

Tuesday 19th February 2013

10.00:WEX Registration

11.30 - 12.00: Exchange Meeting 01 (Salones Madrid)

12.05 - 12.35: Exchange Meeting 02 (Salones Madrid)

12.40 - 13.10: Exchange Meeting 03 (Salones Madrid)

13.10 - 13.30: Light Refreshments to be served in the WEX Café

13.30 - 13.45: Opening Statement and Welcome Address by Jim Southworth (TBC) (Salón Castilla)

13.45-14.45: Plenary Session 1 - Water and Energy and Food Security Keynote Session (Salón Castilla)

Chair: Jim Southworth, President, Jim Southworth Consulting

Hubert Genieys, Senior Vice President Corporate Communications, Nestlé Waters; **Dr Alaeddin Idris**, Planning Coordinator and IAO Member for the Evaluation Commission, Sharjah Electricity and Water Authority

Water and energy inputs are inextricably linked to the issue of food security. The complex relationship between water, food and energy in a world of rapidly increasing urban populations requires careful coordinated management in order to mitigate the increasingly manifest imbalances in water, food and energy security.

- What is the importance of an integrated approach to enable better decision making?
- What is the outlook for the impact on limited, high demand ground water resources?

14.50-16.10: Plenary Session 2: Providing Water and Energy Infrastructure to Support Growing Urban Populations

Chair: Barbara Prommegger, Sales Director, Latin America, Hobas

Panel: Samir Bensaid, Director General, IEA – ONEE, Morocco; **Dr Dirk Wittenberg**, General Manager, Remondis Aqua International GmbH; **William Chang**, Executive Managing Director, Emirates Sembcorp Water and Power Company; **Dante Ragazzi Pauli**, Executive Advisor to the Board of Directors, SABESP; **Richard Price**, Head of Capital Delivery, Southern Water

Pressure on water resources coupled to rising energy demand has led to the development of integrated water and energy management strategies. Combining greater cost reduction with the more efficient and sustainable delivery of water and energy infrastructure is essential to support the economic development required to reduce poverty, attract investment and provide a healthy environment to support growing populations.

How can future energy and water management strategies be properly integrated to ensure that they are able to meet the challenges

- The scope and opportunities for more effective integration
- The future of public private partnership in developing Municipal and Environmental Infrastructures
- Benefits of collocation of water and energy facilities
- Climate change mitigation and the impact of renewable technologies

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16.15 - 16.45: Exchange Meeting 04 (Salones Madrid)

16:50-17.50: Plenary Session 3: Desalination and Renewable (Salón Castilla)

Speaker: Miguel Angel Sanz, Director of Innovation and Development, Degremont SA; **Manuel Fariñas**, Director of Innovation, Acciona Agua; **Leon Awerbuch**, Interim Dean IDA Desalination Academy, President Leading Edge Technologies; **Nouicer Abderraouf**, Director of Desalination and Environment, SONEDE, Tunisia

With desalination plants still being one of the greatest users of energy, the pressure is on to find cost-effective, energy-effective ways of supplying water to energy-scarce areas whilst increasing the sustainability of the procedure.

- Current challenges and opportunities
- Cost-effectiveness - innovative means of cost-control
- Options for renewable technologies in desalination
- Competition and innovation
- Experimental technologies and processes
- Energy saving techniques to minimise environmental impacts: incorporating sustainability

Supported by:



17.55-18.55: Workshop Session 1: Wastewater Treatment, Membrane Technology and Water Reuse

Chair: Alex Lloyd, VP Regional Operations, Severn Trent Services; **María Pilar Martín**, Project Director, Aqualia Infraestructuras; **Manuel Rubio Visiers**, President AEDyR; **Seppo Kiiskinen**, Operations Director, LLC Ecovod

New technologies offer a step change in the way wastewater is treated, making it safer, less expensive and less energy intensive. Solving the most pressing problems in wastewater treatment will require technologies that are not just effective but also affordable for a rapidly growing market in the developing world.

- What are the problems with traditional waste water treatment?
- What are the potential for new technologies in terms of cost reduction and improved energy efficiency?
- The role of renewable technologies in water reuse
- Advances in Nitrate Removal
- Case Study: Processes for the removal biological phosphates and nitrates in St Petersburg



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17.55-18.55: Central and Eastern Europe Forum

Speakers: **Pavel Policar**, Chairman of the Board, Czech Water; **Dobromir Simidichiev**, Deputy Minister, Ministry of Regional Development and Public Works, Bulgaria; **Juan Bofill**, Director Europe - Zone2, Aqualia Infraestructuras; **Ian Plenderleith**, CEO, AS Tallina Vesi

- Update on the European WFD and associated directives
- Key policies for adaptation to climate change and population growth to maintain sustainability
- Private foreign Operators / mixed municipal ownership and operations concept (effectiveness of each)
- PPP opportunities in future
- Effectiveness of the local regulatory frameworks and institutions
- Regional business opportunities

19.00-19.30: Exchange Meeting 05 (Salones Madrid)

19.35-20.05: Exchange Meeting 06 (Salones Madrid)

20.30: WEX Global Welcome Cocktail Party

Wednesday 20th February 2013

08.25-08.55: Exchange Meeting Session 07 (Salones Madrid)

09.00-09.25: Plenary Session 4: Financial Keynote (Salones Madrid)

Speaker: H.E Dr Loay AL-Musallam, CEO, National Water Company, KSA

09.30-10.30: Plenary Session 5: The Role of the Private Sector - Panel Debate (Salones Madrid)

Chair: Luis Castilla, President, ACCIONA Agua

Panel: **Roberto Zocchi**, Commercial Coordinator, ACEA Group, **Francisco Beltran**, CEO, Degremont; **Dobromir Simidichiev**, Deputy Minister, Ministry of Regional Development and Public Works, Bulgaria, **H.E Dr Loay AL-Musallam**, CEO, National Water Company, KSA, **Prof. Walid Abderrahman**, Chairman and CEO, Miahona

The delivery of improved infrastructure projects which guarantee secure supplies of water, food and energy are the key drivers of economic progress in the developing world. On a humanitarian level they are also critical to the life expectancy of millions of people deprived of access to clean water or safe sanitation

- Will the private sector be the catalyst for the introduction of the technological and operational innovation required to secure water, energy and food supplies for the developing world?
- What are the opportunities for the private sector in rethinking the links among water, energy, environment, and climate change?
- What role can private industrial companies play in contributing to sustainable development by promoting private to private water and wastewater projects that meet not just their own industrial needs but also the wider humanitarian needs of those of the immediate community in which they exist?
- Alternative financing models



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10.35-11.35: Plenary Session 6: Next Generation Water Reuse (Salones Madrid)

Chair: **Mohsen Mortada**, General Manager Middle East, Malcolm Pirnie/ Arcadis

Panel: **Bastien Simeon**, Global Head of Water, KPMG

Ali Hussain Redha, Director, Water Transmission Directorate, MINISTRY OF ELECTRICITY & WATER Kingdom of Bahrain

Pascal E. Saikaly, PhD, Assistant Professor of Environmental Science and Engineering, Water Desalination and Reuse Center, King Abdulah University of Science and Technology (KAUST)

Water scarcity, due to climate change and population growth, affects one-third of the world's population. Management of our global water resources is vital to creating sustainable water supplies for potable, agricultural, recreational and industrial use.

Reusing water can help augment water supplies whilst providing a sustainable resource for potable water, agriculture, irrigation and industrial operations. This session will look into the future opportunities for water reuse together with an examination of some world leading projects with particular reference to the following key themes:

- What are the barriers to the wider implementation of water reuse technologies and to what degree have cultural beliefs impacted on this?
- What should be the role of regulators and policy makers in promoting the broad adoption of reuse
- Economics of water reuse
- What are the social impacts?
- Next generation technologies for water reuse
- Case Studies



Sponsored by: *The Water Division of ARCADIS*

11.40-12.10: Exchange Meeting 08 (Salones Madrid)

12.15-13.15: Workshop Session 3: Water Industry Process Automation & Control

Chair: Tom Schaefer, Water and Wastewater Industry Manager, Rockwell Automation

Speakers: Oliver Grievson, Flow Compliance & Regulatory Efficiency Manager, Water Industry Process Automation & Control/ Anglian Water

The challenges of balancing ageing control equipment, maintenance costs, increased pressures for efficiency and sustainability and sourcing resources are driving innovations in process technologies. Improvements in water asset management and operations efficiency are critical to meeting population and climate challenges. So will the sector take a proactive approach to technology by making smart choices for the best long-term solutions for its operators and its citizens?

- The Drivers for the use of Process Automation & Control
- The Resistance to the effective use of instrumentation and how to overcome it
- The effective use of data and information to drive informed decision making
- The potential for operational efficiency gains through the effective use of instrumentation, automation & control through informed decision making
- How to determine application solutions which improve process control and reduce operational costs.
- Can these solutions reduce downtime by automating asset management? Can customers benefit from longer term gains?
- How can utilities and operators use best efficiency to meet the many standards and regulations of the Water industry?

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12.15-13.15: Workshop Session 4: Latin America

Chair: Antonio Casado, CEO, Cadagua

Speaker: Dr Fernando J. González Villarreal, Director General, Instituto de Ingeniería, Mexico

Jesus Pinto, Sub-Director General for Water Energy and the Environment, Banobras (tbc)

Claudia L Hernandez, Secretaria General Tecnica del Organismo de Cuenca Aguas del Valle de Mexico – CONAGUA (tbc)

- The challenge of improving water and sewage networks
- Emerging opportunities for investment and development at an international level
- Public-private collaboration
- Regulatory inconsistencies: what can be learnt from successful models?
- Political, climatic and financial instability: what does it mean for the future of the water, wastewater and energy industry?
- Progress towards achievement of the MDGs and what still needs to be done

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13.20-13.50: Exchange Meeting 09 (Salones Madrid)

14.00 - 15.30: WEX Global Roundtable Working Lunch

15.35-16.35: Workshop Session 5: The Future for Waste to Energy

Chair: Paul Porée, General Manager, Advance Water Group

Ralf Buffler, President, Lahmeyer GWK Consult GMBH, **Felix Karmazinov**, Director General, Vodakanal St Petersburg, **Emma Montes**, Head of R&D Department, Cadagua S.A.

The twin aims of reducing carbon emissions and turning the products of waste water treatment into commercial revenue streams are priorities for many organisations in the sector. The search for new means of producing renewable energy from waste water is therefore becoming increasingly prevalent

- Current challenges in expanding renewable energy from waste products including the importance of a clear regulatory and economic framework
- Innovative technologies and processes for sludge treatment and management including reduction of energy demand and generation of energy from the process
- Integration of renewable energy technologies into WWTP
- Assessing Investment and operational risks
- Potential for commercial production of biogas in WWTP
- Case Studies

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15.35-16.35: Workshop Session 6: SHAPING A SMARTER FUTURE: Smart Network

Chair: Christopher Dühren, Vice President of Sales, Sensus GmbH

Antoni Matabosch Grifoll, Director of Integrated Meter Management Services, Grupo Agbar, **Mark Penny**, Managing Director, Incertameter, **Reinhard Hübner**, Investment Manager, SKion GmbH

The challenges of balancing ageing pipes, maintenance costs, increased pressures for efficiency and sustainability and sourcing resources are driving innovations in smart networking. Improvements in water asset management and operations efficiency are critical to meeting population and climate challenges.

- How can we combine smart solutions to eliminate wastage?
- Reduced leaks and NWR means more efficient operations and through innovative monitoring. Can this lead to reduced costs and customer satisfaction?
- Can smart networks collect and share data to improve supply-demand management? What are the benefits to overall long term operations and management.

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16.40-17.10: Exchange Meeting 10 (Salones Madrid)

17.15-19.15: Innovations Forum

Chair: Fiona Griffith, General Manager, Isle Utilities

Speakers: Frank Rogalla, Head of Innovation, aqualia, **Mokhtar Jaait**, Head of Research and Development, IEA-ONEE;

Piers Clark, Commercial Director, Thames Water
Jose Enrique Bofill, Middle East Director, aqualia

Interactive forum beginning with short introductory presentations by panellists relating to innovation in the water sector. These will be followed by presentations of 6-8 innovative technologies in the water sector from selected companies and questions, analysis and debate involving both audience and panel. The aqualia WEX Innovation Forum Award will be presented to the winner at the WEX Gala Dinner on the night of the 20th of February 2013

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17.15-18.15: Workshop Session 7: Middle East Business Development Forum

Chair: Richard Menezes, Managing Director, Utico

Khaldon H. Khashman, Secretary General Arab Countries Water Utilities Association; **José Enrique Bofill**, aqualia Middle East Director;

Alan Thomson, Managing Director Abu Dhabi Sewage and Services Company(tbc); **Badis Derradji**, Acwa Power, Country Manager, Morocco

- Changes and developments in regulation, policies and privatisation strategies
- Guaranteeing the security and supply of water and energy resources to meet the demands of population and industry
- Investment in the development of sustainable, alternative and renewable technologies
- Challenges and opportunities for investment in a rapidly growing market
- Strategic importance of water resources and its impact on interstate relations
- Developments in desalination and its role in addressing the sustainability challenge

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18.20-19.20: Workshop Session 8: Sub-Saharan Africa

Panel: Americo Ferreira, Member of the Board, Aguas de Portugal Internacional; **Sering Jallow**, Director of Water and Sanitation Department, African Development Bank; **Archard R Mutalemwa**, CEO, DAWASA,

Michael Botse-Baidoo, Development and Investment Manager, Ghana Water Company

- Building capacity for water resources Southern Africa
- Programmes for integrated water resources management in the region
- Developing and using groundwater resources in a sustainable manner
- Options for renewable technologies
- Opportunities for public private partnership and the role of IFI's in the region
- Developing trans-boundary water infrastructure

19.25-19.55: Exchange Meeting 11 (Salones Madrid)

20.30: Buses Depart for Gala Dinner and Awards Ceremony

08.25-08.55: Exchange Meeting Session 12 (Salones Madrid)

09.00-10.30: Plenary Session 7: Sustainable Sludge Treatment and Management

Chair: Harald Kleiven, Business Development Manager Biosolids, CAMBI AS

Speakers: Marek Gromiec, Chairman of the National Water Council and Permanent Advisor to the Polish Parliament; **Julian Sandino**, Vice President, Technology Senior Fellow, CH2MHill, **Richard Lancaster**, SBAP Operational Readiness Manager, Environmental Services, UU Operations, United Utilities, **Chris Peot**, Manager, Resource Recovery DC Water

- Current challenges in the field of sludge treatment, use, or disposal
- The response of the industry to increasingly stringent standards and regulations
- Innovative technologies for sludge treatment and management including reduction of energy demand and generation of energy from the process
- Case Studies: Advances in the Thermal Treatment of Sludge in Poland with reference to the upgrades at Czajka WWTP
- United Utilities Sludge Strategy and the Genesis of the SBAP (Thermal Hydrolysis Process at Davyhulme), the benefits associated and the operational readiness activity completed to embed this asset into business as usual activity following commissioning.

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10.40-11.40: Workshop Session 9: Leakage control in Water Networks – The Key to Improving Efficiency

Chair: Martin J Topps, Director of Sales and Business Development - Europe, Mueller/ Echologics

Panel: Peter Horst, PWN, Asset Engineer; **Bambos Charalambous**, Managing Director, Hydrocontrol Ltd (tbc)

Reducing and controlling non revenue water is a complex task. Careful strategic planning encompassing the entire life cycle from sustainable procurement policies through to the use of advanced methods for the assessment of underground assets is critical for all utilities in the implementation of successful non revenue water management programmes.

- Identifying key strategies for the implementation of successful NRW programmes
- Meeting Sustainability Requirements and energy efficiency
- Predicting long term effects by understanding how different factors and practises impact leakage
- Using advanced methods to efficiently assess the condition of underground assets
- Case Studies



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10.40-11.40: Asia Business Forum

Chair: Sahana Sing, Editor, Asian Water;

Ms. Debashree Mukherjee, IAS, Chief Executive Officer, Delhi JAL Board

- What progress is being made in the Indian Water Sector in recent years and what are the changes driving business opportunities?
- What has been the impact of the JNNURM and UDSSMT Indian government programmes in providing a boost to PPP in the water sector in India.

Case Study: Nagpur

Addressing the problem of weak governance in the water sector and better regulatory enforcement

Case Study :Non-Revenue Water The Angat Water Utilization and Aqueduct Improvement Project (Awuaip) is a three-phase project that aims to recover some 394 million liters of water lost daily due to leakages.

12.20-13.20: Workshop Session 11: Intelligent Infrastructure

Chair: Dominique Doucet, South and West Europe Marketing Manager, Itron

Speakers: Jordi Aguilera, Tarragona Area Manager, aqualia
Piers Clark, Commercial Director, Thames Water

A booming global population accompanied by climatic changes, have led to severe water shortages and made the need for improvements in water asset management a critical necessity. With much of the infrastructure reaching the end of its useful life water utilities face the challenge of balancing ageing pipes, maintenance costs, increased pressures for efficiency and sustainability and a challenging outlook for water supplies. But are they making the most out of their infrastructure when it comes to measuring, monitoring and operating their water networks?

- What is the smart network?
- Can Smart Networks make significant contribution in the efforts towards sustainable, efficient, affordable and pure water for all?
- How is the new technology and innovation leading the way in the adoption of new methodologies for Utilities?
- Data Technologies for Water networks
- The impact of AMI in enabling Utilities and their customers to achieve a better balance between demand and supply
- Case study: fixed network installation in the city of El Vendrell (South of Barcelona).

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12.20-13.20: Workshop Session 12: People are our Best Assets

Chair: Tom Freyberg, Editor, Water and Wastewater International
Panel: David Duckworth, former Head of Customer Service Bristol Water and now independent consultant to the water sector.

Glenn Jackson, Learning and Development Consultant, Bolton College, a leading international provider of utility vocational training services.

Linda Greig, Managing Director, Carnegie Enterprise, Carnegie College a leading international provider of utility and renewable vocational training services.; **Mark Hardman**, Managing Director Zaptext, a company specialising in CRM IT solutions.

'People are our best asset' is a very overworked cliché but nowhere more than in the utility industry is it so important and so recognisable. Utilities by their nature rely on their many staff with multiple skills to communicate and to provide technical and operational services in the field. The continuous drive towards the improvement of the customer experience and the achievement of guaranteed standards means that it becomes ever more important for utilities to invest in their people.

- How important is it for utilities to deliver what their customers expect and to meet agreed standards of service?
- What is the impact of recent changes in the water sector of England and Wales which could severely penalise the water utilities for failing to provide acceptable standards of service to their customers?
- How do utilities ensure that employees at all levels are equipped to understand their role in the customer experience and to deliver performance which ensures that the utility meets the agreed standards of service?
- What is an appropriate and balanced learning and development regime for utility staff engaged with customers and how is this determined?
- How do we ensure that the application of IT in support of the customer experience is a help and not a hindrance?

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13.25-14.25: Plenary Session 8: Investing in Water: Panel Debate

Chair: Bastien Simeon, Global Head of Water, KPMG

Ghassan Ejeh, Senior Vice President, BESIX; **Patrick Andrew Mullen**, Water and Sanitation Specialist, International Finance Corporation - Infrastructure Investment (CINUT); **Mark Lane**, Partner Pinsent Masons and Chairman of British Water, **Rui Godinho**, President, APDA (tbc); **Eng. Hasan M. Alattas**, Director General, Technical Department, Saudi Fund for Development

The world economy continues to grapple with the economic chaos caused by the global financial crisis. Whilst investment in national modernisation programmes continues apace in some of the more buoyant economies of Asia and the Central and South America there are still many parts of the globe where the development of essential physical infrastructure remains on hold. What will be the key factors affecting investor confidence in water in 2013?

- What is the current status of the PPP global water market?
- Will the advent of performance contracts address issues of underperformance and how widespread will be their adoption throughout the world?
- What is the role, operations and impacts of IFI investment in developing countries?
- Will the move away from carbon fuels towards renewable energy sources such as solar desalination help or hinder the prospects for investors in the sector?
- Where will investment in the Eurozone come from in 2013?

14.25: Closing Remarks: Jim Southworth

14.30: WEX Global Closing Lunch