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26 NOVEMBER 2021 | 9:00 AM TO 17:30 PM

SOFITEL DARLING HARBOUR | HYBRID EVENT

INTERNATIONAL YOUNG PROFESSIONALS WORKSHOP ON RAIL-ROAD INFRASTRUCTURE

The workshop is organised by the Transport Research Centre, University of Technology Sydney (<https://www.uts.edu.au/research/transport-research-centre>) under the Directorship of Distinguished Prof Buddhima Indraratna. The event is supported by the Australian Research Council Industrial Transformation Training Centre for Advanced Technologies in Rail Track Infrastructure (ITTC-Rail), Australian Geomechanics Society, TC202 Transportation Geotechnics, ISSMGE.

The workshop will showcase the recent advancements in the field of Transport Infrastructure with special reference to ground engineering and the utilisation of novel construction materials. Research students and young professionals will present a range of emerging themes focused on the advancement of rail geotechnology and pavement engineering, including topics covering soil-structure interaction, embankment and substructure design, track construction materials, ground improvement and moving load dynamics.

This full-day workshop will provide professional engineers and research students useful exposure to current and future industry trends, national priorities and current developments in transport infrastructure, and to learn and share their knowledge and experience through networking with peers.

The wide array of presentations will focus on R&D outcomes of significant industry impact, state-of-practice in national and international mega projects as well as technological innovations which will be of interest to a broad audience.

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Transportation Geotechnics (TC202)

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Invited Young Professionals include:

Lucy Wu, Chair, Young Member Presidential Group, ISSMGE
Reas Beeston, SMEC (2020 IEAUST Young Professional Engineer of the Year)

Dr Rakesh Malisetty, UTS-TRC (Winner, 2021 AGS-NSW Research Award)

TWO Bright Spark Lecturers supported by ISSMGE and AGS (to be selected based on research track record and/or industry experience)

Early Bird Discounts (before 29 October 2021):

Face-to-Face registration \$250

Online Registration \$100

Rates after Early Bird deadline:

Face-to-Face registration \$350

Online Registration \$200

Complimentary Registration:

ITTC-Rail and TRC students

Presenters

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Technical Program Coordinator:

Professor Cholachat Rujikiatkamjorn (for all technical enquiries)

Cholachat.Rujikiatkamjorn@uts.edu.au

Secretariat, c/o:

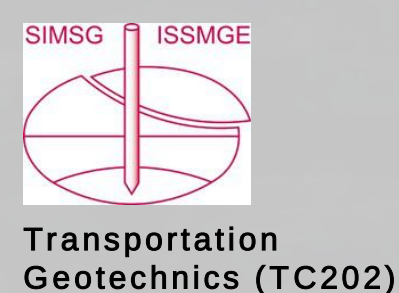
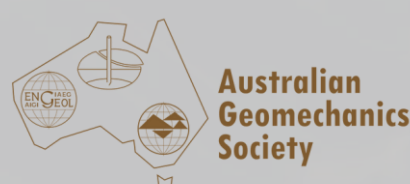
Christine Smith (for all registration matters and other enquiries)

christine.smith-1@uts.edu.au

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A broad range of topics from academia to industry will be presented with stimulating discussions. A snapshot of selected areas include:

Construction and monitoring challenges for road embankments on soft soils

Modelling of ballasted track behaviour for mixed freight and higher speed passenger traffic

Structured approach for reuse of fixed assets in rail infrastructure

Large-scale triaxial testing of reinforced granular materials

Role of drainage in the stability of road and rail foundations

Dynamic behaviour of transport embankments

Unsaturated soil foundations and the influence of wetting-drying cycles

Green corridors to enhance subgrade soil stability through vegetation

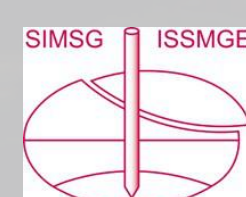
Cost-effective engineering solutions embracing a circular economy

Application of geosynthetics to reduce instability of soft subgrade

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