





Time	Day 1 : October 19, 2016	
	<i>HALL H Pad. 29</i>	<i>HALL MELODIA (Building CS - Centro Servizi)</i>
10:30 -13:00		<p><b>Pre-conference Workshop for IWA Young Water Professionals: YWP Workshop Developing a Roadmap: ICT solutions for Water in Smart Cities</b></p> <p>Chair: IWA representative</p> <p>This workshop for and by Young Water Professionals (YWP), is developed by the International Water Association on behalf of the partners of WIDEST, a European Commission project, which aims to establish an interconnected ICT for Water community.</p>  <ul style="list-style-type: none"> <li>• Workshop Opening and Ice-breaker</li> <li>• Introduction of Organization Team: Lisa Bross (Germany), Sumbi Shimwambwa (Zambia), Isabella Susnjara (UK), Jędrzej Bylka (Poland), Joao Nuno (Portugal), Emilio Attilio Lanfranchi (Italy) and Aim of Workshop</li> <li>• Round of introduction of participants</li> <li>• Presentation 1: EU Roadmap development - ICT4Water Cluster – Marcin Stachura</li> <li>• World Café: Chances of ICT4Water/ Ideas of new fields for ICT in the water sector</li> </ul>
13:00 -14:00	<i>Lunch Break</i>	
14:00 -15:00		
15:00 -17:00	<p><b>WAREG Workshop: European Water Systems: cooperation and investments</b></p>  <p>The roundtable will be introduced by Mr. Biancardi, President of WAREG (European Water Regulators) and Commissioner at AEEGSI. He will briefly update on the cooperation among water regulators in Europe and on the regulatory framework in Italy. During the session the issue of investments will be discussed from different point of views, regulators and industry.</p> <p>Moderator, Maria Salvetti, IAE de Paris / Sorbonne Business School, France</p> <p style="text-align: center;"><b>Introduction</b></p> <p>Alberto Biancardi, President, WAREG (European Water Regulators) &amp; Commissioner, AEEGSI Italian Regulatory Authority for Electricity Gas and Water Services (Italy)</p> <p style="text-align: center;"><b>Regulation and Investments in the water sector in Scotland</b></p> <p>Gordon Hughes, Scottish Regulatory Authority &amp; Un. Edinburgh (UK)</p> <p style="text-align: center;"><b>Investment strategy in water distribution in Suez</b></p> <p>D. Duccini, Suez Smart Solutions (France)</p> <p style="text-align: center;"><b>Investment strategy in Milan water distribution system</b></p> <p>L. Persi, MM (Italy)</p> <p style="text-align: center;"><b>Investments in the water sector in Europe</b></p> <p>Roberto Zocchi, EurEau (Italy)</p> <p style="text-align: center;"><b>Round table discussion: how Regulators and operators can stimulate investments in the water sector - Conclusions</b></p>	<p><b>Pre-conference Workshop for Young Water Professionals: YWP Workshop Developing a Roadmap: ICT solutions for Water in Smart Cities - Chair: IWA representative</b></p> <ul style="list-style-type: none"> <li>• Presentation 2: Lessons learned by WIDEST - Aitor Corchero (Eurecat)</li> <li>• Presentation 3: The ICT4Water roadmap promoted by EC DG-CONNECT</li> <li>• Presentation 4: WIDEST's roadmaps (WIDEST representative) <ul style="list-style-type: none"> <li>o Sematic Interoperability and Ontologies topical roadmap</li> <li>o Smart City Connection topical roadmap</li> <li>o Smart Water Grids topical roadmap</li> </ul> </li> <li>• Round Tables Discussion on ICT solutions for Water in Smart Cities</li> <li>• Presentation of results</li> </ul>
17:00 - 18:00	<i>Cocktail Reception for WAREG, IWA YWP, Widest, IWA WLSG, SWAN - Sponsored by MM</i>	

Time	Day 2 : October 20, 2016	
	HALL C (Pavillion 26)	HALL D (Pavillion 26)
9:30 - 10:00	<b>IWA WaterIDEAS Conference</b>	
	Opening Ceremony - Welcome speech by: H2O Fair Organisers, local Institutions, IWA and SWAN representatives	
10:00 - 11:30	<b>Plenary Session (Hall C and Hall D)</b> Chair: Marco Fantozzi, IWA (Italy)	
	<b>Public policy and regulation for resilient water services – Outcomes from the 3rd International Water Regulators Forum</b> Carolina Latorre Aravena, IWA (Netherlands)	
	<b>Regulation in water loss management and benchmarking to achieve efficiency: an International perspective</b> Marco Fantozzi & Allan Lambert, IWA (Italy/UK)	
	<b>EU Report on leakage reduction: key concepts and recommendations for policy makers and regulators</b> Cor Merks, Witteveen+Bos (Netherlands)	
	<b>Water regulation for efficiency in water distribution management: the way forward in Italy</b> Lorenzo Bardelli, AEEGSI Italian Regulatory Authority for Electricity Gas and Water Services (Italy)	
	<b>Round table discussion: Collaboration between Water Regulators and IWA for efficient and resilient water services</b> Conclusions	
11:30 - 11:50	Break	
11:50 - 13:00	<b>WATER REGULATION Workshop</b> Sharing international experience in Water Regulation Chair: Fabio Tambone, AEEGSI & WAREG (Italy)	<b>IWA WaterIDEAS Conference</b> Session: Modelling, Monitoring and Asset Management Chair: Francisco Cubillo (Spain)
	<b>Building strategic cooperation with water sector, agencies and institutions</b> Szilvia Szalóki, Commissioner of Hungarian Regulator & WAREG Vice President (Hungary)	<b>Keynote: A reliable asset lifetime model for water distribution networks management.</b> F. Cubillo, P. Gómez (Spain)
	<b>Regulation on water and sewage utilities in Israel</b> Yaron Geller & Amir Schicsha, Israel Water Authority (Israel)	<b>Numerical models for water distribution networks optimization and decision support</b> A. Crosta, DHI (Italy)
	<b>Regulation to support efficiency in water distribution management in US</b> Mary Ann Dickinson, Alliance for water efficiency (USA)	<b>Risk based Asset Management for Water Supply Pipes</b> G. Gangl (Germany)
	<b>Greece towards the adoption of the IWA Water Loss Best Practice</b> Nikolas Petroulias, Hellenic Water Association (Greece)	<b>Telemetry &amp; DMA solutions to improve water networks efficiency and reduce NRW</b> R. Crambert, Lacroix Sofrel (France)
	<b>Round table discussion &amp; conclusions</b>	<b>New equations for Prediction of pipe burst rate in water distribution networks</b> M. J. Mehrani, M. R. Jalili, Y. T. Abadi, M. R. Tashayoei, R. Yusefpour (Iran)
13:00 - 14:00	<b>IWA &amp; AEEGSI Lunch Meeting</b>	<i>Lunch Break</i>

Time		Day 2 : October 20, 2016	
		HALL C (Pavillion 26)	HALL D (Pavillion 26)
14:00 - 15:40	<p><b>SWAN WORKSHOP: ACHIEVING DATA INTEGRATION AND RESILIENCE PLANNING</b></p>  <p><b>Session: How to achieve water resilience through innovation</b> Chair: Keith Hilson, SWAN Council Member and i2O (UK)</p> <p><b>SWAN Introduction</b> Amir Cahn, SWAN Director (UK)</p> <p><b>The EC Roadmaps for ICT for water Management</b> Marcin Stachura (Poland)</p> <p><b>Advanced data integration, export and analysis</b> Giorgio Magni, ISOIL (Italy)</p> <p><b>Measuring risks to service and resiliency</b> Francisco Cubillo, Canal Isabel II<sup>a</sup>, Madrid (Spain)</p> <p><b>Solutions to reduce leakages, energy costs and optimize pressure surges in the water network</b> Alberto Pautasso, Grundfos (Denmark)</p> <p><b>Pump Station Efficiency : A new way of thinking</b> Simon Bunn, Suez Smart Solutions (New Zealand)</p> <p><b>Q/A Session</b></p>	<p>IWA WaterIDEAS Conference</p> <p><b>Session: Energy management and pressure management</b> Chair: Zoran Kapelan (UK)</p> <p><b>Keynote: PAT as a strategy for optimal WDS management: leakage reduction and energy production</b> C. Tricarico, M. S. Morley, S. Santopietro, Z. Kapelan, D. Savić, G. de Marinis, F. Granata, R. Gargano</p> <p><b>Energy recovery in the water distribution system by intelligent pressure management</b> S. Parra, F. Krönlein, S. Krause, F. W. Günthert (Germany)</p> <p><b>Understanding hydraulic transients' episodes in distribution networks to improve assets management. The case study of Madrid.</b> P. Gómez (Spain)</p> <p><b>Application of a Full Scale PAT System to Antalya Water Distribution Network for Pressure Reduction and Energy Production</b> A.Muhammetoglu, E.Karadirek, H. Muhammetoglu (Turkey)</p> <p><b>ITAENERGY, A tool to perform energy audits in water pressurized networks</b> E. Gómez, F. Sanz, J.J. Pérez-Palomar, J. Soriano, R. García, E. Cabrera (Spain)</p> <p><b>The importance of the minimum path criterion in the design of water distribution networks</b> C. Ciaponi, E. Creaco, L. Franchioli, S. Papiri (Italy)</p> <p><b>Q/A Session</b></p>	
15:40 - 16:00	Break	Break	
16:00 - 18:00	<p><b>Session: The keys to data integration</b> Chair: Stephen Galea S. John (Malta)</p> <p><b>Innovative on-line system for drinking water monitoring</b> F. Marelli, A. Manenti, M. Bernasconi, MM (Italy)</p> <p><b>TEA water quality laboratory: from a legal obligation to an opportunity</b> M. Pedroni, B. Truzzi, G. Bonetti, Tea Acque (Italy)</p> <p><b>Smart water systems: a social necessity</b> M. Bondesan, Hera (Italy)</p> <p><b>Advanced technologies for Asset Management &amp; Water Loss Management in transmission pipes</b> A. Giusto, PAM (France), K. Laven, Echologics (Canada)</p> <p><b>Dynamic Asset Management: Asset management evolution with Smart Networks</b> D.Duccini, A. Letexier, D.Sinapah, Suez Smart Solutions (France)</p> <p><b>Sustainable management of water at basin scale using advanced DSS and multilayer analysis</b> M. Gorla, CAP (Italy)</p>	<p><b>Session: ICT &amp; data analysis</b> Chair: Lydia Lyroudia (UK)</p> <p><b>Keynote: Towards Multi-Objective Efficiency in Water Distribution Networks through a Decision Support System</b> G. Anzaldi, A. Corchero, X. Domingo, F. Guitart, J. Pijuan, E. Rubion, R. Sanfeliu (Spain)</p> <p><b>Software based localisation of leaks in a water supply network</b> G. Gangl, R. Navas (Germany)</p> <p><b>Risk based sensor placement methodologies for leak detection in water distribution systems</b> E. Forconi, Z. Kapelan, M. Ferrante, H. Mahmoud, C. Capponi (Italy/UK)</p> <p><b>Performance improvement and anomalies detection in water distribution systems by means of "Data analytics"</b> C. Corallo, ElettroGreenPower (Italy)</p> <p><b>WISDOM project: innovative ICT systems and services for efficient water use</b> A. Blackall (UK)</p> <p><b>HORIZON 2020 PIANO PROJECT: A strategic cooperation partnership for water research and innovation between Europe and China</b> C. Percopo, E. Giusta (Italy)</p>	
18:00 - 20:00	IWA WaterIDEAS Gala Dinner + YWP Award Ceremony		
20:00			

Time		Day 3 : October 21, 2016	
		HALL C (Pavillion 26)	HALL D (Pavillion 26)
9:30 - 10:40	<p><b>IWA WaterIDEAS Conference</b>  <b>MM Workshop: Experiences and innovative solutions for advanced management of water networks</b>            Chair: Marco Fantozzi (Italy)</p> 	<p><b>Investments planning strategy in MM to support innovative water distribution management</b>            L. Persi, MM (Italy)</p> <p><b>Added Value to MM operation processes by means of new technologies</b>            F. Marelli, MM (Italy)</p> <p><b>ICT as a key enabler of water supply systems' process optimization and transformation – the example of MM Spa for the city of Milan</b>            N. Rivezzi, MM (Italy)</p> <p><b>Meter reading process automation; from a regulatory obligation to an opportunity to rethink and reengineer the way we enable energy distribution services and integrate new ones</b>            S. Tonoli, A2A (Italy)</p>	<p><b>IWA WaterIDEAS Conference</b>  <b>Session: Modelling water distribution systems</b>            Chair: Jurica Kovac (Croatia)</p> <p><b>Keynote: A comparison between Pattern Based and Neural Network short-term water demand forecasting models</b>            F. Gagliardi, S. Alvisi, M. Franchini, M. Guidorzi (Italy)</p> <p><b>Batch and online Time Series Mining for demand characterization and short-term forecasting at urban and individual level</b>            A. Candelieri (Italy), F. Archetti (Italy)</p> <p><b>Water distribution system vulnerability analysis based on fractals and complex networks</b>            A. Di Nardo, M. Di Natale, C. Giudicianni, R. Greco, G.F. Santonastaso (Italy)</p> <p><b>Diagnosis of water distribution systems by frequency domain analysis.</b>            C. Capponi, A. Zecchin, M. Ferrante, J. Gong (Italy/Australia)</p>
10:40 - 11:00	Break		
11:00 - 13:00	<p><b>MM Workshop: Experiences and innovative solutions for advanced management of water networks</b>            Chair: Fabio Marelli (Italy)</p> <p><b>MM-ISOIL from Expo to Città di Milano: Target Water Safety Plan by innovative technologies in drinking water on-line monitoring</b>            A. Manenti MM / A. Ranieri ISOIL / A. Weingartner SCAN</p> <p><b>Condition assessment and water loss management in large diameter pipes</b>            P. Pina, Pure Tech (Canada)</p> <p><b>The GIS in the world today and tomorrow, the GIS platform for the MM water management Milano</b>            G. Sitta, GeoGraphics / F. Curatola, Esri Italia / S. Tani, G. Meroni, MM (Italy)</p> <p><b>Integrated Security Solution for water systems</b>            D. Lagori, C. Fuchs, LENEL-Commend Italia (Italy)</p> <p><b>Industrial Internet of Things, Data Collection and Historian Analytics for Quality and Leakage Management in Urban Water Distribution Networks</b>            C. Giussani, M. Testino, GE -Servitecno (Italy)</p> <p><b>Active Water Leakage Detection Solution</b>            U. Lamperti, C. Ranaglia, NEC Italia (Italy)</p>	<p><b>Session: Leakage management and pressure management</b>            Chair: Nikolas Petroulias (Greece)</p> <p><b>Keynote: Pipe survey by means of the Portable Pressure Wave Maker device: the real case of Trento supply system</b>            S. Meniconi, B. Brunone, M. Frisinghelli, E. Mazzetti, M. Larentis, C. Costisella (Italy)</p> <p><b>An Acoustic Method for WDS Monitoring and Management: Water Leak Detection</b>            F. Costanzo, G. Caiazzo, A. Fiorini Morosini (Italy)</p> <p><b>Active leakage control in Carpiano (Italy) using advanced acoustic technology case study</b>            O. Fruchthman, Aquarius Spectrum (Israel)</p> <p><b>Relation between New Technologies &amp; Pressure Modulation</b>            D. Duccini, Suez Smart Solutions (France)</p> <p><b>Leak Detection Competition for Water Utility employees</b>            J. Kovac (Croatia)</p> <p><b>Innovative low cost technologies for next generation water networks</b>            S. Kartakis (UK)</p>	
13:00 - 14:00	Lunch Break		<b>IWA Water Loss SG Lunch Meeting</b>

Time	Day 3 : October 21, 2016	
	HALL C (Pavillion 26)	HALL D (Pavillion 26)
14:00 - 15:40	<p><b>Session: How to improve water loss management 1</b> Chair: Marco Fantozzi (Italy)</p> <p><b>Keynote: Fulfilling a need: A 'Free to all' Web-based Information on NRW, Apparent Loss, leakage and Pressure Management</b> A. Lambert, M. Fantozzi, J. Kovac, M. Sheperd (UK/Italy/Croatia/South Africa)</p> <p><b>Tea Acque water distribution system management strategy</b> N. Ansaloni, M. Pedroni, M. Zaghini (Italy)</p> <p><b>Water loss analysis and technologies applied in CAP</b> D. Chiuch (Italy)</p> <p><b>Improving Water Management by means of new technologies and efficient use of data</b> E. A. Lanfranchi, F. Marelli (Italy)</p> <p><b>NRW Skills Certification: A Pilot Approach in Jamaica</b> M. A. Dickinson (USA)</p>	<p><b>Session: Water Balance &amp; Performance Indicators</b> Chair: Malcolm Farley (UK)</p> <p><b>Keynote: Designing NRW Reduction Strategies for Efficiency, Resilience and Sustainability, Malcolm Farley (UK)</b></p> <p><b>How can IWA water balance calculation using "bottom-up" approach (based on result of hydraulic measurement) can become cheaper and faster</b> D. Koldžo (Bosnia)</p> <p><b>Application of a Water Balance adapted to Intermittent Water Supply and Flat-rate Tariffs without Customer Metering in Tiruvannamalai, India</b> M. Mastaller, P. Klingel (Germany)</p> <p><b>Water loss reduction and control: Kingdom of Bahrain Case study (Oral)</b> H. Hussain Al Maskati (Bahrain)</p> <p style="text-align: center;">Q/A</p>
15:40 - 16:00	Break	
16:00 - 18:00	<p><b>Session: How to improve water loss management 2</b> Chair: Alex Rizzo (Malta)</p> <p><b>Keynote: Comparison of the Top-down &amp; Bottom-up Approaches to Water Accounting</b> S. Galea St. John, A. Rizzo (Malta)</p> <p><b>The Dreampipe Challenge to stimulate the development of new or improved ways to help water utilities in developing countries mobilise adequate funding for non-revenue water (NRW) reduction activities</b> Froeydis Gording (UK)</p> <p><b>Applying Side Pressure Audit Boards as an Innovative Method to Achieve Smart Water Distribution Network and Reduce its Establishment Costs</b> M. Saleh, A.R.Panah, N.Jahanfar (Iran)</p> <p><b>Experimental characterization of a pressure reducing valve</b> S. Meniconi, B. Brunone, E. Mazzetti, D. B. Laucelli, G. Borta (Italy)</p> <p style="text-align: center;">Q/A</p>	<p><b>Session: Consumption, water quality &amp; Apparent losses</b> Chair: David Duccini (France)</p> <p><b>Keynote: Advanced Network Cleaning: A Multi-level Approach for Diagnosis of Discoloration Risk in the Drinking Water Distribution System</b> D. Duccini, D. Sinapah (France)</p> <p><b>OPAR: an operative model for water-demand forecasting</b> E. Brussolo (Italy), M. Scibetta (Italy)</p> <p><b>Accuracy of Single-Jet and Multi-Jet Water Meters under the Influence of the Filling Process in Intermittently Operated Pipe Networks</b> D. Walter, M. Mastaller, P. Klingel (Germany)</p> <p><b>Smart Control effects of pressure in the water distribution network of Hamadan in order to deal with water shortage crisis, flood or earthquake</b> H. Jafari- B. Matinpour (Iran)</p> <p style="text-align: center;">Q/A</p>
18:00 ENDS		

**POSTER Session: From 11:50 on Thursday 20th to 15:40 on Friday 21st**

**POSTER SESSION  
IT, Water Resources Management**

**Deep-Seated Challenges to Water Sector and Human Life in Pakistan**

M. A. Khan, M. W. Bashir Babar (Pakistan)

**Smart and Sustainable Urban Water Management in Quetta City, Pakistan**

A. Ali, M. Ostwal, N. Agarwal, V. Madan (Germany)

**Exergy based computer tool for evaluation of groundwater intake system**

J. Bylka, T. Mróz (Poland)

**Novel, non-intrusive microwave sensors for water analysis**

V. Koutsospyrou, A. D. Wheatley (UK)

**Integration of Geographic Information System (GIS) Web-based and the intelligent pressure control system in water distribution network in the city of Hamadan in order to optimal management of the distribution network pressure**

H. Jafari- B. Matinpour (Iran)