



NOVEMBER 24th 2017

International Conference

Sustainable and resilient water management in urban environment

Enterprise Hotel / Sala Venere - corso Sempione, 91 - Milan (Italy)
M5 Domodossola

L. Alberti, M. Antonelli, T. Barni, G. Becciu, A. Biancardi, M. Bimpas, G. Brignoli, S. Bunn, A. Cahn, S. Cetti,
D. Corritore, S. Dahmani, A. de Carli, M. Dickinson, D. Duccini, M. Fantozzi, D. Fossati, P. Fraternali, O. Galasso,
T. Gentile, M. Ghia; M. Giacobbo Scavo, K. Gortz, M. Granelli, A. Guadagnini, L. Hart, K. Hays, K. Hilson,
V. Iacone, E. Lanfranchi, A. Lete, L. Lucentini, A. Manenti, F. Marelli, M. Monti, D. Pasinelli, I. Pepe, L. Persi, A. Ridi,
N. Rivezzi, F. Scarpa, L. Scesi, G. Sordi, S. Tonoli, L. Vamvakeridou-Lyroudia, I. Worm, R. Zocchi



Programme

08:15–09:00

REGISTRATION & WELCOME COFFEE

09:00–09:15

WELCOME & INTRODUCTION TO THE CONFERENCE

Marco Granelli, Environment and Mobility Councilor Municipality of Milan
Davide Corritore, Ceo MM Spa

09:15–09:45

"RELATIONSHIP BETWEEN REGULATOR AND WATER UTILITY FOR A SUSTAINABLE AND RESILIENT WATER MANAGEMENT IN URBAN ENVIRONMENT: THE ITALIAN & MILAN EXPERIENCE"

Alberto Biancardi*, Commissioner Italian Regulatory Authority for Electricity Gas and Water
Italia Pepe, Managing Director ATO Città Metropolitana di Milano
Stefano Cetti, Managing Director MM Spa

09:45–11:15

"NEW RULES FOR RISK MANAGEMENT"

Moderator: **Laura Scesi**, Politecnico di Milano

- *Water quality for potable use: activities and perspectives* - **Luca Lucentini**, Director ISS - Istituto Superiore di Sanità
- *Actual and future status of Seveso river in Milan* - **Dario Fossati**, General Director Environment Lombardy
- *Water resources in Lombardy: rules and governance* - **Viviane Iacone**, Water Resources Director Lombardy
- *Milano: a city of water – Challenges and opportunities of managing water in urban environment* - **Giuseppina Sordi** - Environment and Energy Director Municipality of Milan
- *Safe water: the added value of technology and innovation* - **Fabio Marelli**, Water Services Director MM Spa
- *The new frontier in water efficiency in water management* - **Mary Ann Dickinson**, Ceo Alliance for Water Efficiency

11:15–11:30

COFFEE BREAK

11:30–13:00

"INVESTMENTS PLANNING AND INNOVATION FOR WATER DISTRIBUTION MANAGEMENT"

Moderator: **Alberto Guadagnini**, Politecnico di Milano

- *Monitoring and removal of emerging contaminants* - **Manuela Antonelli**, Politecnico di Milano - **Angela Manenti**, Laboratory and Product Quality Manager MM Spa
- *Mapping and evaluation of contamination of ground water resources to better protect ground water in the city* - **Luca Alberti**, Politecnico di Milano - **Matteo Monti**, Mechanical Maintenance and Wells MM Spa
- *Modeling Milan water distribution system for innovative network management and design* - **Gianfranco Becciu**, Politecnico di Milano - **Francesca Scarpa**, Innovation and Modelling Analysis MM Spa
- *Investments planning strategy in MM to support innovative water distribution management* - **Lorenzo Persi**, Strategic Planning and Investor Relations Manager MM Spa
- *Cogeneration with heat pump at Salemi Pumping station in Milan* - **Daniele Pasinelli**, A2A, **Massimo Ghia**, Hydraulic Work Design Manager MM Spa
- *Experiences in removing esavalent chrome at Crescenzago, Anfossi and Armi pumping stations in Milan* - **Giovanni Brignoli**, Chemical Laboratory Manager A2A Ciclo idrico, **Tomaso Barni**, Electrical and Mechanical Installations Manager MM Spa

13:00–14:00

LIGHT LUNCH

*Invited

Programme

14:00-14:50

"INDUSTRY 4.0: THE NEW FRONTIER IN FINANCING INNOVATION IN THE WATER INDUSTRY"

Moderator: **Marco Fantozzi**, IWA water loss regional representative for Europe

- *Innovative solutions in water distribution management* - **David Duccini**, Suez Environnement
- *How to accelerate the market uptake of "step-change": technologies in water sector* - **Ignaz Worm**, Isle Utilities
- *Industry 4.0: the new frontier in financing innovation in the water industry* - **Mario Giacobbo Scavo**, Value Services
- *The use of artificial intelligence to improve decision-making capabilities in MM* - **Andrea Ridi**, Rulex Inc
- *Silo Breakdown: Water Utilities' Challenge to Operationalize Data* - **Keith Hays**, Bluefield Research

14:50-15:40

"USING DIGITAL TECHNOLOGIES AND ANALYTICS TO DERIVE MORE VALUE FROM WATER INDUSTRY PHYSICAL ASSETS"

Moderator: **Amir Cahn**, SWAN (Smart Water Networks) Forum

- *Enhancing the resilience of interconnected critical infrastructures: Urban flooding in Torbay (UK)* - **Lydia Vamvakieridou-Lyroudia**, University of Exeter
- *ICT as a key enabler of water supply systems' process optimization and transformation - the example of MM Spa for the city of Milan* - **Nicola Rivezzi**, IT Manager MM Spa
- *Smart city operation center* - **Oreste Galasso**, A2A Smart City
- *What is the energy savings potential in a distribution system? Evidences from international case studies* - **Simon Bunn**, Board Member SWAN (Smart Water Networks) Forum

15:40-16:00

COFFEE BREAK

16:00-16:40

"METER READING AND ADVANCED DATA ANALYTICS"

Moderator: **Keith Hilson**, Board Member SWAN (Smart Water Networks) Forum

- *From Smart City to Smart Society* - **Piero Fraternali**, Politecnico di Milano
- *Meter reading process automation, from a regulatory obligation to an opportunity* - **Silvia Tonoli**, A2A
- *Advanced smart metering: Milan water project* - **Emilio Lanfranchi**, Measuring System Manager MM Spa
- *Big data and advanced analytics in meters management* - **Ainhoa Lete**, BuntPlanet

16:40-17:20

"STRATEGIC ASSETS MANAGEMENT"

Moderator: **Roberto Zocchi**, Executive Director WRc

- *Leakage detection, condition assessment and asset rehabilitation planning for investment prioritization and optimization in Milan water system* - **Marco Fantozzi**, Studio Marco Fantozzi, **Teresa Gentile**, Water Network Manager MM Spa
- *Asset management and Investment planning* - **Luke Hart**, Servelec
- *Water loss management in large diameter pipes* - **Sami Dahmani**, Pure Technologies
- *Condition assessment and water loss management in large diameter pipes* - **Karel Gortz**, Echologics

17:20-18:00

ROUND TABLE DISCUSSION: "WHAT IS THE LONG-TERM VISION FOR SUSTAINABLE AND RESILIENT WATER MANAGEMENT IN THE CITY OF THE FUTURE?"

Moderator: **Alessandro de Carli**, Managing Director Aqualab

Participants: **David Duccini**, **MaryAnn Dickinson**, **Amir Cahn**, **Fabio Marelli**, **Manthos Bimpas**

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AMBITO TERRITORIALE OTTIMALE
CITTÀ METROPOLITANA DI MILANO



MM and MM Academy, in collaboration with the Association of Engineers of Milan, organize the international conference **“SUSTAINABLE AND RESILIENT WATER MANAGEMENT IN URBAN ENVIRONMENT”**. Sustainability and resilience are the challenges water utilities have to face while Smart Cities are becoming a reality around the world, as leaders and regulators embrace technology and innovation to meet their cities’ growing infrastructure needs and sustainability goals. What role is water, arguably the most important of all services provided by a city, playing in the city of the future?

Join us for the Conference in Milan to:

- Hear from utilities around Europe engaged in different stages of smart city planning. What are the opportunities as well as challenges and obstacles that utilities need to overcome to guarantee sustainable and resilient water management in urban environment by means of innovation?
- Hear from technology providers whose technologies are being implemented as part of a smart city plan or an integrated water network.
- Increase your awareness on how the adoption of data-driven technologies is supporting water utilities in managing water and wastewater networks worldwide.
- Hear about the vision of the smart city as a platform to improve customer service and city sustainability/resilience into the future. This event brings together key voices from across the European leading utilities and innovators.

This event is the follow up of the workshop **“SMART WATER IN THE CITY OF THE FUTURE”** held in Milan on **OCTOBER 2015** which attracted over 220 attendees from 10 countries! A diverse range of speakers will discuss the challenges and benefits of applying smart technologies for creating resilient water and wastewater systems.

The Association of Engineers of Milan, that evaluated in advance the professional and formative contents and the development of the conference, allows the release of 6 course credits.

Info and registration: academy@mmspa.eu