Shotcrete for Underground Support XIII

September 3-6, 2017 Kloster Irsee, Irsee, Germany

Conference Chair:

Dietmar Mähner FH Münster, Germany

Conference Co-Chairs:

Matthias Beisler ILF Consulting Engineers, Thailand Frank Heimbecher FH Münster, Germany





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Sunday, September 3, 2017

16:30 - 18:00	Conference check-in
18:00	Dinner
19:30	Concert by organist Roland Götz on historic organ
21:00	Social period

Monday, September 4, 2017

07:30 - 09:00	Breakfast buffet
09:00 - 09:30	Conference Opening/Welcome Talks Prof. Herbert Klapperich, ECI-Liaison Prof. Dietmar Mähner, Conference Chair Prof. Tarcisio Celestino, President, ITA Prof. Conrad Boley, DGGT - German Geotechnical Society, Head of the "Rock Mechanics" Division Rusty Morgan, Canada. Past-Chair ECI-SUS X Guojun Li, Singapore, Past-Chair ECI-SUS XII Preedee Ngamsantikul president of TUTG Thailand Underground & Tunneling Group
09:30 - 10:00	Multi layered shotcrete design Matthias Werner Beisler, ILF Consulting Engineers, Austria
10:00 - 10:30	Tunnel shotcrete lining for hydroelectric projects in British Columbia Lihe Zhang, Consulting & Testing Ltd., Canada
10:30 - 11:00	Coffee Break
11:00 - 11:30	In sity testing of early age energy absorption in sprayed fiber reinforced concrete - HyEA – test Michael Kompatscher, Hagerbach Test Gallery Ltd, Switzerland
11:30 - 12:00	Limitation of strength of sprayed concrete Sven Plückelmann, Ruhr University Bochum, Germany
12:00 - 12:30	Understanding the role of accelerators in wet-mix shotcrete Ezgi Yurdakul, GCP Applied Technologies, USA
12:30 - 14:00	Lunch
14:00 - 14:30	Cellular sprayed concrete for simple and economic remixing Kyong-Ku Yun, Kangwon National University, Korea
14:30 - 15:00	Possible applications of a highly ductile sprayed concrete as a measure for ground support and structural upgrade Goetz Vollmann, Ruhr-University Bochum, Germany
15:00 - 15:30	Toward a better understanding of the placement of shotcrete: Nozzles and velocities Marc Jolin, Laval University, Canada
15:30 - 15:45	TBD
15:45 - 16:15	Coffee Break

Monday, September 4, 2017 (continued)

16:15 - 16:30	Underground support for Xe-Pian Xe-Namnoy hydropower project, Lao PDR - 128 Chawalit Tanomtin, Right Tunnelling Co., Ltd., Thailand
16:30 - 16:45	Application examples of a very economic way of cellular sprayed concrete on retaining wall and artificial rock Kyong-Ku Yun, Kangwon National University, Korea
19:30	Dinner followed by social period

Tuesday, September 5, 2017

07:30 -09:00	Breakfast buffet
09:00 - 09:30	Design approach and verification of single shell lined tunnels Thomas Marcher, SKAVA consulting ZT GmbH, Austria
09:30 - 10:00	Structural retrofitting of rescue tunnels in single shell shotcrete construction – requirements and experiences Daniel Eickmeier, Federal Highway Research Institute (BASt), Germany
10:00 - 10:15	Production of a waterproofing construction in steel fiber concrete at the railway project Stuttgart 21 Andreas Schaab, HOCHTIEF Infrastructure GmbH, Germany
10:15 - 10:30	Concrete renovation and enhancing of fire protection of an existing tunnel with spayable polymer cement concrete (SPCC) Stefan Peters, IMM, Germany
10:30 - 11:00	Coffee Break
11:00 - 11:30	The effects of local voids and imperfections of surrounding rock on the performance of existing tunnel lining Jinyang Fu, Central South University, China
11:30 - 12:00	Earth pressure on anchor-shotcrete retaining structures Juncheng Gao, Dalian University of Technology, China
12:00 - 12:30	Value engineering in engineering tunnels projects Mahmoud Elshourbagy, Taibah University Al-Madina, Saudi Arabia
12:30 - 14:00	Lunch Break
14:00 - 14:30	Durable and sustainable shotcrete Maria Thumann, OTH Regensburg, Germany
14:30 - 14:45	Determination of trigger levels for SCL and NATM Max John, John Tunnel Consult, Austria
14:45 - 15:00	Rock-Support analysis for buckling failure at Cuiabá Mine decline Felipe Pereira, AngloGoldAshanti, Brazil
15:00 - 15:15	Structural modifications to hydroelectric turbine draft tube ceiling using accelerated wet-mix steel fiber reinforced shotcrete applied up to 2m thick overhead Shaun M. Radomski, Amec Foster Wheeler, Canada
15:15 - 15:30	Application of cellular sprayed concrete into two-lift concrete Yun, Kyong- Ku Yun, Kangwon National University, Korea
15:30 - 16:00	Coffee Break

Tuesday, September 5, 2017 (continued)

16:00 - 16:15	Spray fibre reinforced concrete – performance criteria and testing method
	Benoit de Rivaz, Bekaert Maccaferi Underground Solution, France
16:15 - 16:30	Why is rheology important for shotcrete and how can it be improved? Ezgi Yurdakul, GCP Applied Technologies, USA
17:00	Nature Walk
20:00	Conference Dinner
	Announcement of SUS XIV, 2019

Wednesday, September 6, 2017

07:30 – 09:00	Breakfast buffet
09:00 - 09:30	Specifying and testing fiber reinforced shotcrete: Advances and challenges Antoine Gagnon, Laval University, Canada
09:30 - 10:00	Shotcreting of ultra-high performance concrete Laurence Trucy, LafargeHolcim, France
10:00 - 10:30	Innovative shotcrete technologies for durable rapid underground development and infrastructure repairs exposed to severe conditions Nicolas Ginouse, King Shotcrete Solutions, Canada
10:30 - 11:30	Properties and function of permanent shotcrete linings waterproofed with bonded membranes Karl Gunnar Holter, BASF Construction Chemicals Europe AG, Switzerland
11:30	Lunch and departures

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