The AWMC Urban Water Forum – Brisbane

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Director, AWMC

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Research showcase replaced by urban water forum
AWMC has been doing well!

- An excellent team of over 100
  - 50 staff (29 academics/postdocs + 21 research support and admin)
  - 48 PhD students; 13 graduations in 2015; 14 visitors
  - holding 10 highly competitive fellowships (DECAR, QLD Gov, UQ, etc.)
- 94 journal articles and a similar number of conference presentation, one book, 1 new patent
  - Papers in Nature and Science in 2013-2014
- Delivered substantial industry benefits
- External research income in 2015 over $6m
  - 35% from industry
  - Total budget $8-9M
- Three spin-offs
  - SeweX, Cloevis and Lodomat
Partnership with industry is a key success factor
Partnership with industry is a key success factor

- Project design workshops
- Solving the right problem
- Delivering practically relevant outcomes
- Delivering together
- Creating real impact
- Applications

Industry partnership
AWMC partners
AWMC partners in sewer research

AWMC Partners, Collaborators, Clients

<table>
<thead>
<tr>
<th>University</th>
<th>Industry</th>
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<tbody>
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- The University of Queensland
- Veolia Water Australia and New Zealand
- Queensland Urban Utilities
- KBR Inc.
- Cardno
- Gold Coast City Council
- The University of Sydney
- The University of New South Wales
- Sydney Water Corporation
- CH2MILL
- Icon Water
- Yarra Valley Water
- Melbourne Water Corporation
- South East Water Limited

Curtin University of Technology
Western Australia Water Corporation
Perth
South Australian Water Corporation
Water Research Australia Limited
Adelaide
Canberra
Melbourne
Brisbane
Unitywater
Hunter Water Corporation
AWMC current research programs

Urban water management

- Sewer corrosion & odour management
- NextGen urban water technologies
- Integrated urban water management
- Resource efficient agriculrure
- Biotechnology
- Urban water, health & environment nexus
Resource recovery from agri-industry: the red meat processing sector as example

- Oil and grease
- Organics
- Phosphorous
- Nitrogen
- Solid waste
- Water supply, discharge, re-use
- Odour
- Biosecurity and pathogens
Biotechnology: Biogas conversion to biofuels
Urban water, environment and health nexus

Source

Surface Water

WWTP

Sewer

WTP

URBAN WATER CYCLE

Antibiotics

Antibiotic resistance genes

Nanoparticles

Drugs

Pharmaceuticals
## AWMC current research programs

### Urban water management

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>Sewer corrosion &amp; odour management</th>
<th>NextGen urban water technologies</th>
<th>Integrated urban water management</th>
<th>Resource efficient agri-industry</th>
<th>Biotechnology</th>
<th>Urban water, health &amp; environment nexus</th>
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<tbody>
<tr>
<td>Microbiology</td>
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<td>Physico-chemical processes</td>
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<td>Electrochemical systems</td>
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<td>Process modelling</td>
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Program for today

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00am</td>
<td>Conference Open</td>
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<tr>
<td>9:15am</td>
<td><strong>Session 1: Sewer Corrosion &amp; Odour</strong></td>
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<td>10:30am</td>
<td>Morning tea</td>
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<tr>
<td>11:00am</td>
<td><strong>Session 2: Next Generation Technologies</strong></td>
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<td>12:15pm</td>
<td>Lunch</td>
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<td>1:00pm</td>
<td><strong>Session 3: Integrated Urban Water Management</strong></td>
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<td>2:15pm</td>
<td>Closing Keynote - The Future of Urban Water Management (Richard Petterson)</td>
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<td>2:45pm</td>
<td>Conference Close</td>
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<tr>
<td>3:00pm</td>
<td>Conference Social - Drinks &amp; Canapes</td>
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The Advanced Water Management Centre is committed to inspiring and enabling young innovative minds to break the mould in classical approaches to technical, social, political, and environmental challenges facing global water resources.

Innovations in Water Research Fund