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Shotcrete for Underground Support XII

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CONFERENCE PROGRAM

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Program

Shotcrete for Underground Support XII

October 11-13, 2015 Singapore

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Prof. Lu Ming
Nanyang Technological University
Singapore

Conference Co-Chairs

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Geoconsult Asia Singapore Pte Ltd
Singapore

Honorary Chair
Prof. Yong Kwet Yew
National University of Singapore
Singapore

Dr. GuoJun LiSingapore Metro Consulting
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Guest of Honour
Er. Chew Keat Chuan
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Previous conferences in this series

Use of Shotcrete for Underground Structural Support July 15-20, 1973 South Berwick, Maine

Conference Chair:

J. R. Graham, Bureau of Reclamation

Shotcrete For Underground Support II October 3-8, 1977 Easton, Maryland

Conference Chair:

J. A. Veltrop, Harza Engineering Co.

Shotcrete For Underground Support III April 16-21, 1978 St. Anton, Austria

Conference Chair:

L.F. Piatnik, Walco Chemical Corporation

Shotcrete For Underground Support IV September 5-11, 1982 Paipa, Colombia

Conference Chairs: Elwyn King, P.B, Q+D Alberto Murlando, Ingetec

Shotcrete For Underground Support V June 3-7, 1990 Uppsala, Sweden

Conference Chairs:

John Sharp, Geo-Engineering Elwyn King, Parsons Brinckerhoff

Tomas Franzen, Swedish Rock Research Foundation

Shotcrete For Underground Support VI May 2-6, 1993 Niagara-on-the-Lake, Ontario

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D.F. Wood, University of Toronto D. Morgan, Hardy BBT

Shotcrete For Underground Support VII June 11-15, 1995 Seefeld, Austria

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Shotcrete For Underground Support VIII April 11 - 15, 1999 Sao Paulo, Brazil

Conference Chairs:

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Previous conferences in this series

Shotcrete For Underground Support IX November 17-21, 2002 Shonan Village, Japan

Conference Chairs:
Koichi Ono, University of Kyoto
Rusty Morgan, AGRA Earth & Environment

Shotcrete For Underground Support X September 12-16, 2006 Whistler, B.C., Canada

Conference Chairs:
Rusty Morgan, AMEC Earth & Environmental
Harvey Parker, Harvey Parker & Associates, Inc.

Shotcrete For Underground Support XI June 7-10, 2009 Davos-Platz, Switzerland

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Sunday, October 11, 2015

17:00 - 18:00 Conference check-in (Grand Copthorne Waterfront Hotel)
 18:00 - 22:00 Opening Reception (Grand Copthorne Waterfront Hotel)
 Art Exhibition "Deep Skin" by Gina

Notes

- Keynote speeches and technical presentations on Monday and Tuesday will be held at the Grand Copthorne Waterfront Hotel. A vernissage of paintings by Gina "deep skin" will be available to participants at the reception area.
- Audiotaping, videotaping and photography of presentations are prohibited.
- The order of the keynote speeches and technical presentations may change upon the discretion of the organising committee.
- An allowance of 45mins and 15mins is set aside for Keynote Speakers and Technical Presentations respectively.
- Speakers Please set aside 5 minutes for questions and discussion.
- Please do not smoke at any conference functions.
- Turn your cellular telephones to vibrate or off during technical sessions.
- Please write your name in the front of this booklet in case it is misplaced.
- Be sure to check the participant list in this booklet to confirm that your listing is correct. If there are changes or updates, please login to the ECI website and update your listing so that the list that ECI will send to all participants after the conference will be correct.

Monday, October 12, 2015

07:30 - 09:00	Breakfast (at your hotel)
09:00 - 09:30	Welcome Speeches
	ECI Liaison Herbert Klapperich Prof. em. Geotechnic, TU Bergak. Freiberg, Germany
	Guest of Honour Er. Chew Keat Chuan Group Director of Building Engineering Group, Building and Construction Authority
	Conference Chair Prof. Lu Ming Co-director of NTU-JTC Industrial Infrastructure Innovation Centre; Visiting Professor at School of Civil and Environmental Engineering, Nanyang Technological University
09:30 - 10:15	Keynote Speaker 01: Dr. Oskar Sigl, Geoconsult Asia Singapore Pte Ltd. Tunneling in Singapore experiences
10:15 - 10:45	Coffee break
10:45 - 11:15	Keynote Speaker 02: Prof. Eivind Grøv, University of Science and Technology in Trondheim / SINTEF Importance and work of ITA Working Group No. 12 on sprayed concrete use
11:15 - 11:45	Keynote Speaker 03: Dr. Matthias Beisler, ILF Consulting Engineering (Asia) Ltd Shotcrete – Sustainable design for underground structures facing challenging ground conditions
11:45 - 12:00	Technical Presentation 01: Marc Jolin, Laval University The effect of spraying on fiber content and shotcrete properties
12:00 - 14:00	Lunch (Grand Copthorne Waterfront Hotel)

Monday, October 12, 2015 (continued)

14:00 - 14:30	Keynote Speaker 05: Dr. E. Stefan Bernard, Technologies in Structural Engineering P/L Experience in the field: 20 Years with macro-synthetic fiber reinforced shotcrete
14:30 - 15:00	Keynote Speaker 06: Jens W. Wiegand, DMT GmbH & Co. KG New technologies in underground projects
15:00 - 15:15	Technical Presentation: Riccardo Perlo, Bekaert Maccaferri Underground Solutions Comparison on different design approaches applied to a new tunnel lining system reinforced by tubular arch
15:30 - 16:00	Coffee break
16:00 - 16:15	Technical Presentation 02: Yang Jun Sheng, Central South University Reinforced shotcrete for rehabilitating the fractured lining in a operating railway tunnel
16:15 - 16:30	Technical Presentation 03: Patrick Beronneau, Amberg & TTI Engineering Durable fiber reinforcement of sprayed concrete
16:30 - 16:45	Technical Presentation 04: Christopher Drover, WA School of Mines, Curtin University, CRC Mining Performance of shotcrete surface support following dynamic loading of mining excavations
16:45 - 17:00	Technical Presentation 05: Marc Jolin, Laval University Evaluation of wet-mix shotcrete containing wet-accelerator and service life prediction
17:00 - 17:15	Technical Presentation 06: Benoit de Rivaz, Bekaert Maccaferri Underground Solution Fibre reinforced spray concrete: Minimum performance requirement to meet safety needs
	Dinner on your own

Tuesday, October 13, 2015

07:30 - 09:00	Breakfast (at your hotel)
09:00 - 09:30	Keynote Speaker 01: Prof. Marc Jolin, Laval University New developments and the future of shotcrete In North America
09:30 - 10:00	Keynote Speaker 02: Prof. Dietmar Mähner, Fachhochschule Münster, Institut für unterirdisches Bauen Interaction between the shotcrete outer shell and the sealing system
10:00 - 10:30	Keynote Speaker 03: Dawei Mao, Nanyang Technological University Stability analysis of large-scale underground caverns in steeply dipping bedded rock
10:30 - 11:00	Coffee break
11:00 - 11:15	Technical Presentation 01: Ezgi Yurdakul, W. R. Grace & Co. A case study on the impact of chemical admixtures on wet-mix shotcrete performance In underground applications
11:15 - 11:30	Technical Presentation 02: Dudley R. Morgan, LZhang Consulting & Testing Ltd. Quality control for wet-mix fiber reinforced shotcrete in ground support
11:30 - 11:45	Technical Presentation 03: Mao Dawei, Nanyang Technological University A case study of tunnel instability in weakness zone containing swelling clay
11:45 - 12:00	Technical Presentation 04: Hla Aye Saw, Western Australian School of Mines, Curtin University of Technology Safe re-entry time for in-cycle shotcrete in underground mine excavations
12:00 - 13:45	Lunch (Grand Copthorne Waterfront Hotel)

Tuesday, October 13, 2015 (continued)

13:45 - 14:00	Technical Presentation 05: Dudley R. Morgan, LZhang Consulting & Testing Transport properties in wet-mix
14:00 - 14:15	Technical Presentation 06: Maria Thumann, OTH Regensburg Precipitations in the tunnel drainage system – Optimized shotcrete mix design
14:15 - 14:30	Technical Presentation 07: Stefan Lorenz, University of Leoben Investigations of the interaction between sheet membranes, geotextile and sprayed concrete in tunnelling
14:30 - 14:45	Technical Presentation 08: Marc Jolin, Laval University Engineered fiber reinforced shotcrete for efficient and fast ground support installation
14:45 - 15:30	Coffee break
15:30 - 15:45	Technical Presentation 09: Didier Lootens, Sika Technology Portable device for continuous strength measurements of shotcrete
15:45 - 16:00	Technical Presentation 10: Zhang Zhi Qiang, Xi'An University of Technology Overbreak influence on shotcrete layer and surrounding rock mass of tunnel
16:00 - 16:15	Technical Presentation 11: Yun Kyong-Ku, Kangwon National University Early-age behavior of shotcrete using expansive admixtures
16:15 - 16:30	Technical Presentation 12: Matthias Beisler, ILF Consulting Engineering (Asia) Ltd Design and verification challenges of large caverns
16:30 - 16:45	Technical Presentation 13: Marc Jolin, Laval University Shotcrete education and nozzlemen certification
17:00 - 19:00	Networking Session
19:00 - 19:30	Reception (Grand Copthorne Waterfront Hotel)
19:30 - 21:00	Grand Gala Dinner (Grand Copthorne Waterfront Hotel)

Wednesday, October 14, 2015

09:00 - 12:00	Technical Site Visit Demonstration of shotcrete spraying at BASF factory (Badische Anilin- und Soda-Fabrik) located at Tuas (Western Singapore)
12:00 - 13:00	Transfer back to Grand Copthorne Waterfront Hotel & check out