



Global challenges. Real solutions

Planning, design and management services for infrastructure development worldwide



Photos from top left to bottom right: Pilcomayo river environmental and socio-economic studies, Argentina. Nile basin, irrigation and drainage, Ethiopia. Sharjah sewage treatment plant, UAE. Portsmouth and Havant wastewater transfer and treatment, UK. La Farfana sewage treatment works, Chile. Broadlands catchment water quality study, Norfolk, UK. The Palm Jumeirah potable water network design, UAE.

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Halcrow @ the IWA World Water congress and exhibition: industrial forum and workshop – Monday and Tuesday

- **Industrial forum: Monday 20 September, 14.15 - 15.45 (Room 14)** Sustainable Investment in Infrastructure Assets: best practice for investment optimisation, exploring the approaches, techniques and tools available, and identifying their range of application.

Presented by Will Williams, vice president - asset management

- **Workshop: Tuesday 21 September, 12.00 - 15.45 (Room 2)**
Innovative Water Partnerships, Session 2: how can private sector engagement help to avert the global water security/scarcity crisis? How can this help be realised?

Chair: Michael Norton MBE, managing director - water and power

Facilitated by: Dr Richard Harpin, director - water security/scarcity

Halcrow @ the IWA World Water congress and exhibition: introductions and paper presentations - Monday

- **Keynote address:** Cities of the future in today's developing countries.

Canada's Bill Cosgrove introduced by Halcrow's Russ MacDonald
(Room 17, 08:15)

- **Water, climate and energy:** Developing a new approach to the management of urban drainage systems - the UK response to recent severe water flooding.

Presented by Elliot Gill (Room 13, 09:20)

Halcrow @ the IWA World Water congress and exhibition: introductions and paper presentations - Tuesday

- **Securing new and traditional water resources for the future:** Innovation for integrated water management.
Presented by John Martin (Room 5, 09:20)
- **Water, ecosystems and catchments:** Water resources modelling of the Rift Valley Lakes, Ethiopia.
Presented by Peter von Lany (Room 11, 10:20)
- **Science and application of water treatment:** Modelling combined sewer overflow reductions using green roofs in the Bronx, New York.
Presented by Danielle Hartman (Room 13, 11:20)

Halcrow @ the IWA World Water congress and exhibition: introductions and paper presentations – Tuesday (cont')

- **Water, ecosystems and catchments:** The use of scenario-based modelling to support the development of a sustainable, integrated water resources plan for south-east England.

Presented by Peter von Lany (Room 11, 12:00)

- **Water ecosystems and catchments:** Water security - the invisible crisis. Presented by: Michael Norton MBE, managing director - water and power (Room 11, 14:40)

Halcrow @ the IWA World Water congress and exhibition: introductions and paper presentations - Wednesday

- **Science and application of water treatment:** Preventing trihalomethane formation - the ability of granular activated carbon and Brimac media to remove colour and total organic carbons from drinking water in the north-west of Scotland.

Presented by John Martin (Room 3, 12:20, Wednesday)

- **Water, ecosystems and catchments:** Genetic algorithm-based optimisation of water resources allocation under drought conditions.

Presented by Richard Harpin (Room 13, 14:15)

Halcrow @ the IWA World Water congress and exhibition: paper presentations - Thursday

- **Managing utilities and their assets:** Asset management in action - asset inventory and condition assessment of pressure pipes/force mains in Hillsborough County, Florida.

Presented by Will Williams (Room 2, 11:40)

- **Science and application of water treatment:** Improving energy efficiency through optimal control of pumps in water supply and distribution systems.

Presented by Will Williams (Room 13, 09:15)

- **Cities of the future:** Sustainable water cycle planning - integrating water and the built environment.

Presented by Elliot Gill (Room 14, 10:00)

Halcrow @ the IWA World Water congress and exhibition: poster presentations

- Two-step optimisation yields huge savings for large municipal water distribution systems (P014)
- Sustainability and asset management - carbon footprinting a capital improvement programme (P041)
- Water resource allocation and optimisation modelling using economic accounting principles - a tool for river basin planning (P133)
- Implementing a transboundary water resources management - lessons learned from the Mekong (P141)
- Scope for innovation in design of natural treatment systems (P452)