





# Second Announcement The 6<sup>th</sup> International Conference on Geotechnical Engineering

July 22<sup>nd</sup> - 23<sup>rd</sup>, 2024

Muladi Dome, Universitas Diponegoro  
Semarang, Central Java, Indonesia

Organized by :

Under the Auspices :



## Keynote Speakers

Theme :

**Recent Ground Technology Challenges and Opportunities**  
**Innovative Improvement for Mega Infrastructures Development**

Soil Characteristics,  
Engineering  
Geology and Investigation

Soft Soil Engineering

Ground Improvement: Deep Vibro-Technique,  
Dynamic Compaction; Deep Soil Mixing; Rigid  
Inclusion; Vacuum Consolidation; Preloading with  
Surcharging, Stone Column; Geotextile etc.

Liquefaction, Soil Dynamics, and  
Geotechnical Earthquake Engineering

Geotechnical Reliability, Risk Assessment and  
Management

Shallow and Deep Foundations

Expansive Soil etc.



## Invited Speakers

### Call for Papers:

Each Author can only submit one abstract with his/her name as the first author directly to the Organizing Committee.

### Important dates:

Abstract Submission : max by April 18<sup>th</sup>, 2024  
Announcement : April 30<sup>th</sup>, 2024  
Full Paper : May 30<sup>th</sup>, 2024  
Scopus announcement : June 30<sup>th</sup>, 2024

### Registration period:

Early Bird Registration Period : max by April 16<sup>th</sup>, 2024  
Normal Registration Period : April 17<sup>th</sup> – June 1<sup>st</sup>, 2024  
Workshop date : July 21<sup>st</sup>, 2023  
Conference Date : July 22<sup>nd</sup> – 23<sup>rd</sup> 2024

### Registration Fees:

Registration Category	Early Registration	Normal Registration	On-Site Registration
Participants (full option)	USD500	USD550	USD600
Student (full option)	USD400	USD450	USD450
Student	USD250	USD300	USD300
Local participants *)	IDR1,000,000	IDR1,500,000	IDR1,500,000
Local participants + Workshop *)	IDR1,500,000	IDR2,000,000	IDR2,000,000
Local student participants *)		IDR500,000	
Local student + Workshop *)		IDR1,000,000	

\*) Author will be charged additional fee for article processing charge in Scopus indexed proceeding as much as IDR1,500,000

### Lecture by :

## Special Workshop

Date : July 21<sup>st</sup>, 2024



- ✓ Prof. Chu Jian  
"Vacuum Preloading Method and Its Applications in Soil Improvement"
- ✓ Dr. Leong Kam Weng, B.Eng., Ph.D  
"Green Construction Technology for Soft Soil Foundation"
- ✓ Prof. Askar Zhussupbekov  
"Smart Foundations for Soil Improvement on Seismic and Undermining Territories"
- ✓ Prof. Ir. Widjojo A. Prakoso, M.Sc., Ph.D.  
"New Perspective on Long-Term Behaviour of Expansive Soils"
- ✓ Prof. Liu Aimin  
"Vibro Techniques and Applications"
- ✓ Ir. Andi Kurnia Setiadi Kartawiria, S.T., M.T  
"Geotechnical Challenge for IKN, A Case Study for Excavation for Construction of MUT"

VISIT MORE INFORMATION :



Sdri. Tia – 0813 2603 5963  
Sdra. Angga – 0821 3802 6506

rcigi@live.undip.ac.id

<http://www.rcigi-undip.com>

Fully Supported by:





# The 6<sup>th</sup> International Conference on Geotechnical Engineering

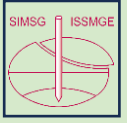
July 22<sup>nd</sup> - 23<sup>rd</sup>, 2024

Universitas Diponegoro Campus  
Central Java, Indonesia

Organized by :



Under the Auspices :



## Keynote Speakers

Theme :

**Recent Innovative  
Ground Improvement  
Technology for Mega  
Infrastructures Development:  
Challenges and Opportunities**



Soft Soil Engineering  
Soil Characteristics, Engineering  
Geology and Investigation

Liquefaction, Soil Dynamics, and  
Geotechnical Earthquake Engineering

Ground Improvement: Deep Vibro-Technique,  
Dynamic Compaction; Deep Soil Mixing; Rigid  
Inclusion; Vacuum Consolidation; Preloading with  
Surcharging, Stone Column; Geotextile etc.

Geotechnical Reliability, Risk Assessment and  
Management

Shallow and Deep Foundations  
Expansive Soil etc.

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### Registration period:

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Local participants <sup>*)</sup>	IDR1,000,000	IDR1,500,000	IDR1,500,000
Local student participants		IDR500,000	
Workshop		IDR500,000	

<sup>\*)</sup> Author will be charged additional fee for article processing charge in Scopus indexed proceeding as much as IDR1,500,000

## Lecture by :

- ✓ Prof. Chu Jian
- ✓ Dr. Leong Kam Weng, B.Eng., Ph
- ✓ Prof. Askar Zhussupbekov
- ✓ Prof. Ir. Widjojo A. Prakoso, M.Sc., Ph.D.
- ✓ Dr. Li Bin
- ✓ Ir. Andi Kurnia Setiadi Kartawiria, S.T., M.T

## Special Workshop

Date : July 21<sup>st</sup>, 2024



## VISIT MORE INFORMATION :

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# The 6<sup>th</sup> International Conference on Geotechnical Engineering, Semarang, Indonesia, 2024

July 22<sup>nd</sup> – 23<sup>rd</sup>, 2024

Universitas Diponegoro Campus, Semarang – 50275, CentralJava, Indonesia

Web: <http://www.rcigi-undip.com>

## Theme and Sub Theme:

The conference theme is "Recent Innovative Ground Improvement Technology for Mega Infrastructures Development: Challenges and Opportunities". The conference focuses on an innovative method on ground improvement for problematic soils including soft soil, expansive soil, liquefiable soil and earthquake loading, but not limited to,

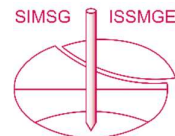
- Soil characteristics, Engineering geology and investigation
- Soft Soil Engineering
- Ground Improvement: Deep vibro technique, Dynamic Compaction; Deep Soil Mixing; Rigid Inclusion; Vacuum Consolidation; Preloading with surcharging, Stone Column; Geotextile etc.
- Liquefaction, Soil dynamics and geotechnical earthquake engineering
- Geotechnical reliability, risk assessment and management
- Shallow and deep foundations
- Expansive Soil etc.

The conference will provide an excellent opportunity for Engineers, Professionals, Academicians, Researchers, Construction equipment and material manufacturers, suppliers and Government Officials to integrate and disseminate information on recent developments and case histories related to innovative ground improvement for very soft soil, clay shale, soil dynamics, geotechnical challenge for earthquake prone area, liquefaction, innovations of foundation, embankment on ultra soft soil, etc.

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## About rCIGI UNDIP:

rCIGI UNDIP, or Research Center for Innovative Ground Improvement Cluster Faculty of Engineering, Universitas Diponegoro, is an institution that carries out researches, developments, study and applications, as well as integrated ground improvement inventions and innovations with the aim of seeking creative innovations by researches and then developing them to produce results that are more proven and economical. rCIGI UNDIP also has missions to build collaboration between academicians, researchers and geotechnical practitioners, narrow gaps in the development of innovative solutions for ground improvements that can be accounted for technically and legally in Indonesia and internationally, and disseminate research information that has been carried out or published to stakeholders.

rCIGI UNDIP aligns and consistent with several of the goals of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), this International Conference intends to focus on interaction between academicians and practitioners for the development of better solutions. We have implemented this International Conference in Semarang, Indonesia, starting in 2002 and continuing in 2004, 2005, 2007, and 2011, we have become a successful host. The International Conference has developed and is a tribute to superior collaboration and is fully supported by a team of national and international expert panels along with universities, professional organizations, and especially supported by the Government of the Republic of Indonesia and the Ministry of Public Works of the Republic of Indonesia. We have actively sought to bridge the gap between geotechnical engineering research and practice, and in a short time we have also managed to stabilize academic relations with a number of countries in Asia, Europe, Australia and USA.

## Keynote Speakers:



Prof. Keh-Jian (Albert) Shou,  
Vice President Asia of  
ISSMGE, National Chung-  
Hsing University, Taiwan

*"On the Impact of Climate Change to the Landslide Hazard"*



Prof. Chu Jian, Nanyang  
Technology University  
(NTU), Singapore

*"Improvement of Soft Clay Fills using Short PVDs and Horizontal Drainage Enhanced Geotextile (HDeG) Methods"*



Prof. Askar Zhussupbekov,  
Eurasian National University,  
Kazakhstan

*"Geotechnical Considerations of Foundations of Megastructures on Problematical Soil Ground of Kazakhstan"*



Prof. Dr. Ir. Ramli Nazir,  
Universiti Teknologi  
Malaysia, Malaysia

*"A Tropical Soft Soil Lesson Learned from Malaysia's Experience"*



Prof. Eun Chul Shin, Incheon  
National University (INU),  
South Korea

*"Case Study of Soft Ground Improvement by Utilizing PVD and WHD"*



Dr. Li Bin, First Harbor  
Engineering Company,  
CCCC, China

*"Intelligent Equipment and Green Construction Technologies for Soft Soil Treatment"*



Prof. Hung, Wen-Yi, National  
Central University, Taiwan

*"Soil Improvement by Microbial-Induced Calcium Precipitation for Liquefiable Soil by Centrifuge Modelling"*



Prof. Ir. Widjojo A. Prakoso,  
M.Sc., Ph.D., Universitas  
Indonesia, President of  
Indonesian Society for  
Geotechnical Engineers

*"Improved Soft Clays and Performance of Laterally Loaded Pile Systems"*



Prof. Ir. Masyhur Irsyam,  
M.S.E., Ph.D., Institut  
Teknologi Bandung,  
Indonesia

*"Development of PuSGeN-PUPR Platform for Selection and Modification of Earthquake Ground Motions to Design and Evaluate Structures and Infrastructures in Indonesia"*



Prof. Dr. Ir. Sri Prabandiyani  
Retno Wardani, M.Sc., Chair  
of The 6<sup>th</sup> ICGE & rCIGI,  
Universitas Diponegoro,  
Semarang, Indonesia

*"Properties of clay shale and stiff overconsolidated clay and associated with landslides in Semarang and surrounding areas"*



## Invited Speakers:

- Dr. Philipp Schober, BAUER Spezialtiefbau GmbH, Malaysia  
*"Soil Reinforcement by FDC's Below a Coal Stock Pile to Reduce Impact on Adjacent Structures"*
- Prof. Nurly Gofar, Universitas Bina Darma, Palembang  
*"Utilization of Recycled Asphalt as Filling Material of Geobarrier System"*
- Prof. Agus Setyo Muntohar, Ph.D.(Eng.) Universitas Muhammadiyah Yogyakarta  
*"Monitoring of slope movement using InSAR for early warning on toll road and railway infrastructures"*
- Dr. Leong Kam Weng, B.Eng., Ph.D. (Co-Speaker: Dr. Yustian Heri Suprpto), Keller Foundation (S.E. Asia) Pte Ltd  
*"Deep Soil Mixing Techniques and Application"*
- Marcello Djunaidy, S.T., M.T., Indonesian Society for Geotechnical Engineers (HATTI)  
*"Application of Ground Improvement Technology for Ultra Soft Clay: Double Stage Vacuum Consolidation Method"*
- Dr. Andhika Sahadewa, Indonesian Society for Geotechnical Engineers (HATTI)  
*"Ground Improvement Applications in Recent Indonesian Airport Developments"*
- Agus Himawan, S.T., M.T., Indonesian Society for Geotechnical Engineers (HATTI)  
*"Alternatives of Ground Improvements for Ultra and Very Soft Soil in Earthquake Prone Area for Kalibaru Container Terminal Port"*
- Ir. Andi Kurnia Setiadi Kartawiria, S.T., M.T., Indonesian Society for Geotechnical Engineers (HATTI)  
*"Utilization of Bamboo as an Alternative Solution for Support Systems for Embankment Construction on Soft Soil in Indonesia"*
- Dr. Adrin Tohari, M.Eng., National Research and Innovation Agency (BRIN)  
*"Understanding of Flow Liquefaction in Palu and Sigi based on Geophysical Exploration"*
- Dr. Idrus Muhammad, M.Sc. (HATTI)  
*"Properties of Clay Shale for Geotechnical Engineering Design of Infrastructures"*
- Ir. Lutfi Faizal, Ministry of Public Works and Housing (PUPR)  
*"Latest developments in the Indonesian Code for advanced earthquake resistant buildings and infrastructures"*
- Dr. T. M. Zaki, S.T., M.T. (Universitas Trisakti, Jakarta, Indonesia)  
*"Soil Injection cement for rectification foundation settlement at piperack"*

## Workshop (Date: July 21<sup>st</sup>, 2024):

A one day workshop on selected soil improvement topics will be organized with invited international and local speakers including a few keynote and invited speakers at the conference as follows:

- Prof. Chu Jian
- Dr. Leong Kam Weng, B.Eng., Ph.D.
- Prof. Askar Zhussupbekov
- Prof. Ir. Widjojo A. Prakoso, M.Sc., Ph.D.
- Prof. Liu Aimin
- Ir. Andi Kurnia Setiadi Kartawiria, S.T., M.T.

**Organizing Committees:**

Chair	:	Prof. Dr. Ir. Sri Prabandiyani Retno Wardani, M.Sc. Universitas Diponegoro	
Co-Chairs	:	Prof. Dr. Ir. Masyhur Irsyam, M.S.E. Institut Teknologi Bandung	
		Prof. Agus Setyo Muntohar, Ph.D. (Eng.) Universitas Muhammadiyah Yogyakarta	
		Prof. Chu Jian Nanyang Technology University, Singapore	
		Prof. Askar Zhussupbekov Eurasian National University, Kazakhstan	
Secretary	:	Dr. Kresno Wikan Sadono, S.T., M.Eng. Universitas Diponegoro	
Treasury	:	Prof. Jati Utomo Dwi Hatmoko, S.T., M.M., M.Sc., Ph.D Universitas Diponegoro	

**Advisory and Scientific Committees:**

- Dr. Marc Ballouz, the President of ISSMGE, Texas A & M University, Texas, USA, and International Expert Panel Team of rCIGI of UNDIP, Semarang, Central Java, Indonesia
- Prof. Jean Louis Briaud, Past President of American Society of Civil Engineers 2021., Past President of ISSMGE, Texas A & M University, Texas, USA, and International Expert



- Panel Team of rCIGI UNDIP, Semarang, Indonesia.
- Prof. Chu Jian, Nanyang Technological University (NTU), Singapore, and International Expert Panel Team of rCIGI UNDIP, Semarang, Central, Java, Indonesia
  - Prof. Ikuo Towhata, Tokyo University and Kanto Gakuin University (KGU), Japan, and International Expert Panel Team of rCIGI UNDIP, Semarang, Central Java, Indonesia
  - Prof. Askar Zhussupbekov, Eurasian National University, Kazakhstan, and International Expert Panel Team of rCIGI UNDIP, Semarang, Central Java, Indonesia
  - Prof. Eun Chul Sin, Incheon National University (INU), South Korea, and International Expert Panel Team of rCIGI UNDIP, Semarang, Central Java, Indonesia
  - Prof. Ramli Nazir, Universiti Teknologi Malaysia (UTM), Malaysia, International Expert Panel Team of rCIGI UNDIP, Semarang, Central Java, Indonesia
  - Prof. Helmut F. Schweiger, Graz University of Technology (GUT), Austria, International Expert Panel Team of rCIGI UNDIP, Semarang, Central Java, Indonesia
  - Prof. Gomes Correia, University of Minho, Portugal, International Expert Panel Team of rCIGI UNDIP, Semarang, Central Java, Indonesia
  - Prof. Dr. Ir Sri Prabandiyani Retno Wardani, M.Sc. (UNDIP, Semarang, Indonesia)
  - Prof. Dr. Ir. Masyhur Irsyam (ITB, Bandung, Indonesia)
  - Prof. Agus Setyo Muntohar, Ph.D. (UMY, Yogyakarta)
  - Prof. Dr. es. sc. Ir. Ahmad Rifa'i, M.T (UGM, Yogyakarta, Indonesia)
  - Prof. Yusep Muslih Purwana, S.T., M.T., PhD (UNS, Surakarta, Indonesia)
  - Dr. Fahmi Aldiamar, S.T., M.T. (PUPR)
  - Ir. Lutfi Faizal (PUPR)
  - Dr. Ir. Helmy Darjanto, M.Sc. (HATTI)
  - Dr. T. M. Zaki, S.T., M.T. (Universitas Trisakti, Jakarta, Indonesia)
  - Dr. Idrus Muhammad, M.Sc (HATTI)
  - Ir. Hendra Jitno, M.A.Sc., Ph.D., RPEQ, CPEng., FIEAust. (Itenas)
  - Dr. Kresno Wikan Sadono, S.T., M.Eng. (UNDIP, Semarang, Indonesia)
  - Prof. Nurly Gofar, Ph.D. (Universitas Bina Darma, Indonesia)

## Call for Papers:

Prospective Authors are invited to submit a one-page abstract related to the theme of the conference by March 15<sup>th</sup>, 2024.

Each Author can only submit one abstract with his/her name as the first author directly to the Organizing Committee.

## Important dates:

Abstract Submission	: March 15 <sup>th</sup> , 2024
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<b>Local student participants</b>	IDR500,000		
<b>Workshop</b>	IDR500,000		

\*) Author will be charged additional fee for article processing change in Scopus indexed proceeding as much as IDR1,500,000

## Language:

The official language used is English

## Abstract Selection:

All submitted abstracts will be reviewed by an International Scientific Technical Committee consisting of representatives of international experts from all subjects covered in the conference. The paper must be original, previously unpublished work and must not be of a commercial nature. Those whose abstracts are accepted by the conference will be notified to prepare a complete paper manuscript. The final manuscript will be reviewed by International experts appointed by the organizing committee in collaboration with the International Scientific Technical Committee.

## Proceedings:

The Conference Proceedings will be published in 3 options:

1. Conference Proceedings will be published in the Lecture Note Civil Engineering or AIP.
2. Conference Proceedings will be published in collaboration with Scopus Index Journal for Selected Papers.
3. Conference Proceedings will be printed for those that do not meet points 1 and 2.

## Exhibition:

Companies are kindly invited to showcase their products and services. Interested exhibitors can obtain all the necessary information from the Conference Secretariat.

## Accommodation:

The conference will be held at Semarang, Central Java, Indonesia. Various hotel categories at reasonable prices, including budget accommodation will be listed in the Second Announcement on the website.

Technical Visit and Post Conference Tours:

- Technical Visit Project in Semarang
- Post Conference Tours to Borobudur Temple (One of the great wonder of the world) and Prambanan Temple, Yogyakarta.

Please explore from <https://www.indonesia-tourism.com/central-java/semarang.html>.





Title : The 6th International Conference on Geotechnical Engineering  
Theme : Recent Innovative Ground Improvement for Mega Infrastructures Technology  
Development: Challenges and Opportunities

Description : Consistent with several of the goals of ISSMGE, this International Conference intends to focus on interaction between academicians and practitioners for the development of better solutions. We were the pioneers of this International Conference in Semarang, Indonesia, in 2002 and have continued to host it since then. The conference has grown and become a tribute to this day. We have actively sought to bridge the gap between geotechnical engineering research and practice. We have also managed to stabilize academic relations with a number of countries in South East Asia.

Organizer : Prof. Dr. Ir. Sri Prabandiyani Retno Wardani, MSc  
Language : English  
Web Site : <http://www.rcigi-undip.com>  
Email : [info@rcigi-undip.com](mailto:info@rcigi-undip.com)  
Category : ISSMGE  
Venue : Prof. Muladi, S.H, Dome  
Start Date : 21 st July 2024  
Language : English  
Web Site : <http://www.rcigi-undip.com>  
Category : Member of ISSMGE  
Venue : Prof. Muladi, S.H, Dome  
Start date : July, 21, 2024  
End date : July, 23, 2024  
City : Semarang 50275  
State : Central Java  
Email : [info@rcigi-undip.com](mailto:info@rcigi-undip.com)  
Address : Jl. Prof. H. Soedarto, SH, Kompleks Departemen Teknik Sipil, Fakultas Teknik,  
Kampus Undip, Tembalang.  
Country : Indonesia  
City : Semarang - 50275  
State : Central Java  
Phone : 62-24-7474770



Fax : 62-24-7460060  
Country : Indonesia  
City : Semarang  
State : Central Java

More Information:

Prof. Dr. Ir. Sri Prabandiyani Retno Wardani, MSc:

Head of rCIGI, Universitas Diponegoro (UNDIP) and Chair of the 6th International Conference on Geotechnical Engineering “ Recent Innovative Ground Improvement for Mega Infrastructures Technology Developmet , in collaboration with ISGE, IRDA, Ministry of Public Works and Housing of the Republic of Indonesia, and fully supported by National and International Universities, Professional Organizations, and Members of Experts Panel Teams of rCIGI UNDIP (<http://www.rcigi-undip.com>). And this conference is under auspices of ISSMGE.

Contact Information:

Secretary : Dr. Kresno Wikan Sadono ST, Meng  
Email : [kresnowikan@gmail.com](mailto:kresnowikan@gmail.com)  
Address : Jl. Prof. H. Soedarto, SH, Kompleks Departemen Teknik Sipil, Fakultas Teknik,  
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