

A photograph of a large waterfall cascading over rocks, with white foam at the base. The background is dark and moody.

PROGRESS ON WATER JPI

WATER JPI MEETING ON STRATEGIC CRITERIA FOR INTERNATIONAL COOPERATION IN WATER RDI

Following a consultation exercise in spring 2017 with JPI partners and Advisory Boards members, it was concluded

[READ MORE](#)

An aerial photograph of a river winding through a lush green landscape. The water is a vibrant blue-green color.

DROPLETS

G-STIC CONFERENCE 2017

The first edition of G-STIC (Global Science, Technology and Innovation Conference) was successfully concluded last week in Brussels, bringing forward

[READ MORE](#)

A close-up photograph of a small bird with brown and black feathers perched on a branch, feeding its young. The bird's wings are spread, and it is holding a cluster of small orange berries.

OPPORTUNITIES

CALL FOR PAPERS

22 MARCH 2018 - PARIS, NEW DELHI, INDIA

[READ MORE](#)

A composite image featuring a DNA double helix structure on the right and a series of laboratory glassware, including beakers and test tubes, on the left. The background is dark and abstract.

EVENTS

29 NOVEMBER 2017, COMMITTEE OF THE REGIONS, BRUSSELS, BELGIUM

PHARMACEUTICALS IN THE ENVIRONMENT

[READ MORE](#)

EDITORIAL STAFF

DOMINIQUE DARMENDRAIL - WATER JPI COORDINATOR

PADRAIC LARKIN – WATER JPI CO-CHAIR

GIUSEPPINA MONACELLI – ISPRA

AINE MURPHY – EPA

MARGARET KEEGAN – EPA

EDITORIAL COORDINATION

JULIETTE ARABI – WATER JPI SECRETARIAT

ALESSANDRA CASALI - ISPRA

ROSANNA CUCCHI – ISPRA

ALESSANDRO LOTTI – ISPRA

MARIA CHIARA SOLE - ISPRA

EDITOR

CARLA IANDOLI – ISPRA

GRAPHIC DESIGN

LOREDANA CANCIGLIA – ISPRA

COLLABORATIONS

WSSTP - THE EUROPEAN TECHNOLOGY PLATFORM FOR WATER

LAURA FORSSTRÖM - ACADEMY OF FINLAND

ANGELO GIUSEPPE SOLIMINI - LA SAPIENZA UNIVERSITY

KATA-RIINA VALOSAARI - ACADEMY OF FINLAND

SASKIA WOHLGEMUTH - PROJECT MANAGEMENT JÜLICH

FOLLOW US



CONTACTS:

enewwaterjpi@isprambiente.it

waterjpisecretariat@agencerecherche.fr

PROGRESS ON WATER JPI

WATER JPI MEETING ON STRATEGIC CRITERIA FOR INTERNATIONAL COOPERATION IN WATER RDI, 19 OCTOBER 2017, MADRID

Following a consultation exercise in spring 2017 with JPI partners and Advisory Boards members, it was concluded that a strategy needed to be defined for enlarging the partnership and collaborations. A meeting, aimed at the identification of relevant criteria, was held in Madrid on 19 October 2017. Invited speakers gave their points of view from different perspectives: science & technology, thematic policies, innovation and market, cooperation and development. Main points for discussion were on strategy scenarios; priorities for a list of criteria for multilateral cooperation, risks and benefits of the proposed scenarios, and possible procedure for the application of criteria and indicators.

EXPLORATORY WORKSHOP ON AQUATIC ECOSYSTEMS AND ECOSYSTEMS SERVICES, 2-3 NOVEMBER 2017, DUBLIN

The main goal of the 2017 Water JPI exploratory workshop was to further elaborate the RDI needs identified in the [Water JPI SRIA Theme 1](#). The objectives of the workshop were: gathering relevant experts in the topic, who will present and discuss their findings to other experts and

stakeholders (end-users, policy makers and industry); identifying knowledge gaps and RDI needs in that area (emerging needs); further elaborating the SRIA RDI Needs.

As this theme of the Water JPI SRIA is relevant to the research agenda of the [BiodivERsA](#) initiative the workshop will also look at the synergies between the two initiatives. The breakout discussion sessions consisted of the attendees splitting into three sessions according to their expertise and interest. The sessions were kicked-off with presentations on research projects, which set the scene for the discussions that followed.

The discussion identified a large list of RDI needs in each session which was honed down to the following top three RDI needs for each subtheme:

- breakout session 1: linking the measures to their effects on the ecosystem and to their societal impact, quantifying and linking ecological and social resilience of ecosystems and developing a framework and method for assessing ecosystem services.
- breakout session 2: water related urban infrastructure and associated ecosystems, integrated decision support systems for adaptive governance and develop suitable indicators for hydromorphology / eFlows to support cost effectiveness
- breakout session 3: extreme hydroclimatic events ' governance and catchment management, develop a multi-risk approach to dealing with extreme events and identify the tipping points caused by extreme events.

These needs were elaborated on by identifying what the challenge, objectives and scope for implementation of this research would be and how it linked to the current [Water JPI SRIA](#) and [UN SDGs](#).

The top three impacts and the entire list of RDI needs identified, will be considered in the Water JPI SRIA update.



A MISSION-ORIENTED PROGRAM FOR EUROPE: JPIS READY TO TAKE UP THE CHALLENGE

At the 3rd GPC Workshop on the future of Joint Programming, 7 November, the JPIS discussed the value of partnerships in mission oriented programmes. The Joint Programming Initiative concept was born from a commission incitation and endorsed by the Council to specifically address grand challenges identified by a high-level group, the GPC. JPIS are relying on three pillars: a shared vision, a dedicated simplified management structure and a strategic research and innovation agenda. The High Level Group of Joint Programming (GPC) and the 10 JPIS organised the workshop “How to improve coherence of the partnership landscape and strengthen the delivery of partnerships on mission oriented programmes?”, held in Brussels on 7th of November, back-to-back with the Annual P2P Conference (November 7-8, MCM-Management Centre Europe, Brussels).

JPI SIDE EVENT, 24 OCTOBER 2017, TALLINN

Activity in the JPIS in Estonia and other Eastern European countries has so far been comparatively low when compared with the rest of Europe. One of the reasons for this is the lack of knowledge on the role and function of JPIS among the related

research community and government officials. The Estonian EU Presidency organised in October 2017 a conference related to Nature Based Solutions. The [conference](#) targeted the need to bring researchers, entrepreneurs and government officials together from Estonia and other European countries. The JPIS took advantage of this opportunity to organise a side event back-to-back with the conference to disseminate information about JPI activities. The JPIS Water, Oceans, Climate, FACCE, Urban Europe and the ERANET BiodivERsA met with corresponding representatives and presented their contribution on nature-based solutions.

Six roundtables allowed more detailed discussions with the attendees, in particular:

- to identify to what extent the challenges related to different NBS could be a further incentive for their involvement in the JPIS/[BiodivERsA](#),
- which other thematic challenges are they facing in their own country that should be considered by the JPIS/BiodivERsA,
- which types of activities proposed by the JPIS are they interested in? How would they like to join? All presentations and outputs of the roundtables are available [here](#).

WATER JPI AT THE ANNUAL JOINT PROGRAMMING CONFERENCE AND BACK-TO-BACK MEETINGS, 7-8 NOVEMBER 2017, BRUSSELS

The Annual Joint Programming Conference 2017 took place in Brussels on 7-8 November 2017. Its focus was on the future of P2Ps under the motto “Co-designing Public-Public Partnerships for the next Framework Programme” to emphasise the collaborative approach in involving stakeholders for the future design.

The Water JPI contributed to the breakout session dedicated to Environment and Climate challenges. An occasion to present how to increase the relevance and the impact of collaborative EU research within Environment and Climate Change and to discuss how to facilitate cooperation between the P2Ps in this area.

The Groupe de Programmation Conjointe (GPC) organised, with the support of the 10 JPIS, a session on “how to improve the coherence of the partnership landscape and strengthen the delivery of partnerships on tackling specific societal challenges”. In the context of the Lamy group report, the workshop aimed to take a next step towards a reflection of existing partnerships and their missions against requirements of future mission oriented programmes and a more coherent landscape of such partnerships. The discussions were organised around six global challenges (each comprising a number of partnerships strongly supporting research and innovation activities to address pressing societal issues) and a round-table session. The Water JPI contributed to the food and nutrition security and the biodiversity challenges discussions. Finally, the Water JPI was invited to the PRIMA side event, which aimed at presenting the overall strategy, the Strategic Research and Innovation Agenda and the 2018 Action programme. The Water JPI participated to the round table organised with representatives of EU and International initiatives dealing with thematic areas related to PRIMA, with the aim to find synergies and complementarities among such initiatives.

BRUSSELS 6-7 JUNE 2018- HELSINKI, FINLAND 2ND WATER JPI INTERNATIONAL CONFERENCE IN HELSINKI



The [2nd Water JPI International Conference](#) will be held in Helsinki, Finland, 6-7 June 2018. Millions of Europeans receive high quality drinking water every day. However, the provision of safe water for drinking purposes is threatened by, amongst other factors, the improper disposal of chemicals, animal and human wastes, pesticides, emerging pollutants, and emerging risks from “established” pollutants, aged water supply infrastructures, sub-optimal water management, and natural hazards. By bringing together stakeholders from research and industry as well as policy makers and relevant organizations, the conference contributes to filling knowledge gaps regarding the environmental behaviour of pollutants and their effects on human health. Specific topics to be covered include the development of analysis and detection systems, water treatment opportunities, impacts of wastewater reuse on human health and new water management practices.

The [Water JPI](#) is dedicated to achieving sustainable water systems for a sustainable economy in Europe and further afield; an ambitious challenge. This will be delivered via a multi-disciplinary approach, including economic, ecological, and societal as well as both technological and non-technological considerations.

The Water JPI provides an opportunity for broader cross-border cooperation, greater collaboration and a more unified focus on water RDI both in Europe and further afield.

Key dates: mid-December 2017: call for abstracts posted and advertised.

End of February 2018: abstract submission closes.

End of March 2018: authors notified of acceptance.

End of April 2018: scientific programme posted.

DROPLETS

G-STIC CONFERENCE 2017

The first edition of [G-STIC](#) (Global Science, Technology and Innovation Conference) was successfully concluded last week in Brussels, bringing forward innovative technological solutions that can potentially have a large impact on the achievement of the [SDGs](#) and climate change goals. The activities in G-STIC 2017 were organised and structured into 12 thematic areas, including wastewater as resource, smart water and sustainable technology & development (including water, sanitation and irrigation), aiming to maximise the impact on the achievement of the SDGs. A dedicated team, focused on selected market ready technological solutions that substantively contribute to less carbon and resource-intensive economies, managed each of these 12 themes. With a clear intention to foster co-creation practices, all teams heavily, invest in the buildup of international learning networks and dynamic communities of committed practitioners – as part of a process to develop a strategy that delivers results and measurable impact at local, national, regional and global policy levels.

2017 CHINA EUROPE WATER PLATFORM ANNUAL HIGH-LEVEL DIALOGUE CONFERENCE

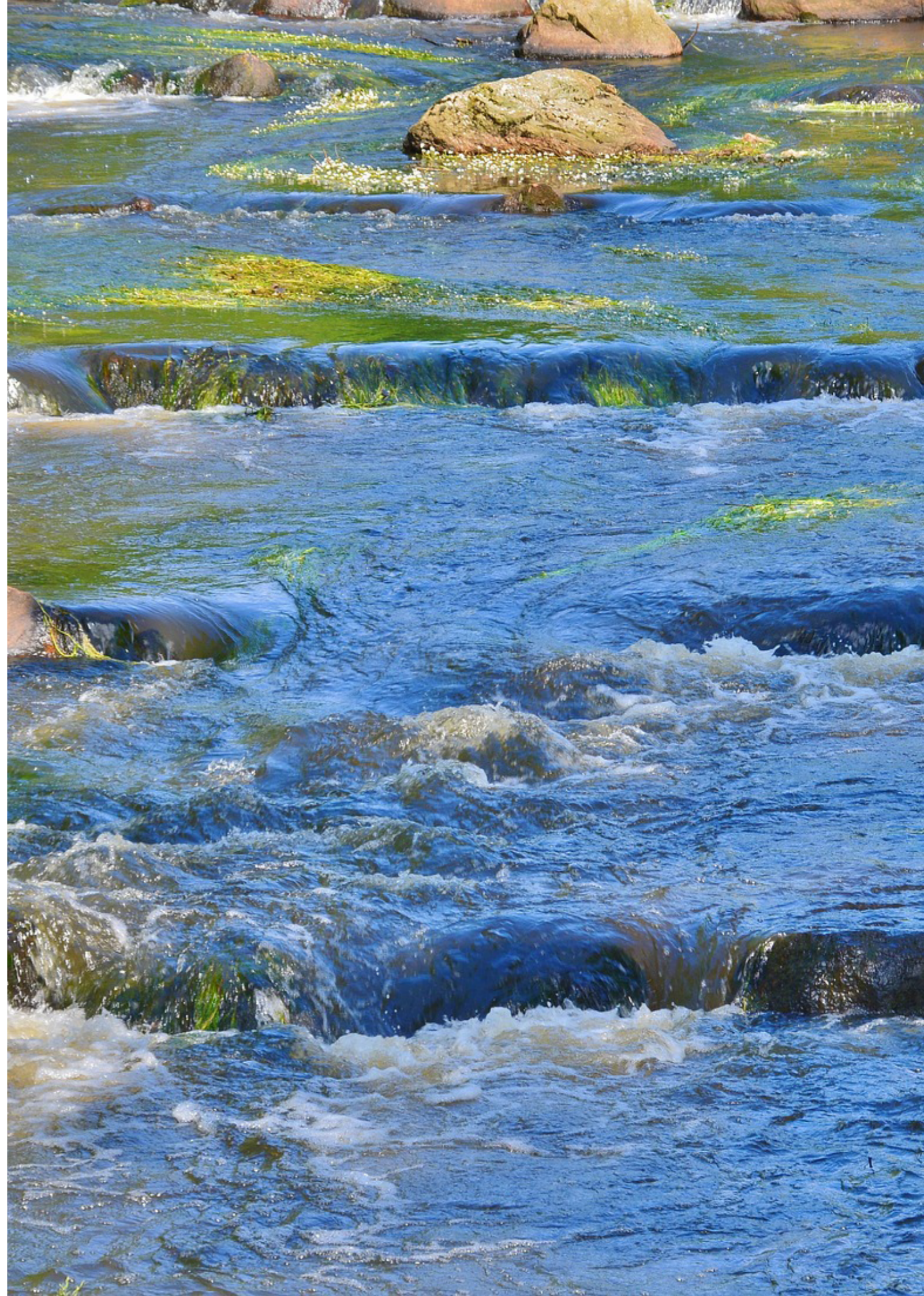
CHINA EUROPE
Water Platform

Last 21-22 September 2017 took place China Europe Water Platform Annual High-Level

Dialogue [Conference](#) in Turku, Finland. Almost 400 participants attended the policy conference, and the Business Conference and Research & Innovation Event that were organised as essential parts of the conference. Thirteen official delegations from EU Member States, China and EU Commission participated the policy conference and signed the [Turku Declaration](#) to strengthen water cooperation between the EU and China. The aim is to join forces to promote sustainable development and improve water security. China and the EU also signed a [Memorandum of Understanding](#) to establish dialogue on water policy. Solving water problems has a key role in the [UN Sustainable Development Goals](#) that should be achieved by 2030. One of the 17 goals' aims is to secure access to clean water and sanitation for all. Water security is also important in terms of meeting many of the other goals.

WETSUS WIN STAGE 2 OF THE GEORGE BARLEY WATER PRIZE

After [winning](#) stage 1 in March this year, [Wetsus](#) now also won stage 2 of the [George Barley Water Prize](#), and with that 50.000 dollars. The Wetsus team will now enter into the competition for the third stage. The full competition consists of four stages, the last one entails a full operating system in the Everglades in Florida. The winner of that stage receives the grand prize of 10 million dollars.



About NaFRAd: a Wetsus team had submitted this solution to recover phosphorus from surface water in the Everglades (Florida, USA), as part of the first stage of the George Barley prize contest. The George Barley prize (www.barleyprize.com) is organized by the Everglades Foundation in their search to find cost-effective solutions to remove and recover phosphorus from surface water. There is a high demand in Florida for such a technology, as it would make it possible to restore the natural water flow through the Everglades and prevent toxic algae blooms at the coasts of Florida.

Challenging demands have been set for the new technology. It should remove phosphorus to ultra-low concentrations (10 ppb) with a very minimal footprint and at a cost of less than 120\$/kg P. Wetsus proposed their NaFRAd-solution which is a combination of flocculation with natural flocculants and reversible adsorption with high capacity iron based adsorbents. In this way both particulate and soluble phosphorus can

be removed with minimal waste formation. The phosphorus can be recovered as phosphate rock that can be used in the local fertiliser industry. These technologies find their origin in the Wetsus research themes Phosphate Recovery and Natural Flocculants. Mail to: waterjpisecretariat@agencerecherche.fr

OPPORTUNITIES CALL FOR PAPERS

22 MARCH 2018 - PARIS,
NEW DELHI, INDIA
WORLD WATER SUMMIT
2018 - CLEAN & SAFE
WATER SOLUTIONS FOR A
SUSTAINABLE WORLD

The [summit](#) will focus on synergies between water security and economic prosperity, finance and technology to deliver water solutions for both industries and utilities. The summit will

bring the collective intelligence of stakeholders, exchange knowledge, latest technologies and also the acumen of visionary speakers in an effort to catalyse collaboration between the public & private water, utilities, technology providers, financiers, industrial end-users, associations in addition to water, agriculture-food-beverage and sanitation agencies. Deadline 30 for registration November 2017.



EVENTS

29 NOVEMBER 2017, COMMITTEE OF THE REGIONS, BRUSSELS, BELGIUM

PHARMACEUTICALS IN THE ENVIRONMENT



On Wednesday 29 November Michel Dantin MEP and Chair of the “Water & Agriculture” Working Group, together with Peter Liese MEP will host the event “[Pharmaceuticals in the Environment](#)”.

The Priority Substances Directive adopted by the European Parliament and the Council of the EU in 2013, requires the European Commission to develop a strategic approach to pollution of water by pharmaceutical substances by September 2015. After some delay, the European Commission will shortly launch the public consultation on the strategic approach, gathering the views from citizens, public authorities and stakeholders.

10-13 DECEMBER 2017 - CAPE TOWN, SOUTH AFRICA

8TH INTERNATIONAL YOUNG WATER

The International Young Water Professionals

Conference brings together 450 water, environment and related young professionals from across the globe and highlights how the young water professionals are making an impact across the sector as well as offering capacity development and training sessions to further upskill our future water leaders to tackle the demands from the water sector.

PROFESSIONALS CONFERENCE - BUILDING LEADERS & MAKING IMPACT

The International Young Water Professionals [conference](#) brings together 450 water, environment and related young professionals from across the globe and highlights how the young water professionals are making an impact across the sector as well as offering capacity development and training sessions to further upskill our future water leaders to tackle the demands from the water sector.

22- 24 FEBRUARY 2018 - MELBOURNE, AUSTRALIA AWA/IWA YOUNG WATER PROFESSIONAL CONFERENCE 2018



The fifth Australian Young Water Professionals [conference](#) is a co-branded event presented by the Australian Water Association and the International Water Association.

Collaboration between industry, research and government will be explored as well as the value of connection. The topics discussed will be:

- connect: network with inspiring young water professionals and build connections for future collaboration; continuing professional development over two days through workshops, presenting and networking,
- collaborate: how we can strengthen partnerships between research, industry, universities and government; interdisciplinary alliances (including specialists outside of the water sector); how can we engage with our customers and communities on a local, national and/or international level; how can we deliver projects with multiple stakeholders and meet their expectations,
- accelerate: how to capture and hold the interest of a diverse range of stakeholders to address ‘wicked’ water problems; innovation at all stages of project delivery, from options analysis to functional and detailed design, from community

engagement through to construction; how the water industry can leverage other industries and government sectors to achieve better outcomes for the community (e.g. integrated landscapes, value capture, preventative health).

7 DECEMBER 2017 - JENA, GERMANY

PROJECT TRACE FINAL WORKSHOP - JENA

The [TRACE](#) project will end in December 2017. A final workshop is planned for December 7, 2017 at the Leibniz IPHT in Jena, in order to present the project results as well as the state of the art in the field of antibiotic resistances occurrence in the environment. A preliminary program will appear at the projects homepage soon.

