

# PRELIMINARY PROGRAM

Day 1, Monday

Day	Start	End	Session	A-sessions	B-Sessions
Monday	10:00 am	5:30 pm		DAY1: Conference Opening and Technical Sessions	
Monday	10:00 am	11:05 am	Opening	<b>OPENING</b>	
	10:00 am	10:15 am		– Welcome speech from Conference Chair – Sarah Patterson	
	10:15 am	10:45 am		– Discover Plastics Zoran Davidovski – Austria (Pipelife International)	
	10:45 am	11:05 am		– China Plastic Pipe Industry – Technical Progress and Quality Improvement Wang Zhanjie – China (China Plastics Piping Association- CPPA)	
	11:20 am	12:40 am	1A / 1B	<b>1A – NEW MATERIALS</b>	<b>1B – CASE STUDY</b>
	11:20 am	11:40 am		– A new flexible jointing method of plastic (PE) pipes Tianjun Zhang – China (Harbin Starway Piping Technology Co., Ltd)	– Update on PVC Stabilization and Lubrication for pipes– Global trends and their implications on recipe design Dane Tallen – United Kingdom (Baerlocher)
	11:40 am	12:00 pm		– Preparation and studying of Two-layer oxygen barrier plastic pipe Mingyuan Hu – China (Menred Group Co., Ltd, Polymer Lab)	– Pipeline Replacement in Las Vegas Greg Kodweis, Roger Jordan, Ryan Benner – U.S.A. (Las Vegas Valley Water District)
	12:00 pm	12:20 pm		– Biomimetic design concepts for the pipe architecture of tomorrow Gerald Pinter – Austria (Montanuniversitaet Leoben)	– Molecularly Oriented AWWA C909 Pipe for Seismic Applications Richard St-Aubin – Canada (IPEX USA LLC.)
12:20 pm	12:40 pm		– Preparation and studying of Thermoplastic Cross-linked Polyethylene Pipe Dongming Yu – China (Menred Group Co., Ltd.)	– Considerations When Restraining Molecularly Oriented PVC Pipe Joints Keith H. Steinbruck – U.S.A. (SiDE – Steinbridge LLC – S&B / Hultec)	
Monday	12:40 pm	1:40 pm		Lunch (12:40–1:40 pm)	
Monday	1:40 pm	3:20 pm	2A / 2B	<b>2A – CASE STUDY</b>	<b>2B – TESTING</b>
	1:40 pm	2:00 pm		– Innovative Athletic Field Drainage and Geothermal Warming and Cooling Design James Goddard – U.S.A. (JimGoddard3, LLC)	– Fatigue Crack Growth Testing in Chlorinated Water at Elevated Temperatures – Test Equipment and Data Reduction Joerg Fischer – Austria (Johannes Kepler University Linz – Institute of Polymeric Materials and Testing)
	2:00 pm	2:20 pm		– Polyethylene pipeline performance against earthquake Hideki Omuro – Japan (Kubota Chemix Co., Ltd.)	– Effect of Eccentricity on the Measurement of Hydrostatic Pressure Resistance of Plastic Pipes Suleyman Deveci – U.A.E. (Borouge Pte Ltd.)
	2:20 pm	2:40 pm		– Panoramic view of a water main replacement project in a fire-seismic geohazard zone in California Krista Moita – U.S.A. (East Bay Municipal Utility District)	– Testing parameters influencing the Strain Hardening Modulus Ernst van der Stok – The Netherlands (Kiwa Technology)
	2:40 pm	3:00 pm		– Manage to Fail – an HDPE Solution Peter Dyke – U.S.A. (Alliance for PE Pipe)	– Investigation of the creep failure behaviour of polyamide pipes Hiroto Taguchi – Japan (Tokyo Gas Co., Ltd.)
	3:00 pm	3:20 pm		– Polyolefin Pipes in Middle East – Today and Tomorrow Robert John Lawrence – United Kingdom (Projac Land and Marine)	– Development of Cyclic Pressure Fatigue (CPF) Test Method Ernest Lever – U.S.A. (Gas Technology Institute)



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Day	Start	End	Session	A-sessions	B-Sessions
Monday	3:20 pm	3:50 pm		Coffee Break	
Monday	3:50 pm	5:30 pm	3A / 3B	<b>3A – DISINFECTIONS</b>	<b>3B – GAS</b>
	3:50 pm	4:10 pm		<ul style="list-style-type: none"> <li>- Literature review: Effect of ClO<sub>2</sub> on Aging of Polymer Materials and related test method Ernst van der Stok – The Netherlands (Kiwa Technology)</li> </ul>	<ul style="list-style-type: none"> <li>- Development of Polyethylene Ball Valve to Pursue Robustness Ryosuke Nagahisa – Japan (Hitachi Metals, Ltd.)</li> </ul>
	4:10 pm	4:30 pm		<ul style="list-style-type: none"> <li>- Aging mechanism of polyethylene pipe materials in chlorine dioxide and hypochlorite solution Márton Bredács – Austria (Polymer Competence Center Leoben GmbH)</li> </ul>	<ul style="list-style-type: none"> <li>- Modern PE pipe enables the transport of hydrogen René Hermkens – The Netherlands (Kiwa Technology)</li> </ul>
	4:30 pm	4:50 pm		<ul style="list-style-type: none"> <li>- Chlorine-dioxide resistant HDPE: Mechansim, analytical tools and solutions Mark Boerakker – The Netherlands (SABIC Technology center Geleen, The Netherlands)</li> </ul>	<ul style="list-style-type: none"> <li>- Design and Qualification of PA-PERT Pipe for Oil and Gas Transportation Liang Yu – U.S.A. (Polyflow LLC)</li> </ul>
	4:50 pm	5:10 pm		<ul style="list-style-type: none"> <li>- New Discoveries in Stabilizing Drinking Water Pipes in Contact with Chlorine Dioxide Jung Du Kim – U.S.A. (Songwon Industrial Group)</li> </ul>	<ul style="list-style-type: none"> <li>- Squeeze-off and rerounding of plastic pressure pipes Juergen Wuest – Germany (SKZ – Das Kunststoff-Zentrum)</li> </ul>
	5:10 pm	5:30 pm		<ul style="list-style-type: none"> <li>- Effect of beta-nucleation on aging and crack growth resistance of polypropylene exposed to chlorinated water Joerg Fischer – Austria (Johannes Kepler University Linz – Institute of polymeric materials and Testing)</li> </ul>	<ul style="list-style-type: none"> <li>- Assessing the remaining service lifetime of PE pipes: an Australian case study Nolene Byrne – Australia (Deakin University)</li> </ul>
End of Day					

# PRELIMINARY PROGRAM

Day 2, Tuesday

Day	Start	End	Session	A-sessions	B-Sessions
Tuesday	9:00 am	5:30 pm		DAY2: Technical Sessions	
Tuesday	9:00 am	10:40 am	4A / 4B	<b>4A – JOINTS</b>	<b>4B – LARGE DIAMETER</b>
	9:00 am	9:20 am		– New testing method for electrofusion welds Daniel Ejdeholm – Sweden (Swerea KIMAB)	– PE100-RC in large diameter sea outfall application Mark Yu – China (Borouge)
	9:20 am	9:40 am		– Acceptance criteria for volume defects in welded assemblies, detected and sized using the phased array ultrasonic technique Dominique Gueugnaut – France (ENGIE Lab CRIGEN)	– PE100 large diameter water transmission pipelines take off in Asia Andrew Wedgner – U.A.E. (Borouge Pte Ltd.)
	9:40 am	10:00 am		– The effects of ambient temperature during fusion on the cooling rate of butt fused HDPE Amanda Hawkins – U.S.A. (McElroy Manufacturing)	– Large pressure pipe system, fully PE100 Martin Andersson – Sweden (Hallingplast AS)
	10:00 am	10:20 am		– Quality assurance on welded joints with the mechanised linear shear test (LST) Juergen Wuest – Germany (SKZ – Das Kunststoff-Zentrum)	– The development of Large-calibre Macrofibre-enhanced polyethylene composite pipe Jiang Fengliang – China (Jilin Province Rongyi Project Piping Co.,Ltd.)
	10:20 am	10:40 am		– Investigation of the failure behavior of polyethylene electrofusion-sockets Isabelle Berger – Austria (Polymer Competence Center Leoben GmbH, Austria)	– Performance of large marine HDPE pipes during the submersion as based on laboratory testing Ilija Radeljic – Norway (Pipelife Norway)
Tuesday	10:40 am	11:10 am		Coffee Break	
Tuesday	11:10 am	12:50 pm	5A / 5B	<b>5A – LIFETIME</b>	<b>5B – PROCESSING</b>
	11:10 am	11:30 am		– Evaluation of thickness loss and critical particle size with abrasion wear method based of Darmstadt Testing Sandra Almeida Carbajal – Mexico (Dow Chemical Company)	– Performance Evaluation of Counter-Rotating Continuous Mixer and Twin Screw Mixer for High Density Polyethylene Sayaka Yamada – Japan (Kobe Steel, Ltd – Kobelco)
	11:30 am	11:50 am		– Unimodal MDPE (PE2708/PE80) materials significantly improve abrasion resistance in slurry flow applications Wes Long, Ashish Sukhadia – U.S.A. (Performance Pipe and Chevron Phillips Chemical Co. Lp)	– New process for thermoforming integrated sockets on high-rigidity PP-HM underground drainage pipes with solid or multi-layer structured walls Lorenzo Spagna – Italy (Sica S.p.A.)
	11:50 am	12:10 pm		– The Evolution of Elastomeric Joints in Plastic Pipeline Systems and the use of Long Term Stress Relaxation Testing to Predict Service Life Julian West – The Netherlands (Trelleborg Pipe Seals)	– Innovative Millimeter Waves Technology for Measuring Diameter Ovality, Wall Thickness and Sagging of Large Pipes John Dognazzi – U.S.A. (Sikora)
	12:10 pm	12:30 pm		– The impact of point loads on the service life of non-pressurised polypropylene pipes Johanna Josefsson – Sweden (Swerea KIMAB)	– C PVC-O, pushing limits beyond in molecular orientation Ignacio Munoz De Juan – Spain (Molecor Tecnologia S.L.)
	12:30 pm	12:50 pm		– Study on parameters affecting durability of polyethylene pipes for hot water application Hiroyuki Nishimura – Japan (Kyoto Institute of Technology)	– Extrusion technology, the next steps Rob Spekrijse – The Netherlands (Rollepaal)



# PRELIMINARY PROGRAM

Day 2, Tuesday

Day	Start	End	Session	A-sessions	B-Sessions
Tuesday	12:50 pm	1:50 pm		Lunch (12:50–1:50 pm)	
Tuesday	1:50 pm	3:30 pm	6A / 6B	<b>6A – PROCESSING</b>	<b>6B – SUSTAINABILITY</b>
	1:50 pm	2:10 pm		– Extrusion of Thick Wall Pipes Using a New Bimodal PE4710/PE100 Resin Vivek Rohatgi – U.S.A. (Chevron Phillips Chemical Company)	– Slow Crack Growth Resistance of Non-Virgin Polymers Andreas Frank – Austria (Polymer Competence Center Leoben GmbH, Austria)
	2:10 pm	2:30 pm		– Effect of Insufficient Homogenization During the Extrusion of Polyethylene Pipes on Butt Fusion Joint Integrity Mike Troughton – U.S.A. (TWI Ltd.)	– Characterization of post-use PE-PP recyclate blends for pipe applications Markus Gall – Austria (Johannes Kepler University Linz)
	2:30 pm	2:50 pm		– Effect of Carbon Black Distribution on Polyethylene Pipes Suleyman Deveci – U.A.E. (Borouge Pte Ltd.)	– Sustainable Construction - Environmental Impact Analysis of Integrating Recycled HDPE into Corrugated Piping Daniel Currence – U.S.A. (Plastics Pipe Institute – PPI)
	2:50 pm	3:10 pm		– Production of Potable Water Pipes for Chile Using the Inline Extrusion Process Douglas D. Keller – U.S.A. (LyondellBasell)	– New crosslinked (PEX) pipes from sustainable resources Jacob John – U.S.A. (Uponor Inc.)
	3:10 pm	3:30 pm		– Taking Polyethylene (PE) Pipe to New Heights....and New Diameters Norbert Jansen – Germany (Borealis Polymere GmbH)	– Product Environmental Footprint compared with EPD's and EN15804 Ludo Debever – Belgium (TEPPFA)
Tuesday	3:20 pm	3:50 pm		coffee break	
Tuesday	3:50 pm	5:30 pm	7A / 7B	<b>7A – SUSTAINABILITY / RECYCLING</b>	<b>7B – COMPOSITES / DESIGN</b>
	3:50 pm	4:10 pm		– Variability and quality control for production of corrugated HDPE pipe manufactured with recycled content Crista K. McNish – U.S.A. (Advanced Drainage Systems, Inc)	– ML pipe technology with different materials Rob Spekrijse – The Netherlands (Rollepaal)
	4:10 pm	4:30 pm		– Multilayer polymer pipes – possible utilization of recycled material Pavel Hutar – Czech Republic (Institute of Physics of Materials)	– Polyethylene/Aluminum/Polyethylene Composite Pipe for Fuel Gas Application Li Baiqian – China (Rifeng Enterprise Group Co. Ltd.)
	4:30 pm	4:50 pm		– Engineering and Testing Requirements for Infrastructure Pipeline Applications Utilizing HDPE Recycled Materials Michael Plumier – U.S.A. (Crossroads Engineering Services)	– Development Status and Technical Requirements of Composite Insulating Plastic Pipe Hu Fa – China (Sinopec Beijing Research Institute of Chemical Industry)
	4:50 pm	5:10 pm		– A New Test Method to Evaluate the Service Life of Virgin and Recycled HDPE Materials Relative to Slow Crack Growth Michael Plumier – U.S.A. (Crossroads Engineering Services)	– Trenchless Advancements in Horizontal Directional Drilling with Fused PVC Tom Marti – U.S.A. (Underground Solutions, Inc.)
	5:10 pm	5:30 pm		– Guidelines for Corrugated HDPE Pipes Manufactured with Recycled Materials for Highway Culvert and Storm Drain Applications Michael Plumier – U.S.A. (Crossroads Engineering Services)	– Use of Risk Based “Fit for Purpose” Design for Safe and Structurally Reliable PE Pressure Pipelines Predrag Micic – Australia (Qenos Pty Ltd.)
End of Day					

# PRELIMINARY PROGRAM

Day 3, Wednesday

Day	Start	End	Session	A-sessions	B-Sessions
Wednesday	9:00 am	4:20 pm		DAY3: Technical Sessions and 5-Minutes Poster Session and Closing	
Wednesday	9:00 am	10:40 am	8A / 8B	<b>8A – CASE STUDY INDUSTRIAL</b>	<b>8B – TESTING SCG</b>
	9:00 am	9:20 am		– The World’s First Class 3 Safety Related Nuclear PE4710 Piping Project – 10 Years Review Lonnie Corley – U.S.A. (Ameren Missouri)	– Sensitivity of Strain Hardening Modulus to Molecular Properties of Polyethylene Suleyman Deveci – U.A.E. (Borouge Pte Ltd.)
	9:20 am	9:40 am		– Performance of Steel Reinforced Flexible Pipelines for Hydrocarbons Applications Carlos Fernandez – U.S.A. (FlexSteel Pipeline Technologies)	– Effect of carbon black, compounding and pipe extrusion on the slow crack growth pent test result Siddharth Athreya – U.S.A. (The Dow Chemical Company)
	9:40 am	10:00 am		– PE100 pipes operational challenges for high temperature fluid and slurry applications for industrial applications Prashant Nikhade – India (Borouge Pvt. Ltd.)	– The Influence of Molecular Design Variables of Bimodal HDPE on the Slow Crack Growth Resistance Measured by Accelerated Methods Cliff Mure – U.S.A. (The Dow Chemical Company)
	10:00 am	10:20 am		– High-Density Polyethylene Piping Systems: Experiences from the first global nuclear power new build safety related installation Shane Schuessler – U.S.A. (ISCO Industries, Inc.)	– Evaluation and comparison of standard and accelerated slow crack growth determination methodologies: effect of the comonomer type influence Carlos Dominguez – Spain (Rey Juan Carlos University – LATEP – GIQA)
	10:20 am	10:40 am		– High modulus polypropylene helps the development of large diameter utility tunnel Dongyu Fang – China (Borouge Pte Ltd.)	– Determination of the slow crack growth resistance of PA12 pipe grades Florian Arbeiter – Austria (Montanuniversitaet Leoben, Polymer Competence Center Leoben GmbH)
Wednesday	10:40 am	11:10 am		Coffee Break	
Wednesday	11:10 am	12:50 pm	9A / 9B	<b>9A – STANDARDS</b>	<b>9B – STRUCTURED PIPES</b>
	11:10 am	11:30 am		– New EN standard for Infiltration units Zoran Davidovski – Austria (Pipelife International)	– Innovations in production of corrugated pipe John Vlachopoulos – Canada (McMaster University)
	11:30 am	11:50 am		– Harmonizing the European Hygienic Requirements Peter Sejersen – Belgium (TEPPFA)	– High modulus PP tanks delivers practical & Cost effective sewage treatment to rural Indonesia Kh Lou – Singapore (Borouge Pte Ltd.)
	11:50 am	12:10 pm		– Accelerated pipe test methods to evaluate PE 100-RC materials – possibilities for ISO standardisation Thomas R. Kratochvilla – Austria (TGM - Federal Institute of Technology, Plastics Technology and Environmental Engineering)	– Introduction of Large Dia Profiled PE/PP Pipes For Innovative “Piped Distribution Network” (PDN) For Irrigation In India. C. B. Dandekar – India (Rex Polyextrusion Pvt. Ltd, India)
	12:10 pm	12:30 pm		– Various approaches to the improvement of polyethylene piping quality in Osaka Gas Katsutaka Nakagami – Japan (Osaka Gas Co., Ltd.)	– Large diameter polyethylene pressure pipes Bulent Kuzkaya – Germany (KHB GmbH)
	12:30 pm	12:50 pm		– Design of large diameter buried pipes Peter Sejersen – Belgium (TEPPFA)	– Study on the resistance to external pressure test methods of plastic inspection chambers Zhang Wei – China (Sinopec Beijing Research Institute of Chemical Industry)

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Day 3, Wednesday

Day	Start	End	Session	A-sessions	B-Sessions
Wednesday	12:50 pm	1:50 pm		Lunch (12:50 PM – 1:50 pm)	
Wednesday	1:50 pm	3:30 pm	10A	<b>10A – CASE STUDY</b>	
	1:50 pm	2:10 pm		<ul style="list-style-type: none"> <li>- A Recent Survey of Water Main Failures in the US and Canada Steven Folkman – U.S.A. (Utah State University)</li> </ul>	
	2:10 pm	2:30 pm		<ul style="list-style-type: none"> <li>- The use of temperature, lubrication, and supplied hydraulic pressure in the production of oriented PVC pipe Jie Feng – U.S.A. (DowDuPont Inc.)</li> </ul>	
	2:30 pm	2:50 pm		<ul style="list-style-type: none"> <li>- Longitudinal Crack in Large PVC-U Pressure Pipes Pipe Gelation Influence Case Study Discussion (Part II). Joaquin Lahoz Castillo – Spain (CEIS, Centro de Ensayos Innovacio Servicios, S.L)</li> </ul>	
	2:50 pm	3:10 pm		<ul style="list-style-type: none"> <li>- Novel stabilizers for PVC/CPVC pipe and fittings Mario Berna – Italy (Reagens)</li> </ul>	
	3:10 pm	3:30 pm		<ul style="list-style-type: none"> <li>- CPVC Application in the fire sprinkler system in China Fu Zhimin – China (Goody Technology Co., Ltd.)</li> </ul>	
	3:30 pm	3:50 pm	5-Minute Poster Session	<b>5-MINUTE POSTER SESSION</b>	
	3:30 pm	3:35 pm		<ul style="list-style-type: none"> <li>- Successful rehabilitation of a DN1000mm steel water pipe with Pe100 under the busy Kesas Highway, Malaysia Kh Lou – Singapore (Borouge Pte Ltd.)</li> </ul>	
	3:35 pm	3:40 pm		<ul style="list-style-type: none"> <li>- Field test of glass fiber reinforced polyethylene pipe system at soften ground Mitsuaki Tokiyoshi – Japan (High Stiffness Polyethylene Pipes Association)</li> </ul>	
	3:40 pm	3:45 pm		<ul style="list-style-type: none"> <li>- The Test Method of Metallic Elements for Polyethylene Plastic Pipes or materials for Pipes and Its Application Xiaoying Lu – China (Petrochina Petrochemical Research Institute)</li> </ul>	
	3:45 pm	3:50 pm		<ul style="list-style-type: none"> <li>- Preserving Marine Environment from Hydrocarbon Contamination with Leak Free PE100 Pipes Used in Off-Shore Oil Wells Farraj Tashman – U.A.E. (Borouge pte. Ltd.)</li> </ul>	
10 mins	3:50 pm	4:00 pm		Closing Ceremony (Sarah Patterson)	