

PRE CONFERENCE WORKSHOP AND WELCOME DINNER

October 2, 2024

Venue : Pasteur Convention Centre - Holiday Inn Pasteur Bandung - Jl. Dr. Djunjunan 96 Pasteur Bandung 40162, Indonesia

TIME	AGENDA	
08.30 - 17.00	Registration for Pre Conference Workshop	
09.00 - 10.00	SESSION 1 : Case Histories on Construction Failures in Tunneling Works and Problems on Ventilation and Fire Safety <i>Speaker : Prof. Arnold Dix - President of ITA-AITES</i>	
10.00 - 10.30	Morning Break	
10.30 - 15.30	ROOM : Pasteur Convention Centre 3	ROOM : Pasteur Convention Centre 2
	Workshop Theme 1 : ROCK TUNNELING	Workshop Theme 2 : SOFT GROUND TUNNELING
10.30 - 11.30	SESSION 2a : The Importance of Geological Preinvestigations on Tunneling and Underground Projects <i>Speaker : Sindre Log - SINTEF Community, Norway; Executive Council of ITA</i>	10.30 - 11.10 SESSION 2b : Deep Excavation Design and Construction in Soft Ground <i>Speaker : Dr. Thayanan Boonyarak - King Mongkut's Institute of Technology Ladkrabang, Thailand</i>
	11.30 - 12.30	SESSION 3a : Rockmass Classification for Tunneling; Design and Construction <i>Speaker : Prof. Dr. Ir. Ridho Kresna Wattimena - Institute Teknologi Bandung</i>
		11.50 - 12.30 SESSION 4b : Three-Dimensional Numerical Study of Long-Term Settlement Induced in Shield Tunneling <i>Speaker : Dr. Aswin Lim - Universitas Katolik Parahyangan</i>
12.30 - 13.30	Lunch Break	
13.30 - 14.10	SESSION 4a : Failure Mechanism of Tunnel Excavation in Jointed and Crushed Rock <i>Speaker : Prof. Ir. Paulus Pramono Rahardjo - Universitas Katolik Parahyangan</i>	SESSION 5b : Overview of Deep Excavation Works in Yangon and Bangkok <i>Speaker : Zaw Zaw Aye - Seafco Public Company Limited, Thailand</i>
	SESSION 5a : Rock Load and Support System for Rock Tunnel <i>Speaker : Dr. Simon Heru Prasetyo - Institut Teknologi Bandung</i>	SESSION 6b : Design and Construction of Station (Cut & Cover). TBM Tunnel, and Box Jacking Tunnel <i>Speaker : Mr. Kenichi Ito - Jakarta MRT Project, Shimizu Adhi Karya Joint Venture</i>
14.50 - 15.30		
15.30 - 16.00	Afternoon Break	
16.00 - 17.00	SESSION 7 : Trends in Effective Practice on Standards and Contract in Tunneling Works <i>Speaker : Prof. Arnold Dix - President of ITA-AITES</i>	
18.00 - 21.00	WELCOME DINNER - Welcome Dinner - Entertainment	

TIME	AGENDA	ROOM
08:00 - 16:00	Registration Open	Registration Area
08:30 - 09:30	Opening Ceremony	Pasteur Convention Centre (PCC)
08:30 - 08:32	Greetings	
08:32 - 08:38	National Anthem of Indonesia and Malaysia, Hymne UNPAR	
08:38 - 08:41	1. Conference Chair of TUNNEL 2024, Prof. Ir. Paulus P. Rahardjo, Ph.D	
08:41 - 08:44	2. Conference Co-Chair of TUNNEL 2024, Prof. Ramli Nazir	
08:44 - 08:47	3. President of ITA-AITES , Prof. Arnold Dix	
08:47 - 08:53	Entertainment - <i>Rampak Kendang Dance</i>	
08:53 - 08:56	4. President of HATTI, Prof. Ir. Widjojo Adi Prakoso, M.Sc., Ph.D	
08:56 - 08:59	5. President of HAKI, Prof. Dr. Ir. Iswandi Imran, M.Asc., Ph.D.	
08:59 - 09:02	6. President of MGTI, Dr. Yan Ardiansyah	
09:02 - 09:05	7. President of IRMS, Prof. Dr. Ir. Ridho Kresna Wattimena	
09:05 - 09:14	Entertainment - <i>Saman Dance</i>	
09:14 - 09:17	8. President of Indonesian Road Development Association (HPJI) - Dr. Ir. Hedy Rahadian, M.Sc	
09:17 - 09:20	9. Construction Director of Jakarta MRT, Ir. Weni Maulina	
09:20 - 09:23	10. Ministry of Public Works and Housing Representative, Ir. Rachman Arief Dienaputra M.Eng.	
09:23 - 09:26	11. Rector, Universitas Katolik Parahyangan, Prof. Tri Basuki Joewono. Ph.D	
09:26 - 09:30	Hit Kendang as Sign of Opening	
09:30 - 10:05	PLENARY SESSION I Chairman : Prof. Ir. Paulus P. Rahardjo, Ph.D	Pasteur Convention Centre (PCC)
09:30 - 10:00	Keynote Lecture 1 : Forensic Investigations and Legal Aspects of Tunnelling Construction Failures Speaker : Prof. Arnold Dix - President of ITA-AITES	
10:00 - 10:03	Conclusion by Chairman	
10:03 - 10:05	Appreciation to Speaker and Chairman	
10:05 - 10:35	Morning Break	Foyer PCC
10:35 - 12:15	PLENARY SESSION II Chairman : Prof. Ir. Dr. Azman bin Kassim	Pasteur Convention Centre (PCC)
10:35 - 11:05	Keynote Lecture 2 : Tunneling for Sustainable Infrastructure in Indonesia Speaker : Dr Ir Hedy Rahadian, M.Sc - President of HPJI	
11:05 - 11:35	Keynote Lecture 3 : Review of Tunnel-Related Standards and Guides in Indonesia Speaker : Prof. Widjojo A. Prakoso - President of HATTI, University of Indonesia	
11:35 - 12:05	Keynote Lecture 4 : Indonesian Guideline for Engineering Geological Investigation of Road Tunnel Development Speaker : Assoc. Prof Imam Sadisun - Past President of MGTI, Institut Teknologi Bandung, Indonesia	
12:05 - 12:10	Conclusion by Chairman	
12:10 - 12:15	Appreciation to Speaker and Chairman	
12:15 - 13:15	Lunch	Foyer PCC
13:15 - 14:55	PLENARY SESSION III Chairman : Prof. Widjojo A. Prakoso	Pasteur Convention Centre (PCC)
13:15 - 13:45	Keynote Lecture 5 : Urban Tunnelling for Sustainable Development Speaker : Prof. Jinxiu (Jenny) Yan - ITA Past President, Chief Expert of China Railway Academy Co., Ltd	
13:45 - 14:15	Keynote Lecture 6 : Field Monitoring and Numerical Modeling of Blast-Induced Ground Vibrations for the Jakarta-Bandung High-Speed Railway Tunnel #11 Speaker : Dr. Simon Heru Prassetyo - Representative of IRMS, Institut Teknologi Bandung, Indonesia	
14:15 - 14:45	Keynote Lecture 7 : Challenges in Diaphragm Wall Design and Construction of Deep Underground MRT Stations in Congestive Urban Areas of Bangkok Speaker : Zaw Zaw Aye - Seafco Public Company Limited, Bangkok	
14:45 - 14:50	Conclusion by Chairman	
14:50 - 14:55	Appreciation to Speakers and Chairman	
14:55 - 15:25	Afternoon Break	Foyer PCC
15:25 - 17:05	PLENARY SESSION IV Chairman : Prof. Caroline Sutandi	Pasteur Convention Centre (PCC)
15:25 - 15:55	Keynote Lecture 8 : Seismic Structural Design of Underground Structures Speaker : Prof Ir. Iswandi Imran, Ph.D - President of HAKI	
15:55 - 16:25	Keynote Lecture 9 : Tunnel Defect Assessment using 3D-Point Cloud Speaker : Assoc. Prof. Ir. Dr. Rini Asnida Abdullah - Universiti Teknologi Malaysia Deputy Chairman of Tunnelling and Underground Space Technical Division, Institute of Engineers Malaysia (IEM)	
16:25 - 16:55	Keynote Lecture 10 : Overcoming Complexities in Underground Construction for the Development of Jakarta MRT Speaker : Ir. Weni Maulina - Construction Director of Jakarta MRT—Indonesia	
16:55 - 17:00	Conclusion by Chairman	
17:00 - 17:05	Appreciation to Speakers and Chairman	
18:00 - 18:20	Presentation from Platinum Sponsor	Pasteur Convention Centre (PCC)
18:20 - 20:45	GALA DINNER - Gala Dinner - Entertainment	

International Conference on “TUNNELING AND UNDERGROUND SPACE FOR SUSTAINABLE DEVELOPMENT” (TUNNEL 2024)

Friday, October 4, 2024

Venue : Pasteur Convention Centre, Holiday Inn Pasteur Bandung, Jl. Dr. Djunjunan 96 Pasteur Bandung 40162, Indonesia

TIME	AGENDA		ROOM
08:00 - 16:00	Registration Open		Registration Area
08:30 - 10:00	TECHNICAL SESSION 1		
	TS 1A	Geology, Geotechnical Investigation, and Rock Tunneling	PCC 1
	TS 1B	Soft Ground Tunneling	PCC 2
	TS 1C	Water Pressure in Tunneling	PCC 3
10:00 - 10:30	Morning Break		Foyer PCC
10:30 - 12:00	TECHNICAL SESSION 2		
	TS 2A	Modelling, Tunnel Analysis, and Monitoring	PCC 1
	TS 2B	Innovation in Tunneling	PCC 2
	TS 2C	MRT Jakarta Special Session & Technical Site Visit Briefing	PCC 3
12:00 - 13:30	Lunch		Foyer PCC
13:30 - 15:05	PLENARY SESSION V		Pasteur Convention Centre (PCC)
	Chairman : Prof. Dr. Ir. Ridho Kresna Wattimena		
13:30 - 14:00	Keynote Lecture 11	Review of Challenges in TBM Performance Prediction	
		Speaker : <i>Dr. Jamal Rostami - Colorado School of Mines, USA</i>	
14:00 - 14:30	Keynote Lecture 12	Construction of Mountain Tunnels and Rock Caverns in Japan, Indonesia, and Malaysia	
		Speaker : <i>Hiroyuki Hirano, Ph.D - General Manager of Tunneling and Underground Space Engineering Dept of Shimizu Corporation, Japan</i>	
14:30 - 15:00	Keynote Lecture 13	Support System for Tunneling in Volcanic Region, Case Study Cisumdawu Toll Road	
		Speaker : <i>Prof Ir. Paulus P. Rahardjo - Universitas Katolik Parahyangan</i>	
15:00 - 15:03	Conclusion by Chairman		
15:03 - 15:05	Appreciation to Speakers and Chairman		
15:05 - 15:35	Afternoon Break		Foyer PCC
15:35 - 17:10	PLENARY SESSION VI		Pasteur Convention Centre (PCC)
	Chairman : Prof. Ramli Nazir		
15:35 - 16:05	Keynote Lecture 14	Possible Contract Forms for Infrastructure Projects	
		Speaker : <i>Klaus Rieker, Ph.D. - Wayss & Freytag Ingenieurbau AG, Germany – ITA ExCo Member—President of German Tunnelling Committee (DAUB)</i>	
16:05 - 16:35	Keynote Lecture 15	Small Hydro Power Projects – Experiences and Lessons Learned from Norway	
		Speaker : <i>Sindre Log - Research Manager - Rock and Soil Mechanics, SINTEF Community, Norway – Executive Council of ITA</i>	
16:35 - 17:05	Keynote Lecture 16	Solutions for Tunnel Waterproofing (Pre-Excavation Grouting, Sheet and Sprayed Membrane/Sandwich Systems, Ground Consolidation: PUR and PUS Systems)	
		Speaker : <i>Nick Chitteden - Global Market Manager Tunneling & Mining , Sika Services AG—Dubai UEA</i>	
17:05 - 17:08	Conclusion by Chairman		
17:08 - 17:10	Appreciation to Speakers and Chairman		
17:10 - 18:00	CLOSING CEREMONY :		Pasteur Convention Centre (PCC)
	Conclusion Summary from Prof. Arnold Dix		
	Doorprize		
	Closing Remark from Prof. Paulus P. Rahardjo		

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TIME	AGENDA	
08:30 - 10:00	<p align="center">TS 1A : Geology, Geotechnical Investigation, and Rock Tunneling</p> <p align="center">PCC 1</p> <p align="center">Chairman : Assoc. Prof. Imam Sadisun</p>	
	SPECIAL LECTURE	
08:30 - 08:50	GROUND CONTROLS MANAGEMENT PLAN IN TUNNEL CONSTRUCTION	Era Setiawan
08:50 - 09:02	MEASUREMENTS OF MUON COUNTS IN THE GROUND ABOVE A TUNNEL BY USING COMPACT COSMIC RAY MUON DETECTORS	Satoshi Goto , Tadashi Gotoh , Shunji Obata
09:02 - 09:14	INVESTIGATION OF ENGINEERING GEOLOGY AROUND CISUMDAWU TWIN TUNNEL, SUMEDANG, INDONESIA	Dicky Muslim , M S Sadewo, G O Muslim, Nurkhoirullah, Irvan Sophian, Zufaldi Zakaria
09:14 - 09:26	A QUANTITATIVE CORRELATION BETWEEN ROCK MASS RATING (RMR), GEOLOGICAL STRENGTH INDEX (GSI), AND Q-SYSTEM BASED ON SUB-SURFACE INVESTIGATION DATA IN TUNNEL 2 BINTANG BANO IRRIGATION AREA, WEST SUMBAWA, WEST NUSA TENGGARA PROVINCE	Fitri Suryani , I Gde Budi Indrawan, Nugroho Imam Setiawan
09:26 - 09:38	STUDY OF INDUCED STRESS CHANGES EFFECT DUE TO CAVING ON TUNNEL DEFORMATION IN DMLZ UNDERGROUND MINE	Rian Mahabrata , Budi Sulistianto, Ganda Simangunsong, Tri Karian, Meiharriko, Sandi Firmanulhaq
09:38 - 09:50	ON THE UNDRAINED ANALYSIS OF JOINT ROCK MASS (JRM) STUDY: INTRODUCE TO NEW METHOD OF TUNNEL SUPPORT DESIGN WITH FINITE ELEMENT ANALYSIS	Wilham G. Louhenapessy , Paul Jason T. S. En
09:50 - 10:00	Discussion	
	Appreciation to Chairman	
10:00 - 10:30	Morning Break	
10:30 - 12:00	<p align="center">TS 2A : Modelling, Tunnel Analysis, and Monitoring</p> <p align="center">PCC 1</p> <p align="center">Chairman : Dr. Dayang Zulaika binti Abang Hasbollah</p>	
10:30 - 10:42	INSTRUMENTATION MONITORING OF REHABILITY WORK FOR THE COLLAPSED WATER TUNNEL STRUCTURE IN NORTH MALAYSIA USING DISTRIBUTED FIBRE OPTIC SENSING TECHNOLOGY	Hidayah Mahadi , Bin Pin Tee, Mun Fai Chong, Hisham Mohamad, Koh An Ang
10:42 - 10:54	COMPARISON OF 2D AND 3D TUNNEL MODELING METHODS ON GROUND SURFACE SETTLEMENTS	Yuamar Imarrazan Basarah , Antasya Lunaristri Murtiwardani, Masyhur Irsyam, Dayu Apoji.
10:54 - 11:06	STRUCTURAL ANALYSIS ON SEGMENTAL LINING TUNNELS : A COMPARATIVE STUDY OF ANALYTICAL AND NUMERICAL METHODS	Aris Aryanto , Yuamar I. Basarah, Fikri B. Noor
11:06 - 11:18	RESEARCH ON FRICTIONAL BEHAVIOR OF GROUTED SOIL AND DIAPHRAGM WALL TO MITIGATE UPLIFT ON JAKARTA MRT THAMRIN STATION USING FIBRE OPTIC INSTRUMENT	Stefanus Diaz Alvi , Paulus P. Rahardjo, Kevin Lie, Kenichi Ito, Masrur A.H. Ghani, Irawan Tani
11:18 - 11:30	CORNER EFFECT ON THE DEFORMATION AND FORCES OF DEEP EXCAVATION IN JAKARTA MRT MONAS STATION	Mikael Rafael , Paulus P. Rahardjo, Aswin Lim
11:30 - 11:42	INVESTIGATION OF THE DEFORMATION AND MOVEMENT OF LARGE DIVERSION RIVER BOX TUNNEL UNDER HIGH EMBANKMENT	Davy Sukamta, Paulus P. Rahardjo, Kevin Lie , Stefanus Diaz Alvi, Delaneira P. Seourin
11:42 - 11:54	RISK MANAGEMENT FOR THE TUNNEL PROJECT ON THE PAYAKUMBUH - PANGKALAN TOLL ROAD DEVELOPMENT, INDONESIA	Edwin Hidayat , Muhammad Rizaldi Nuraulia, Dedy Gunawan, Fahmi Aldiamar
11:54 - 12:00	Discussion	
	Appreciation to Chairman	
12:00 - 13:30	Lunch	

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TIME	AGENDA	
08:30 - 10:00	<p align="center">TS 1B : Soft Ground Tunneling PCC 2 Chairman : Dr. Nurindahsih Setionegoro</p>	
	SPECIAL LECTURE	
08:30 - 08:50	PERFORMANCE OF CROSS AND BUTTRESS WALLS TO CONTROL WALL DEFLECTION INDUCED BY DEEP EXCAVATION IN DENSE URBAN AREA	<i>Aswin Lim, Chang Yu Ou</i>
08:50 - 09:10	SUSTAINABILITY IN DEEP EXCAVATION IN SOFT CLAY	<i>Thayanan Boonyarak, Zaw Zaw Aye, and Aye Yadana Aung</i>
09:10 - 09:22	EVALUATION OF PSEUDO-STATIC METHODS ON THE SEISMIC RESPONSE OF UNDERGROUND STRUCTURE AT MRT STATIONS IN JAKARTA	<i>Yuamar Imarrazan Basarah, Mirna Dwi Lestari Salamah, Masyhur Irsyam</i>
09:22 - 09:34	SOFT GROUND TUNNELING DESIGN & CONSTRUCTION CONSIDERATIONS	<i>Gouw Tjie Liong</i>
09:34 - 09:46	INVESTIGATION INTO PERFORMANCE OF DEEP EXCAVATION IN LOOSE SAND GROUND: A CASE REPORT	<i>Ardy Arsyad, Irwan</i>
09:46 - 10:00	Discussion	
	Appreciation to Chairman	
10:00 - 10:30	Morning Break	
10:30 - 12:00	<p align="center">TS 2B : Innovation in Tunneling PCC 2 Chairman : Dr. Aksan Kawanda</p>	
	SPECIAL LECTURE	
10:30 - 10:50	OPTIMIZING TUNNEL CONSTRUCTION WITH THE JACKING METHOD: COST-EFFECTIVE, SAFE, AND TRAFFIC-FRIENDLY	<i>Ahmad Yunaldi, Yudha Trimuliadi Suryana</i>
10:50 - 11:10	HOLISTIC APPROACH OF SPRAYED CONCRETE	<i>Aryanto Wibowo</i>
11:10 - 11:22	COMPREHENSIVE OPTIMIZATION AND QUALITY CONTROL IN FIBRE CONCRETE PRECAST TUNNEL SEGMENT : A CASE STUDY ON LARGE DIAMETER TUNNEL SEGMENT PRODUCTION IN SINGAPORE	<i>Mariappan Vimal Kumar, Cheng Chian Gan</i>
11:22 - 11:34	TUAS WATER RECLAMATION PLANT PIPELINE CONTRACT C1 (TWRPPL-C1) - DEVELOPING A LOW-CARBON FIBRE CONCRETE PRECAST SEGMENTAL LINING MIX DESIGN FOR SINGAPORE'S FIRST FIBRE CONCRETE SUBSEA TUNNEL	<i>Gan Cheng Chian, Sofren Leo Suhaendi, Chalermdech Wattanakijyinyong & Charles Dickson</i>
11:34 - 11:46	SHOTCRETE APPLICATION OPTIMIZATION IN RAILWAY TUNNEL PROJECT BY UTILIZING GEOTECH MONITORING LIDAR (GML)	<i>Dwi Prio Utomo, Agil Athallah, Rahardian Dwitya, Rachmat Hamid Musa, Hinal Gajbhiye, Nisar Khan</i>
11:46 - 12:00	Discussion	
	Appreciation to Chairman	
12:00 - 13:30	Lunch	

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	SPECIAL LECTURE	
08:30 - 08:50	PARAMETRIC STUDY FOR WATER PRESSURE EFFECT ON STABILITY OF MEGA TUNNEL IN HIMALAYAN REGION	<i>Shilpa Deshpande , Namdeo Hedao</i>
08:50 - 09:02	MUD PUMPING PHENOMENON ALONG RAILWAY IN TUNNELS	<i>Chihping Kuo, Chihming Liao, Kairui He, Raihan Valentino Jaya Saputra, Wahyu Arif Setiaji, Meichun Liu</i>
09:02 - 09:14	SUSTAINABLE URBAN STORM WATER MANAGEMENT USING ECO MODULE A GREEN, ECO-FRIENDLY UNDERGROUND SPACE STRUCTURE	<i>Neo Boon Khneg</i>
09:14 - 09:26	EVALUATION OF SOIL DEFORMATION DUE TO COMPLEX CONSTRUCTION OF DEEP EXCAVATION AND MICROTUNNELING TO REPAIR UNDERGROUND PIPE LEAKAGE	<i>Indra Noer Hamdhan, Rinaldi Alamsyah</i>
09:26 - 09:38	CASING DRILLING PIPE ROOF APPLICATION FOR TUNNEL IN INDONESIA	<i>Suwardi , Gregorio Oktaviano, Rivan Nur Aziz Pratama, Daniel Septian Morangin</i>
09:38 - 09:50	DESIGN CRITERIA FOR RECHARGE WELLS IN DEWATERING PROJECT OF UNDERGROUND STATIONS IN CENTRAL JAKARTA	<i>Hirundini Rustica Absari , Imam Achmad Sadisun, Lilik Eko Widodo</i>
09:50 - 10:00	Discussion	
	Appreciation to Chairman	
10:00 - 10:30	Morning Break	
10:30 - 12:00	TS 2C : MRT Jakarta Special Session & Technical Site Visit Briefing	
	PCC 3 Chairman : Dr. Aswin Lim	
10:30 - 11:30	MRT JAKARTA CP 203 PROJECT (CHALLENGES IN CONSTRUCTION AND INNOVATION)	<i>Srisadewo Fauzi</i>
11:30 - 11:50	Discussion	
	Appreciation to Chairman	
11:50 - 12:00	Technical Site Visit Briefing	<i>by committee</i>

Technical Site Visit "MRT Jakarta CP 203"
Saturday, 5 October 2024

TIME	AGENDA
06:00 - 06:30	Participant gathering @Holiday Inn Hotel
06:30 - 09:30	Trip from Bandung to Jakarta by Bus
09:30 - 10:00	Safety Briefing
10:00 - 12:00	Site Visit to MRT Jakarta CPT 203 Project
12:00 - 15:30	Trip from Jakarta to Bandung by Bus