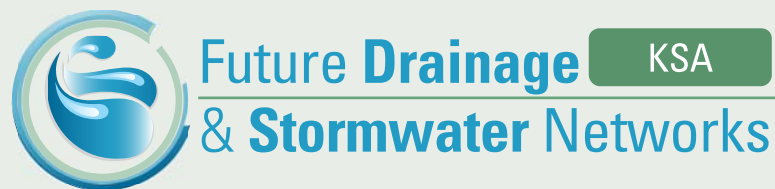


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Principal Civil Engineer - Team Leader,
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Advisor to the Minister, Ministry of
Environment, Water and Agriculture

Abdulrahman Alshehri
Operations Senior Manager,
National Water Company

About Alrafi
Program Director,
National Water Company

Bandar Alalwi
Director of Investment Department,
Yanbu Municipality

Senior Representative
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Head of Infrastructure Section,
Archen Engineering Consultants

Dr. Helalley Abdelhady
Head of Alexandria (Egypt)
wastewater treatment plants,
Alexandria Sanitary Drainage

Atef Nooh
Head of Storm Water
Drainage Department,
Khatib & Alami CEC

Eng. Kheder Mohamed Badawi
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Assistant Professor,
Sultan Qaboos University, Oman

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Dr. Anna Grichting Solder
Assistant Professor, Dept. of
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Qatar University

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SEMINAR DAY ONE

TUESDAY 18TH APRIL

08:00 Registration, refreshments and networking



08:30 Chairman's Welcome and Opening Remarks

Dr. Anna Grichting Solder, Assistant Professor, Dept. of Architecture and Urban Planning, **Qatar University**
Saudi's Drainage & Stormwater Networks Masterplan and Projects

08:40 Keynote address: Overview of the Ministry of Environment, Water and Agriculture 5 year's upgrade to the water and drainage networks

Dr. Ayad al Daiyyi, Adviser to the Minister, Minister of Environment, **Water and Agriculture**

09:10 Keynote address: Overview of the Ministry of Municipality and Rural Affairs plans and projects

Dr. Akram Hassan, Adviser to the Minister, Ministry of Municipality and Rural Affairs

09:30 Keynote address: Examining the National Water Company public tendering and needs of the projects

09:50 Keynote address: Royal Commission of Jubail and Yanbu Drainage and Stormwater networks in the industrial area

10:10 Panel Discussion: Overview of the development of the master plan and projects across the country

- Examine each phase of the project's in Saudi Arabia
- Master plan design and construction phase's in Riyadh, Jeddah, Yanbu, Makkah, Medina and the eastern region
- Technologies and services required to deliver the projects within time and budget

Panellists:

Dr. Akram Hassan, Adviser to the Minister, Ministry of Municipality and Rural Affairs
Atef Nooh, Head of Storm Water Drainage Department, Khatib & Alami CEC

10:45 Morning coffee and networking



STRATEGIES FOR A BETTER DRAINAGE & STORMWATER MANAGEMENT

11:15 Panel Discussion: Drainage and stormwater management into the future

- Discussing the need for an integrated drainage and stormwater strategy
- Highlighting the risks associated with global warming
- Investing in the maintenance and continual review of those plans in the context of ongoing development

Panellists:

Fadi Shatnawi, Head of Infrastructure Section, Archen Engineering Consultants
Khodr Mohamed Badawi, Manager of Drainage Department, Ossis Consult

12:00

Technologies to manage stormwater flow

- How technology can reduce infrastructure costs and protect hydrological systems?
- Discussing how technologies can be integrated into site design and assist with stormwater management
- Examining the management of the collection and transportation of the stormwater

Andreas Amft, Managing Director, Enregis

12:30

Sustainable Drainage: Designing landscapes with TSE and Stormwater

- Discussing challenges of water management
- Future plans to improve the urban drainage system

Dr. Anna Grichting Solder, Assistant Professor, Dept. of Architecture and Urban Planning, **Qatar University**

12:50

Egyptian Case Study: Alexandria Wastewater Treatment Plants

- Understanding what are the challenges faced throughout the years
- Activities of wastewater treatment plants
- Sludge treatment and reuse activities

Dr. Helalley Abdelhady, Head of Alexandria (Egypt) wastewater treatment plants, **Alexandria Sanitary Drainage**

13:10

Mid-day refreshment and networking



13:40

Saudi Case Study: Resilience strategies for flood risk management

- Learning what are the strategies aimed to prevent flooding
- Financial and Economic impacts

Dr. Babak Bozorgy, Principal Civil Engineer - Team Leader, MWH, now part of Stantec

DEVELOPING A RESILIENT STORMWATER NETWORK TO MANAGE CLIMATE RELATED EMERGENCIES

14:00

Climate change and extreme events modelling in arid regions

- Exploring latest thinking in climate adaptation
- Use of modelling systems for event analysis and prediction
- Technology used to face challenges

Dr. Ghazi Al Rawas, Assistant Professor, Sultan Qaboos University, Oman

14:20

Integration of flood modelling, management, mitigation and it's development and state of implementation

- Examining how to implement a good flooding management
- International case studies
- Understand the best practices that can be used

Fadi Shatnawi, Head of Infrastructure Section, Archen Engineering Consultants

14:50

Closing comments from the chairman

15:00

Networking lunch and end of seminar day one



SEMINAR DAY TWO

WEDNESDAY 19TH APRIL

08:00 **Registration, refreshments and networking**



08:30 **Chairman's welcome**

EXPLORING PUBLIC-PRIVATE PARTNERSHIP IN THE DRAINAGE AND WATER PROJECTS

09:00 **Public and Private cooperation to deliver a resilient stormwater and drainage network within timing and budget**

- Understanding how to improve and innovate existing projects through PPP
- Benefits for the investor in cooperating on this projects
- Determining the responsibility for each sector on the operation, maintenance, and management of the projects

Sharifah Hamzah, Senior Associate, Public Private Partnership (PPP), **Bennett Jones**

09:30 **Structuring a successful Public Private Partnership (PPP) to meet Saudi's infrastructure needs**

- Challenges to comply and needs to support local regulations with detailed guidelines
- International regulations implemented in the PPP projects

10:00 **PPP Panel Discussion: Examining the Public-Private Partnership in Drainage**

- Understand the role and scope of the private sector once the project is delivered
- Discussing the roles and responsibilities of various stakeholders, robustness of revenue model and operating framework
- International implementation as examples

Sharifah Hamzah, Senior Associate, Public Private Partnership (PPP), **Bennett Jones**

Dr. Akram Hassan, Adviser to the Minister, Ministry of Municipality and Rural Affairs

Bandar Alalwi, Director of Investment Department, Yanbu Municipality

10:30 **Morning coffee and networking**



OPERATIONS AND MAINTENANCE OF THE WATER NETWORKS

11:00 **Smart operation of water network**

- Potential role of technology in water networks
- Pilot project of Smart Network Operation in city of Jeddah

Abdulrahman Alshehri, Operations Senior Manager, National Water Company

11:30

Establish proactive maintenance program by implementing technologies into the networks

- How to prevent flooding, pollution and erosion?
- Maintenance Program to fit the particular system and needs that complies with BAT and BMP criteria
- Implementing filtration systems that meet the EPA Clean Water Act's criterion of BAT



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12:00

Panel discussion: Innovative O&M and asset management strategies to achieve resilience in water networks

- Discussing how to keep the stormwater network clean and maintained
- How technology helps on monitoring the water flow in the networks?
- Explore how projects forecast the resilience of stormwater systems to increased precipitation events

Panellists:

Abdulrahman Alshehri, Operations Senior Manager, National Water Company

Dr. Babak Bozorgy, Principal Civil Engineer - Team Leader, MWH, now part of Stantec

About Alrafi, Program Director, National Water Company

12:30

Mid-morning refreshment and networking



IMPORTANCE AND STRATEGIES TO IMPLEMENT BETTER WATER TREATMENTS TECHNOLOGIES AND SOLUTIONS

13:00

Design, Construction and Maintenance of remote areas with no utility infrastructure

- Overview of the storm, potable water, TSE & sewage networks
- Examine the mobile plug & play treatment units
- Learn from international case studies

13:30

Impacts of water treatment prior to discharge to stormwater networks

- Examining the treatment for discharge to prevent pollution
- Discussing the way to separate blackwater and greywater
- Assessing the latest wastewater treatment technologies



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14:15

Closing comments from the chairman

14:20

Networking lunch and end of seminar





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