. He is currently Honorary Lecturer in Transport Infrastructure at University College London (UCL).



### Το podcast των Πολιτικών Μηχανικών

**Η Πρόεδρος της Ελληνικής Επιτροπής Μεγάλων Φραγμάτων Χαρά Παπαχατζάκη ομιλεί για τα μεγάλα φράγματα**



Η Πρόεδρος της Ελληνικής Επιτροπής Μεγάλων Φραγμάτων Χαρά Παπαχατζάκη αναλύει πολλαπλά θέματα σχετικά με το σχεδιασμό, την κατασκευή, τη λειτουργία και τον ευεργετικό ρόλο των μεγάλων φραγμάτων στη χώρα μας, σε ένα εξαιρετικό podcast για τους φοιτητές των τμημάτων Πολιτικών Μηχανικών.

[The very first episode of the podcast featuring the esteemed Zacharoula \(Chara\) -Rea Papachatzaki](#) is out now on Spotify!!

As a highly experienced civil engineer specializing in dam engineering and the President of the [GCOLD - Greek Committee on Large Dams](#), Chara brings unparalleled expertise to the discussion with the host, [Ilias Papailiopoulos](#), delving into the world of large dams. Chara shares her insights on:

- The critical importance of large dams in modern infrastructure
- The intricate technical characteristics that make these structures marvels of engineering
- The significant environmental impact and the measures taken to mitigate it

\*\*Listen Now:\*\* <https://lnkd.in/d/aeq7nXu>

# ΔΙΑΚΡΙΣΕΙΣ ΕΛΛΗΝΩΝ ΓΕΩΤΕΧΝΙΚΩΝ ΜΗΧΑΝΙΚΩΝ

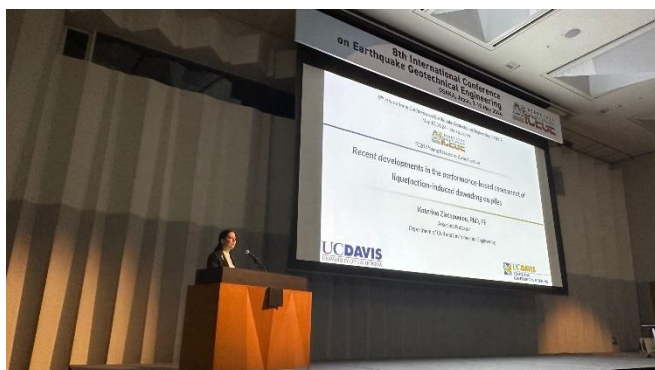


## Κατερίνα Ζιωτοπούλου ISSMGE TC203 Young Researcher Award

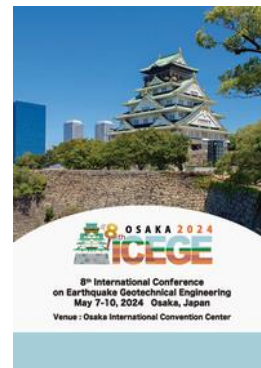
Congratulations to our colleague, [Katerina Ziotopoulou, PhD, PE](#), for receiving the ISSMGE TC203 Young Researcher Award and delivering an awesome award lecture earlier today at the 8th International Conference on Earthquake Geotechnical Engineering (8ICEGE) in Osaka, Japan! Her talk on "Performance-based assessment of liquefaction-induced downdrag on piles" was a great example of combining centrifuge modeling with numerical analyses to advance design procedures. The TC203 Young Researcher Award was established in 2012 to recognise early-career scientists and engineers (not exceeding the age of 40) who have exceptional promise for excellence in research and significant contributions in the field of Geotechnical Earthquake Engineering. Congratulations Katerina!



Κατερίνα Ζιωτοπούλου και Γιάννης Αναστασόπουλος



Η Κατερίνα Ζιωτοπούλου κατά την παρουσίαση της διάλεξης  
UC Davis Center for Geotechnical Modeling



## 8th International Conference on Earthquake Geotechnical Engineering (8 ICEGE)

### Οι Γιάννης Αναστασόπουλος, Σταυρούλα Κοντοέ και Γιώργος Κουρετζής Keynote Lecturers

Στο πρόσφατο συνέδριο της TC203 (8icege) στην Οσάκα, η Ελληνική παρουσία ήταν ιδιαίτερα ισχυρή! Όπως αναφέρθηκε προηγουμένως, τιμήθηκε η Κατερίνα Ζιωτοπούλου με το βραβείο της TC203 Young Researcher Award, ενώ τρεις από τους οκτώ Keynote Lecturers ήταν Έλληνες! Ο σύνδεσμος του συνεδρίου είναι:  
<https://confit.atlas.jp/guide/event/icege8/static/Program>



Γιώργος Κουρετζής, Κατερίνα Ζιωτοπούλου, Γιάννης Αναστασόπουλος και Σταυρούλα Κοντοέ

[Ioannis Anastasopoulos](#) ETH Zürich, Switzerland  
"Nonlinear soil-structure interaction of bridge pile groups: from experiments to analysis and back to reality"

[Stavroula Kontoe](#) University of Patras, Greece

"Seismic response of offshore foundations with emphasis in liquefiable ground conditions"

[George Kouretzis](#) The University of Newcastle, Australia

"Response of steel pipes buried in compacted fills to seismic fault rupture"



# ΘΕΣΕΙΣ ΓΙΑ ΓΕΩΤΕΧΝΙΚΟΥΣ ΜΗΧΑΝΙΚΟΥΣ



## Industrial PhD position Stability Assessment of In Situ Railway Embankments

<https://candidate.hr-manager.net/ApplicationInit.aspx?cid=179&ProjectId=193267&DepartmentId=22335&MediaId=5&IsAdPreviewRequest=true&AdvertisementId=151239>

**Do you want to contribute to the green transition? Sustainable and resilient railways are part of the answer. You can obtain a PhD from the Technical University of Denmark (DTU) while working for Banedanmark - the Danish Railway company. We offer a PhD position in collaboration with DTU Sustain and Banedanmark that aims to bring us a step closer to building the future of railway: resilient and sustainable.**

### Description

The objective of this project is to develop new procedures that would optimize assessment of existing railway embankments and design of new ones, reducing construction and maintenance costs thereby advancing the competitiveness of rail as a transportation means. This effort will be directed towards the quantification and identification of uncertainties that are introduced in current design practices, while developing efficient and simple design analysis tools for geotechnical stability assessment. The implementation and validation of a probabilistic approach in the design of embankments, is expected to improve sustainability indicators in railways. The PhD candidate will use the research infrastructure of Banedanmark and DTU Sustain and receive support from industry experts. Academic supervision will be given by Associate Professors Varvara Zania, Irene Rocchi and Yuepeng Dong from DTU's Section for Geotechnics and Geology.

**Main place of work:** Banedanmark, Carsten Niebuhrs Gade 43 1577 København V.

**Secondary place of work:** DTU Sustain Section for Geotechnics and Geology, DTU Lyngby Campus Building 119.

**Candidate profile:** We are looking for a curious, creative, friendly, ambitious, and hard-working candidate with some experience in geotechnical engineering and numerical modelling and/or slope stability and probabilistic methods. The candidate must be self-driven, capable of working indepen-

dently and in teams, and possess excellent communication skills in English.

**Required qualifications:** The candidate must hold an MSc degree in Civil Engineering or Mechanical Engineering.

**Preferred qualifications:** (i) background in working with finite element modelling for geotechnical problems; (ii) background in slope stability assessment; (iii) experience within railway engineering; (iv) pedagogical skills; and (v) previous industry/work experience.

**Enrolment approval:** the candidate will be subjected to academic approval by DTU; please refer to DTU's rules for the PhD education.

### We offer

DTU is a leading technical university globally recognized for the excellence of its research, education, innovation and scientific advice. We offer a rewarding and challenging job in an international environment. We strive for academic excellence in an environment characterized by collegial respect and academic freedom tempered by responsibility.

Banedanmark is a governmental body under the Ministry of Transport. We keep the trains on track 24 hours a day, all year round. Together, we work to develop, manage and operate 3,500 km of railway, so that 180 million travellers can reach their destination safely each year. We offer a workplace filled with dedicated people with different skills, nationalities and backgrounds who collaborate across the board with an informal tone, strong collegiality and a common identity linked to the railway and public transport.

### Salary and appointment terms

The salary for the PhD position will be based on the collective agreement with the Danish Confederation of Professional Associations. The allowance will be agreed upon with the relevant union. The period of employment is three (3) years. The preferred starting date is September 1 (2024) or soon thereafter.

### Further information:

**DTU:** Varvara Zania ([vaza@dtu.dk](mailto:vaza@dtu.dk))

**Banedanmark:** Thomas Vejrup ([tvrrp@bane.dk](mailto:tvrrp@bane.dk))

You can read more about the department at <https://sustain.dtu.dk/en/> and <https://uk.bane.dk/>

If you are applying from abroad, you may find useful information on working in Denmark and at DTU at "DTU - Moving to Denmark". Furthermore, you have the option of joining our monthly free seminar "PhD relocation to Denmark and startup" Zoom seminar for all questions regarding the practical matters of moving to Denmark and working as a PhD at DTU.

### Application

Please send a single PDF file containing (in English) all relevant information and documentation; this file must include: (i) a cover letter; (ii) curriculum vitae; (iii) BSc and MSc diplomas with full grade transcripts and an official description of the grading scale; (iv) at least one reference letter; and (v) one authored (or co-authored) scientific manuscript, e.g., journal article, conference paper, or MSc thesis.

**All interested candidates are encouraged to apply, irrespective of age, gender, disability, race, religion, or ethnic background.**

# ΠΡΟΣΕΧΕΙΣ ΓΕΩΤΕΧΝΙΚΕΣ ΕΚΔΗΛΩΣΕΙΣ

Για τις παλαιότερες καταχωρήσεις περισσότερες πληροφορίες μπορούν να αναζητηθούν στα προηγούμενα τεύχη του «περιοδικού» και στις παρατιθέμενες ιστοσελίδες.

IS-Macau 2024 11<sup>th</sup> International Symposium of Geotechnical Aspects of Underground Construction in Soft Ground, June 14-17, 2024, Macao SAR, China, <https://is-macau2024.skli-otsc.um.edu.mo>

ISC'7 7<sup>th</sup> International Conference on Geotechnical and Geophysical Site Characterization "Ground models, from big data to engineering judgement", June 18-21, 2024, Barcelona, Spain, <https://isc7.cimne.com>



**25-27 June 2024, Barcelona, Spain**

[www.geosyntheticssociety.org/igs-technical-workshop-barcelona-2024](http://www.geosyntheticssociety.org/igs-technical-workshop-barcelona-2024)

## Program

- Geosynthetic materials and soil interaction
- Numerical modelling approaches
- Design guidelines and methods
- Case Histories-1
- Case Histories-2: Bridge abutment applications
- Climate impact and Sustainability aspects



28th European Young Geotechnical Engineers Conference 2024, 25 to 29 June 2024, Demir Kapija, North Macedonia, <https://eygec2024.net>

WCEE2024 18<sup>th</sup> World Conference on Earthquake Engineering, June 30 - July 5, 2024, Milan, Italy, [www.wcee2024.it](http://www.wcee2024.it)

WCEE2024 18<sup>th</sup> World Conference on Earthquake Engineering, June 30 - July 5, 2024, Milan, Italy, [www.wcee2024.it](http://www.wcee2024.it) / Session SHR-7: When science meets industry: advances in engineering seismology stemming from engineering practice, [olga.ktenidou@gmail.com](mailto:olga.ktenidou@gmail.com)

3<sup>rd</sup> ICPE 2024 Third International Conference on Press-in Engineering, 3-5 July 2024, Singapore, <https://2024.icpe-ija.org>

EGRWSE-2024 5<sup>th</sup> International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering, July 4-6<sup>th</sup>, Warsaw, Poland, <https://iil.sqgw.edu.pl/egrwse-2024>

ICEC2024 SECOND INTERNATIONAL CONFERENCE ON EARTHEN CONSTRUCTION, 8-10 July 2024, Edinburgh, United Kingdom, <https://icec2024.eng.ed.ac.uk>, <https://icec2024.sciencesconf.org>

IS Landslides 2024 International Symposium on Landslides "Landslides across the scales: from the fundamentals to engineering applications" & IS Rock Slope Stability 2024, July 8-12<sup>th</sup>, 2024, Chambéry, France, [www.isl2024.com](http://www.isl2024.com)

EUROCK 2024 ISRM European Rock Mechanics Symposium New challenges in rock mechanics and rock engineering July 15-19, 2024, Alicante, Spain, [www.eurock2024.com](http://www.eurock2024.com)

5<sup>th</sup> ICITG 5th International Conference on Information Technology in Geo-Engineering, August 5-8, 2024, Golden, Colorado, USA, <https://learn.mines.edu/ICITG>

S3: Slopes, Support and Stabilization, August 6-8, 2024, Aurora, Colorado, USA, <https://s3.amazonaws.com/xcd-shared/dfi/Media/S324/2024-S3-CFA-20230807.pdf>

ECSMGE 24 XVIII European Conference on Soil Mechanics and Geotechnical Engineering, 26-30 August 2024, Lisbon, Portugal, [www.ecsmge-2024.com](http://www.ecsmge-2024.com)

4<sup>o</sup> Συνέδριο Φραγμάτων και Ταμιευτήρων, 10 και 11 Σεπτεμβρίου 2024, Αθήνα, [www.qcold-conference.gr](http://www.qcold-conference.gr)

ISIC 2024 4th International Conference of International Society for Intelligent Construction, 10 - 12 September 2024, Orlando, United States, [www.is-ic.org/conferences/2024-isic-international-conference](http://www.is-ic.org/conferences/2024-isic-international-conference)

International Symposium on Dams and Earthquakes, 7<sup>th</sup> Meeting of the EWG, 12 -13 September 2024, Athens, Greece, [link](#).

GROUND ENGINEERING SUSTAINABILITY, 18 September 2024, London, United Kingdom, <https://sustainability.qeplus.co.uk/sustainability2024/en/page/home>

NGM 2024 19<sup>th</sup> Nordic Geotechnical Meeting, 18<sup>th</sup> - 20<sup>th</sup> of September 2024, Göteborg, Sweden, [www.ngm2024.se](http://www.ngm2024.se)

ISRM International Symposium 2024 and 13th Asian Rock Mechanics Symposium (ARMS13), 22 to 27 September 2024, New Delhi, India, <https://arms2024.org>

IS-Grenoble 2024 Geomechanics from Micro to Macro, September 23-27, 2024, Grenoble, France, <https://is-grenoble2024.sciencesconf.org>

International Symposium on Dams and Earthquakes, 7<sup>th</sup> Meeting of EWG, September 25-27, 2024, Athens, [www.eemf.gr](http://www.eemf.gr)

92<sup>nd</sup> ICOLD Annual Meeting & International Symposium on Dams for People, Water, Environment and Development, 29<sup>th</sup> September - 3<sup>rd</sup> October, 2024, New Delhi, India, [www.icold2024.org](http://www.icold2024.org)

5th European Conference on Physical Modelling In Geotechnics, 02 to 04 October 2024, Delft, Netherlands, <https://tc104-issmge.com/ecpmg-2024>

XVIII African Regional Conference on Soil Mechanics and Geotechnical Engineering, 06 ÷ 09 October 2024, Algiers, Algeria, <https://algeos-dz.com/18ARC.html>

Beyond a Tunnel Vision, October 16th, 2024, Antwerp, Belgium, <https://beyondatunnelvision.eu>

RMCC2023 1<sup>st</sup> International Rock Mass Classification Conference "Rock Mass Classification meets the Challenges of the 21<sup>st</sup> Century", 30-31 October 2024, Oslo, Norway, [www.rmcc2024.com](http://www.rmcc2024.com)

PANAMGEO CHILE 2024 17<sup>th</sup> Pan-American Conference on Soil Mechanics and Geotechnical Engineering, 12-17 November 2024, La Serena, Chile, <https://panamge-ochile2024.cl>

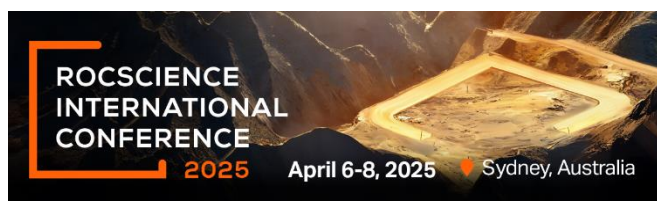
CouFrac 2024 The 4th International Conference on Coupled Processes in Fractured Geological Media: Observation, Modelling, and Application, November 13-15, 2024, Kyoto, Japan, <https://www.ec-convention.com/coufrac2024/>

3ο Διεθνές Συνέδριο Αρχαίας Ελληνικής και Βυζαντινής Τεχνολογία, 19-20-21 Νοεμβρίου 2024, Αθήνα, [www.edabyt.gr](http://www.edabyt.gr)

ICTG 2024 5th International Conference on Transportation Geotechnics 2024 "Sustainable and Evolving Technologies for Urban Transport Infrastructure", 20 - 22 November 2024, Sydney, Australia [www.ictg2024.com.au](http://www.ictg2024.com.au)

ICOMOS TheoPhilos ISC Conference Authenticity from a European Perspective: 30 Years of the Nara Document on Authenticity November 28-29, 2024, Thessaloniki, Greece, <https://theophilos.icomos.org>

Geotechnics for Sustainable Infrastructure, 28-29 November 2024, Kathmandu, Nepal, <https://geomandu.ngeotechs.org>



[www.rocscience.com/events/rocscience-international-conference-2025](http://www.rocscience.com/events/rocscience-international-conference-2025)

Rocscience is pleased to invite geotechnical industry academics and practitioners to participate in the third Rocscience International Conference (2025). The conference, which will take place in Sydney on April 6-8, 2025, is themed "Beyond the Surface: Uncovering the Challenges of Geotechnical Engineering". Our objective is to analyze and discuss recent developments in geotechnical engineering and explore emerging innovations, such as imaging technologies and AI, that are revolutionizing the field. Join us for this opportunity to deepen our understanding and drive forward the practice of geotechnical engineering.

#### Areas of Interest

The following categories and sub-themes are provided as a guide to prospective conference participants:

#### General Topics

- Rock mass characterization
- Soil properties and characterization
- Discrete fracture networks modelling and application
- Hydrogeology in mining and civil geotechnical engineering
- Coupled thermo-hydro-mechanical modelling

- In-situ stress measurement and estimation
- Rock mechanics advances in constitutive and numerical modelling
- Probabilistic and reliability methods
- Recent innovations in laboratory and field testing
- Advances in imaging and other emerging technologies
- Advances in 3D excavation modelling
- Applications of artificial intelligence and machine learning in geotechnical engineering

#### Mining

- Stability modelling of underground mine excavations
- Open pit stability analysis
- Stability analysis of tailings storage facilities and embankments
- Ground support innovations in mining
- Latest technologies in rock blasting and fragmentation
- Rock mass and excavation response to seismic events and dynamic stimulations
- Seismic and micro-seismic monitoring

#### Civil

- Soil mechanics
- Soil improvement techniques
- Civil rock mechanics
- Soil-structure interactions
- Slope stability, dams and embankments
- Recent advances in mechanically stabilized and reinforced wall analysis and design
- Shallow and deep foundation analysis and design
- Tunnelling
- Liquefaction analysis

For any enquiries regarding the program, please contact [reginald.hammah@rocscience.com](mailto:reginald.hammah@rocscience.com)

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GEOTECHNICS REIMAGINED, May 21-23, 2015, Bruges, Belgium, <https://dfi-events.org/dfi-efrc25>



ISFOF 2025 5th International Symposium on Frontiers in Off-shore Geotechnics, June 9-13, 2025, Nantes, France, <https://isfoq2025.univ-gustave-eiffel.fr>

World Tunnel Congress 2025 "Tunnelling into a sustainable future – methods and technologies", 9-15 May 2025, Stockholm, Sweden, [www.wtc2025.se](http://www.wtc2025.se)

EUROCK 2025 - ISRM European Rock Mechanics Symposium  
Expanding the underground space - future development of  
the subsurface - an ISRM Regional Symposium, 16-20 June  
2025, Trondheim, Norway, <https://eurock2025.com>



<https://gee2025.sciencesconf.org>

#### **GEE2025: CHARTING THE PATH TOWARD THE FUTURE**

The Conference Geotechnical Engineering Education 2025 (GEE2025) is organized by the Technical Committee [TC306](#) for Geo-Engineering Education of the International Society for Soil Mechanics and Geotechnical Engineering ([ISSMGE](#)), under the auspices of the Ecole Nationale Supérieure de Géologie [ENSG](#) of the [Université de Lorraine](#) – France.

The International Conferences on Geotechnical Engineering Education are now well established since TC306 took over their organization under the auspices of ISSMGE. The conference in Nancy will be the sixth, after Sinaia, Romania (2000), Constantza, Romania (2008), Galway, Ireland (2012), Belo Horizonte, Brazil (2016) and Athens, Greece (2020). The proceedings of the 2008, 2012, 2016 and 2020 conferences are available through the [Online Library of ISSMGE](#).

The Conference GEE2025 has five themes and two priority themes:

#### **Theme 1 – Curricula: Undergraduate, (Post)Graduate, Doctoral**

The description of specific geotechnical modules, courses, programs at any level is in essence a case study in education.

#### **Theme 2 – Coursework: Laboratory, Field, Project-based, Numerical Methods**

The description of how we organize any type of coursework is also a case study in education.

#### **Theme 3 – Open Resource Educational Material**

This theme deals with Transferable Educational Material or Reusable Objects (these two terms are used as synonyms) that are developed to be sharable.

#### **Theme 4 – Applications of ICT Tools**

Applications of Information and Communication Technologies (ICT) to geotechnical engineering instruction: for papers with significant emphasis on the technology that do not qualify for Theme 3.

#### **Theme 5 – Links to Research on Learning and on Engineering Education**

Evidence-based instructional interventions, Scholarship of Teaching and Learning (action-based research, where professors investigate the learning in their own classrooms in a scholarly fashion), applications of learning theories to the teaching of geotechnical engineering concepts.

#### **Priority Theme 1 – Teaching of Unsaturated soils**

GEE 2025 invites papers targeting non-specialist soil mechanics instructors who would be interested in presenting in their introductory geotechnical courses some elements of unsaturated soil mechanics, provided they are aware of the main issues and they understand them well. Papers on teaching unsaturated soils as specialty undergraduate courses are also of interest.

#### **Priority Theme 2 – Use of numerical modelling to support teaching**

GEE 2025 invites papers showing with examples what numerical modeling can offer to geotechnical engineering education and in particular for the production of educational materials suitable for introductory soils courses. Papers on teaching numerical methods for geotechnical courses as specialty undergraduate courses are also of interest.



**21st International Conference on  
Soil Mechanics and Geotechnical Engineering  
Geotechnical Challenges in a  
Changing Environment**  
14 – 19 June 2026, Vienna, Austria  
[www.icsmge2026.org/en](http://www.icsmge2026.org/en)

1925 Karl Terzaghi published the book „Erdbaumechanik auf bodenphysikalischer Grundlage“ in Vienna which is widely regarded as the birth of modern soil mechanics. The **Austrian Geotechnical Society** and the **Austrian Society for Geomechanics** are proud to jointly celebrate the 100<sup>th</sup> anniversary of this milestone in geotechnical engineering. 1929 the first Institute and Laboratory for Soil Mechanics was established at the TU Wien. „Where it all began“ is therefore the slogan of the 21<sup>st</sup> International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE) to be held in Vienna in June 2026. It will be an in-person event because I strongly believe that personal communication and networking is a key component of an international conference. Leading experts in the field have agreed to deliver state-of-the art lectures and for the first time in this series of conferences a plenary session will be organized by the European Federation of Foundation Contractors (EFFC), providing the industry with the opportunity to present their efforts in battling climate change and reducing CO<sub>2</sub>-footprint of construction industry. I can assure that the organising committee will do everything to make this conference a memorable event, in both, scientific and social aspects and I invite you to come to the beautiful city of Vienna, in the heart of Europe.



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**AGS** Austrian Geotechnical Society  
c/o Österreichischer Ingenieur- und Architektenverein  
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A-1010 Vienna  
Austria



ISFMG 2026 12th International Symposium on Field Monitoring in Geomechanics, August 2026, Indian Institute of Technology Indore, India,  
<https://sites.google.com/view/isfm2026/home>



## Eurock 2026

**Risk Management in Rock Engineering -  
an ISRM Regional Symposium  
14-19 June 2026, Skopje, Republic North Macedonia**

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**16th International Congress on Rock Mechanics  
Rock Mechanics and Rock Engineering  
Across the Borders  
17-23 October 2027, Seoul, Korea**

### Scope

The scope of the Congress will cover both conventional and emerging topics in broadly-defined rock mechanics and rock engineering. The themes of the Congress include but not be limited to the following areas:

- Fundamental rock mechanics

- Laboratory and field testing and physical modeling of rock mass
- Analytical and numerical methods in rock mechanics and rock engineering
- Underground excavations in civil and mining engineering
- Slope stability for rock engineering
- Rock mechanics for environmental impact
- Sustainable development for energy and mineral resources
- Petroleum geomechanics
- Rock dynamics
- Coupled processes in rock mass
- Underground storage for petroleum, gas, CO2 and radioactive waste
- Rock mechanics for renewable energy resources
- Geomechanics for sustainable development of energy and mineral resources
- New frontiers & innovations of rock mechanics
- Artificial Intelligence, IoT, Big data and Mobile (AICBM) applications in rock mechanics
- Smart Mining and Digital Oil field for rock mechanics
- Rock Engineering as an appropriate technology
- Geomechanics and Rock Engineering for Official Development Assistance (ODA) program
- Rock mechanics as an interdisciplinary science and engineering
- Future of rock mechanics and geomechanics

Our motto for the congress is "Rock Mechanics and Rock Engineering Across the Borders". This logo embodies the interdisciplinary nature of rock mechanics and challenges of ISRM across all countries and generations.

## A highway collapse in China kills 36 people and sends more than 20 cars down a steep slope



In this photo released by Xinhua News Agency, an aerial photo shows rescuers work at the site of a collapsed road section of the Meizhou-Dabu Expressway in Meizhou, south China's Guangdong Province, Wednesday, May 1, 2024. A section of a highway collapsed early Wednesday in southern China leaving more than a dozen of people dead, local officials said, after the area had experienced heavy rain in recent days. (Xinhua News Agency via AP)

BEIJING (AP) — A section of a highway collapsed after heavy rains in a mountainous area in southern China, sending cars tumbling down a slope and leaving at least 36 people dead, authorities said Thursday.

The Meizhou city government said that 23 vehicles have been found after a 17.9-meter (58.7-foot) long section of the highway gave way about 2 a.m. on Wednesday. Thirty other people had injuries, none of them life-threatening, a government statement said.

The search effort was complicated by steady rain, gravel and soil coming down at the site, posing some risk to the workers, a fire department official told Chinese media.

Rescue teams divided the area into 10 grids and searched with dogs and life-detecting devices, the report said. Excavators and cranes were also brought in to help.

The collapse left a barren scar down a steep slope in an otherwise verdant green forested area. Witnesses told local media they heard a loud noise and saw a wide hole open up behind them after driving past the section just before it collapsed.

Video and photos in local media showed smoke and fire at the scene, with a highway guardrail leaning down into the flames. A pile of blackened cars could be seen on the slope leading down from the highway.

A photo later showed a construction crane lowering a mangled car to the road surface, near three other similarly wrecked vehicles. All appeared to have been burned out.

Over 56 centimeters (22 inches) of rain has fallen in the past four weeks in the county where the roadway collapsed, more than four times as much as last year. Some villages in Mei-

zhou flooded in early April, and the city had seen heavy rain in recent days.

Parts of Guangdong province have seen [record rains and flooding](#) in the past two weeks, as well as hail. A [tornado killed five people](#) in Guangzhou, the provincial capital, last weekend.

Heavy rain and flooding pose a special risk to mountain roadways and highway bridges because of erosion, debris flows and landslides. China has massively expanded its infrastructure in recent years, adding more than 1 million highway bridges, the world's largest network of high speed trains and scores of new airports.

In the rush to build, flaws in design and construction methods have frequently come to light, while regular inspections and maintenance are sometimes given short shrift. Dozens have died in recent years in tunnel collapses and floods, including 14 who drowned in subway trains in the central city of Zhengzhou during massive flooding that killed around 300 people.

Subsequent reports said the system had not been prevented with adequate and other equipment and that officials failed to suspend service as they should have under government directives.

China's overseas projects such as roads and dams under the Belt and Road Initiative have also been criticized for design problems and poor quality, potentially posing a challenge to its efforts to build its influence in the developing world.

(Associated Press, May 2, 2024, <https://apnews.com/article/china-guangdong-highway-collapse-59a28381cdff792c2ccd2861ea7ef5bf>)



## CSCEC-built spiral tunnel officially recognised as world's longest



The Hankou Tunnel, part of the Xinxiang-Jincheng Expressway, in the Taihang Mountains (Image courtesy of CSCEC)

A spiral tunnel in China, built by Chinese construction giant China State Construction (CSCEC), has been recognised as the world's longest.

Guinness World Records has issued a certificate to confirm the status of the Hankou Tunnel on the Xinxiang-Jincheng Expressway, which is 4,457m in length, as the longest spiral road tunnel section in the world.

The Xinxiang-Jincheng Expressway spans 69.8km connecting the provinces of Henan and Shanxi via the Taihang Mountains.

The expressway's spiral tunnel system consists of nine tunnels that wind through the mountain range, with a total length of 28km.

The Hanko Tunnel ranges in altitude from 784m to 893m, with a maximum elevation difference between the tunnel entrance and exit of 109m, and has a minimum radius of 70m.

CSCEC used BIM for the project, as well as identification codes for materials at the construction site to minimise losses. It also employed IoT sensors throughout the construction site to collect real-time data on ground settlement, arch subsidence and other measurements.

The expressway opened in 2022.

(Neil Gerrard Senior Editor / Construction Briefing, 24 May 2024, <https://www.constructionbriefing.com/news/cscec-built-spiral-tunnel-officially-recognised-as-world-s-longest/8037435.article>)

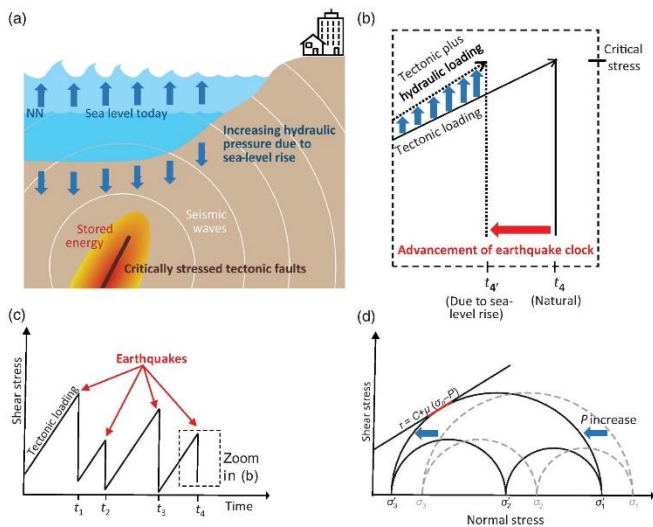
# ΕΝΔΙΑΦΕΡΟΝΤΑ - ΣΕΙΣΜΟΙ & ΑΝΤΙΣΕΙΣΜΙΚΗ ΜΗΧΑΝΙΚΗ

**What's the relationship between global warming and earthquakes?**

## **Global Warming Will Increase Earthquake Hazards through Rising Sea Levels and Cascading Effects**

**Marco Bohnhoff; Patricia Martínez-Garzón; Yehuda Ben-Zion**

Greenhouse gas emissions causing global warming result in a rising Global Mean Sea Level (GMSL) (Oppenheimer *et al.*, 2019). This accelerating process has already started and has so far evolved from 1.4 mm/yr over the period 1901–1990 to 2.1 mm/yr (1970–2015), 3.2 mm/yr (1993–2015), and up to 3.6 mm/yr (2006–2015). The sum of glacier and ice sheet contributions is now the dominant source of GMSL rise with very high confidence and the dominant cause since 1970 is anthropogenic (Oppenheimer *et al.*, 2019). There is still some uncertainty about the full volume of glaciers and...



Seismological Research Letters (2024), <https://doi.org/10.1785/0220240100>

Editorial| May 29, 2024 Early Publication, <https://pubs.geoscienceworld.org/ssa/srl/article-abstract/doi/10.1785/0220240100/644474/Global-Warming-Will-Increase-Earthquake-Hazards>





## GEO-TRENDS REVIEW

Issue #27 - May 2024

[www.mygeoworld.com/geotrends/issues/27-may-2024](http://www.mygeoworld.com/geotrends/issues/27-may-2024)

**ISSMGE Bulletin Vol 18, Issue 1, March 2024**

[ISSMGE news](#), 21 Mar 2024, [Read More](#)

**A few days to close the poll on Slope Stability Software**

[DCOdes news](#) 24 Apr 2024

What software do you use for slope stability analysis? Vote for your favorite method by May 31st! [Participate](#)

**Soil Mechanics: Soil Consolidation: GEOtExcel**

[Ahmad Fahmi resource](#) 16 Apr 2024

Geotechnical Excel Spreadsheets (GEOtExcel) Consolidation, Single drainage, Double Drainage... [Read More](#)

**Strongest earthquake in 25 years rattles Taiwan**

[Geoengineer.org news](#) 04 Apr 2024 [Read More](#)

**3rd ISSMGE TC222 digital workshop recording published**

[ISSMGE TC222](#) 12 Apr 2024 [Read More](#)

**Numerical Modelling: The Mohr-Coulomb Model**

[Geoengineer.org education](#) 16 Apr 2024

The Mohr-Coulomb, or Linear-Elastic Perfectly-Plastic model, is the second simplest constitutive material model that one can use. [Read More](#)

**Online ground improvement presentation on "Soil-Bentonite Slurry Trench Wall Lateral Deformation, Consolidation, and State-of-Stress"**

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**Kinematic Response of a Gravity Retaining Wall in the Cephalonia, Greece, 2014 Earthquakes**

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**Revealing the fractured ice of Antarctica's "Doomsday Glacier"**

[Seequent, The Bentley Subsurface Company resource](#) 18 Apr 2024

Dr Jamin Greenbaum and his team use Oasis montaj for their work and research (Image: Seequent) Dr Jamin Greenbaum and the team are working at the front line of climate change on the coldest con... [Read More](#)

**Comparative Study of Embedded Wall Displacements Using Small-Strain Hardening Soil Model**

[Rocscience resource](#) 20 May 2024

Traditional analysis methods often fall short in addressing complex soil-structure interactions and non-linear soil behavior, but new research by Tzuri Eilat, Amichai Mitelman, Alison McQuillan an... [Read More](#)

**GSI's cutting-edge landslide repair & remediation methods**

[GeoStabilization International news](#) 02 May 2024

After a rain-triggered slope failure in California, our team executed a design/build solution, reconstructing the lost roadway and shoulder using micropile-supported soil nails and shotcrete. [Read More](#)

**Video captures the moment a landslide is triggered by blasting in Bosnia and Herzegovina**

[Geoengineer.org news](#) 10 Apr 2024 [Read More](#)

**Celebrating one year of DCOdes!**

[DCOdes news](#) 06 Mar 2024

In honor of our anniversary, check out the most popular free software on our website over the past year! [Read More](#)

**Different Types of Weathering**

[Organization of Physical Geography resource](#) 19 Feb 2024

Weathering is the process by which rocks and minerals on the Earth's surface break down into smaller particles over time. There are two main types of weathering: mechanical (physical) weathering a... [Read More](#)

**ISSMGE Interactive Technical Talk Episode 15: Off-shore Geotechnics (TC209)**

[ISSMGE TC209](#) 20 Mar 2024 [Read More](#)

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**Unearthing Vital Foundations: The Importance of Soil Investigations in the Construction Industry**

[Prabhakar Bangaru resource](#) 09 May 2024

In the bustling world of construction, where towering skyscrapers and intricate infrastructure shape our urban landscapes, there lies a fundamental element often overlooked - soil. Beneath our feet, t... [Read More](#)

**Influence the Geotechnical Confidence Index Results for 2024 Q2!**

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**Top US places to work in Geotechnical Engineering in 2023**

[CEEcareers news](#) 06 Mar 2024  
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**Rockfall caught on video hitting trucks in Peru**

[Geoengineer.org news](#) 06 Mar 2024  
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## ISSMGE Interactive Technical Talk Episode 16: Geotechnical Aspects of Dykes and Levees and Shore Protection (TC201)

ISSMGE news 29 Mar 2024

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## UNICEF - LES MILLS "Workout for Water Challenge"

Colin Nigel Winsor news 29 Mar 2024

[Read More](#)

## A New Method of Treatment Swelling Soil Using Cement Kiln Dust

Mohammed Kadum Fakhraldin resource 28 Feb 2024

ABSTRACT: Expansive soils are found in many regions around the world, including Iraq. Expansive soils change in volume (swell or shrink) with a change in moisture content. This paper presents a method... [Read More](#)

## NCE Tunnelling Conference - Debate discussion, 2023

ISSMGE news 27 Mar 2024

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## Geotechnical investigation for Access Road using DCPT, Auger boring and Trial pit

EMINAD NIGERIA LIMITED Omoyoloye news 24 Feb 2024

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## BGA Half-day Mini-Symposium on Observational Method

ISSMGE 25 Mar 2024

British Geotechnical Association Event: Half-day Mini-Symposium on Observational Method (6th February 2024, London, UK) The Observational Method (OM) in ground engineer... [Read More](#)



## International Journal of Geotechnical Engineering Case Histories

01 May 2024

The time to find out the most popular publication for 2023 is here! #1 most popular paper for 2023, with 3,031 downloads:

### The July 10 2000 Payatas Landfill Slope Failure

Jafari, N. H., Stark, T. D., and Merry, S.

Abstract

This paper presents an investigation of the slope failure in the Payatas landfill in Quezon City, Philippines. This failure, which killed at least 330 persons, occurred July 10th 2000 after two weeks of heavy rain from two typhoons. Slope stability analyses indicate that the raised leachate level, existence of landfill gas created by natural aerobic and anaerobic degradation, and a significantly over-steepened slope contributed to the slope failure. The Hydrologic Evaluation of Landfill Performance (HELP) model was used to predict the location of the leachate level in the waste at the time of the

slope failure for analysis purposes. This paper presents a description of the geological and environmental conditions, identification of the critical failure surface, and slope stability analyses to better understand the failure and present recommendations for other landfills in tropical areas. In addition, this case history is used to evaluate uncertainty in parameters used in back-analysis of a landfill slope failure.

[https://www.geocasehistoriesjournal.org/pub/article/view/IJGCH\\_2\\_3\\_3](https://www.geocasehistoriesjournal.org/pub/article/view/IJGCH_2_3_3)



INTERNATIONAL  
GEOSYNTHETICS  
SOCIETY

## IGS NEWSLETTER – May 2024

Κυκλοφόρησε το IGS Newsletter της International Geosynthetic Society με τα ακόλουθα περιεχόμενα:

*Helping the world understand the appropriate value and use of geosynthetics*

[www.geosyntheticssociety.org/newsletters](http://www.geosyntheticssociety.org/newsletters)

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[www.nxtbook.com/dfi/DEEP-FOUNDATIONS/may-june-2024](http://www.nxtbook.com/dfi/DEEP-FOUNDATIONS/may-june-2024)

Κυκλοφόρησε το Deep Foundations Magazine του Deep Foundations Institute Μαΐου / Ιουνίου με τα ακόλουθα περιεχόμενα:

[Cover Story: Anchored Wall Advantages Along I-95](#)

[Rapid Response of Emergency Landslide Failures in Kentucky](#)

[Stabilizing a Railroad Embankment in the Blue Ridge Mountains](#)

[Repurposing Existing Features for New Support of Excavation System](#)

[Guest Editorial: The Present and Future of Landslide Stabilization With Deep Foundations and Ground Anchors](#)

[Member Profile: For Chatherine Chauder Safety Equals Collaboration, Vision and Leadership](#)

[Women in Deep Foundations Committee Column: Burnout Noticed: A Modern Workforce Problem](#)

[Foundations for a Sustainable Future: Deep Foundations as Carbon Sequestration](#)

[Risk Corner: Ensuring Price Certainty: A Team Effort](#)

## ΕΚΤΕΛΕΣΤΙΚΗ ΕΠΙΤΡΟΠΗ ΕΕΕΕΓΜ (2023 – 2026)

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