



ASSOCIATION  
INTERNATIONALE DES TUNNELS  
ET DE L'ESPACE SOUTERRAIN

ITA

INTERNATIONAL TUNNELLING  
AND UNDERGROUND SPACE  
ASSOCIATION

**Call for Papers  
and Participation in Conference**  
*Leaflet 2*

# INTERNATIONAL CONFERENCE ON "TUNNELLING AND UNDERGROUND SPACE FOR SUSTAINABLE DEVELOPMENT"

[www.tunnel2024.com](http://www.tunnel2024.com)  
[tunnel.conference2024@gmail.com](mailto:tunnel.conference2024@gmail.com)



# TUNNEL 2024

**Bandung, Indonesia - October 2 - 4, 2024**

## HOSTED BY :

International Tunnelling and Underground Space Association (ITA-AITES)  
Universitas Katolik Parahyangan - Indonesia

## SUPPORTED BY :

Indonesian Society For Geotechnical Engineering - Himpunan Ahli Teknik Tanah Indonesia (HATTI)  
Indonesian Society of Civil and Structural Engineers - Himpunan Ahli Konstruksi Indonesia (HAKI)  
Indonesian Road Development Association - Himpunan Pengembang Jalan Indonesia (HPJI)  
Indonesian Society of Engineering Geology - Masyarakat Geologi Teknik Indonesia (MGTI)  
Indonesian Rock Mechanics Society (IRMS)  
Department of Public Works and Housing - Indonesia



## INVITATION

The committee of International Conference on TUNNELLING AND UNDERGROUND SPACE FOR SUSTAINABLE DEVELOPMENT cordially invites you to participate and contribute papers in the conference. The committee of TUNNEL 2024 also welcomes members of the International Tunneling and Underground Space Association (ITA—AITES), Indonesian Society For Geotechnical Engineering (HATTI), Indonesian Society of Civil and Structural Engineers (HAKI), Indonesian Road Development Association (HPJI), Indonesian Society of Engineering Geology (MGTI), Indonesian Rock Mechanics Society (IRMS) Ministry of Public Works and Public Housing, Indonesian government, geotechnical engineers, and all interested parties to attend and share knowledge in this important conference.

## CONFERENCE SUB-THEMES

- Forensic Investigation on Tunnel Failures and Legal Aspect
- Innovation in Tunneling and Underground Space Technology
- Safety Issues in Tunnel Construction
- Fire and Safety, Maintenance, Cost and Risk
- Underground Space and Urban Projects
- Mechanical Excavation
- Rock Tunneling and Support Design
- Soft Ground Tunneling, Lining Design and Grouting
- Cut-and-Cover Tunnel
- Shaft Construction and Vertical Tunnel
- Ground Investigation, Improvement and Instrumentation
- Tunneling in Seismic Region
- Micro Tunnel and Hydro Power Project
- Trend in Tunneling Standard and Practice
- Contract in Tunneling Works

## CONFERENCE LANGUAGE

The official language of the conference is English.

## CALL FOR EXTENDED ABSTRACTS

You are invited to submit extended abstract of maximal 3 pages for oral presentation. The extended abstract should be written in English and should clearly explain the contents of the studies discussed. The extended abstract must include the title of the paper, authors, affiliation of authors, email address of corresponding author, 4-5 keywords and the text in English.

**Papers must be original unpublished work containing new and interesting results** that demonstrate current research about tunneling and underground space for sustainable development.

Submission implies the willingness of at least one of the authors to register and present the paper. All papers are to be submitted electronically in Word format. All papers will be peer reviewed by independent referees who are experts in each topic.

The author of the selected extended abstract will be invited to make an oral presentation on the TUNNEL 2024.

## EXTENDED ABSTRACT SUBMISSION

Extended Abstract can be submitted via our website : [www.tunnel2024.com](http://www.tunnel2024.com)

# KEYNOTE LECTURES



**Prof. Arnold Dix**

Underground Works Chambers,  
Australia —  
President of ITA-AITES

*Title:*  
“The Importance of Forensic  
Investigations and Legal  
Aspects on Tunneling  
Construction Failures”



**Dr. Ir. Hedy Rahadian,  
M.Sc**

President of Indonesian Road  
Development Association (HPJI)

*Topic :*  
“Tunneling for Sustainable  
Infrastructure in Indonesia”  
(tentative)



**Zaw Zaw Aye**

Seafco Public Company Limited,  
Bangkok

*Title :*  
“Challenges in Diaphragm Wall  
Design and Construction of  
Deep Underground MRT  
Stations in Congestive Urban  
Areas of Bangkok”



**Sindre Log**

Research Manager - Rock and  
Soil Mechanics,  
SINTEF Community, Norway—  
Executive Council of ITA

*Title:*  
“Small Hydro Power Projects –  
Experiences and Lessons  
Learned from Norway”



**Prof. Jinxiu (Jenny)  
Yan**

Chief Expert of China  
Railway Academy Co., Ltd —  
ITA Past President

*Title :*  
“Urban Tunnelling for  
Sustainable Development”



**Klaus Rieker, Ph.D**

Wayss & Freytag Ingenieurbau  
AG, Germany —  
ITA ExCo Member—President of  
German Tunnelling Committee  
(DAUB)

*Title :*  
“Possible Contract Forms for  
Infrastructure Projects”



**Assoc Prof Ir Dr  
Rini Asnida Abdullah**

Universiti Teknologi Malaysia  
Deputy Chairman of Tunnelling  
and Underground Space  
Technical Division, Institute of  
Engineers Malaysia (IEM)

*Topic :*  
“Tunnel Defect Assessment using  
3D-Point Cloud”



**Ir. Weni Maulina**

Construction Director of Jakarta  
MRT—Indonesia

*Title:*  
“Underground Construction  
Towards Coastal Area in Jakarta”



**Prof. Jamal Rostami**

Colorado School of Mines, USA

*Title :*  
“Review of Challenges in TBM  
Performance Prediction”



**Hiroyuki Hirano, Ph.D**

General Manager of Tunneling  
and Underground Space  
Engineering Dept of Shimizu  
Corporation, Japan

*Title :*  
“Construction of Mountain Tun-  
nels and Rock Caverns in Japan,  
Indonesia, and Malaysia”



**Nick Chittenden**

Global Market Manager  
Tunneling & Mining ,  
Sika Services AG—Dubai UEA

*Title :*  
“Solutions for Tunnel  
Waterproofing (Pre-Excavation  
Grouting, Sheet and Sprayed  
Membrane/Sandwich  
Systems, Ground Consolidation:  
PUR and PUS Systems)”



**Prof. Paulus P. Rahardjo**

Universitas Katolik Parahyangan,  
Indonesia

*Title:*  
“Support System for Tunneling in  
Volcanic Region, Case Study  
Cisumdawu Toll Road”



**Prof. Widjojo A. Prakoso**

President of Indonesian Society  
For Geotechnical Engineering  
(HATTI) - Universitas Indonesia

*Topic :*  
“Review of Tunnel-Related  
Standards and Guides in  
Indonesia”



**Prof. Iswandi Imran**

President of Indonesian Society  
of Civil and Structural Engineers  
(HAKI)

*Title:*  
“Seismic Structural Design of  
Tunnel”



**Assoc. Prof. Imam  
Sadisun**

Past President of MGTI—  
Institut Teknologi Bandung—  
Indonesia

*Topic :*  
“Indonesian Guideline for  
Engineering Geological  
Investigation of Road Tunnel  
Development”



**Dr. Simon Heru Prasetyo**

Institut Teknologi Bandung,  
Indonesia  
Representative of IRMS

*Title:*  
“Monitoring of blast induced  
ground vibration for Jakarta-  
Bandung HSR Tunnel #11”

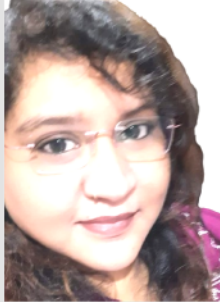


# INVITED LECTURES



**Dr. Aswin Lim**  
Universitas Katolik Parahyangan,  
Indonesia

*Topic :*  
"Innovative Method of Deep  
Excavation in Soft Ground"



**Shilpa Deshpande**  
COEP Technological University  
Pune, India

*Topic :*  
"Integrated Approach for Behavioral  
study with Predictive Stability  
Analysis of Mega Tunnel in  
Himalayan Region"



**Era Setiawan**  
PT. Nusa Halmahera Minerals,  
Indonesia

*Topic :*  
"Ground Support System in  
Underground Construction"



**Dr. Thayanon Boonyarak**  
King Mongkut's Institute of  
Technology Ladkrabang, Thailand

*Topic :*  
"Deep Excavation Design and  
Construction in Soft Ground"



**Aryanto Wibowo**  
Team Lead Manager,  
Sika Indonesia

*Topic :*  
"Holistic Approach of  
Shotcrete as Tunnel Ground  
Support System"



**Ir. Ahmad Yunaldi, MM**  
Founder and CEO PT Delta  
Systech Indonesia

*Topic :*  
"Optimizing Tunnel Construction  
with the Jacking Method: Cost-  
Effective, Safe, and Traffic-Friendly"



# IMPORTANT DATES

<b>Call for Extended Abstract</b>	: July 15 - September 1, 2024
<b>Notification of Ext. Abstract Acceptance</b>	: August 15 - September 5, 2024
<b>Revised Ext. Abstract for Publication</b>	: September 15, 2024
<b>Pre-conference Workshop</b>	: October 2, 2024
<b>International Conference</b>	: October 3 - 4, 2024
<b>Technical Site Visit</b>	: October 5, 2024
<b>EXCO Meeting</b>	: October 5 - 6, 2024
<b>Final Paper Submission (for Journal Publishing)</b>	: November 30, 2024
<b>Notification of Paper Acceptance</b>	: December 20, 2024
<b>Revised Paper for Publication</b>	: January 6, 2025
<b>Journal Publication</b>	: 2025

## TUNNEL 2024 INTERNATIONAL CONFERENCE (October 3 - 4, 2024)

Category	Before September 5 <sup>th</sup> , 2024		After September 5 <sup>th</sup> , 2024	
	International Participant	Local Participant	International Participant	Local Participant
Speaker / Author	USD 250	IDR 2.500.000	USD 300	IDR 3.000.000
Member of ITA / ISSMGE / HATTI / HAKI / HPJI / MGTI	USD 250	IDR 2.500.000	USD 300	IDR 3.000.000
Non Member	USD 300	IDR 3.000.000	USD 350	IDR 3.500.000
Student	USD 200	IDR 2.000.000	USD 250	IDR 2.500.000

The registration fees cover conference material fee, ice breaker party, welcome dinner, attendance at all conference sessions, name badge, satchel, conference kit, and conference program, conference proceeding (soft copy), morning and evening teas / coffees, lunches during the conference. The costs of international and local transportation, hotel and the post conference trip must be paid by oneself.

**For registration, please check our website [www.tunnel2024.com](http://www.tunnel2024.com).**

## PRE-CONFERENCE WORKSHOP (October 2, 2024)

There are two workshops organized prior to TUNNEL 2024 conference. In these workshops, expert and researchers are motivated to achieve solutions on the problems and develop more reliable design method for tunneling and underground space for sustainable development.

The speakers are selected among those who are have significant experience and outstanding expertise in the problems and solutions of tunneling and underground space.

### Workshop 1 : Rock Tunneling

Engineering Geology and Geotechnical Investigation for Tunnel, Tunnel Stabilization and Lining Design, Temporary Works Design - Shafts, Opening, and Portals, Tunnel Support System, Tunnel Ventilation, Construction Planning and Logistics, Risk Assessment and Method Statements

### Workshop 2 : Soft Ground Tunneling

Tunnel Induced Ground Movements and Control Instrumentation, Excavation using Tunnel Boring Machines, Use of Ground Treatment, Construction Method for Deep

## PRE-CONFERENCE WORKSHOP REGISTRATION

Category	International Participant	Local Participant
Member of ITA /ISSMGE / HATTI / HAKI / HPJI / MGTI	USD 100	IDR 1.000.000
Non Member	USD 125	IDR 1.250.000
Student	USD 75	IDR 750.000

The registration fees cover workshop material fee, attendance at all workshop sessions, name badge, workshop kit, morning and evening teas / coffees, lunches during the workshop.

**For registration, please check our website [www.tunnel2024.com](http://www.tunnel2024.com).**

## INSTRUCTORS



### Prof. Arnold Dix

Underground Works Chambers, Australia — President of ITA-AITES

*Title:*

1. *Case Histories on Construction Failures in Tunneling Works and Problems on Ventilation and Fire Safety*
2. *Trends in Effective Practice on Standards and Contract in Tunneling Works*

### WORKSHOP 1

#### ROCK TUNNELING



### Prof. Dr. Ir. Ridho Kresna Wattimena

Institute Teknologi Bandung—President of IRMS

*Title:*

*Rockmass Classification for Tunneling; Design and Construction*



### Prof. Paulus P. Rahardjo

Universitas Katolik Parahyangan, Indonesia

*Title:*

*Failure Mechanism of Tunnel Excavation in Jointed and Crushed Rock*



### Dr. Simon Heru Prasetyo

Institut Teknologi Bandung, Indonesia  
Representative of IRMS

*Title:*

*Rock Load and Support System for Rock Tunnel*



### Sindre Log

Research Manager - Rock and Soil Mechanics, SINTEF Community, Norway—Executive Council of ITA

*Title:*

*How to Overcome Leakage in Tunnel*

### WORKSHOP 2

#### SOFT GROUND TUNNELING



### Dr. Thayanan Boonyarak

King Mongkut's Institute of Technology  
Ladkrabang, Thailand

*Title:*

*Deep Excavation Design and Construction in Soft Ground*



### Zaw Zaw Aye

Seafco Public Company Limited, Bangkok

*Title :*

*Overview of Deep Excavation Works in Yangon and Bangkok*



### Dr. Aswin Lim

Universitas Katolik Parahyangan, Indonesia

*Title :*

*Three-Dimensional Numerical Study of Long-Term Settlement Induced in Shield Tunneling*



### Kenichi Ito

Jakarta MRT Project, Shimizu Adhi Karya  
Joint Venture

*Title:*

*Design and Construction of Station (Cut & Cover). TBM Tunnel, and Box Jacking Tunnel*

## TUNNEL 2024 SPONSORSHIP AND EXHIBITION

	Platinum	Gala Dinner	Welcome Dinner	Gold	Silver	Bronze	Exhibition
	USD 12000	USD 8500	USD 8000	USD 7000	USD 3500	USD 2000	USD 1500
No of Delegate Passes to Conference	5	4	4	4	2	2	
Advertisement on Conference Programme Book	1 full color	1 full color	1 full color	1 full color	1 full color	1/2 full color	
Logo Display in all promotional elements	✓						
Logo Display on Website	✓	✓	✓	✓	✓	✓	
Acknowledgement on Thank You Slide	✓	✓	✓	✓	✓	✓	✓
Company Profile Presentation	✓	✓	✓				
Free Exhibition Booth	✓	✓	✓	✓			✓

## TUNNEL 2024 ADVERTISMENT

Number of Page	Position	Amount
One full color page	Front Cover – back side	USD 1.500
One full color page	Rear Cover – face side	USD 2.000
One full color page	Rear Cover – back side	USD 1.500
One full color page	Inside	USD 800
Half full color page	Inside	USD 500

## ABOUT INTERNATIONAL ASSOCIATION OF TUNNELS AND UNDERGROUND SPACE - ITA AITES

Founded in 1974 by the initiative of nineteen Nations, the International Tunneling and Underground Space Association (ITA) mission is to lead, advocate and facilitate the development of sustainable and innovative solutions for increased, optimized, safe and equitable use of Underground Space, enabling the tunneling industry and its stakeholders to excel in delivering:

- Technical knowledge in the field of tunneling and underground space through publication of guidelines, training, and creating platforms for exchanging information and ideas;
- Best practices in health-and-safety, planning, engineering, contracting, construction, operation, and maintenance;
- The tools to empower decision makers and allied professionals to make informed choices about the underground;
- Reliable and economical underground solutions to urbanization and environmental challenges;
- Efficient and resilient underground infrastructure for current and future generations.

Since then, ITA has considerably developed. Presently, ITA gathers 80 Member Nations and 219 Corporate or individual Affiliate Members.

The General Assembly, which met annually, resolves all questions concerning the organization and conducts of the affairs of the Association; it shall approve the budget of receipts and expenditure, and appoint and organize all Committees of the Association; it shall decide on the admission of new adhering national Organization and of the new affiliate member.

The General Assembly is host by a Member Nation at the occasion of the yearly World Tunnel Congress.





## INTERNATIONAL CONFERENCE VENUE

### HOLIDAY INN BANDUNG PASTEUR - Pasteur Convention Centre

The Luxurious and Largest Convention Centre is exquisitely pillarless suitable for your prestigious event. Equipped with the latest technology features LED screen and digital sound system. Feel the high-end conference and meeting in-style experience. This Luxury hotel offers the Convention Centre with capacity of up to 2000 persons, suiting all needs for a professional conference set up.

Jalan Dr. Djunjunan 96 Pasteur Bandung 40162, Indonesia

Web : <https://bandungpasteur.holidayinn.com/>



## ABOUT BANDUNG –THE HOST CITY

Bandung is provincial capital of West Java, Indonesia. Located at main island of Indonesia, the Java Island on a highland plateau 768 meters above sea level, at 6° 54'53.08"S 107°36 and 35.32"E. Bandung is surrounded by mountains and located in the middle of prehistoric lake, has nice weather with temperature 18 - 24°C and many attractions including Tangkuban Perahu (active volcano), hot spring at Ciater, local and traditional cultures. Some itineraries for visit will be arranged for the participants and the accompany persons.

It is so hard to find a word to describe Bandung. Bandung is a cuisine's heaven, shopping's paradise, city of struggle, nature tourism, offices complex and a place where cultures are mixed. In the past, Europeans called Bandung as Paris van Java and Flower City due to the advancement of fashion and various exotic flowers in the surrounding area.



**Tangkuban Perahu**



**Kawah Putih**

## HOW TO GET TO BANDUNG

Bandung is located in central highlands of West Java, approximately 120 km to the south-east of Jakarta, the Capital of Indonesia. As the capital of West Java Province, here are some easiest options to get to Bandung :

### By Air :

There are 2 nearest airports near Bandung, Soekarno-Hatta International Airport Jakarta and Kertajati International Airport, Majalengka, West Java. From Soekarno-Hatta International Airport Jakarta then continue with minivan or buses which approximately takes 3-4 hours to Bandung.

### By land:

For land transport option, many way are available. Buses, trains, or by car. By land you can reach Bandung within 3 hours (estimated by 150 km direct highway) or faster from Jakarta. The conference venue is located near the toll gate of Pasteur, Bandung.

If you depart from the major cities in Java like Jakarta, Semarang, Yogyakarta, Surabaya and prefer to enjoy the beautiful view of West Java Mountains and paddy fields, travel with train can be the best option to get to Bandung.

### By High Speed Train (WHOOSH) :

Whoosh (the official name of the railway service) travels from Jakarta to Bandung in 30 minutes. Whoosh runs its 142 km journey with a maximum speed of 351 km/h. For now, the train stops at Jakarta station of Halim and Bandung station of Padalarang (+30 min). It's worth noting that Whoosh doesn't stop at Bandung's city center. But worry not, all tickets to Padalarang include a free feeder train ticket to Bandung Raya Station which is only 15 minutes by car to the conference venue.



## CONTACT US

For more information please contact us :

CORRESPONDANCE

**Aswin Lim, Ph.D** — Universitas Katolik Parahyangan

Jl. Ciumbuleuit 94, Bandung, West Java, Indonesia

email : [tunnel.conference2024@gmail.com](mailto:tunnel.conference2024@gmail.com)

Web : [www.tunnel2024.com](http://www.tunnel2024.com)

## ORGANIZER :

