Fortezza da Basso • FLORENCE (Italy) 30th September • 2nd October 2019





30th September • 2nd October 2019





SCIENTIFIC COMMITTEE

Samuel Ariaratnam

Construction Engineering Program Chair, past ISTT Chairman and Arizona State University Professor, USA

Wout Broere

NSTT Board Member and Delf University of Technology Professor (Geo engineering session), Netherlands

Edoardo Cottino

ITU (International Telecommunication Union) Study Group 15 Vice Chairman and Sirti Innovation Director, Italy

Feliciano Esposto

IATT Technical Committees Coordinator, Italy

Roberto Frassine

Uniplast Chairman and Politecnico di Milano Professor (Industrial Chemistry and Chemical Engineering Department), Italy

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GSTT Chairman and University of Hochschule Wismar Professor (Construction Management and Construction Technologies), Germany

Tom Iseley

Director International Operations at UNITRACC and Louisiana Tech University Professor (Civil Engineering, Construction Engineering Technology), USA

Matthew Izzard

UKSTT Chairman, United Kingdom

Henk Kruse

Deltares Senior Geotechnical Consult, Holland

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John Matthews

Director of the Trenchless Technology Center Louisiana and Louisiana Tech University Associate Professor (Civil Engineering, Construction Engineering Technology), USA

Valeria Mezzanotte

Bicocca University of Milan Researcher and Professor (Department of Earth and Environmental Sciences), Italy

SCIENTIFIC COMMITTEE

Quintilio Napoleoni

University of Rome La Sapienza Associate Professor (Department of Civil, Constructional and Environmental Engineering), Italy

Francesco Napolitano

Head of Hydraulics and Hydraulic engineering committee, Association of engineers of Rome and University of Rome La Sapienza Professor (Department of Civil, Constructional and Environmental Engineering), Italy

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Jo Parker

UKSTT Co-opter members, United Kingdom

Marco Raffaldi

IATT Past Vice Chairman, Italy

Luca Rossi

Department of Technological Innovations and Safety of Plants, Products and Anthropic Settlements INAIL, Italy

Marc Schnau

DCA-Europe (Drilling Contractor Association) Chairman, Germany

Keh-Jian Albert Shou

CTSTT Chairman and National Chung-Hsing University Civil Engineering Professor, Taiwan

Volker Wagner

DWA (German Association for water management, wastewater and waste) and Wismar University Professor (Department of Civil Engineering and Urban Water Management and Waste Management), Germany

Antonino Valenza

University of Palermo Professor (Civil, Environmental, Aerospace, Materials Engineering department), Italy

30th September • 2nd October 2019





PROGRAM AT A GLANCE
The scientific program is subject to changes

30th SEPTEMBER 2019

	Technical Session Room A	Parallel Session Room B	Parallel Session Room C	Parallel Session Room D
09.30	Welcome coffee			
10.00 12.00	Opening Ceremony			
12.00	Exhibition Area			
13.00 14.00		Lunch	break	
14.00 14.20	Panel Event I Samuel Ariaratnam - Arizona State University	Research & Development 1	Mapping and Inspection of Underground Utilities 1	14.00-15.00 Industry Session EKSO srl
14.20 16.00	Microtunneling Pipe Jacking Auger Boring 1			15.00-18.00 Short Course
16.00 16.20		Coffee break		Le tecnologie di risanamento e rinnovamento del
16.20 18.00	Horizontal Directional Drilling 1	Trenchless Technology Case Studies 1	Mapping and Inspection of Underground Utilities 2	sistema idrico integrato

1st OCTOBER 2019 - MORNING

	Technical Session Room A	Parallel Session Room B	Parallel Session Room C	Parallel Session Room D
<u>09.15</u> 09.40	Panel Event 2 Standardization by UNI (Italian National Standard Body)	Pipe lining & Coatings 1	Research & Development 2	
<u>09.40</u> 11.00	International Standards			10.00-11.00
11.00 11.20		Coffee break		Industry Session Anese srl
11.20 11.40	Trenchless Technology by CIGRE Study Committee BI	Round Table Water and Wastewater	Research & Development 3	11.00-12.00 Industry Session Saint-Gobain PAM Italia
11.40 13.00	Mapping and Inspection of Underground Utilities 3			12.00-13.00 Industry Session Danphix spa
13.00 14.00		Lunch break		

- Technical Sessions will be in English and open only to delegates regularly registered to the congress
- The short courses will be in Italian and have a special registration fee Industry Sessions and the Exhibition area are open to anyone and free of charge

PROGRAM AT A GLANCE
The scientific program is subject to changes

1st OCTOBER 2019 - AFTERNOON

	Technical Session Room A	Parallel Session Room B	Parallel Session Room C	Parallel Session Room D
14.00	Microtunneling Pipe Jacking Auger Boring 2	Trenchless Pipe replacement 1 Trenchless Technology Case Studies 2	14.00-14.20 Panel Event 3 Risk Assesment in excavation works - INAIL (National institute for occupational accident insurance)	14.30-15.30 Industry Session EKSO srl
16.00			14.20-15.20 Environmental & Sustainability Benefits of Trenchless 1	
			15.20-16.00 Research & Development 4	
16.00 16.20		Coffee break		15.30-18.30 Short Course
16.20	Horizontal Directional Drilling 2	Pipe lining & Coatings 2	16.20-17.20 Environmental & Sustainability Benefits of Trenchless 2	Microtunneling e direct pipe
18.00			17.20-18.00 Research & Development 5	

2nd OCTOBER 2019

	Technical Session Room A	Parallel Session Room B	Short Courses Room C	Parallel Session Room D
<u>09.15</u> 11.00	Panel Event 4 Worldwide Trenchless Market	Trenchless Pipe replacement 2	<mark>09.30-10.30</mark> Industry Session EKSO srl	09.30-15.30 Short Course
11.00 11.20	Coffee	e break	10.30-13.30 Short Course Le tecnologie di	Tecnologie di trivellazione orizzontale controllata - TOC Dimostrazione live
<u>11.20</u> 13.00	Panel Event 4 Worldwide Trenchless Market	Trenchless Technology Case Studies 3	indagine conoscitiva e dimostrazione live	Dimostrazione live
13.00 14.00	Lunch	break		
	Research & Development 6	Pipe lining & Coatingss 3		
14.00 16.00	Mapping and Inspection of Underground Utilities 4			
16.00	Closing Ceremony			

30th September • 2nd October 2019





30th September

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
09.30	Welcome coffee			
10.00 12.00	Opening Ceremony Dario Nardella - Major of Florence Jari Kaukonen - ISTT Chairman Paolo Trombetti - IATT Chairman Piero Petrucco - Vice Chairman ANCE (Builders National Association)			
12.00	Exhibition Area			
13.00 14.00	Lunch break	Lunch break	Lunch break	Lunch break
	Microtunnelling/Pipe Jacking/Auger Boring 1	Research & Development 1	Mapping and Inspection of Underground Utilities 1	Industry Session
	Panel Event 1 Samuel Ariaratnam (Arizona State University - USA)	Hydrostatic strength of HI-PVC pipe Chiwan Hsieh (National Pingtung University of Science and Technology - Taiwan)	How can sewer and water companies deal with hundreds of kilometers of plugged interceptors? Sergio Palazzo (ABRATT - Brasil)	14.00 - 15.00 EKSO srl
	E-Power Pipe®: jet pump technology for long-	with joint restraint system	WRc's use of focused electrode leak location (FELL) to assess gravity sewers in the UK and	15.00 - 18.00 Short course
	distance drives in small diameters Marc Peters (Herrenknecht AG - Germany) Stability of surrounding soil by using under	Francesco Faedda (ÉITT - Italy) New battery powered drill rig Raffaele Savi (E.G.T. srl - Italy)	Germany, before and after rehabilitation Peter Henley (WRc plc - USA) From hades to heaven? Developments in	Le tecnologie di risanamento e rinnovamento del sistema idrico integrato
	pinning pipe jacking method	Raffaele Savi (E.G.1. srl - Italy) Sprayed polymer liners for maintenance holes: esistance to external groundwater an Moore (Queen's University, Kingston - Canada)	integrated buried asset information systems in the UK Jo Parker (Watershed Associates - United Kingdom)	La regolamentazione vigente Prof. Francesco Napolitano (Università degli Studi di Roma La Sapienza - Dipartimento di Ingegneria Civile, Edile ed Ambientale)
14.00 16.00	pipeline Ugo Lazzarini (Max Streicher spa - Italy) TUNIS Navigation E-Power Pipe® - Precise guidance of small diameter tunnelling machines Hähnle Torben (VMT GmbH - Germany) Short-segment jacking of water main for realignment under limited space in urban area Wu Shihchi (Taipei Water Departmen - Taiwan)	The design and application of PEIOO pipe in trenchless technologies for new installation and rehabilitation - Aspects of new materials and support via online guide and tool Andrew Wedgner (PEIOO+ Association - Germany RedEx® internal sealing collars - Partial repair and liner end sealing for sewage and drinking	Leak detection using Helium as a tracer gas and the primus line solution for pipe rehabilitation Avishay Schnaidman (D-I Development and Implementation Ltd - Israel) Increased automation and accuracy in sewer and water main inspections Tiia Lampola (WSP Finland Oy - Finland) A novel cyber-monitoring based asset	Disciplinare tecnico Ing. Stefano Tani (MM spa - Responsabile Servizi Divisione Servizio Idrico) Progettazione di un intervento senza scavo: ispezioni iniziali, scelta della tecnologie e controllo di qualità cantiere Prof. Stefano Mambretti (Politecnico di Milano Dipartimento di Ingegneria Civile ed Ambientale)
	Ta Similan (Tarper Water Beparamen - Talwan)	water pipes Susanne Leddig-Bahls (IQS Engineering AG - Germany)	management scheme for water distribution networks using evolutionary optimization and neural networks Kalyan Piratlai (Clemson University, Glenn Department of Civil Engineering - USA)	Approfondimenti sulle tecnologie trenchless per il risanamento e rinnovamento del Sistema Idrico Integrato e presentazione di case history Ing. Stefano Tani (MM spa - Responsabile Servizi Divisione Servizio Idrico)
16.00 16.20	Coffee break	Coffee break	Coffee break	

30th September • 2nd October 2019





30th September

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
	Horizontal Directional Drilling 1	Trenchless Technology Case Studies 1	Mapping and Inspection of Underground Utilities 2	
16.20 18.00	HDD drilling in hard and hardest rock in Europe - Examples of job sites Hans - Joachim Bayer (TRACTO-TECHNIK - Germany) Marsdiep crossing between Den Helder and Textel, length 4.600 m Ernst Fengler (LMR Drilling GmbH - Germany) The Cornegliano Laudense natural gas storage project: HDD as solution for pipeline installation in urban areas Vincenzo Nisii (SAIPEM Engineering & Construction Onshore Division - Italy) Replacing a penstock pipe using directional drilling :chronicle of a non-standard jobsite Paul Cavillon (FOREXI - France) Steering the HDD Hans Block (Brownline - Netherlands) Smart technologies for the enhancement of productivity, digital integration and safety in HDD projects Jasper Van't Westende (VERMEER EMEA - Netherlands)	Unconventional methods of trenchless pipeline installation and replacement using conventional direct Pipe® and HDD Equipment Jwala Sharma (Mears Group Inc - USA) No-dig renovation of pressure pipelines, re-connection techniques and case studies Firmino Pires Barbosa (Relineeurope AG - Germany) Installation of pre-support steel pipes to protect \r\nan historical building by a retractable MTBM Riccardo Miotto (Pato srl - Italy) Unique horizontal drain installation under a building using\r\n pilot tube guided Auger Bore methods Michelle Macauley (Macauley Trenchless - USA) A Large U.S. City Conducts a 30,000LF (9,284m) Legacy CIPP assessment project after not achieving anticipated reductions in infiltration resulting in new testing & acceptance standards Chuck Hansen (Electro Scan Inc USA)	The cadastre of underground infrastructure networks: the model of Lombardy Region Chiara Dell'Orto (Lombardy Region - Italy) A pipe detecting project and technical assistance in Bangladesh Kito Kazuki (TEPCO Power Grid - Japan) DEMD\"Deep Electromagnetic Detection\" Jean Francois Maregiano (JFM Conseils - France) Assessing the underworld - a three-infrastructure approach to remote sensing Christopher Rogers (University of Birmingham, Department of Civil Engineering - United Kingdom) An automated leakage detection technique for water pipeline systems Kalyan Piratla (Clemson university, Glenn Department of Civil Engineering - USA)	

30th September • 2nd October 2019





1st October

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
	International Standards	Pipe Lining and Coatings 1	Research & Development 2	Industry Sessions
<u>09.15</u> 11.00	Panel Event 2 Standardization (UNI, Italian National Standard Body - Italy)	Advances in CIPP pressure pipe liner testing and design Mark Knight (University of Waterloo - Russia) Design of liners for circular & non-circular shapes according to the new French ASTEE 3R-2014 V2.0 method - Influence of geometrical imperfections of host pipe & liner Olivier Thepot (Eau de Paris - France) Relining of a DN 300 steel water pipe anchored under the ancient Bridge of the Academy in the historic center of Venice Gianluca Paro (Risanamento Fognature spa - Italy) Taking the mystery out of trenchless repair of pressure pipes with carbon FRP Mo Eshani (PipeMedic by QuakeWrap - USA) Design & building contracts as a performing opportunity to CIPP sewers rehabilitation-Brianzacque case study Simone Cellitti, (Brianzacque srl - Department of Engineering and Spatial Planning - Italy)	Numerical analysis of the behavior of pressurized underground pipelines rehabilitated by cure-in-place-pipe method Keh-Jian Albert Shou (National Chung-Hsing University - Taiwan) A novel iot system development of using wearable ppg monitor devices to improve safety management for shield tunnel construction project Josh Huang (Gini Biotech Corporation Limited - Taiwan) Development and use of robots for trenchless work inside pipelines Michael Sedler (St. Peterburg Polytechnic University - Russia) Digitization in the field of sewer rehabilitation Thomas Ludewig (Ludewig Evaluation GmbH - Germany) The DLT-Method: Stress Test for Pressure Pipes Andreas Haacker (Siebert-Knipschild GmbH - Germany)	IO.00 - 11.00 ANESE srl II.00-12.00 SAINT GOBAIN PAM Italia 12.00-13.00 DANPHIX spa
11.00 11.20	Coffee break	Coffee break	Coffee break	

30th September • 2nd October 2019





1st October

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
			Research & Development 3	
	11.20-11.40 Trenchless Technology Sergio Chinosi (CIGRE - Study Committee B1 (International Council on Large electric system)	Round Table - Water and Wastewater	Innovative monitoring of railway tracks during trenchless crossings Jack Butterworth (Lynx+ - France) Investigation of cracks found in the circumferential direction on jacking pipes Yuki Kaneshiro (TEPCO Power Grid-Japan)	
	Mapping and Inspection of Underground Utilities 3		Increased efficiency in renovation planning	
11.20 13.00	The Italian solution on the Cadastre of technological infrastructures Fulvio Ananasso (Associazione Stati Generali dell'Innovazione - Italy) Osaka gas' GPR and cable & pipe locator Takaharu Nakauchi (Osaka Gas Co - Japan) Condition monitoring of excavated CIPP-liners to ensure lifespan Love Pallon (RISE Research Institutes of Sweden - Sweden) Safety measures for reducing asset strikes Scott Landes (Infrastructure Resources Rhino Marking and Protection Systems - USA)		Sari Pietilä (WSP Finland Oy - Finland) Contact mechanics and its normalized indices for trenchless cutting associated with machine learning Li-Hsien Chen (National Taipei University of Technology-Taiwan) New performance of a NO-DIG technology Christian Noll (Pipetronics GmbH & Co. KG - Germany)	
13.00 14.00	Lunch break	Lunch break	Lunch break	

30th September • 2nd October 2019







	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
	Microtunnelling/Pipe Jacking/Auger Boring 2	Trenchless Pipe Replacement 1	Environmental and Sustainability Benefits of Trenchless 1	Industry session
	How to choose the best technology for laying an underground pipeline Enzo Rizzi (ICOP spa - Italy) Microtunneling projects for power-transmission pipes-sharp curves at alignment changes and steep slope Shinjiro Nakamura (TEPCO Power Grid Inc Japan) Selection criteria of tunneling boring machines (TBM) for hard and soft grounds	The path forward for pipe bursting asbestos cement pipe in the United States while meeting existing US regulations Edward Alan Ambler (AM Trenchless - USA) The use of new condition assessment technologies for selecting trenchless rehabilitation of wastewater networks in Ras al Khaimah, UAE Abdul Qadir Malik (Ras Al Khaimah Wastewater Agency - UAE)	Panel Event 3 Risk assessment in excavation works Luca Rossi INAIL (National institute for occupational accident insurance) New technical solutions for the burial of distribution networks: benefits and reasons why Luca Venturi (Langmatz GmBh - Germany) Trenchless solutions for the installation of gas	14.30-15.30 EKSO srl 15.30-18.30 Short course Microtunnelling e direct pipe La normativa vigente: UNI/PdR 26.2:2017 Tecnologia di realizzazione delle infrastrutture
	Niyazi Bilim (Konya Technical University - Turkey) Tight curved microtunnel in Auckland; New Zealand Yann Rouillard (Bessac - France) Study on rectangular pipe jacking and pipe	Design and installation of water pipeline renewals Houming Ni (Asoe Hose Manufacturing Inc - USA)	distribution networks Thorsten Schulte (Tracto-Technik - Germany) Criteria to evaluate environmental sustainability and applicability of no-dig technologies for the installation of new pipes and the in situ rehabilitation of existing pipes Martina Ferrini (University of Milan, Bicocca,	interrate a basso impatto ambientale - Posa di tubazioni a spinta mediante perforazioni orizzontali La fattibilità dei Microtunnel, indagini preventive geognostiche ed indagini sui sottoservizi esistenti Prof. Quintilio Napoleoni (Università degli Studi
14.00 16.00	shield Trisha Minmin Sun (SGSTT - Syngapore) Successful challenge for the construction by microtunning of a sub-river utility tunnel! Rémi Subra (SADE - France)	Trenchless Technology Case Studies 2	DISAT - Italy) Research & Development 4	di Roma La Sapienza - Ingegneria Civile, Edile ed Ambientale) Elementi di progettazione, materiali e modalità di esecuzione del microtunnelling rettilineo e curvilineo
	Remi Subia (SABE - France)	A New FRP Solution for Reconstruction of Deteriorated Pipes and Culverts Mo Eshani (PipeMedic by QuakeWrap - Usa) Utilisation of microtunneling technology for construction of the new gas pipeline between Azerbaijan and Europe Yann Rouillard (Bessac - France) Palermo renovates water main to cope with seismic activity Arnold Cekodhima (Danphix spa - Italy)	Recent advances to understanding of cured in place pipe liner performance within water pipes lan Moore (Queen's University, Kingston - Canada) Evaluating hydraulic fracture risk in layered soil systems Andrew Sparks (Laney Group Inc - USA)	Ing. Ugo Lazzarini (Consultant) Elementi di progettazione e modalità di esecuzione del direct pipe Prof. Quintilio Napoleoni (Università degli Studi di Roma La Sapienza - Ingegneria Civile, Edile ed Ambientale) I fanghi di perforazione Presentazione di case history Ing. Ugo Lazzarini (Consultant)
16.00 16.20	Coffee break	Coffee break	Coffee break	

30th September • 2nd October 2019





1st October

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
	Horizontal Directional Drilling 2	Pipe Lining and Coatings 2	Environmental and Sustainability Benefits of Trenchless 2	
16.20 18.00	The Drilling Contractors Association (DCA-Europe). A European organisation for quality and education in HDD John Stoelinga (Drilling Contractors Association, DCA-Germany) The development of real-time detection and wireless transmission system of drilling parameters in HDD reaming hole Xuming Zhu (China University of Geosciences - China) Experimental study on pullback loads for steel pipelines installed by horizontal directional drilling Ashkan Faghih (University of Alberta - Canada) HDD for connection in gas storage field - Annulus filling Marcello Viti (Anese srl - Italy) Horizontal directional drilling, pipeline installation by pulling or pushing Henk Kruse (Deltares - Netherlands) The role of torque in the reaming process in HDD applications Renzo Chirulli (Vermeer EMEA - Netherlands)	Renovation of sewerage networks under pressure with cured-in-place pipes; RSV leaflet 1.2 Susanne Leddig-Bahls (IQS EngineeringAG - Germany) CIPP Advantages, risks and potentials of LED curing Niklas Ernst (Bluelight GmbH-Germany) Pipe rehabilitation systems - How do you ensure that the system will withstand the rigors of day to day operation and maintenance Richard David Swan (Picote Solutions OY Ltd - United Kingdom) A renewed approach to internal reinstatement of services in CIPP lined water mains Ian Andrew Lancaster (Aegion Corporation - USA) Quality control factors of CIPP Construction Management On Water Main Rehabilitation Wei Cheng Cheng (Taipei Water Department - Taiwan)	Novel business models in support of trenchless cities Christopher Rogers (University of Birmingham-United Kingdom) Innovation for the environment: the experience of Marche Multiservizi s.p.a Niko Bruni (Marche Multiservizi spa - Italy) Business and the SDG's Per Holm (BlueKoldings - Denmark) Research & Development 5 Pipe-filling method for stabilizing empty ducts from the manhole Kenjii Hiyoshi (Nippon Telegraph and Telephone Corporation - Japan) Application of solubilizing surfactant in trenchless drilling fluid Lanbo Xu (China University of Geosciences - China)	

30th September • 2nd October 2019





2nd October

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
	Panel 4 - Wordwide Trenchless Market	Trenchless Pipe Replacement 2	Industry Session	Short Course
<u>09.15</u> 11.00	Presentation by: ISTT Societies	Geopolymer lining system used for difficult deep manhole and brick sewer rehabilitation Karl Bissinger (Vortex Europe AG - Germany) Water main rehabilitation with inserted hoses: considerations on design and installation Andreas Gross (Raedlinger primus line GmbH - Germany) Sharing perspective - How bid items effect the cost and construction for a pipe bursting project Edward Alan Ambler (AM Trenchless, Sanford - USA) Experiences with rehabilitation of potable water pipes in Norway Hendrik Panman (Kjeldaas AS - Norway) Critical analysis of pipe ramming behavior and factors that impact predictive models Kimberlie Staheli (Staheli Trenchless Consultants, Inc - USA)	Le tecnologie di indagine conoscitiva La normativa vigente: -UNI/PdR 26.1:2017 - Tecnologia di realizzazione delle infrastrutture interrate a basso impatto ambientale - sistemi per la localizzazione e mappatura delle infrastrutture nel sottosuolo	Tecnologie di trivellazione orizzontale controllata - TOC La normativa vigente: UNI/PdR 26.3:2017 - Tecnologia di realizzazione delle infrastrutture interrate a basso impatto ambientale - Sistemi di perforazione guidata: Trivellazione Orizzontale Controllata (TOC) La fattibilità TOC, indagini preventive geognostiche ed indagini sui sottoservizi esistenti. Dott. Geol. Alessandro Olcese Direttore Scientifco IATT La TOC: elementi di progettazione e modalità di esecuzione in ambito urbano ed extraurbano Tipologia di tubazioni e materiali utilizzati nella posa tramite TOC Prof. Quintili Napoleoni (Università degli Studi di Roma La Sapienza - Ingegneria Civile, Edile ed Ambientale) Dimostrazione live (trasferimento A/R da Fortezza da Basso)
11.00 11.20	Coffee break	Coffee break		

30th September • 2nd October 2019





2nd October

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
	Panel 4 - Wordwide Trenchless Market	Trenchless Technology Case Studies 3		
11.20 13.00	Presentation by: ISTT Societies	Rehabilitation in Spain of a 10 km long asbestos cement drinking water main with flexible relining technology Jorge Lamazares (Sinzatec Canalizaciones - Spain) Recent developments of GRP solutions in the booming transportation market Laurent Hesters (Amiblu France - France) A case study in successful sewer network rehabilitation with uv cured cipp & traditional/non-tradional survey technologies Jan Börje Persson (BKP Berolina Polyester GmbH & Co - Germany) Consideration in planning successful trenchless utility installations Karina Buus (Department of Water and Nature Aalborg Cowi - Denmark) Successful Installation of CFRP and GFRP on Pipe Bridges in Scotland, UK Amber Jasmine Wagner (Aegion Corporation - USA)		
13.00 14.00	Lunch break	Lunch break		

30th September • 2nd October 2019





2nd October

	TECHNICAL SESSION - ROOM A	PARALLEL SESSION - ROOM B	PARALLEL SESSION - ROOM C	PARALLEL SESSION - ROOM D
	Research & Development 6	Pipe Lininig & Coatings 3		
<u>14.00</u> 16.00	Experimental characterization of micro-trenches on road pavements Alessandro Corradini (University of Perugia - Department of Civil and Environmental Engineering - Italy) A numerical study for the analysis of microtrenching performance Diana Salciarini (University of Perugia - Department of Civil and Environmental Engineering - Italy) A novel monitoring procedure for assess the correct road pavement restoration after the One-Day-Dig micro-trenching installation Evelina Volpe (University of Molise, Department of Biosciences and Territory - Italy)	New UV Felt CIPP for the Rehabilitation of Underground Pipelines Ian Andrew Lancaster (Aegion Corporation - USA) Pipe Preservation during Trenchless Installations: No Need to Take Unnecessary Risks Cristian Grecco (TDC International AG - Switzerland) A unique example of close fit lining technology for the renewal of water pipes along the bridge "Ponte Punta Penna" in Taranto Gianluca Casamassima (Acquedotto Pugliese - Italy) Joining methods for CIPP products in pressure pipe systems Jens Wahr (D&S - Germany)		
	Mapping and Inspection of Underground Utilities 4	Hydroelectric pipeline rehabilitation, Blueline - uv liner system Matteo Vicentini (ENEL - Italy) Hoselining pipe rehabilitation, Acqualatina SpA experience Daniele Verde (Acqualatina spa - Italy) Sensors monitoring and trenchless technologies: two essential keystones toward a deep innovation of smart pipes backbones Costantino Giaconia (University of Palermo-Dept of Engineering Italy)		
	No-dig investigation around Palazzo Vecchio, Florence Massimo Coli (University of Florence, DST-Italy)			
	Damage Prevention: OneCall solutions to protect underground utilities Jan-Willem Nijman (PelicanCorp / BeforeUDig - Italy) Small or Big - we don't mind! Piero Salvo (GAME Consultants - Canada)			
16.00 16.45	Closing Ceremony			
	Entition Classes			
18.00	Exhibition Closing			

30th September • 2nd October 2019





GENERAL INFORMATION

Congress Venue

Fortezza da Basso Viale Filippo Strozzi, 1 - 50129 Florence (Italy)

Organizing Committee



www.iatt.it - iatt@iatt.info Tel. +39 06 39721997

Organizing Secretariat



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For general information please contact nodig2019@oic.it For information on sponsorship please contact industrynodig@oic.it For information on registrations and hotel reservation please contact registrationnodig2019@oic.it

Registrations and Hotel Reservations

Registration fees to attend the Scientific sessions are in Euro (VAT 22% included) and will be adjusted according to VAT charge alignment.

	Within July 5 th , 2019	From July 6th, 2019	
DELEGATE ISTT Members	€ 450,00	€ 530,00	
DELEGATE Non ISTT Members	€ 550,00	€ 650,00	
STUDENT *	€ 50,00	€ 50,00	
SHORT COURSES	€2	00	
GALA DINNER	€ 100,00		

^{*}Application as Student should be certified by a valid student ID to be up-loaded in the on-line platform directly (pdf format is required)

GENERAL INFORMATION

Delegate and student registration fee includes: • Attendance to all Scientific sessions

- Conference kit
- Free entrance to exhibition
- Certificate of attendance
- Catering service as per programme
- Welcome ceremony

Short courses registration fee includes: Attendance to the Short Course selected Conference kit Free entrance to exhibition Certificate of attendance

TO REGISTER TO THE CONGRESS AND BOOK YOUR HOTEL ROOM IN FLORENCE PLEASE VISIT

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