2 & 1/2 days- Joint Seminar –B2B Meetings–

Malaysia and China – Opportunities and Collaborations in Trenchless and Tunnel Technology

Date: 2nd– 4th November 2017

Time: 8:30am – 6:00pm

Venue: Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur, Malaysia

Organized by:

Malaysian Society for Trenchless and Tunnelling Technology

China Societyfor Trenchless Technology

Indian Society for Trenchless Technology

Singapore Society for Trenchless Technology

Supporting Organizations:

Master Builders Association Malaysia

Institution of Engineers Malaysia

Federation of Chinese Association Malaysia (Huazhong)

Technological Association of Malaysia

Malaysian Heavy Construction Equipment Owners Association

Malaysia-China Chamber of Commerce

MALAYSIAN SOCIETY FOR TRENCHLESS AND TUNNELING TECHNOLOGY

Address: President, Cawangan Pembetungan, Jabatan Kerja Raya Ibu Pejabat, Jalan Sembulan, 88582 Kota Kinabalu, Sabah, Malaysia.

Email: msttt168@gmail.com

Tel: 016-458 4788 (Whatsapp)

088-244333, Fax: 088-234377

President : Ir.Hj Yahiya Ag. Kahar , Hon Secretary: Ir Dr Hisham Mohamad

Patron: YAB Datuk Wilfred Madius Tangau (Minister of Science, Technology and Innovation, MOSTI)

Kuala Lumpur *Correspondence Address -- MSTTT(KL) Secretariat :*

T1-09-05, Tower 1, 8trium, SD12/5,
Persiaran Cempaka, Bandar Sri Damansara,
52200 Kuala Lumpur, Selangor, Malaysia (msttt168@gmail.com)

PREFACE

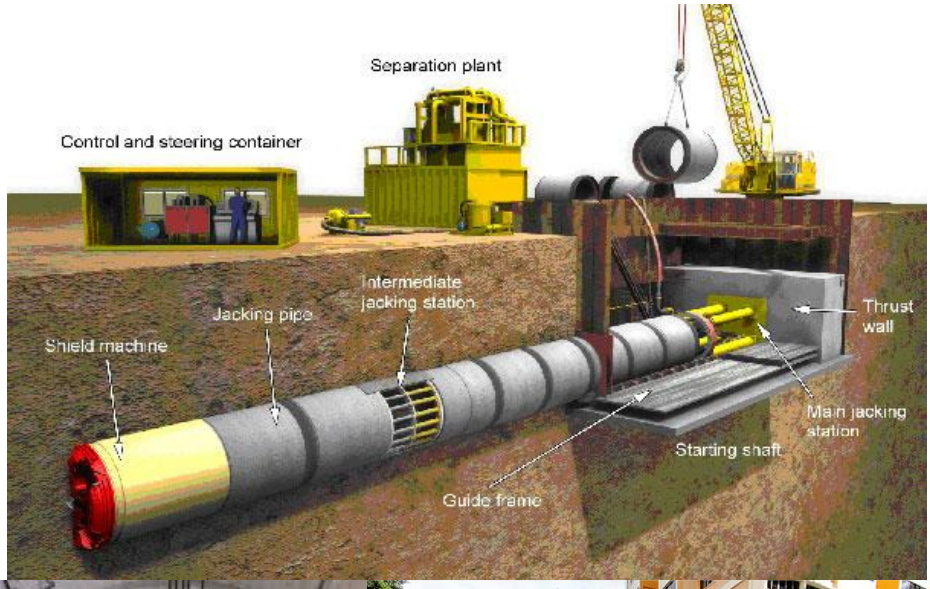
Welcome to the Joint Seminar and B2B event **"Malaysia and China – Opportunities and Collaborations in Trenchless and Tunnel Technology"**.

The seminar, jointly organized by the Malaysian Society for Trenchless and Tunnelling Technology (MSTTT) and China Society for Trenchless Technology (CSTT), aims to enable corporations and professionals from both countries to explore areas of mutual collaborations, technology exchange, and developments. It follows the Memorandum of Understanding that was signed between the two organizations in May 2017 at the 2nd Annual General Meeting held in Kota Kinabalu, Malaysia. The seminar is co-organized with the Indian Society for Trenchless Technology (IndSTT) and Singapore Society for Trenchless Technology (SgSTT).

The basis of the seminar is in the form of B2B (Business-to-Business), and provide ample opportunities for the MSTTT, CSTT, and other organizations to exchange interest, technical seminar presentations and business opportunities, to show case areas of competence, and explore mutually beneficial collaborations, interment opportunities, as well as educational and research and development initiatives.

Visitors of the seminar include:

- Government officials and decision makers
- Professionals, technicians, business owners, educators and students
- Members of MSTTT, CSTT, IndSTT, and SgSTT
- Members from business communities, such as members and associates of the Master Builders Association Malaysia (MBA) and Malaysia Heavy Construction Equipment Owners Association.
- More than 4000 potential buyers of One Build Exhibition



TRENCHLESS DEVELOPMENT CONDITIONS

MALAYSIA	CHINA
Malaysia's infrastructure is well-developed in recent years. Typically, roads, railways and ports are well maintained and the government continues to provide investment to meet the growing demand for infrastructure. Growth in Malaysia's construction sector is 7.8% in2016 and 6.6% in2 017. In 2017 budget allocation forinfrastructure and construction accounts for at least MYR (RM) 46 Billion (USD 10.8 Billion) and it remains expansionary and will support construction sector's rapid growth. The Trenchless and Tunnel Construction Technologies have already been widely used in municipal pipeline and other construction, since it was firstwidely introduced to Malaysia since1995 when in Jln Ampang , the first microtunnling project was initiated under IWK . With the urbanization development, new encouragingpolicies for green technology and infrastructure investment, the application of Tunnel and Trenchless technology will be gradually expanded in Malaysia in the future.	Pipe jacking technology is the earliest trenchless technology used in China, mainly used to the laying of large-diameter pipelines (1,000~3,000 mm) and reconstruction works of urban high-voltage overhead cables. Now, great development and technologies already been applied to the construction, such as intermediate jacking station, thyrotrophic slurry technology, automatic measurement and rectification technology, earth pressure balance and slurry balance technology. The diameter of jacking pipes ranges from 800 mm to 4,000 mm, jacking distance can reach thousands of meters, and it is possible to construct in water-bearing strata, as well as Heteromorphy Pipe jacking Machine like rectangular pipe jacking machine already been widely applied in municipal construction projects. Horizontal directional drilling is the most widely used trenchless construction technology for municipal pipeline construction projects in China, from various materials (steel/Plastics) to pipelines (pressure pipelines, communication and power cables). In last decade, about 6,000 km of pipelines were completed through trenchless technology each year, and the majority of small-diameter pipelines laid by the horizontal directional drilling construction technology, around 5,000 km per year.(statistics not include data of towns and villages in China; not include the data of telecommunication, broadcast, internet power supply network) UV Cured-In-Place-Pipe technology was introduced from Japan/Germany to China, and now already been widely used in pipeline rehabilitation fields in East and North China Regions in last year's. In 2016, the tremendously expansion occurs in CIPP appliance in trenchless construction projects in China. Guanli Environment Technology imported the CIPP technology and equipment of Reline(German) in Shanghai, Henan Zhongtuo developed the CIPP technology independently, Saertex(German), Pro-liner(USA) and Beijing Pro-liner already produce the UV-CIPP equipment and slip-lining in China for years.

SECTION A: INDEX

Section	Contents	Page
	Preface	i
A	**Index**	1
B	**Organizers**	2
C	**Seminar Programme**	4
D	**Registration Information**	6
E	**Speaker Details**	8
F	**Organisers**	
	• **Malaysian Society for Trenchless and Tunnelling Technology (MSTTT)**	13
	• **China Society for Trenchless Technology (CSTT)**	13
	• **Indian Society for Trenchless Technology (IndSTT)**	14
	• **Singapore Society for Trenchless Technology (SgSTT)**	14
	Sponsors	
	ANNEX A-sponsorship details	15
G	**Gold Sponsor**	
	• **ICOP Construction (M) Sdn. Bhd.**	16
H	**Silver Sponsors**	
	• **Puncak Niaga Holdings Berhad**	17
	• **O Liner Technology (M) Sdn. Bhd.**	18
I	**Post-Seminar Tour Details**	19

SECTION B: ORGANIZERS

ORGANIZERS

Malaysian Society for Trenchless and Tunnelling Technology

China SocietyFor Trenchless Technology

Indian Society for Trenchless Technology

Singapore Society for Trenchless Technology

Supporting Organizations

Master Builders Association Malaysia

Institution of Engineers Malaysia

Technological Association of Malaysia

Malaysian Heavy Construction Equipment Owners Association

The Federation of Chinese Association Malaysia (Huazong)

Malaysia – China Chamber of Commerce

ORGANIZING COMMITTEE

Chairman	Assoc. Prof. Ir. Dr. Hisham Mohamad
Vice-Chairman	Ir. Cheng Kim Hua
Secretary	Ir. Ahmad Shukri A Rashid
Treasurer	Dato Cheng Chin Keong
Editor	Dr. Choo Chung Siung
Logistics	Ngai Chee Keung / Mr. Chong Chin Meow
Exhibition/Sponsorship	Chow Chun Chiew / Chow Lai Hing
Committee Members	Ooi Kah Biew Aizuddin Che Jusoh E. Parthiban Ms Sun MM Dennis Tan Dr .Richard Ng Jesu Dass Ir. Yau Chau Fong

B2B MEETING REPRESENTATIVES

MBA Representative	Dennis Tan
CSTT Representative	Ms. Linda Shi
SgSTT Representative	Ms. Sun Min Min
TAM Representative	Ir. Yam Teong Xian

SECTION C: SEMINAR PROGRAMME

2ND NOVEMBER 2017, THURSDAY (1st Day of Seminar)

Start	End	Speaker – Topic
08:30	09:00	**Assoc. Prof. Ir. Dr. Hisham Mohamad** **Dato' Hj. Ir. Yahiya Ag. Kahar** **Prof. Wang Fu Ming** • *Welcoming Speech by Organising Chairman, President of MSTTT and President of CSTT*
09:00	09:30	**Datuk Wilfred Madius Tangau** **Minister of Science, Technology and Innovation** • *Opening Speech*
09:30	10:00	*Tea Break*
10:00	10:20	**Keynote Speaker 1: Prof. Wang Fu Ming** **Chairman, China Society for Trenchless Technology** *Trenchless Situation in China*
10:20	10:40	**Keynote Speaker 2: Ir. Lau Hieng Ung** **Director, Sarawak Sewerage Department** • *Sewerage Development and Trenchless Opportunities in Sarawak*
10:40	11:00	**Keynote Speaker 3:Ir Edward Lingkapo** **Assistant Principal Director/Sewerage , JKRSabah** • *Sewerage Development and Trenchless Opportunities in Sabah*
11:00	11:20	**Keynote Speaker 4: Ir. Mohamed Haniffa Abdul Hamid** **Chief Operating Officer, Indah WaterKonsortiumSdn. Bhd. (IWK)** *Sewer Maintenance and Construction in Malaysia – Sharing IWK's Challenges & Experiences*
11:20	11:40	**Keynote Speaker 5: Ir. Dennis Kong Hai Shyan** **Chairman, SgSTT** • *Singapore Trenchless Situation*
11:40	12:00	**Keynote Speaker 6: Prof. Niranjan Swarup** **Director General, Indian Society for Trenchless Technology** • *India Trenchless Situation*
12:00	12:30	*Question & Answer Session*
12:30	14:00	*Lunch*
14:00	14:30	**Ir. Cheng Kim Hua** **Project Consultant, Alliance Water & Environ Sdn. Bhd.** • *Malaysian and Southeast Asia's Trenchless Market, Developments and Areas of Collaborations, Interactions with Fellow Trenchless and Tunnel Associations in Southeast Asia and Overseas*
14:30	15:00	**Ms. Sun Min Min** **Consultant, W&M Consultants** • *Pipe Roof Rectangular Box Jacking and Long Distance Jacking, Development and Applications in Singapore, China and Southeast Asia*
15:00	15:30	**Mr. Mark Pearson** **Board Member, SgSTT** • *Rehab Development and Lessons Learnt, Singapore*
15:30	16:00	**Mr. Cheng Chin Keong** **Managing Director, ICOP Malaysia** • *Long Distance Pipe Jacking in MMC Langat Project*
16:00	16:30	*Tea Break*
16:30	17:00	**Prof. Ma Jian Xun** **Professor, Xi'an JiaoTong University** • *Development of Underground Works in Shanxi and China in General, Especially on the Concept*
17:00	17:30	*Question & Answer Session*
17:30	17:45	*Presentation of Mementos to Speakers (End of the First Day)*
19:30	21:00	*Gala Dinner*

3RDNOVEMBER 2017, FRIDAY (2nd Day of Seminar)

Start	End	Speaker – Topic
08:30	09:00	**Assoc. Prof. Ir. Dr. Hisham Mohamad** **Deputy Head, Civil & Environmental Engineering Department, University Teknologi PETRONAS, Malaysia** • *Monitoring of Tunnel and Trenchless Projects*
09:00	09:30	**Mr. Chen Zhi Long** **PLA University of Science and Technology, China** • *Present Status and Development Trends of Underground Space in Chinese Cities: Evaluation and Analysis*
09:30	10:00	**Mr. Parthiban Elangovan** **Senior Consultant, Ciwise Consultants** *Joint Collaboration – China Machine, and Malaysian and Singapore and India Technical Collaborations for the Supply and Commissioning of Pipe Jacking Machine and Lessons Learnt and Related Issues*
10: 00	10:30	*Tea Break*
10:30	11:00	**Prof. Wang Fu Ming** **Prof. Zhang Bei** **Professors, ZhengZhou University** • *Infrastructure Repairs and Hospital Development in China*
11:00	11:30	**Ir. Dennis Kong Hai Shyan** **Chairman, SgSTT** • *CCTV Inspections and Relining Singapore*
11:30	12:00	**Assoc. Prof. Ir. Dr. Dominic Ong** **Director, Swinburne Sarawak Research Centre for Sustainable Technologies** *Experience in the Implementation of Kuching Sewer, Miri, and Other Projects*
12:00	14:00	*Lunch*
14:00	14:30	**Ir. Pooba Mahalingam .** President of the Insurance Law Association, Singapore (ILAS) and a regional Consultant with "Talent Asia Training and Consulting" in the risk and insurance space. Conducting Dilapidation Surveys and Dealing with CAR Insurance Claims in Trenchless and tunnel projects.
14:30	15:00	**Mr. Dennis Tan** **Secretary-General, MBAM** • *MBA Involvement and Trainings in Research and Development and Safer and Quality of Constructions*
15:00	15:30	**Prof. Niranjan Swarup** **General Director, IndSTT** • *Situations in Indian Market and Rooms for Collaborations with Fellow Professional and Business from Non-Indian Firms*
15:30	16:15	*Question & Answer Session*
16:15	16:30	*Closing Ceremony*
19:30	21:00	*Dinner (For invited B2B participants and Organizing Committee)*

4THNOVEMBER 2017, SATURDAY

Start	End	Activity
08:30	12:00	**SITE VISIT** **Option A (Klang)** *QT-Environmental and Alliance Water & Environ* **Option B (Langgat)** *MMC-Gamuda, ICOP*
12:00	*14:00*	*Lunch*

SECTION D: REGISTRATION INFORMATION

REGISTRATION FEE (including GST 6%)

	CATEGORIES	Seminar Including tea breaks, lunch and dinner (Except for students) 2nd Nov, 2017	Attending Exhibition
1	Government, Semi-Government, Statutory Boards, University, Colleges, Schools*	RM600.00	FREE
2	Members of MSTTT, Sg STT, MBA, IEM, TAM, and ISTT*	RM600.00	FREE
3	Non-members (Excluding Students)*	RM650.00	FREE
4	Students and Graduates (Without Gala Dinner)*	RM200.00	FREE
5	Students and Graduates (With Gala Dinner)*	RM350.00	FREE
6	Sponsorship - available for companies. Please send an email to msttt168@gmail.com, we will contact you . Please see Annex A		
6 a	Sponsor (GOLD)- FREE (6 persons)	RM 6,000.00	FREE
6 b	Sponsor (SILVER)- FREE (4 persons)	RM 4,000.00	FREE
6 c	Sponsor (Bronze)- FREE (2 persons)	RM 2,000.00	FREE

**10% discount for 5 or more participants*

POST-SEMINAR TOUR

	CATEGORIES	PRICE	
		SINGLE ROOM	TWIN-SHARING ROOM
A	**OPTION A –BELUM FOREST RESORT** • 4 days 3 nights • Kuala Lumpur – Ipoh – Belum Forest Resort • Single room (**A1**) or Twin-sharing room (**A2**) • Return Trip: – **Depart** from Kuala Lumpur **(Saturday, 4th Nov 2017, 12:30pm)** – **Return** to Kuala Lumpur **(Tuesday, 7th Nov 2017, 2:00pm)**	RM1,000.00	RM800.00
B	**OPTION B –CAMERON HIGHLAND** • 3 days 2 nights • Kuala Lumpur – Ipoh – Cameron Highland Resort • Single room (**B1**) or Twin-sharing room (**B2**) • Return Trip: – **Depart** from Kuala Lumpur **(Saturday, 4th Nov 2017, 12:30pm)** – **Return** to Kuala Lumpur **(Tuesday, 7th Nov 2017, 2:00pm)**	RM650.00	RM500.00-

REGISTRATION FORM

Seminar	Name	Designation(Mr/Mrs/etc)	PEng No. &Grade	Categories	Sub-total (RM)
S1					
S2					
S3					
S4					
Post Seminar Tour A (Ipoh – Belum Rainforest Resort)					
I-B-1					
I-B-2					
I-B-3					
I-B-4					
Post Seminar Tour B (Ipoh – Cameron Highland Resort)					
I-C -1					
I-C -2					
I-C--3					
I-C-4					
				Total (RM)	

Company:_____

Address: _____

Mobile: _____Tel (O): _____Fax: _____

E-mail: _____(Please type or write clearly as "Information Update" will be sent via email)

Contact Person: _____Designation: _____Signature: _____

Date: _____

Please complete the forms and submit to any of the following:

Email: msttt168@gmail.com
Postal : MSTTT (KL) Secretariat,
T1-09-05, Tower 1, 8trium, SD12/5,
Persiaran Cempaka, Bandar Sri Damansara,
52200 Kuala Lumpur, Selangor, Malaysia

Payment Methods

1) Bank Transfer (Please forward softcopy of payment advice)
   Account Name : Malaysian Society for Trenchless and Tunneling Technology
   Account No. : 8008210157
   Bank Name : CIMB Bank
2) Banker's cheque made payable to "Malaysian Society for Trenchless and Tunneling Technology"

For further inquiries, please contact Ir Cheng at +6011-39954759 (phone) or +6016-4584788 (WhatsApp).

TERMS AND CONDITIONS

1. First come first served on basis of receipt of paid registration.
2. Payment by cash or Cheque to guaranteed seating but subject space availability at time of registration. Submit registration by email enclosing a photocopy of the payment Cheque for reference. The organizer will confirm the registration based on space availability.
3. FULL PAYMENT must be settled before commencement of the seminar; otherwise participants will not be allowed entrance. If a place is reserved and the intended participants failed to show up, the organizer reserve the right to charge the registrant full No-Show fee to registrant. Registration fee are not refundable. Registration fee includes seminar notes and refreshments including tea breaks.
4. The Organization Committee reserved the right to cancel, alter, or change the program or cancel the event due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible to avoid disappointment.
5. Participants are advised to arrange for their own accommodation, preferably at Novotel Hotel at Jalan Kia Peng
6. The organiser reserves the right to request the attendee to show Identity Card (IC) during registration/ sign in/ sign out period.
7. Substitution of participants is allowed. However, the Certificate of Attendance will only be issued to the person attending the seminar.

SECTION E: VIP/ SPEAKER DETAILS

SPEAKERS' PROFILE

Datuk Wilfred MadiusTangau

Datuk Seri Panglima Wilfred MadiusTangau (born 13 March 1958) is a Malaysian Member of Parliament. He is currently serving as the federal Minister of Science, Technology and Innovation (2015 – present) and the Member of Parliament for Tuaran, Sabah, (1999 – 2008; 2013–present).

Dato Ir. Hj. Yahiya Ag Akhar

Ir. Yahiya is currently the drainage department Sabah director, and concurrently he held the post of IEM Sabah Chairman, and President of MSTTT.

Prof. Wang Fu Ming

Academician of CAE, Chairman of China Society for Trenchless Technology (CSTT) is Professor at ZhengZhou University, P R China, and will provide an insight into the trenchless repair of infrastructure as well as concept of infrastructure hospital

Ir. Lau Hieng Ung

Ir. Lau Hieng Ung graduated from Auckland University in Civil Engineering. He has served in the Public Works Department, Kuching North City Halland the Ministry of Urban Development and Tourism from 1985 to 2007. In July 2007, he was appointed the Director of the newly formed Sewerage Services Department. He will cover the topic of development and masterplanning of sewerage and pipe jackingprojects in Sarawak; from the view of project owners.

Ir. Edward Lingkapo

Ir. Edward Lingkapo is the Assistant Principal Director of the Sewerage Department in JKR, Sabah. After graduating, Ir. Edward Lingkapo joined Sabah Drainage and Irrigation Department from 1987-1988 and subsequently joinedSabah Forest Industry between 1988 to 1989. End of 1989, he joined Sabah Public Works Department. Ir. Lingkapo will cover the development of sewer pipe-jacking in Sabah and share the department's experience on the projects.

SPEAKERS' PROFILE

Ir. Mohamed Haniffa Abdul Hamid

Ir. Mohamed Haniffa Abdul Hamid has been Chief Operating Officer of Indah Water KonsortiumSdn. Bhd. since April 1, 2013. Mohamed Haniffa Abdul Hamid's main tasks include assisting the chief executive officer to strengthen the national sewerage's operations, especially on the technical aspects. He is a professional engineer who obtained his bachelor's and master's degrees in engineering in Glasgow, Scotland.As a former Kuala Lumpur City Hall (DBKL) scholar, Haniffa served DBKL as a municipal engineer for 13 years before joining IWK via a nationwide privatization exercise in 1994.Haniffa is also the first recipient of the prestigious British High Commissioner Award to undergo an advanced management training programme in Oxford University's Templeton College in 1997.He is well versed in the operations of sewerage services and with his strong technical background, has been able to contribute many positives towards the development of the sewerage sector in Malaysia over the last two decades.He also has played advisory roles in sewerage development in many countries abroad.Locally, he is a strong technical adviser in moving the sewerage industry forward, especially in driving new developments with proper sewerage schemes.

Ir. Dennis Kong Hai Shyan

Dennis Kong obtained his Bachelor of Science with First Class Honours in Mechanical Engineering from the University of Strathcylde in Glasgow, United Kingdom. He is currently working in O Liner Technology Pte Ltd as Managing Director, and gained numerous experiences in completing various sewerage network projects in Singapore, Malaysia, Hong Kong, Taiwan and India. Altogether, he has completed more than 300km of pipeline rehabilitation works ranging from Diameter 100mm to 1800mm He also have a lot of experience in rehabilitation of Potable Water Pipelines, Gas Pipelines and Sewerage Pumping Mains. He is the current Chairman for the Singapore Society of Trenchless Technology (SgSTT).

Prof.NiranjanSwarup

Upon graduating in civil engineering from Regional Engineering College Rourkela in 1987 Prof. NiranjanSwarup has been involved in various infrastructure development projects. The assignments handled by him have ranged from design, estimations, project planning and execution. In addition to being a Trenchless Technologist Prof. NiranjanSwarup is also a formally trained arbitrator from Singapore International Arbitration Centre and Lead Quality Assessor under ICQ project of European Council. He is currently the Board Member of various professional bodies like Engineering Council of India (ECI), International Council of Consultants (ICC) & The Council for Application of Actuarial Science in Risk Management in Construction and Allied Industries (CARM). He also represents India on the board of several international organizations like Asian Forum, Asian Concrete Construction Institute, International Council of Consultants.Prof. NiranjanSwarup is one of the prominent Trenchless Technologists recognized internationally and invited to speak at most of the important international trenchless events world over. He has, to his credit, several trenchless publications. He is the editor of No Dig India Journal and regularly contributes articles in the international trade & technical journals. He has contributed substantially for the formation of Code of Practices for installation Natural Gas Pipelines of BIS.

SPEAKERS' PROFILE

Ir. Cheng Kim Hua

Ir. Cheng Kim Huagraduated with BE (Hons) from Monash University, Australia in 1976 and obtained his post graduate diploma in Hydraulic and Land Development from Delft International Institute (Holland) in 1982. He served the Malaysian government from 1976 – 1985, and has been working with the private sector in Singapore, Malaysia, India, Thailand, and the Middle East. Ir. Cheng is a registered professional engineer in Singapore and Malaysia. He has been in the engineering/construction works since 1976, totalling to 36 years of involvement in the planning, design, and construction supervision and business development of engineering works including civil and infrastructures and trenchless structures. Ir. Cheng served as the vice president of the Institution of Engineers, Malaysia, and Board Member of the Highway Authority, Malaysia and the Board of Engineers, Malaysia. He has also served in the continuing Education committee of the PE Board, Singapore and as the Treasurer of Singapore Concrete Institute. Ir. Cheng is currently the project Director of Alliance Water & Environ Sdn Bhd. He has also just completed a report for the Ministry of Trade and Industry, as the chairman for MITI on the export potential of tunnel and trenchless industry. He has supervised over 100 km of tunnel and trenchless projects in SE Asia, Middle East, India and Vietnam. Mr. Cheng will cover the application of pipe roof for a project in Bangkok and touches on the monitoring of settlement for a sewer jacking project in Singapore.

Ms. Trisha Sun Min Min

Ms. Sun graduated from Gansu industrial university, china with bachelor degree in Civil and Structural Engineering and obtained the master degree of project management from Herriot Watt University, UK.She has accumulated valuable experiences during her over 30 years working experience in the areas of China, Singapore, South East Asia and Middle East in the building and infrastructure industry. She was once employed as a principal engineer, associate director and overseas representative in few international consultants and enterprise. She is currently a director of W&M consultants, Singapore and partner of GX trenchless Pte Ltd, Singapore. She also plays as a speaker and provides technical training in many countries such as China, Germany, Australia, India, Singapore, Malaysia and other countries in Asian.She is also a Master degree guide from Xi'an Jiao Tong University, China. Ms. Sun will explain and present case studies of various projects involving rectangular box jacking , pipe roof, and long distance jacking (largest pipe jacking project in the world).

Mr. Mark Pearson

Mr Mark Pearson is a Board Member of Singapore Society for Trenchless Technology (SgSTT) Sub-committee Chairman-Rehabilitation Standards & Specifications, a Panel Member of the First PR China National Pipeline Rehabilitation Specification (China University of Geosciences). He graduated from Leeds Metropolitan University, UK in 1983. Currently attached with RS Technik AG, Switzerland since 2009, VP - A&S Global Technologies, USA since 2015 and Applied Felts Ltd, UK since 2011.

Mr. Cheng Chin Keong

Mr Cheng Chin Keong (Danny) is currently the Managing Director of ICOP Construction (M) S/B and concurrently the Regional Manager (GCC) of ICOP S.P.A. He has over 17 years of experience in all aspects of pipe jacking and large tunnelling works, from planning to execution. He started his career in Bangkok and has been working in Australia, Southeast Asia, Middle East and Europe .He is also the finalist for the "NCE 2013 Young Tunneller" of the year held in 2013 ITA Conference, London. He has extensive experiences in Bangkok, Malaysia, Australia, Middle East and Europe. His company, ICOP S.P.A. has been operating for more than 50 years in the field of constructions, microtunnelling, and foundations

SPEAKERS' PROFILE

Prof. Ma Jian Xun

Prof Ma is Professor at the Xi'an JiaoTong University, China and has over 34 years experience in earthquake , structural aswell as infrastructureworks, and hewill cover the development of underground works in Shanxi and China in general, especially on the concept of service tunnel developments

Assoc. Prof.Ir.Dr. Hisham Mohamad

Ir. Dr. Hisham is currently an Associate Professor at UniversitiTeknologi Petronas. He was previously from UniversitiTeknologi Malaysia(UTM). He obtained his Bachelor's Degree in Civil Engineering (as best student with First Class Honours) from UniversitiTeknologi Malaysia (UTM) and later joined UTM in 2002 as a graduate Tutor. He was awarded scholarships by the Malaysian government agencies to pursue Master's degree in Soil Mechanics at Imperial College, London and Doctoral degree in Geotechnical Engineering at University of Cambridge, which he successfully completed in 2004 and 2008, respectively.Ir. Dr. Hisham specialises in the area of Geotechnical Engineering and is an expert in fibre-optic distributed sensing. Some of his notable involvements of construction monitoring projects using innovative fibre-optic sensing include monitoring tunnel deformation at London King's Cross and Singapore's Mass Rapid Transport (MRT) Circle Line. In 2013,Ir. Dr. Hisham joined Geotechnics Division, Ministry of Mobility and Public Works in Belgium for a year and was involved in monitoring construction project and ground excavation of the world's largest shipping lock in Antwerp. Ir. Dr. Hisham will explain the settlement analysis and interpretation from various case studies in Malaysia and elsewhere. Monitoring aspects will also be covered.

Mr. Chen Zhi Long

Mr Chen is a researcher with the **PLA University of Science and Technology, China.**

He has undertaken various studies and has co-authored with Mr. Jia-Yun Chen and Mr. Hong Liu, Zhi-Feng Zhang for the paper on *Present Status and Development Trends of Underground Space in Chinese Cities: Evaluation and Analysis*

The development of underground space in Chinese cities has made great progress, and the characteristics and development trends need to be re-examined. 12 indicators from categories of economy, society and underground are chosen to assess urban underground space (UUS) development.

The data of 56 representative cities at different levels in 2015 is collected, normalized, shown in radar chart. Based on sample analysis and other detailed works, four main conclusions of UUS developments in Chinese cities are put forward China is at the forefront of UUS development on aspects of UUS amount, Metro construction, underground complex construction, equipment and technologies and related industries; the development is stimulated and promoted by urban development problems has a close relationship to city character and industrial structure.

Three trends are concluded as new promoting roles in urban development in depth, new characterized development features, and increasing influence on urban forms.

Mr. ParthibanElangovan

ElangovanParthiban is a Senior Consultant with Ciwise Consultants and has 14 years of Civil Engineering Infrastructure, microtunnelling and pipe jacking experience from an Asian perspective. He is a recognised industry expert in microtunnelling equipment and operations and has supported clients across many cultural environments. Parthi's experience includes microtunnelling project design and management, geotechnical analysis and review, equipment selection and equipment manufacture management, site operations and project management, contract negotiation and litigation support.Parthi's has extensive experience with international equipment manufacturing companies and has previously managed sales, marketing and consultancy roles around the globe with emphasis on the development of worldwide markets for tunnelling, microtunnelling and other underground equipment. He is a memberof SgSTT (Singapore Society of Trenchless Technology) and is a well-known presenter at industry conferences internationally. He has also authored many leaders and articles for industry publications. Parthi brings to projects his geotechnical experience and expertise and his technical expertise in the use of soft and hard ground tunnelling and microtunnelling equipment. This includes equipment selection and specification, risk evaluation, assessment and quantification and constructability evaluation and review. As a civil & structural engineer , he is equipped with a detailed knowledge of the underground work environment and how the subsurface environment impacts potential projects and those under construction.

SPEAKERS' PROFILE

Prof. Zhang Bei

Prof. Zhang Bei is Prof at Zhengzhou Uni, and has undertaken various research works with Prof Wang FuMing , on the infrastructure hospital and trenchless repair works, as well as involved in teaching and research of numerous structural and infrastructure works . She has over 25 years experience since obtaining her PhD .

Assoc. Prof. Ir. Dr. Dominic Ong

Ir. Dr. Dominic Ong obtained his Bachelor's Degree from the University of Western Australia (UWA) and his PhD in Geotechnical Engineering from the National University of Singapore (NUS). Currently, he is an Associate Professor and Director of the Research Centre for Sustainable Technologies, Faculty of Engineering, Computing& Science, Swinburne University of Technology Sarawak Campus. He is also actively involved in geotechnical consultancy works within the local industry and previously in Singapore. Ir.Dr. Ong has particular interests in the fields of deep excavation, tunnelling, soil-structure interaction, ground improvement, field instrumentation works and finite element modelling. He currently holds the position of EXCO Member of the Association of Consulting Engineers Malaysia (ACEM) Sarawak Branch, Vice-Chairman Institution of Engineers Malaysia (IEM) Sarawak Branch and is also a Founding Member of the Malaysian Geotechnical Society (MGS). He is also an Editorial Board Member of the UK's Institution of Civil Engineer (ICE) journal, *Geotechnical Research*. Recently, he serves as Malaysia's sole representative in the International Society for Soil Mechanics & Geotechnical Engineering (ISSMGE) Technical Committees, namely, TC104 Physical Modelling and TC207 Soil-Structure Interaction & Retaining Walls. Dr. Dominic Ong will cover the application and experience of weathered rock in Kuching and lesson learnt.

Mr. Dennis Tan

Dennis Tan Soo Huang. Managing Director of Ocned Water technology Sdn Bhd. is **Secretary**-General of MBAM . He holds a Dip. Mechanical Engineering AMSE(London), and has been active in MBAM for many years .

Ir Pooba Mahalingam

Ir Pooba is a professional engineer with decades of experience in construction, insurance and loss adjusting. He is specialised in managing risk and insurance related to construction, engineering and liability. He used to work for an Insurer in Singapore and also a loss adjusting practice with regional responsibilities for over six years. Pooba was based in Christchurch, New Zealand as a member of the "CAT loss" team handling the 2011 earthquake disaster.

While in Malaysia, he was responsible for mega projects risk management and claims handling. This included the following large project risks - KLIA, KLCC, KL Tower, LRT 1 & 11, MRR2, Sprint Highway, LDP and Smart Tunnel.

Pooba is currently the President of the Insurance Law Association, Singapore (ILAS) and active insurance facilitator (trainer) with IEM, ACEM, AICLA, SCI, SCAL,BCAA and MII. He is a regional Consultant with "Talent Asia Training and Consulting" in the risk and insurance space

The presenter will share his knowledge on two main topics; The need for Pre-Con Surveys and how the CAR policy is triggered in relations to sub-surface projects.

SECTION F: ORGANISERS

MALAYSIAN SOCIETY FOR TRENCHLESS AND TUNNELLING TECHNOLOGY (MSTTT)

MSTTT

The Malaysian Society for Trenchless and Tunnelling Technology (MSTTT) is a societywhich aims to advancethe technology of related technologies in Malaysia. Its Registration was approved on 4thJuly 2016, and it heldthe1st Annual General Meeting on 15thSeptember2016. The first seminar was held in Kota Kinabalu on 14 September, 2016 with over130 participants, and the 1st workshop was heldin 15 Sept 2016.

MSTTT is now the national society that catersfor all Malaysians and interested corporations. In due course, other local chapters will be formed and activities will be organised in all major cities such as the one-and-a-half day seminar with Prof. Emeritus Ray Sterling which will be held in February 2017 in Kuching, Sarawak.

Ir. Hj. Yahiya Bin Ag. Kahar, the Drainage Director of Sabah is the current president of MSTTT. He led a team of council members from variousgovernment departments and private sectors.

The objectives of the Association are to:

- Advance the scientific knowledge and practice of tunnelling and trenchless technology for the public benefits in Malaysia and its surrounding region (Tunnel and Trenchless technology refers to the technology that services, renovates and replaces existing utilities, as well as constructing new public facilities and other underground services without or with minimal excavation of trenches. This includes the development of various underground mapping techniques, tunnelling devices and specialist machineries, materials and equipment).
- Provide and encourage education, training, and research in the field of tunnel and trenchless technology.
- Adopt and/or develop world-class standards, specifications, and guidelines for tunnelling and trenchless technology applications, services, and materials.
- Provide certifications through verifications, trainings, and testings for individuals and companies to ensure that key services, applications, and materials meet the Association's standards.
- Liaise and establish affiliations with related organisations within Malaysia, ASEAN countries and overseas.

CHINA SOCIETY FOR TRENCHLESS TECHNOLOGY (CSTT)

CSTT

CSTT was founded in 1998 and has become one Affiliated Society of international Society for Trenchless Technology. Now, CSTT is subject to Beijing Exploration Engineering Institute, Ministry of Land and Resources, RPC. CSTT is the unique society of introducing and expanding trenchless technology in the whole nation. We have founded some provincial Society for Trenchless Technology in Beijing, Shanghai and Guangdong province. Our objectives and activities are:

- To contact companies and technicians of engaging in trenchless technology, pipeline engineering and environment engineering, and organize all kinds of activities for technology exchange, academic research and information share.
- To research the system and development strategy of trenchless technology, and demonstrate the important project of trenchless technology, then recommend to relevant department to set up the project.
- To formulate the criteria of trenchless technology, and assist government to qualify the certification of the construction companies.
- To develop information resources, and provide technical consultation and services. -- To publish the comprehensive magazine, CHINA TRENCHLESS TECHNOLOGY.
- To promote the education, training, study and research in trenchless technology.
- To sponsor international and national trenchless events (conferences and exhibition), technical visits and field demonstration.

In 2008, CSTT has more than 200 company members and 15 individual members. From 1996, CSTT has organized annual exhibition and seminar of trenchless technology. From 2000, CSTT has promoted five trainings in Horizontal Directional Drilling and special seminar to educate the technicians for trenchless technology.

http://www.cstt.org/en/

INDIAN SOCIETY FOR TRENCHLESS TECHNOLOGY (IndSTT)

Indian Society for Trenchless Technology (IndSTT) is the autonomous apex organisation to promote the application of Trenchless Technology in India. It was established in 1995 and registered under SR Act of 1860 with registration number 32943 of 1998.

Founders of this Society include various luminaries from the Construction Sector. Society is formed by its members and the Membership is open to all the interested persons and organizations.

During this period of twenty two years, since its inception, IndSTT has taken up various initiatives to develop and popularize the application of Trenchless Technology in the nation. To know more about us or Trenchless Technology, visit the links.

http://www.indstt.com/

SINGAPORE SOCIETY FOR TRENCHLESS TECHNOLOGY

SgSTT is a National Society which provides and encourages education, training and research in the field of Trenchless Technology. It adopts and/or develops world class standards, specifications, and guidelines for trenchless technology applications, services, and materials. It also provides certification through verification, training and testing for individuals and companies to ensure that key services, applications and materials meet Society standards. It liaises and establishes affiliations with related organizations within Singapore, ASEAN countries and overseas. SgSTT is an affiliated member of the international Society for Trenchless Technology (ISTT).

SgSTT seeks to advance the science and practice of trenchless technology in Singapore and the region. The society provides and promotes education, training and research in the field of Trenchless Technology. It also serves as a platform for members and utilities owners to interact and exchange views on the various technologies, equipment and materials involved in this area.
In recent times, there is an increasing awareness of the advantages of Trenchless Technology over conventional methods. It has proven to be cost effective, environmentally friendly and causes minimal disruption to the public

http://www.sgstt.org.sg

SECTION G:

ANNEX A- Sponsorship details

Sponsor benefits	1) All Sponsor will be announced in Souvenir program, and seminar Handouts. Sponsors may provide own materials for inserting into Seminar bags 2) for Sponsors of Grade Gold Sponsor : • Invite to send up to 10 representatives to attend opening ceremony, • and 6 free places are allocated for the seminar and gala dinner Silver Sponsor • Invite to send up to 8 representatives to attend opening ceremony, • and 4 free places are allocated for the seminar and gala dinner Bronze Sponsor • Invite to send up to 5 representatives to attend opening ceremony, • and 2 free places are allocated for the seminar and gala dinner 3) Sponsor will help to dismantle information such as to circulate the brochure to company staff members . 4) Members of Sponsor beyond the free places allocated will be able to participate at rate for MSTTT/CSTT Members in all events including Post seminar tours 5) Attend B2B Meeting free 6) your organization will be accorded a display area amongst the exhibitors the location to be arranged by MSTTT /CSTT
Sponsor dues - Summary	Gold Sponsor 6,000 RM (Above plus total 10 persons for opening)< and total of 6 places for the Seminar and Gala Dinner) Silver Sponsor 4,000 RM (Above plus total 8 persons for opening)< and total of 4 places for the Seminar and Gala Dinner) Bronze Sponsor 2,000 RM (Above plus total 5 persons for opening)< and total of 2 places for the Seminar and Gala Dinner

GOLD SPONSOR

ICOP CONSTRUCTION (M) SDN. BHD.

ICOP Construction (M) Sdn Bhd is a newly established company operating in the Malaysian market, headed by Ir Cheng Chin Keong, Danny.

Its entry into the Malaysian market means sharing its long and proved experience, its technological knowledge and quality system, in the field of constructions (bridges, viaducts, etc.), foundations, road and railway underpasses and underground special works (diaphragm walls, piles, micropiles, sheet piling, jet grouting, ground freezing, chemical ground injections).

ICOP Construction (M) Sdn Bhd. has been operating in the fields of construction, foundations and special works; in order to remain competitive, skills, experience and always advanced equipment have always been developed.
Today ICOP Construction (M) Sdn Bhd. can offer a full range of specialized works: project and construction of bridges and viaducts, diaphragm walls (also trench-cutter diaphragm walls), piles and micropiles, tie beans, anchors, sheet piling, jet grouting, ground freezing (in any soil condition) and all specialized works in the field of foundations.

ICOP Construction (M) Sdn Bhd. has been constructing underground crossings using the microtunnelling technique. The acquired professionalism and technological development place the company among the leader companies.

Together with this “environmental friendly” method, since it minimizes surface disruption,IcopConstuction (M) Sdn Bhd. can count today on other innovative technologies: the ALLU® system and the BioGenesisTM technology.

ICOP Construction (M) Sdn Bhd. offers the Customer an internal consulting and project service sharing the heritage and experience built.

http://icopmalaysia.com.my

SECTION H: SILVER SPONSORS

PUNCAK NIAGA HOLDINGS BERHAD

The PuncakNiaga Holdings Berhad ("PNHB") Group is the leading regional integrated water, wastewater and environmental solutions provider with involvement in the oil & gas sector and to emerge as a prominent player in the plantation and property development sectors.

PNHB is an investment holding company whilst its subsidiaries are principally involved in the construction, water, wastewater, sewerage and environmental engineering sectors including undertaking research and development and technology development for the water, wastewater and environmental sectors, management and advisory services, integrated transportation and installation of offshore facilities in the oil and gas sector and plantation.

Established on 7 January 1997, PNHB was listed on the Main Board of Bursa Malaysia Securities Berhad (now known as the Main Market of Bursa Malaysia Securities Berhad) on 8 July 1997. As at the end of 31 December 2016, PNHB's market capitalisation stood at RM400.7 million. It is the first water treatment and supply concession company to be listed on Bursa Malaysia Securities Berhad under the Infrastructure Project Company guidelines issued by Securities Commission and was reclassified to the Construction sector on 13 November 2015.

Our wholly-owned subsidiary, PuncakNiaga Construction SdnBhd's ("PNCSB") principal business activities are construction works, general contracts and its related activities. As the construction arm of PNHB, PNCSB had completed two (2) water supply projects in October and December 2015, respectively, in Sarawak and currently manages one (1) water supply project in Sabah and another sewerage project in Kuala Lumpur.

In mid 2008, PNHB Group entered the China market via its then 80% (now 98.65%) owned subsidiary, Sino Water Pte Ltd ("Sino Water"), a company incorporated in Singapore which focuses primarily on potential markets in China. Sino Water has several subsidiaries in the People's Republic of China to undertake potable water and wastewater projects in several provinces in China.

https://www.puncakniaga.com.my

O Liner Technology (M) Sdn. Bhd.

O Liner Technology provides a comprehensive range of pipeline rehabilitation solutions:

- Pipe Jacking and HDD,
- Design and construction of shafts design and refurbishing of ,pipe jacking machines (include manual and slurry) jet grouting and geotechnical works
- Sewer manholes and precast products installations
- Slope protection , repairs of infrastructure and sewer/water/ service mains
- Site and condition assessments, risk analysis and related safety works
- CIPP Technology
- Spiral Wound Lining
- Close fit Lining Technology
- Pipe Bursting Technology
- Pipe Sleeving Technology
- Fold and Form Pipelining Technology
- Underground Pipe CCTV Inspection

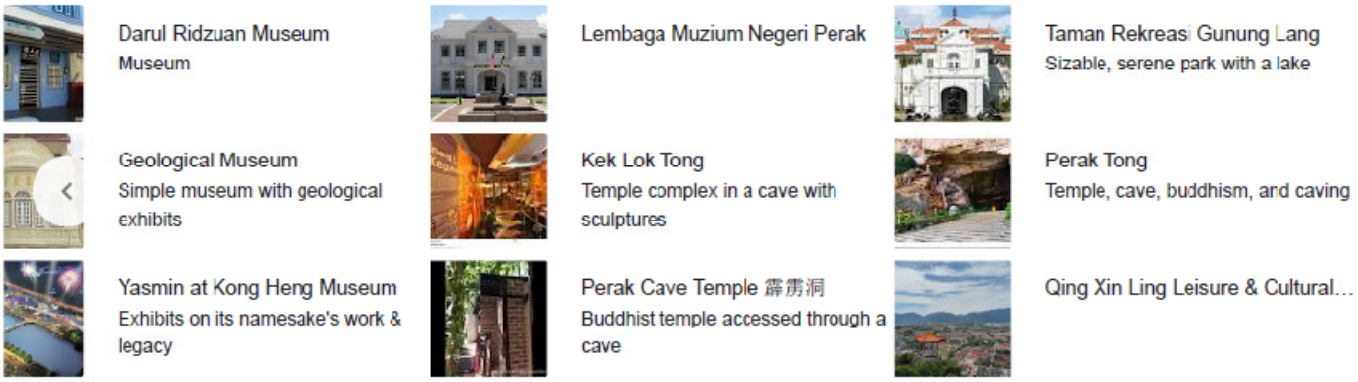
olinerm168@gmail.com

SECTION I: POST-SEMINAR TOUR DETAILS

OPTION A –BELUM RAINFOREST RESORT ALL-INCLUSIVE PACKAGE

Depart from Kuala lumpur to Belum by train(2.5 hours) while having an overnight transit in **Ipoh**.There, you will be accompanied by a guide to explore and experience the nightlife in the city. The next morning, authentic Ipoh food will be served for breakfast, and you will be given a quick tour to some of the nearby tourism spots around the city before heading towards your next destination, Belum Rainforest Resort.

In Ipoh, we will visit some of these places:



Belum Rainforest Resort is a 4-star Eco Rainforest Resort located in the fringe of Royal BelumTemegor Forest Complex, the largest continuous forest complex in Peninsular Malaysia. You will be free to have your own adventure during your first day in Belum Rainforest Resort. On the final day of the tour, you will be invited to enjoy a full-day excursion at the Royal Belum State Park before heading back to Kuala Lumpur the next day.

This package deal includes:

- One (1) night in Ipoh at a 3-4 stars hotel (including dinner)
- Two (2) nights at the Belum Rainforest Resort (including breakfasts, packed lunch, and dinners for two persons)
- One (1) full day excursion at the Royal Belum State Park.

OPTION B – CAMERON HIGHLAND

Enjoy a 3-hour drive from Kuala Lumpur to Tanah Rata, **Cameron Highland**, while in the meantime, you can visit nearby fruit stalls should you want to have a taste on the notorious King Durian or other tropical fruits.

Once you reach the resort, you will be treated with a countryside tour, and will be served with delicious dinner at the resort hotel. A tour to the night market at **BrinchangArea**will be provided for you to enjoy the cool night breeze and the crowd.

The next day, you will be invited to the main attraction in the resort, which includes tea plantation, strawberry farm, and many other types of vegetables and crops which you can purchase at a reasonable price. After that, you may enjoy yourself for the rest of the day or make your own adventure in the resort as you please before heading back to Kuala Lumpur on the next day at noon.

Cameron Highland is the most extensive hill station in Malaysia. It occupies an area of 712 square kilometers. To the north, its boundary touches that of Kelantan; to the west, it shares part of its border with Perak. Developed in the 1930s, the tableland is one of the oldest tourist spots in Malaysia. Apart from its tea estates, the plateau is also noted for its cool weather, orchards, nurseries, farmlands, waterfalls, rivers, lakes, wildlife, mossy forest, golf course, hotels, places of worship, bungalows, Land Rovers, museum and its aborigines (Orang Asli).

This package deal includes:

- Two (2) nights at the Cameron Highland (including breakfasts, lunch, and dinner)
- One (1) half-day Countryside Tour to strawberry farms and other plantations
- Complementary Lunch at Lord's Café
- Complementary Breakfast at The Smoke House (Before departing to Kuala Lumpur)

-