



**CSEE**  
CONGRESS

**PROCEEDINGS OF THE 9TH WORLD  
CONGRESS ON CIVIL, STRUCTURAL, AND  
ENVIRONMENTAL ENGINEERING (CSEE'24)**

**APRIL 14 - 16, 2024 | IMPERIAL COLLEGE LONDON CONFERENCE CENTER,  
LONDON, UNITED KINGDOM**

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# WELCOME MESSAGE FROM THE CONFERENCE CHAIR

**On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 9<sup>th</sup> World Congress on Civil, Structural, and Environmental Engineering (CSEE 2024).**

CSEE is aimed to become one of the leading international annual congresses in the fields of civil, structural, and environmental engineering. This congress will provide excellent opportunities to scientists, researchers, industrial experts, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

In the ninth meeting of this Congress, three Plenary speakers and five keynote speakers will share their expertise in a wide spectrum of fields and applications. In addition, approximately 104 papers will be presented by professors, students, and researchers from across the world.

We thank you for your participation and contribution to the 9<sup>th</sup> World Congress on Civil, Structural, and Environmental Engineering (CSEE 2024). We wish you a very successful and enjoyable experience.

**Dr. Hany El Naggar**

*Congress Chair and Proceedings Editor  
CSEE 2024*

**Dr. Joaquim Barros**

*Congress Co-Chair and Proceedings Editor  
CSEE 2024*

**Dr. Paulo Cachim**

*Congress local Committee Member  
CSEE 2024*

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# ABOUT CSEE'24

**CSEE is aimed to become one of the leading international annual congresses in the fields of civil, structural, and environmental engineering.** This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

There are 3 conferences included in the CSEE Congress:

**ICGRE'24** - 9th International Conference on Geotechnical Research and Engineering

**ICSECT'24** - 9th International conference on Structural Engineering and Concrete Technology

**ICEPTP'24** - 9th International Conference on Environmental Pollution, Treatment and Protection

While each conference consists of an individual and separate theme, the 3 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

**CSEE** is an acronym for **Civil, Structural, and Environmental Engineering**.

The proceedings is published in Ottawa, Canada.

All papers were peer-reviewed

The congress proceedings is published under an ISSN and ISBN number

Each paper is assigned a unique DOI number by [Crossref](#)

The conference proceedings is indexed by [Scopus](#) and [Google Scholar](#)

The proceedings is permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

[Google Scholar](#)

[Scopus](#)

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# SCIENTIFIC COMMITTEE

**We would like to thank the following for accepting to act as a member of the Scientific Committee for the CSEE'24 Congress:**

## **Scientific Committee Members for ICGRE'24**

**Dr. Anil Cherian**, Straininstall, UAE

**Dr. Johan Clausen**, Aarhus University, Denmark

**Dr. Yan-Jun Du**, Southeast University, China

**Dr. Ahmed Fahmy**, AECOM, USA

**Dr. Johann Facciorusso**, University of Florence, Italy

**Dr. Russell A. Green**, Virginia Tech, USA

**Dr. Marte Gutierrez**, Colorado School of Mines, UK

**Dr. Rajeshwar Goodary**, Université des Mascareignes, Mauritius

**Dr. Stefan Jung**, University of Applied Sciences, Germany

**Dr. Majidreza Nazem**, RMIT University, Australia

**Dr. Ondra Sracek**, Palacky University in Olomouc, Czech Republic

**Dr. Roger Tilley**, University of California Santa Cruz, USA

**Dr. Farshid Vahedifard**, Tufts University, USA

# SCIENTIFIC COMMITTEE

## Scientific Committee Members for ICSECT'24

- **Dr. Firas AL MAHMOUD**, University of Lorraine, France
- **Dr. Michele Barbato**, University of California, USA
- **Dr. Chia-Ming Chang**, National Taiwan University, Taiwan
- **Dr. Nawawi Chouw**, University of Auckland, New Zealand
- **Dr. Iman Hajirasouliha**, University of Sheffield, UK
- **Dr. Bassam A. Izzuddin**, Imperial College London, UK
- **Dr. Venkatesh Kodur**, Michigan State University, Australia
- **Dr. Jiabin Li**, Katholieke Universiteit Leuven, , Belgium
- **Dr. Beatriz Martin-Perez**, University of Ottawa, Canada
- **Dr. M. Shamim Miah**, Graz University of Technology (TU Graz), Austria
- **Dr. Behzad Nematollahi**, University of Sheffield, UK
- **Dr. Cao Hung Pham**, University of Sydney, Australia
- **Dr. Khaled Sennah**, Toronto Metropolitan University (formerly Ryerson University), Canada
- **Dr. Kejin Wang**, Iowa State University, USA

# SCIENTIFIC COMMITTEE

## Scientific Committee Members for ICEPTP'24

- **Dr. Chunjiang An**, Concordia University, Canada
- **Dr. Elena Alvareda**, University of the Republic of Uruguay, Uruguay
- **Dr. Aiduan Borrion**, University College London, UK, Italy
- **Dr. Valentina Busini**, Politecnico di Milano, Italy
- **Dr. Fatma Esen**, Uludag University, Turkey
- **Dr. Jennifer Gubitosa**, Università degli Studi di Bari Aldo Moro, Italy
- **Dr. Gordon Huang**, University of Regina, Canada
- **Dr. Mervat El-Hoz**, CEO, Environmental Engineering Consultin, Australia
- **Dr. Stuart Khan**, University of New South Wales, Australia
- **Dr. Vito Rizzi**, Università degli Studi di Bari Aldo Moro, Italy
- **Dr. Grzegorz Sierpiński**, Silesian University of Technology, Poland
- **Dr. Wai Yuen Szeto**, University of Hong Kong, Hong Kong
- **Dr. Keisuke Watanabe**, Tokai University, Japan
- **Dr. Shunde Yin**, University of Waterloo, Canada
- **Dr. Chuyang Y. Tang**, University of Hong Kong, Hong Kong

# PLENARY/KEYNOTE SPEAKERS

The Plenary/keynote information for the 9th World Congress on Civil, Structural, and Environmental Engineering (CSEE'24) is as follows:

## Plenary Speakers



[Dr. Riadh Al-Mahaidi](#)  
Swinburne University of  
Technology, Australia  
ICSECT'24 Plenary Speaker



[Dr. Stephen Foster](#)  
University of New South  
Wales, Australia  
ICSECT'24 Plenary Speaker



[Dr. William Powrie](#)  
University of Southampton, UK  
ICGRE'24 Keynote Speaker

## Keynotes Speakers



[Dr. Luiza C. Campos](#)  
University College London, UK  
ICEPTP'24 Keynote Speaker



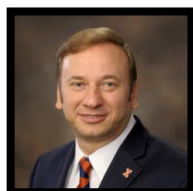
[Dr. David Connolly](#)  
University of Ottawa, Canada  
ICGRE'24 Keynote Speaker



[Dr. Po-Heng \(Henry\) Lee](#)  
Imperial College London, UK  
ICEPTP'24 Keynote Speaker



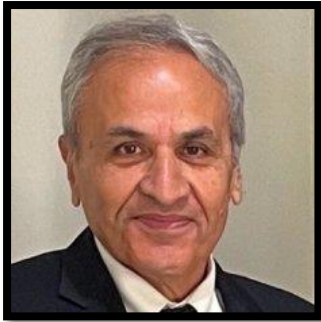
[Dr. Mohamed Meguid](#)  
McGill University, Canada  
ICGRE'24 Keynote Speaker



[Dr. Erol Tutumluer](#)  
University of Illinois at Urbana-  
Champaign (UIUC), USA  
ICGRE'24 Keynote Speaker



# ICSECT 2024 PLENARY SPEAKER



**Titles:** Enhanced Structural Safety during Extreme Events through Innovative Materials and Advanced Testing Methods  
**Dr. Riadh Al-Mahaidi, Swinburne University of Technology, Australia**

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Professor Riadh Al-Mahaidi is the Director of the Smart Structures Laboratory and a Professor of Structural Engineering at Swinburne University of Technology in Melbourne, Australia. He previously held the position of Vice President (International Engagement) at Swinburne from 2017 to 2022. Before joining Swinburne in 2010, he was the Head of the Structures Group at Monash University. He earned a BSc (Hon 1) in civil engineering from the University of Baghdad and MSc and PhD degrees in structural engineering from Cornell University in the United States. Over the past 25 years, he has focused his research and practice on the lifetime integrity of structures, with a particular interest in structural strength assessment and retrofitting using advanced composite materials. His current research projects involve strengthening bridges using fiber reinforced polymers combined with cement-based bonding agents, improving the fatigue life of metallic structures using advanced composite systems and shape memory alloys, and assessing structure collapse through multi-axis hybrid testing.

Professor Al-Mahaidi is a prolific researcher, with over 250 journal and 270 conference papers published to date, as well as 18 authored/edited books and conference proceedings. To date, he has scored an H-Index of 60 and received several awards, the most recent one was the 2023 IIFC Medal for distinguished contributions to the field of FRP composites for construction through research or practical applications, or both. He was also the recipient of the 2021 IABMAS Special Service Award from the International Association for Bridge Maintenance and Safety. In 2019, he received the Magazine of Concrete Research Prize, from the Institution of Civil Engineers, UK. In 2016, his research group won the Engineers Australia Excellence Award for Innovation, Research, and Development (High Commendation) for the Multi-Axis Substructure Testing (MAST) System. In 2017 he was awarded the WH Warren Medal by Engineers Australia and in 2018 the ARRB Research Impact Award. Other awards included the Vice Chancellor's Internationalization Award in 2012, the RW Chapman Medals in 2005 and 2010 for best journal publication in Engineers Australia Structural Journal, and best paper awards at ACUN-4 (2002) and ACUN-6 (2012) Composites conferences.

# ICSECT 2024 PLENARY SPEAKER



**Titles:** Challenges in Decarbonisation of Concrete Materials and Structures and Pathways to Achievement

**Dr. Stephen Foster, University of New South Wales, Australia**

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Stephen Foster a Professor of Structural Engineering at The University of New South Wales, Sydney, and the former Dean of Engineering (2020-23). He received his PhD from the University of New South Wales in 1993 and has over 40 years' experience as a structural engineer in practice and in teaching. He is a Fellow of the Australian Academy of Technological Sciences and Engineering, Fellow of Engineers Australia, Fellow of fib, Honorary Member of the Concrete Institute of Australia (CIA), a member Australian Standards Committee BD2, Chairman of sub-committee BD2/1 "Strength and Analysis" BD2/6 "Fibre Reinforced Concrete", BD2/9 "Geopolymer Concrete", Member of Australia Standards Committee BD90.5 "Bridge Design – Concrete" and chaired the BD90.5 working group on "Fibre Reinforced Concrete" and he is a Member of Canadian Standards Association Task Force on "Canadian Highway Bridge Design Code Ultra High Performance Concrete". He is the elected President of the International Federation for Structural Concrete (fib) (2023-24) and member of the fib Presidium. Stephen has over 380 publications in the field of structural concrete and concrete materials, with textbooks on Reinforced Concrete and Prestressed Concrete. His main research interests are in the fields of bringing new materials technologies to the design concrete structures, including fibre and ultra-high-performance concrete, low carbon construction materials such as Geopolymer and alkaline activated concretes and high strength reinforcing steels.

# ICGRE'24 PLENARY SPEAKER



**Titles:** Resilience, Sustainability and Affordability:  
The Triple Challenge for Infrastructure  
**Dr. William Powrie, Swinburne University of  
Technology, Australia**

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William Powrie is Professor of Geotechnical Engineering at the University of Southampton. He is known for his research in environmental and transportation geotechnics, and the behaviour of “difficult” soils and soil-like materials. He is Convenor of the UK Collaboratorium for Research on Infrastructure and Cities and leads the UK Rail Research and Innovation Network Infrastructure Centre of Excellence. He is a Fellow of the UK Royal Academy of Engineering, chair of HS2’s Independent Geotechnical Expert Panel, member of the UK Department for Transport Science Advisory Council, Chair of the RAEng / Lloyd’s Register Foundation Engineering X programme, and Geotechnical Consultant to groundwater specialists WJ.

## ICEPTP 2024 KEYNOTE SPEAKER



**Titles:** Microplastics in Water: Addressing Challenges and Exploring Sustainable  
**Dr. Luiza C. Campos, University College London, UK**

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Luiza Campos is a civil engineer with a PhD from Imperial College, United Kingdom and a master's degree in water and sanitation from the University of São Paulo, Brazil. Before immigrating to the United Kingdom, she worked for the water company of the Goiás state (SANEAGO) for 10 years and a further 10 years as a lecturer for the Federal University of Goiás (School of Civil Engineering) in Goiania. She is currently a Full Professor in the Department of Civil, Environmental and Geomatic Engineering at University College London in London, where she has worked since 2007. At UCL, she served as Undergraduate Admissions Tutor (2009-2013); Director of the Undergraduate Program in Environmental Engineering (2010-2014); Coordinator of the diversity, equality and inclusion program at the Department (2015-2018) and led the Athena Swan application project, which awarded the Department a Bronze Award for advancing gender equality practices in 2016. She is currently Co-Director of the UCL Center for Sustainability and Urban Resilience; Director of the MSc in Engineering for International Development; Co-chair of the UCL Human Wellbeing Grand Challenge; and one of UCL's Dignity Advisors who provide an informal and confidential information service to staff and students on issues relating to bullying, harassment, and sexual misconduct. In 2023, she received The Gold Medal from the Institute of Civil Engineers (ICE) for her excellence in civil engineering, in line with ICE's global mission to enhance engineers' technical knowledge, insight, and ethical understanding.

## KEYNOTE SPEAKER



**Titles:** Recent Advances in Railway Geotechnics and Geodynamics

**Dr. David Connolly, University of Leeds, UK**

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David Connolly is Professor of Railway Engineering at the University of Leeds, UK. He holds a MEng degree in civil engineering from the University of Edinburgh, and a PhD in railways also from the same institution. He previously worked at Heriot Watt University before joining Leeds in 2017 as an Associate Professor, and became full professor in 2022. His work is focused on railway geotechnics, track dynamics and numerical modelling. He has published over 100 papers, has a h-index of 32 and has won 8 awards for his research. He works closely with the railway industry and is a Fellow of the Institution of Civil Engineers and a Fellow of the Permanent Way Institution.

## KEYNOTE SPEAKER



**Titles:** Quantum Computing Applications in Waste-to-Energy Bio-Methanation Systems: Revolutionizing Sustainable Practices  
**Dr. Po-Heng (Henry) Lee, Imperial College London, UK**

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Po-Heng (Henry) Lee's team specializes in resource recovery, greenhouse gas reduction, and enhancing human health through anaerobic biotechnologies. His research and teaching aim to transcend classical energetic constraints by exploring discrete pathways, including quantum and quantum-like mechanisms, within microbial metabolism and gene regulation. Henry has pioneered state-of-the-art research techniques, utilizing quantum computing (such as Quantum Information Theory and Variational Quantum Eigensolver) and hybrid meta-omics approaches to manipulate microbiomes for environmental health enhancement. Henry's academic journey includes earning his PhD, MS, BS, and AAS degrees in Environmental Engineering from Iowa State University (2010), National Chiao Tung University (2003), National Ilan University (2001), and Hungkuang University (1999), Taiwan, respectively. He joined Imperial College London in 2019 after holding positions at Hong Kong Polytechnic University (2012-2018) and Inha University, South Korea (2010-2012).

# ICGRE 2024 KEYNOTE SPEAKER



**Titles:** Transportation Geo-structures in a Changing Climate: Challenges and Opportunities  
**Dr. Mohamed Meguid, McGill University, Canada**

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Prof. Meguid is the Department Chair at McGill University, Canada, specializing in geomechanics and geotechnical engineering, with a focus on subsurface structures and geosynthetic engineering. His work, driven by sustainable engineering solutions, has significantly advanced these fields. He is a member of the Trottier Institute for Sustainability in Engineering and Design, the Geosynthetics Technical Committee of the ASCE Geo-Institute, a Board Member of the Canadian Society for Civil Engineering. Dr. Meguid is Associate Editor of Geotextiles and Geomembranes and the Editor-in-Chief of the Geotechnical and Geological Engineering journal. Prof. Meguid's contributions in geosynthetics, especially in soil-geosynthetic interactions and their applications in civil engineering, earned him the 2022 Geosynthetics Research Award from the Canadian Geotechnical Society. His research group is also pioneering in AI applications in civil engineering, developing Machine Learning tools for estimating the service life of infrastructure under environmental challenges. A dedicated educator, Prof. Meguid is recognized for his commitment to empowering students in engineering education, having received the Samuel and Ida Fromson Award for Outstanding Teaching, and being nominated for the Principal's Award for Excellence in Teaching at McGill University.

# ICGRE 2024 KEYNOTE SPEAKER



**Titles:** Computer Vision Based Imaging and Characterization of Transportation Geomaterials

**Dr. Erol Tutumluer, University of Illinois at Urbana-Champaign (UIUC), USA**

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Dr. Erol Tutumluer is Abel Bliss Professor specializing in Transportation Geotechnics at the University of Illinois at Urbana-Champaign (UIUC). Dr. Tutumluer has research interests and expertise in characterization of highway/ airfield pavement and railroad track geomaterials, geosynthetics, advanced imaging techniques and applications of artificial intelligence and deep learning techniques to transportation infrastructure, structural health monitoring of transportation facilities using sensors, sustainable use of foundation geomaterials and construction practices for transportation infrastructure, discrete element analysis of ballast, and dynamic response measurement and analyses of track systems. Professor Tutumluer has served as an investigator on over 120 research projects, graduated 25 PhD and 46 MS students, and authored/co-authored over 380 peer reviewed publications from his research projects. Dr. Tutumluer is a Founding Editor-in-Chief of the Transportation Geotechnics Elsevier journal and the immediate past Chair of the ISSMGE Technical Committee 202 on Transportation Geotechnics. As a Council Member (2020-2026) of the International Geosynthetics Society (IGS), Dr. Tutumluer currently serves as Chair of the Technical Committee on Stabilization. He is an Executive Board Member of the Transportation Research Board's (TRB's) Transportation Infrastructure Group. Dr. Tutumluer was the 2000 recipient of the TRB's Fred Burgraff award for Excellence in Transportation Research. He was selected and honored with Yangtze River Scholar Award by China Ministry of Education in 2016. He received Qishi Distinguished Professor title bestowed upon him by Zhejiang University and delivered the Zeng Guoxi honor lecture in China in 2019. Dr. Tutumluer is the 2020 recipient of the ASCE T&DI James Laurie Prize in recognition of his career accomplishments for promoting Transportation Geotechnics field and the 2021 recipient of ASCE Geo-Institute's Carl L. Monismith Lecture Award. In 2023, Dr. Tutumluer received an IGS Award in recognition of his significant contributions towards the use of geosynthetics in roadways, railways, and airfields. Dr. Tutumluer is scheduled to deliver ASCE T&DI's Francis Turner and ISSMGE Proctor Lectures in 2024.



# LIST OF PAPERS

The following papers were presented at the 9th World Congress on Civil, Structural, and Environmental Engineering.

## Geotechnical Research and Engineering

### Analysis of the Influence of Waste Shear Strength Parameters on Landfill Slope Stability

Authors: Amila Hasanspahić, Emina Hadžalić, Anis Balić

### Study of Rainfall via Radar Image during Typhoon Morakot in Taiwan

Authors: Sung-Chi Hsu, Radius Tanone, Yan-Tang Ye, Alok Kumar Sharma

### Preliminary Evaluation of the Effects of the Unsaturated Conditions on the Pre-Shearing State of Stress of Quarzitic Tailings

Authors: Gianluca Bella, Simone Ghezzi, Dorota Czerski, Christian Ambrosi, Manuel Lüscher, Matteo Giani

### Geotechnical Challenges and Technical Solutions for Settlements Reduction for the New Access Gallery to the Ceneri base Tunnel (Switzerland)

Authors: Gianluca Bella, Alessandro Flematti, Matteo Falanesca, Filippo Gianelli, Davide Merlini

### Comparative Analysis for Numerical Modelling and Design of Anchored Retaining Structures

Authors: Gianluca Bella, Matteo Giani, Rosario Emanuele Cilla, Alessandro Flematti

### Numerical Investigation of the Effect of Rolling Friction on Landslides by DEM

Authors: Mengqi Wu, Haiping Zhu, Chin Leo

### Probabilistic Rock Mass Classification from Prior Construction for the Future Extension of a Tunnel

Authors: Marte Gutierrez, Gauen Alexander

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## Geotechnical Research and Engineering

### [Application of Nonlinear Consolidation Theory to Investigate Slurry/Marsh Soil Consolidation Behavior at Louisiana Coast](#)

Authors: Omar Shahrear Apu, M.S., Jay X. Wang, Ph.D., P.E.

### [Plane Strain Sand Properties from Numerical Modelling of Direct Shear Test](#)

Authors: Magdi El-Emam, Mousa Attom, Sami W. Tabsh

### [Comprehensive Methodology for Landslide Risk Assessment Using Fuzzy Logic Systems: A Step-by-Step Approach](#)

Authors: Mohammad Rahal, Shaza Soleiman, Bassam Hussein

### [Stability Analysis of Surface and Subsurface Geological Hazards Using Numerical Approach in Hydropower Project of India- a Case Study](#)

Authors: Mainak Ghosh Roy, Nirmal Singh, Sajan Moideen

### [Parametric Study on the Stability of Crown Pillars Considering Multi-Variate Regression and K-Cross Validation Techniques](#)

Authors: Sumant Mohanto, Debasis Deb

### [Thermal Digital Twins of Asphalt Pavements using Physics-informed Neural Networks](#)

Authors: Deepthi Mary Dilip

### [Evaluating seismic liquefaction potential using shear wave velocity using machine learning](#)

Authors: Shaymaa Kennedy

### [Axial and Lateral Performance of Micropiles in Till](#)

Authors: Benjamin Berger, Ahmed Fahmy

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## Geotechnical Research and Engineering

### Seismic Fragility Functions of a Tailings Dam Affected by Subduction Earthquakes

Authors: Nestor Bellido, Zenón Aguilar

### Shear Strains in Cracked Reinforced Concrete Beams

Authors: Khaldoun Rahal

### MWD data Analysis for Risk Assessment and Process Optimization in Tunnelling

Authors: Alla Saponova, Thomas Marcher, Franziska Klein

### Determination of the seismic factor for Dry-Stone Retaining Walls: A Fully 3D Numerical Study

Authors: Hussein Osman, Eric Vincens, Nathanael Savalle, Stéphane Hans

### A Multiscale Study of Shear Response of Geomaterial Contacts for Geotechnical Applications

Authors: Lalit Kandpal, Prashanth Vangla

### Harnessing Native Ureolytic Bacteria from the Hilly Region for Soil Strength Improvement: Investigating the Effect of Urea-CaCl<sub>2</sub> Concentration

Authors: Rituraj Devrani, Prashanth Vangla, Shilpi Sharma

### Evaluating the Influential Factors on Cr(VI) Leaching from Compacted Cement-Stabilized Soil through Tank Leaching Tests

Authors: Akkarachai Ruangsangthong, Toru Inui, Masaki Hosokawa, Sho Ogata

# LIST OF PAPERS

## Geotechnical Research and Engineering

### Influence of Red Lateritic Soils on the Geotechnical Properties of Expansive Dark Magnesium Clay

Authors: Rajeshwar Goodary, Gisèle Lecomte-Nana, Durgesh Teeluckdharry, Viacheslav Iegupov, Andriantahianjahary Morayndo

### Important Guidelines On The Finite Element Modelling Of Micropiles

Authors: Ahmed Elsaywaf, Hany El Naggar

### Effect Of The Activation Force On The Healing Level Of Asphalt Mixture With Embedded Capsules

Authors: Erkut YALCIN, Mehmet YILMAZ

### Investigation of the Effects of Different Modified Asphalts on Storage Stability

Authors: Beyza Furtana YALCIN, Mehmet YILMAZ, Erkut YALCIN, Ahmet Münir OZDEMIR

### Relationship between Vegetation and Landslide Depth Using Statistical Methods: Aso Region, Kumamoto Prefecture, Japan

Authors: Hiroki Asada, Tomoko Minagawa

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## Structural Engineering and Concrete Technology

### Prospects for the Use of Light Carbonate Slag Carbonate

Authors: Nazarenko Oleksiy, Berezovska Alona, Ischenko Oleksiy, Zhvan Viktor, Kulik Michailo

### Comparison Analysis of Free Shrinkage Strains of Reinforced Concrete Box Girder Bridges Repaired With Concrete Overlays

Authors: M.G. Parmiani, G. Faraone, L. Orta

### Effect of Mislabeled Data on Judgement Results for Re-bar Corrosion by Impact Sound Based on Neural Network

Authors: Tomohiro Fukui, Ichiro Kuroda

### Non-Destructive Inspection on Resin Grouting Judgement for Repaired RC Member by Local Outlier Factor Method

Authors: Toshiomi NISHI, Michie KOGA, Shigeyuki HIRO, Ichiro KURODA

### Effect of Stochastic Randomness in Natural Frequency Increment of a Trapezoidal Laminated Composite Plate

Authors: Rohan Das, Dona Chatterjee, Prof. Dr. Dipankar Chakravorty

### Relationship between Management Challenges and Construction Project Sizes Using Fuzzy AHP

Authors: Rashid Alkindi, Eman Alraeesi, Sameh Al-Shihabi

### Nonlinear First Ply Failure Response of Composite Cylindrical Shells under Non-Uniform Transverse Pressure

Authors: Susmita Choudhury, Arghya Ghosh, Dipankar Chakravorty

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## Structural Engineering and Concrete Technology

### Estimating Limit State Capacities for OGS Building having different Multiplication Factor

Authors: Haran Pragalath, Yousif Mohanad Salsal, Sivakumar Ramalingam, Sathish Kumar R

### Effect of a Long-Duration Irregular Excitation on the Dynamic Behavior of a Vertically Baffled Base-Isolated Rectangular Fluid Container

Authors: Jyoti Ranjan Barik, Kishore Chandra Biswal

### Revolutionising Visual Bridge Inspection: A Deep Learning Approach for Automated Concrete Bridge Distress Identification & Analysis of Results

Authors: Shyam Saseethar, Dilip Narkhede

### Looking Into the Anthropocene: Sustainable Design Philosophy, Behaviour of GFRP and Steel in Concrete Beams Subjected to Flexion

Authors: Bolívar Maza, Julio Silverio, Daniela Maza

### Development Of Eco-Friendly Concrete: Research On The Use Of Coffee Husk Ash As A Sustainable Alternative

Authors: Bolívar Hernán Maza, Danny Vega Hidalgo, Dolores Maza Vivanco

### Behaviour of Reinforced Concrete Frames under Various Load Conditions with Pre-Applied Elevated Temperature

Authors: Anupama Krishna D, Priyadarsini R , Narayanan S

### Two-tier Bidirectional Static Load Testing for Pile Capacity Evaluation

Authors: Anil Cherian

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## Structural Engineering and Concrete Technology

### Comparative Analysis of Conventional Concrete Mixture and Concrete Incorporating Recycled Rubber and Iron Oxide

Authors: María Guerra-Ortiz, Christian Cardenas-Cardenas, Jorge Flores-Rada, Bowen Xu, David Valverde-Burneo, Natividad Garcia-Troncoso

### Evaluating the Influence of Soil-Structure Interaction on Seismic Response of Commercial Structures in Ecuador

Authors: Yadira Jaramillo-Lindao, Paula Sarmiento-Robles, Bowen Xu, Natividad García-Troncoso, Ken Tello-Ayala, Oscar González, David Valverde-Burneo

### Evaluation of Seismic Performance of Structural Concrete Walls through Linear Methods

Authors: Jose Martinez-Herrera; Laura Villamar-Quishpe, Carlos Quishpe-Otacoma, Ken Tello-Ayala, Natividad Garcia-Troncoso; Bowen Xu

### Comparing Analysis of Earthquake-Resistant Housing Construction Methods in Ecuador: Frames vs. Walls

Authors: Domenica Ochoa-Guerrero, Humberto Villegas-Vera, Carlos Quishpe-Otacoma, Ken Tello-Ayala, Daniel Gomez; Natividad Garcia-Troncoso

### Preserving Historical Value through Innovative Reinforcement Techniques: A Case Study of the San José de Chimbo Church in Ecuador

Authors: Darwin Rocohano-Granados; Ander Suárez-Lainez; Nadia Quijano-Arteaga; Guillermo Muñoz-Villa; Natividad García- Troncoso

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## Structural Engineering and Concrete Technology

### [Energy Efficiency Analysis of a Residential Project Using Autodesk and EDGE App](#)

Authors: Rafael Cabrera-Garcia, Fabian Martinez-Ruiz, Victor Orozco-Chavez, Nadia Quijano-Arteaga, Natividad Garcia-Troncoso

### [A Particle-Based Computational Framework for a Newtonian Fluid Drop Impact on a Rigid Surface](#)

Authors: Tapan Jana, Amit Shaw, L. S. Ramachandra

### [Comparative Time-Frequency Analysis of the Seismic Response of Underwater Rail and Mountain Road Tunnels](#)

Authors: Marco Civera, Bernardino Chiaia



# LIST OF PAPERS

## Environmental Pollution, Treatment and Protection

### Adsorption of Tetracycline on Untreated and Modified Surfaces of Waste Biosorbent

Authors: Szende Tonk, Ágota Kiss, Eszter Rápó

### CFD Simulation of Savonius Cross-flow Hydrokinetic Turbine Using Various URANS Turbulence Models

Authors: Ali Heydari, Amirhossein Mohammadi, Ahmad Nabhani, Amirmasoud Mohammadi

### Flow Pattern Investigation of Savonius Cross-flow Hydrokinetic Turbine Using CFD URANS Turbulence Models

Authors: Ali Heydari, Amirmasoud Mohammadi, Amirhossein Mohammadi, Altug Tosun

### An Effective Solution: Water Pollution by Textile Industry in Bangladesh

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