

Day	Start	Duration	End	A-sessions	B-Sessions
<b>September 25th: Conference Opening and Technical Sessions</b>					
Monday	9:00	1:00	10:00	<b>OPENING SESSION</b>	
	9:00	0:10	9:10	PPXXI WELCOME - Sarah Patterson – U.S.A. (Plastics Pipe Institute (PPI))	
	9:10	0:25	9:35	ID264 - DEVELOPING CIRCULAR SOLUTIONS IN THE PETROCHEMICALS INDUSTRY - Jay Chaffin – U.S.A. (Chevron Phillips Chemical)	
	9:35	0:25	10:00	ID168 - SUSTAINABILITY AT THE CORE OF STRATEGIES TO ACCELERATE THE JOURNEY TOWARDS CARBON NEUTRALITY - Zoran Davidovski – Austria (Pipelife)	
	10:00	0:30	10:30	<b>COFFEE BREAK SPONSORED BY INVISTA</b>	
	10:30	1:00	11:30	<b>1A - WATER SECURITY</b> Chair: Zoran Davidovski - Austria (Pipelife)	<b>1B - QUALITY INFRASTRUCTURES</b> Chair: Tony Calton - United Kingdom (The European Plastic Pipe and Fittings Association (TEPPFA))
	10:30	0:20	10:50	ID158 - Microplastics and Plastic Pipes - Peter Sejersen – Belgium (TEPPFA)	ID113 - ASTM F17 - Fifty Years of Plastics Piping Progress - Kevin Shanahan – U.S.A. (ASTM International)
	10:50	0:20	11:10	ID122 - Safeguarding our Water: NSF/ANSI/CAN 61 - Kathryn Foster – U.S.A. (NSF International)	ID152 - How to Strengthen the Development of China's Plastic Pipe Industry in the New Market Environment - Wang Zhanije – China (China Plastics Piping Association (CPPA))
	11:10	0:20	11:30	ID240 - The future harmonized certification scheme for products in contact with Drinking Water - Peter Sejersen – Belgium (TEPPFA)	ID205 - Commitment to Sustainability in structured-wall PVC-U pipes for sewerage. "Circular Certification" for "circular products" - Ricardo Pascual Galan – Spain (AENOR)
	11:30	1:00	12:30	<b>LUNCH SPONSORED BY TECNOMATIC</b>	

Monday	12:30	1:40	14:10	<b>2A - STRUCTURED DESIGN</b> Chair: John Kurdziel - U.S.A. (Advanced Drainage Systems)	<b>2B - WHOLISTIC APPROACH</b> Chair: Vincent Stone - Belgium (PVC4 Pipes/ The European Council of Vinyl Manufacturers (ECVM))
	12:30	0:20	12:50	ID165 - Design methods and actual performance of large diameter structured wall pipes - Anders Andtbacka – Finland (Uponor)	ID117 - Fisher-Tropsch Hydrocarbons as Processing Aids in Injection Molding & Extrusion - Steve Torcia – U.S.A. (Sasol Chemicals LLC)
	12:50	0:20	13:10	ID236 - A new concept for testing of new generation of thermoplastic stormwater retention crates - Shad Sargand – U.S.A. (Ohio University)	ID187 - Fracture mechanics as a tool for the assessment of the degree of gelation of U-PVC pipes - Antonio Rodolfo Jr. – Brazil (Braskem S/A)
	13:10	0:20	13:30	ID262 - Sand-box testing for structural assessment of plastic manholes - Ricky Selle – Germany (Selle Consult)	ID119 - New Cyclic Method for PVC Force Mains - Jay Parvez – U.S.A. (Uni-Bell PVC Pipe Association)
	13:30	0:20	13:50	ID227 - The carbon cost of our buried infrastructure – Is it out of site and out of mind? - Paul O'Regan – United Kingdom (AquaSpira Limited)	ID258 - PVC-O DN1200 (48"): The most sustainable solution for transporting water under pressure up to 25 bar (305 psi) of pressure - Ignacio Muñoz – Spain (Molecor Tecnologia)
	13:50	0:20	14:10	ID123 - 3D printing of flow profiles for Inspection Chambers and Manholes - Ton Schoenmaker – The Netherlands (Pipelife)	ID199 - Thermoforming process for sockets integrated with Rieber system in Molecularly Oriented Polyvinyl Chloride (PVCO) pipes for pressurized water distribution. - Orlando Martinez – Italy (SICA S.p.A.)
	14:10	0:30	14:40	<b>COFFEE BREAK</b>	
Monday	14:40	2:00	16:40	<b>3A - APPLICATION OF RECYCLATES</b> Chair: Douglas Keller - U.S.A. (LyondellBasell)	<b>3B - SAVVY TOOLS</b> Chair: Jim Johnston - U.S.A. (McElroy)
	14:40	0:20	15:00	ID133 - Critical Quality Control of Post Consumer Recycled PVC - Shane Harton – U.S.A. (C.W. Brabender Instruments Inc.)	ID245 - Leveraging Data Insights to Improve Safety, Quality and ROI - Nayib Joussef – U.S.A. (McElroy Manufacturing Inc)
	15:00	0:20	15:20	ID157 - Recycled PE blends for Corrugated Pipes: Effect of processing parameters and additives on thermo-mechanical properties, degradation, and crack propagation - Alae Lamtai – Canada (Université de Sherbrooke)	ID225 - Accelerating Sustainability with Digital Solutions - Joseph Venegas – The Netherlands (Rollepaal)
	15:20	0:20	15:40	ID120 - Study of sGF orientation in Polyethylene reinforced with short glass fibres pipe - Mitsuaki Tokiyoshi – Japan (C. I. TAKIRONCIVIL Corporation)	ID142 - Using a Multi Frequency Microwave Inspection Approach to Accurately Inspect and Categorize HDPE Butt Fusions - Robert Stakenborghs – U.S.A. (Advanced Microwave Imaging)
	15:40	0:20	16:00	ID263 - Performance Evaluation of Sustainable Polypropylene Blends for Corrugated Drainage Pipe Applications - Michael Pluimer – U.S.A. (University of Minnesota)	ID260 - Application for geolocating water networks - Dolores Herran – Spain (Molecor)

	16:00	0:20	16:20	ID194 - Establishing requirements for recycled HDPE in HDPE Conduit - Michael Pluimer – U.S.A. (University of Minnesota)	ID151 - Progress in inline plastic pipe measurements – New application fields due to advanced Radar technology - Jan Hendrik Beckmann – Germany (iNOEX GmbH)
	16:20	0:20	16:40		ID181 - Innovative approach to measure layer transitions of corrugated pipes - Christian Schalich – Germany (SIKORA AG)

### September 26th: Technical Sessions

Tuesday	9:00	1:40	10:40	<b>4A - FOOD SECURITY</b> Chair: Robin Bresser - Germany (Borealis)	<b>4B - ENERGY</b> Chair: Randy Knapp - U.S.A. (Plastics Pipe Institute (PPI))
	9:00	0:20	9:20	ID213 - Innovating for Sustainability Enhancements in Polyethylene Based Microirrigation Products - Rachel Anderson – U.S.A. (DOW Inc.)	ID126 - Published hydrogen permeation study on 4 different types of PE pipes - Norbert Jansen – The Netherlands (PE 100+ Association)
	9:20	0:20	9:40	ID244 - Field and FEM Performance of Agricultural Mains - Kevin White – U.S.A. (E. L. Robinson Engineering of Ohio)	ID145 - Design of Unplasticized Polyamide 12 Oilfield Line Pipe Based On Published Regression Curves and ASTM F3524 - James F. Mason – U.S.A. (Mason Materials Development LLC)
	9:40	0:20	10:00	ID179 - Boosting The Food Security of “The Future of The Egypt” by Engineering Advantages of Large Diameter PE100 Pipes - Ahmed Abd Allah Haroun – Egypt (Al Amal Alsharif Co.)	ID223 - Leak tightness of PVC fittings with hydrogen - Roland Valk – The Netherlands (Kiwa Technology)
	10:00	0:20	10:20	ID252 - How PVC pipes can contribute to food safety in the world’s mega-cities - Tobias Johnsen, Ole Grøndahl Hansen – Denmark (PVC Information Council Denmark)	ID257 - Fusion Test Program on Polyamide Piping Systems for Distribution Networks up to 16 bar - Carine Lacroix – France (GRTgaz RICE)
	10:20	0:20	10:40	ID139 - Results of a 2022 Comprehensive Study of Water Main Performance in the USA and Canada - Steven L. Barfuss – U.S.A. (Utah State University)	ID259 - Solutions for Reinforced Thermoplastic Pipes (RTPs) - Ali M. Alghamid – Saudi Arabia (SABIC)

	10:40	0:30	11:10	<b>COFFEE BREAK SPONSORED BY PSILab</b>	
Tuesday	11:10	1:40	12:50	<b>5A - INSTALLATION DESIGN</b> Chair: André Nijland - The Netherlands (Wavin Technology and Innovation B.V.)	<b>5B - JOINING TECHNOLOGY</b> Chair: Forest Hampton - U.S.A. (Lubrizol Advanced Materials)
	11:10	0:20	11:30	ID108 - Bending & Deflection Limits for PE Pipe - Existing & Proposed - Chris Ampfer – U.S.A. (WL Plastics)	ID186 - UV Stabilization of PP used for Compression Fittings and Clamping Saddles - Alireza Sahaf Amin – Iran (Vahid Industrial Group)
	11:30	0:20	11:50	ID229 - Cut-and-Cover Pipelines with Poor Trench Walls - Amster Howard – U.S.A. (Relativity Publishing)	ID243 - Selection and evaluation of organotin stabilizer chemistries for PVC and CPVC pipe and fitting systems. - Robert Smith – U.S.A. (PMC Organometallix)
	11:50	0:20	12:10	ID228 - Myriad of Choices for Buried Pipe Installation - Amster Howard – U.S.A. (Relativity Publishing)	ID146 - Sustainable Restraint Joint for PE Pipes as an Alternative Technology for SUEZ - Jennifer Ravereau – France (SUEZ – CIRSEE)
	12:10	0:20	12:30	ID242 - New Approach to HDPE Pipe Fusion Provides the Ability to “Meet the Pipe Where It Lays” - Chris Greggs – U.S.A. (McElroy Manufacturing)	ID251 - Sustainability & the return of the PRR gasket - Guido Quesada – Costa Rica (Simulation Driven Engineering)
	12:30	0:20	12:50	ID211 - An Investigation of the Effect of Backfill Type on the Performance of Large Diameter Polyolefin Pipe Under Highway Loadings at Minimum Cover - Joseph Babcanec – U.S.A. (Advanced Drainage Systems)	ID217 - Structural health monitoring of plastic pipelines by short carbon fiber reinforced electrofusion joint - Riwu Yao – China (Zhejiang University)
Tuesday	12:50	1:00	13:50	<b>LUNCH SPONSORED BY FB BALZANELLI</b>	

Tuesday	13:50	1:40	15:30	<b>6A- MANUFACTURING TECHNOLOGY</b> Chair: Christian Apel - Germany (Radius Group Procurement Company)	<b>6B - NEW LEARNINGS</b> Chair: Carl Baker - U.S.A (Shell Polymers)
	13:50	0:20	14:10	ID249 - 2.7 meters and growing - Henning Stieglitz – Germany (BC Holding GmbH)	ID207 - Long-Term Performance in PE100 and PE100RC Resins: Does the Comonomer Length Matter? - Carlos Domínguez – Spain (LATEP – Rey Juan Carlos University)
	14:10	0:20	14:30	ID156 - "IF" (Interference) - Screw Technology - Rainer Viessmann – Germany (Hans Weber Maschinenfabrik)	ID215 - Development of a New Quality Control Test Method to Assess the Stress Crack Resistance of HDPE with Recycled Content - Michael Pluimer – U.S.A. (University of Minnesota)
	14:30	0:20	14:50	ID112 - Rheological characterization and flow modeling of sag in HDPE pressure pipe - Harry Mavridis – U.S.A. (LyondellBasell)	ID214 - A new generation of high performance biaxially oriented polyethylene and polypropylene pressure pipes – An update - Ajay Taraiya – The Netherlands (SABIC)
	14:50	0:20	15:10	ID265 - Re-distribution of Residual Stress in Plastic Pipes and Its Effects on Hydrostatic Pressure Test Results - Suleyman Deveci – U.A.E. (Borouge PTE Limited)	ID148 - A new high performance bimodal polyethylene resin for power and telecommunication applications - Olivera Bilic – U.S.A. (Chevron Phillips Chemical Company LP)
	15:10	0:20	15:30	ID132 - PVC-U pipes: Optimal extrusion conditions for a 100+ year design lifetime - Joaquin Lahoz – Spain (Centro de Ensayos, Innovación y Servicios (CEIS))	ID212 - Following Slow Crack Growth in Polyethylene Pipes using PAUT - Peter Postma – The Netherlands (Kiwa Technology)
	15:30	0:30	16:00	<b>COFFEE BREAK</b>	

Tuesday	16:00	1:20	17:20	<b>7A - RESILIENCE AND SUSTAINABILITY</b> <b>Chair: Dean Jenne - U.S.A</b> <b>(SACO AEI Polymers)</b>	<b>7B - RECYCLING LONG-TERM</b> <b>Chair: Monica De La Cruz - Spain</b> <b>(Spanish Plastic Pipes and Fittings</b> <b>Manufacturers Group (AseTUB/ANAIP))</b>
	16:00	0:20	16:20	ID237 - Innovative additive technology for improving the chlorine resistance of potable HDPE pipes with low NIAS (Non-intended additional substances) - Tania Weyland – Switzerland (BASF Schweiz)	ID166 - The recycling commitment of the European plastic pipe industry - Ludo Debever – Belgium (TEPPFA aisbl)
	16:20	0:20	16:40	ID233 - Different thermo-oxydative tests in comparison for one industrial PE pipe compound - Norbert Jansen – Germany (Borealis Polymere)	ID220 - From Fishing Nets to Plastic Pipes: New Challenges for Recycled Polyethylene Flows in a Circular Economy - Rafael Ángel Gracia Munoz – Spain (King Juan Carlos University)
	16:40	0:20	17:00	ID164 - Closing the loop for PE-X pipe in practice through advanced recycling - Robin Bresser – Germany (Borealis)	ID221 - Effect of polypropylene (PP) post-consumer recyclate on the slow crack growth resistance of a virgin PP pipe material - Jessica Hinczica – Austria (Polymer Competence Center Leoben GmbH)
	17:00	0:20	17:20	ID234 - Driving Towards Circular Economy- Evaluation of PEX Recycling - Jacob John – U.S.A. (Uponor Inc)	ID196 - What needs to be understood to use recyclates in plastic pipes: the influence of impurities on long-term properties - Mario Messiha – Austria (Polymer Competence Center Leoben)

## 27th September: Technical Sessions and Closing

	9:00	1:40	10:40	<b>8A - TEST METHODS</b> Chair: Peter Sejersen - Belgium (The European Plastic Pipe and Fittings Association (TEPPFA))	<b>8B - RESOURCING SUSTAINABILITY</b> Chair: Steve Sandstrum - U.S.A. (Borealis Compounds Inc.)
Wednesday	9:00	0:20	9:20	ID141 - Influencing factors of Cracked Round Bar test - Yanlei Hu – China (National Test Center of Polymer and Building Materials (NTC), SINOPEC (Beijing) Research Institute of Chemical Industry Co., Ltd.)	ID153 - A Holistic Environmental Footprint assessment of the European Plastic Pipe business - Ludo Debever – Belgium (TEPPFA aisbl)
	9:20	0:20	9:40	ID161 - The Effect of the Notch Radius on the Notched Pipe Test Results - Aisha AlHashmi – U.A.E. (Borouge Pte.)	ID253 - Improving mechanical sorting of post-consumed plastic waste to achieve circular plastic pipes - Márton Bredács – Austria (Polymer Competence Center Leoben GmbH)
	9:40	0:20	10:00	ID163 - Fatigue crack growth resistance of polypropylene pipe compounds containing post-consumer packaging recyclates - Paul J. Freudenthaler – Austria (Johannes Kepler University Linz)	ID201 - One Small Step for Education - One Giant Leap for the Sustainable Future of our Industry's Workforce - White G. Jee – U.S.A. (JEE Consulting Services LLC)
	10:00	0:20	10:20	ID193 - Alternative Slow Crack Growth test for the HDPE conduit industry: Correlation between ESCR and NCLS - Patrick Vibien – U.S.A. (Plastics Pipe Institute)	ID182 - The Alliance for PE Pipe Launches Inaugural Year of Certified Professionals Program with Success - Edward Alan Ambler – U.S.A. (Alliance for PE Pipe)
	10:20	0:20	10:40	ID261 - How to control cracks in pipes to guarantee a safe operation - Gerald Pinter – Austria (Montanuniversitaet Leoben)	ID129 - How an industry lead PVC plastic pipes recycling scheme can change perceptions, educate, and provide valuable insights for a more sustainable solution - Cindy Bray – Australia (Plastics Industry Pipe Association of Australia Limited)
		10:40	0:30	11:10	COFFEE BREAK

<b>Wednesday</b>	<b>11:10</b>	<b>1:40</b>	<b>12:50</b>	<b>9A - CASE STUDIES</b> <b>Chair: Lance MacNevin - U.S.A.</b> <b>(Plastics Pipe Institute (PPI))</b>	<b>9B - NEW TEST METHODS</b> <b>Chair: Suleyman Deveci - U.A.E.</b> <b>(Borouge Pte.)</b>
	11:10	0:20	11:30	ID180 - PE100 Material supports world's largest wastewater treatment plant – Bahr El Baqar, Egypt - Peter Youssef Sadek – Egypt (New Mena Plast)	ID209 - Development of hydro-axial tension method for whole pipe tensile test - Robert Stakenborghs – U.S.A. (Advanced Microwave Imaging)
	11:30	0:20	11:50	ID138 - The Use of PE100+ Materials in Trenchless Technology Applications - Andrew Wedgner – The Netherlands (PE100+ Association)	ID137 - A success story: New testing alternatives for Spanish and LATAM PE100RC pipe manufacturers Federico Muñoz – Spain (Centro de Ensayos, Innovación y Servicios (CEIS))
	11:50	0:20	12:10	ID232 - High Density Polyethylene (HDPE) Pipe Brings Safe Shores and Reliable Electricity to Rwanda - Richard Coombs – U.S.A. (ISCO Industries)	ID222 - Determining the quality of old and new PE pipes using the CPENT - Roland Valk – The Netherlands (Kiwa Technology)
	12:10	0:20	12:30	ID204 - Advantages of PE-RT II Pipes in District Heating Application System - Abdullah Saber – U.A.E. (Borouge)	ID219 - Making the accelerated Notch Pipe Test (aNPT) future-proof - Ernst van der Stok – The Netherlands (Kiwa Technology)
	12:30	0:20	12:50	ID241 - The Brazilian PVC pipe association quality assurance program: 30+ years of success - Antonio Rodolfo Jr. – Brazil (Braskem S/A)	ID255 - Acceptance criteria for defects in welded assemblies, coupling Phased Array Ultrasonic Testing and destructive tests - Dominique Gueugnaut – France (GRTgaz Research & Innovation Centre for Energy)
	<b>12:50</b>	<b>1:00</b>	<b>13:50</b>	<b>LUNCH SPONSORED BY SICA</b>	



<b>Wednesday</b>	<b>13:50</b>	<b>1:40</b>	<b>15:30</b>	<b>10A - DESIGN CONSIDERATIONS</b> <b>Chair: Bruce Hollands - U.S.A.</b> <b>(Uni-Bell PVC Pipe Association (PVCPA))</b>	<b>10B - ENVIRONMENTAL CONSIDERATIONS</b> <b>Chair: Cindy Bray - Australia</b> <b>(The Plastics Industry Pipe Association of Australia (PIPA))</b>
	13:50	0:20	14:10	ID159 - Simulation driven optimization of spigot bevels - Guido Quesada – Costa Rica (Simulation Driven Engineering SRL)	ID175 - Lifecycle Cost Benefits of PVC-U pipes in Europe Alessandro Marangoni – Italy (Althesys Srl)
	14:10	0:20	14:30	ID121 - Re-rounding of Deflected High-Density Polyethylene Pipe - Kevin White – U.S.A. (E. L. Robinson Engineering of Ohio)	ID118 - Updated Environmental Product Declaration (EPD) for PVC and PVCO Pressure Pipe and PVC Nonpressure Pipe - Richard Nichols – U.S.A. (Uni-Bell PVC Pipe Association)
	14:30	0:20	14:50	ID216 - Microwave Inspection Development and Evaluation for Spoolable Reinforced Thermoplastic Pipe - Chantz Denowh – U.S.A. (ADV Integrity Inc)	ID256 - Insights gained in developing Environmental Product Declarations for plastic pipes in Australia - Matthew Hynes, Lucy Croker – Australia (Iplex Pty Limited, Vinindex Pty Limited)
	14:50	0:20	15:10	ID171 - Design of HDPE Water Mains for the Lateral Spread Seismic Hazard - Michael O'Rourke – U.S.A. (Member of ASCE / SEI)	ID116 - Polypropylene (PP) – A Carbon Footprint Assessment - Steve Sandstrum – U.S.A. (Borealis Compounds)
	15:10	0:20	15:30	ID246 - Building Pipelines Through Embankments to Last - Shawn R. Coombs – U.S.A. (Advanced Drainage Systems)	ID177 - New Cradle-to-Gate Data for the Production of Fossil PVC in Europe - Vincent Stone – Belgium (Europe Council of Vinyl Manufactures aisbl)
	<b>15:30</b>	<b>0:30</b>	<b>16:00</b>	<b>CLOSING</b> - Sarah Patterson – U.S.A. <b>(Plastics Pipe Institute (PPI))</b>	