

Yearbook 2012/2013



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Prof. Pertti Seuna

EWA President 2012-2013

It is my privilege and great pleasure to welcome you to the 2012/2013 Yearbook of the European Water Association. Last year the European Water Association celebrated its 30th anniversary. Since the beginning, the association – initially entitled the European Water Pollution Control Association – has worked for cleaner bodies of water in Europe. EWA's main focus traditionally has been on water supply and wastewater treatment, but more recently the whole water environment has been gradually taken into account. Activities of the EWA are traditionally based on the voluntary work of water specialists from the National Associations. Numerous experts, who cover the whole water cycle, wastewater as well as drinking water, water resources and management, inland aquatic ecosystems etc., are to be thanked for their indispensable contributions.

The EWA forms a pan-European forum for the discussion of key technical and policy issues affecting the growing European region. International conferences, workshops, meetings and special expert groups are organised on the basis of international cooperation. Through this exchange of knowledge the EWA contributes to sustainable water management, safe water supply and the protection of the water environment. The EWA also contributes to the development of water related European policies as an independent NGO with a body of water professionals covering a wide range of subjects. Close contacts have been established with the European Commission and its DG Environment, the European Committee for Standardization (CEN), the European Environment Agency (EEA) and the European Parliament. International cooperation with the Water and Environment Federation (WEF), the Japanese Sewage Water Association (JSWA) and the International Water Association goes back a long way.

It is often said that access to clean and sufficient water is a key prerequisite for the development of a society. This obviously holds true for the developing world but, along with important changes, this also applies more than ever to Europe. While the average water use in Europe accounts for approx. 13 % of the long-term renewable water resources, the water exploitation index (WEI) exceeds 20 % in many European countries, for example in Spain, Italy and Belgium. Anything beyond this 20 % limit is considered to signify that resources are scarce. In southern Europe over 80 % of the total water consumption is used for agricultural irrigation and water scarcity is expected to become worse, inter alia due to the climate change. The demand for irrigation water for agriculture is an increasingly pressing issue to be addressed in the European water policy. This calls for innovative solutions in irrigation technology, land cultivation and land planning measures, plant practice and pricing issues, in order to maximize resource efficiency and minimize environmental damage. "The appropriateness and type of agricultural activity should be assessed and planned alongside other land and water users in an integrated spatial development perspective that parallels river basin planning. An integrated sustainable land use policy within catchments or Member States is needed, rather than a policy focused on a specific sector". This was in the final statement of the "Future of European Waters" Conference in Budapest in March 2011. The outcome of the Common Agricultural Policy and the Blueprint 2012 to safeguard European waters will be of the greatest interest and importance.

The EWA Yearbook 2012/13 traditionally contains brief introductions to the National Members and some facts about the EWA. Among the authors I would like to acknowledge particularly the contribution of this year's Dunbar Prize winner, Dr. Philippe Duchene. Cooperation and contacts with the European Commission have always been good and I have great pleasure in expressing my gratitude to Dr. Richard Seeber, Member of the Parliament, Mr Peter Gammeltoft, Head of the Water Unit at DG Environment and Dr. Astrid Schomaker, from DG Environment for their contributions. The European Year of Water is also addressed by Dr. Helge Wendenburg reporting from the Nexus Conference. The new member association, the Russian Water Association, is also introduced. The EWA would like to express its gratitude for these important contributions.

2012 is the European Year of Water. The European Water Association is willing and happy to contribute to the success of this special year. I would like to express my sincere thanks to our team in Hennef led by the Secretary General Johannes Lohaus, also to our Vice-President Werner Flögl, our Past President Jean Philippe Torterotot, our Management Committee and Standing Committees, our Council members and to our experts in the working groups for their time and energy. Voluntary work is of vital importance in an association like the EWA. The European Year of Water emphasizes the need for this work. In the National Associations there is a huge potential of all kinds of water and environmental expertise. While expressing my most respectful thanks for all voluntary work to date, it would also be a privilege to warmly welcome new water professionals who participate, contribute, and cooperate to an increasing extent.

Pertti Seuna, EWA President

In Tuusula on the 12th of March 2012

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THE EUROPEAN WATER ASSOCIATION

Clean Water for Europe

The European Water Association (EWA) is an independent non-governmental and non-profit making organization promoting the sustainable and improved management of the total water cycle and hence the environment as a whole.

It is one of the major professional associations in Europe that covers the whole water cycle, wastewater, as well as drinking water and water and wastewater treatment related wastes. With member associations from nearly all European countries, EWA includes most of the current European Union Member States as well as Norway and Switzerland. Today, EWA consists of 25 European leading professional organizations in their respective countries, each representing professionals and technicians for water and wastewater utilities, academics, consultants and contractors as well as a growing number of corporate member firms and enterprises. Thus EWA represents about 50,000 professional individuals working in the broad field of water and environmental management.

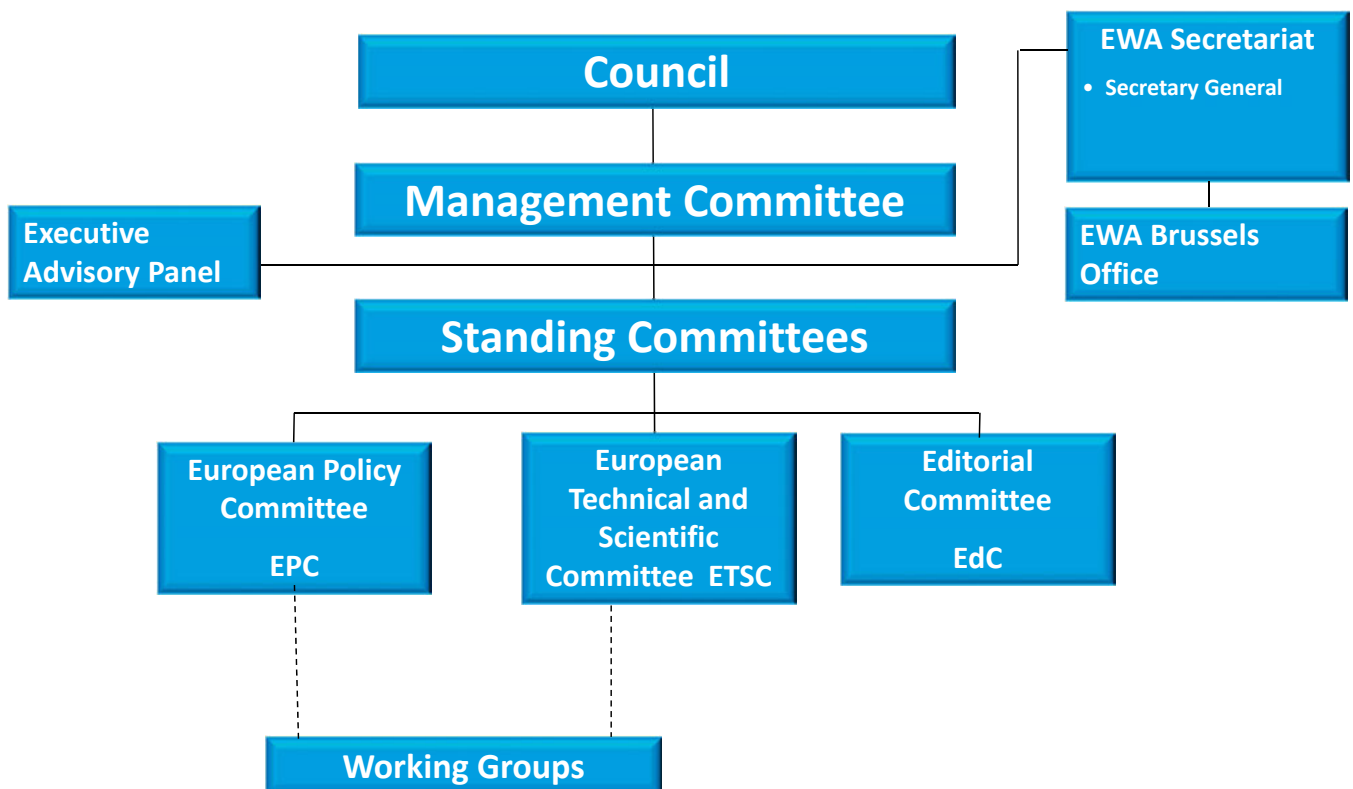
Organization and Structure

The highest authority of the EWA is the Council – it has the executive power of decision. Each member association (25) is represented on the Council and these representatives meet annually to discuss and plan the activities of the association. The smaller Management Committee has responsibility for developing policy and is in charge of the daily work of the association, supported by the Secretariat. The Association is represented by the President, who chairs the Council and the Management Committee. The Secretary General executes the day-to-day operations of the Association. In addition, Standing Committees and Working Groups support the work of the Association.

The EWA Standing Committees

From the very beginning the Association has laid emphasis on the exchange of information and knowledge between professional experts. Through this exchange of knowledge, the EWA contributes to a sustainable water management: safe water supply and the protection of water and the environment. This was achieved by the organization of numerous conferences and workshops taking place all over Europe and covering a very broad range of water related topics such as European legislation (themed areas such as Water Framework Directive, Groundwater Directive, Sewage Sludge Directive etc.), technical questions like for example the significance of small wastewater treatment plants in rural areas, or scientific conferences, like Waters in Protected Areas and other integrated approaches. The European Water Association organizes conferences and symposia at regular intervals, on events such as the International Trade Fair (IFAT) in Munich, as well as its own annual EWA Brussels conference. An increase in the number of members from Central and Eastern Europe (accession countries) has raised the interest for events dealing with water protection issues.

All this work is achieved through the different Committees and Working Groups that were established and which are adapting their scope according to the needs. They are based on voluntary work of experts coming from the different National Member Associations and working together on various subjects of current interest in the water and environmental field.





The Editorial Committee (EdC)

The Editorial Committee's (EdC) main assignment was the production of the printed journal "European Water Management Online". Its main task is now the coordination of the online journal "E-Water" which is directly accessible via EWA's homepage at www.ewa-online.eu at no extra cost. This online journal is officially registered and has its own International Standard Serial Number (ISSN). The committee also coordinates a further means of communication such as the monthly EWA newsletter distributed to water experts and EWA members.

European Policy Committee (EPC)

The committee follows the work of the European Commission and arranges regular meetings with officials in the Commission, responsible for activities of relevance to water management. The committee gives comments and advice to official European institutions on behalf of its members. The EWA is attending meetings of the Strategic Coordination Group under the WFD Common Implementation Strategy. Furthermore the EWA is in close contact with other European associations and institutions.

The objectives and responsibilities of the European Policy Committee (EPC), under the guidance of the governing bodies of the European Water Association, and within its rules of procedure, are the following:

- Organise and coordinate relationships of EWA with European level bodies, and especially with bodies of the European Union;
- Facilitate and create the necessary and useful flows of information amongst the persons and groups representing EWA towards European level bodies, as well as between the former and the National Associations (NA), members of EWA;
- Identify emerging issues and important trends in water related European policies and issues, which are of interest to EWA and its members, in order to allow EWA to anticipate future changes and to contribute efficiently to European policy development;
- In consequence, and in conjunction with the European Technical and Scientific Committee (ETSC), propose the evolution of thematic activities and actions of EWA.

European Technical and Scientific Committee (ETSC)

The ETSC provides a focal point for communication and cooperation between European practitioners and researchers concerned. Under the ETSC several working groups are organised. These working groups are installed according to the needs of the association. Currently there are working groups on: Climate Change, Groundwater, River Morphology, Sewage Sludge and Sustainable Flood Management. The work results in technical and scientific papers and documents.

The committee is also responsible for the organization and sponsorship of workshops, seminars, conferences and symposia.

The Network of Experts

Although the working groups already present a focal point for the exchange of information, they only involve a limited number of persons out of the approximately 50,000 members assembled in the EWA National Member Associations. Additionally, the working groups cover mainly specific topics.

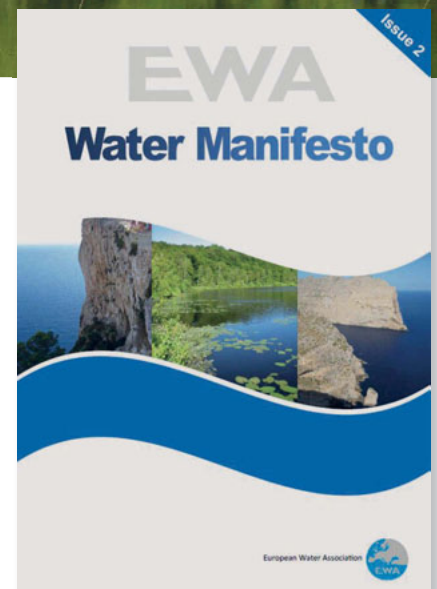


The EWA Water Manifesto Issue 2

By means of its Manifesto, the EWA wants to draw attention to current important water issues in Europe and to propose their resolution by the sustainable management and use of water resources. With the second issue of the EWA Water Manifesto, the European Water Association calls upon the society in general and all relevant stakeholders to strive for responsible use and exploitation of water.

In the second issue of the EWA Manifesto, the following topics are addressed:

- Climate Change and Water
- Implementation of the Water Framework Directive
- Sustainable Water Supply and Sanitation Infrastructure
- Water and Biodiversity
- Water and Energy
- Water Efficiency and Agriculture
- Demographic Changes and Water Safety
- Water Cost Recovery and Incentive Pricing
- Emerging Pollutants
- Water Scarcity and Droughts in Europe
- Water Related Urban Planning
- Sewage Sludge
- Priority Substances Pluvial Flooding Across Europe



Our Vision

– Clean Water for Europe, Clean Water Worldwide

EWA promotes the sustainable management of the total water cycle and hence the environment as a whole. EWA understands the need for the sharing of water by man and nature, by industry and homes, between countries, with social justice and equity and the need for good management and technology to ensure the sensible use of resources.

EWA is a source of knowledge, experience and expertise which can be shared for the greater good of the people of Europe. EWA is willing to act as a platform for knowledge and know-how exchange between its members and the European institutions. Since its creation, EWA seeks „Clean Water for Europe“. It further wants to contribute to „Clean Water Worldwide“. This emphasises our common responsibility in promoting water related actions – information exchange, expertise contributions, environmental education and good cooperation with the societies and other actors. Water is an entry to societal development.

The work of the EWA Water Manifesto is mainly done on a voluntary basis, and the numerous water specialists in the National Associations are to be thanked.

You can download the EWA Water Manifesto; simply go to our website: www.ewa-online.eu or contact us, we will be happy to help you!

EWA Activities

Workshop: How to deal with Brussels

On 14 December 2010, EWA organized a seminar on EU Policy Making in Brussels. The seminar gave an overview on the EU water policy and how directives are developed and executed. The goal was to enable water practitioners to influence the River Basin Management Plans implementation and benefit from the know-how exchanged via the existing EU forum. The seminar gave an introduction to methods on how to receive EU funding. Due to the huge success of the workshop, the EWA will continue to organise it annually in the course of the annual Brussels Conference. The next workshop, which will be hosted by Mr. Blöch, will be held on 31 October 2012.

Joint EWA, DWA, CWPCS and BMU workshop in Zagreb in February 2011

Along with the DWA, the CWPCS, and the German Ministry of Environment (BMU), the EWA hosted a joint workshop for young professionals and decision makers on "Resource Orientated Water Management – Problems and Solutions", in Zagreb, from 10th–11th of February 2011.

EWA President attended VLARIO DAY 2011

On 28th March 2011 the EWA President attended the VLARIO DAY 2011. During this event, the cooperation agreement between VLARIO and foreign organizations active in the sewage markets were signed. The event took place under the leadership of Mr. Jean Philippe Torterotot, President of the EWA. The participants of the event were addressed by Mr. Torterotot who emphasized the importance of structured consultation. He also showed his appreciation for VLARIO as they were able to bring all stakeholders around the topic "Water and Sewage" around the same table together.

Joint EWA – MaSzeSz Conference in Budapest in April 2011

The Hungarian Water Association (MaSzeSz) together with the European Water Association organized an international conference on „Development and Maintenance of Water Infrastructure in the CEE region with EU financial support in the Program Period 2007-2013”, which was held on the 6th of April, 2011 in Budapest. The conference drew broad attention, more than 140 participants from 9 countries attended, and the feedback from both participants and media was very positive.

The findings and recommendations of the conference which has been issued, raised many problems and also providing several answers. According to these, a new methodological approach of option analysis is needed in order to improve the planning process and to ensure the cost-efficiency and sustainability of water infrastructure developments in the CEE region.

Pertti Seuna elected as new EWA President

At the EWA Council meeting on 1st July, 2011, in Vienna Austria, Prof. Pertti Seuna was instated as President of the EWA. The former EWA President Jean-Philippe Torterotot handed over the presidency in a small ceremony during the one day meeting to Pertti Seuna. Pertti is the EWA Council Representative of the Finnish Water Association, Soumen Vesiyhdistys ry. The new Vice President is Werner Flögl, who is the Council Representative from Austria, representing the Austrian Water and Waste Management Association (ÖWAV).

30th anniversary EWA

On 22 June 1981 the European Water Association was founded. At the time the association went under the name of European Water Pollution Control Association (EWPCA) The celebration of the 30th anniversary was held on the premises of the Representation of the state of Baden-Württemberg to the EU. Ever since its foundation, the EWA is actively involved in the European political processes on water topics such as sewage sludge, urban waste water management and the quality of bathing water. Recent topics such as sustainable flood management, climate change and science have been added to its expertise. Today the EWA is one of the few NGOs which are involved in the implementation of the Water Framework Directive. Together with its members and guests from the European Commission, the anniversary was celebrated on the eve of the 7th Annual Brussels Conference.

7th Annual Brussels Conference

The 7th Annual Brussels Conference on the topic "Effective Urban Wastewater Treatment – A Key Prerequisite for the successful implementation of the WFD" was held on 25 October 2011 in Brussels. For the first time the venue for the occasion was the Representation of the state of Baden-Württemberg to the EU. The Directive 91/271/EEC, which concerns the treatment of urban wastewater was discussed among the 70 participants and speakers at the conference. Due to their volume, discharges of urban waste water are the second most serious cause of water pollution in the form of eutrophication. The Directive 91/271/EEC seeks to harmonise measures relating to the treatment of such waters at Community level. Under the close cooperation with the DG Environment the Annual Brussels conference gives EWA, a unique opportunity to show how the main objectives of the Water Framework Directive in the different member states have been reached so far.

Joint CIWEM/ EWA/ ASTEE International Event in Lille

On 22nd–23rd February 2012, CIWEM with the support of EWA and ASTEE (Association Scientifique et Technique pour l'Eau et l'Environnement) organized a two day international conference at the World Trade Centre in Lille, France. The aim was to provide an opportunity to share experiences and to gain feedback on innovative practical solutions and relevant applied research on key topics. The objectives of the meeting were to explore the key challenges European countries are facing today. Topics included water security; flood risk management; water quality; sustainability; river restoration and the Water Framework Directive. Among other topics case studies from the UK, Netherlands and the Scheldt River Basin were presented.

EWA at the 6th World Water Forum, Marseille

The 6th World Water Forum in Marseille, from 12th–16th March 2012, is the world's largest forum around water. The goal of the 6th World Water Forum was to tackle the water challenges our world is facing and to put water on top of all political agendas. The EWA was co-hosting the session programme: Specific European Region Priority Target 9 – Protection and restoration of river ecosystems. On the third day of the World Water Forum, the past president Jean-Philippe Torterotot held a presentation on the topic "Tourism land and water management". EWA's Secretary General, Johannes Lohaus, attended the World Water Forum in Marseille as an EWA representative as well.

EWA's presence at the IFAT ENTSORGA

During IFAT ENTSORGA 2012 from 7th–11th May 2012, EWA was present at the International Association Stand among many international associations such as the International Water Association (IWA), the JWSA from Japan, PUB from Singapore, WASPA from Kenya, the Austrian Water and Waste Management Association (ÖVAW) and many others. During the IFAT ENTSORGA EWA used the opportunity of the occasion to invite its National Members to the annual Council Meeting. The EWA's European Technical and Scientific Committee held its meeting on the fairgrounds as well.

16th International Symposium at the IFAT ENTSORGA

The topics of the 16th International Symposium focus on the emerging challenges in the Wastewater sector in Europe. As new problems in the wastewater technology emerges, such as demographic changes, water quality requirements or better sewage treatment, there is a high demand for new solutions. This symposium exchanged the latest findings and share experiences of engineers and scientists regarding new strategies, techniques and innovative solutions and allowed the participants to hold discussions on the applications and practical implementation.

Article in the magazine Europe's world

The Secretary General published an article in Europe's World in the May edition on "Is the EU's water policy consistent?" Europe's World is the only independent Europe-wide policy journal, produced in association with some 150-plus leading European think tanks and academic institutions. Since its launch in 2005 it has become the premier ideas platform for new thinking on political, economic and social issues, read by over 100,000 of the most influential decision makers and opinion formers across Europe. Published every 4 months, Europe's World's purpose is to stimulate the much needed debate over topical policy issues by encouraging citizens and stakeholders within civil society, media, academia, business and government, to engage in a series of informed political debates which reach beyond the "Brussels village."

Green Week Conference 2012

12th edition of Green Week, the biggest annual conference on European environment policy, took place from 22nd–25th May 2012 in Brussels. This year's theme is "Water". The Green Week Conference 2012 is organized by the European Commission DG Environment. For the first time EWA has applied with its new potential partner ENEP to share a joint stand. (ENEP Environmental Professionals is a platform representing 44,000 professionals across Europe that seeks to provide a knowledge base and an information interchange tool between Environmental Professionals, Public Institutions and Private Organizations. For more information on ENEP, please visit: <http://www.efaep.org/>). Furthermore, the EWA is moderating Session 4.7: Johannes Pinnekamp will be leading the session.

Upcoming Activities

Support of MaSzeSz Conference in May 2012

The EWA will support a conference organized by MaSzeSz on "Water Infrastructure development and operation – cross border cooperation in the CEE region 2012". The conference held in Lajosmizse, Hungary on 30th–31st May 2012. The conference will be held in both English and Hungarian.

Joint IWA, DWA and EWA Workshop

From 18th–22nd June 2012 the EWA, in cooperation with the IWA and the DWA will organize a workshop on "How to run a water association". The workshop will be held in Hennef on the premises of the DWA.

Joint summer school with dex in July 2012

In cooperation with the German Experts Association for Environmental Technology and Infrastructure (dex), the EWA is organizing the 4th dex summer school on water quality management. The summer school will take place from 15th–20th July in Rottenbach/Austria. Invited for participation are post graduate and doctoral students (civil/ environmental engineering or similar), young water professionals from consulting companies and expert companies from all of Europe. A special emphasis on young professionals from the new EU and accession countries in Central and Eastern Europe is given (sponsoring of fee possible). Registration is open until 15th May 2012.

The 4th EWA/WEF/JWSA Specialty Conference

The JWSA, the WEF and the EWA will co-organize a joint conference on "Cutting-edge Technologies and Best Practices on Sewerage". The conference will take place at the Kobe International Conference Center, in Kobe, Japan on 26th–27th July 2012. The conference was originally scheduled for 2011, but due to the disastrous events in Japan in 2011, JWSA decided to postpone it to 2012.

The EWA 8th Brussels conference

The upcoming 8th EWA Brussels Conference has got the title "European Year of Water – Upcoming Challenges". In Session 1, the internal working title is Waterstress – quantitative aspects. Topics such as Climate Change, Flood Protection, Reuse of Water and Hydropower and River Continuity will be dealt with.

In session 2 the conference will deal with Waterstress – qualitative aspects (working title). With this, the areas of Water and Agriculture, Micro Pollutants, Research in the Water Sector will be presented.

Workshop: How to deal with Brussels

On the following day after the 8th EWA Brussels Conference EWA is delighted to invite members and guests to an EU Policy seminar “How to deal with Brussels” with Dr. Helmut Blöch. During the workshop the participants will explore the EU water policy, the European Commission and European Parliament in general, as well as be able to tour the premises of the European Commission with Dr. Blöch as a guide.

Ongoing Activities

3rd Issue of Water Manifesto

EWA is planning to publish the 3rd issue of its Water Manifesto. With the Water Manifesto the EWA wants to draw attention to current important water issues in Europe and to propose their resolution by the sustainable management and use of water resources. As the publication contains topics in progress, the update will come soon.

EWA Journal

E-Water is the new electronic journal of the EWA specifically targeted at European practitioners and researchers. E-Water provides a forum where articles that may be published present and discuss technical views and experiences of European authors in every domain of water management.

EWA Newsletter

The EWA Newsletter informs almost 1000 subscribers about the different activities and initiatives of the EWA, but also of the new events organized by our association. We will also be providing you with interesting inside news directly from the EU capital Brussels, from the European Commission and the European institutions. The EWA newsletter also gives a good insight into the EWA member associations, their activities and aims.

The EWA newsletter provides expertise information and proves to be an interesting read. The EWA newsletter service is free of charge.



The consumption of arsenic contaminated water, which exceeds the WHO threshold of 0.01 mg/L, negatively affects the health of an estimated 137 million people worldwide.



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Finances

Expenses 2011		Result 2010 EUR	Result 2011 EUR	Explanation
1	Travel costs	36,345.29 € 19,105.62 € 17,239.67 €	10,584.07 € 3,985.94 € 6,598.13 €	Management Committee Travel Costs Other Travel Costs
2	Personnel costs	177,933.62 €	116,678.80 €	
3	Accommodation costs	18,314.16 € 4,306.92 € 13,361.95 € 645.29 €	10,648.02 € 4,235.63 € 6,253.28 € 159.11 €	Costs for the office in Hennef Costs for the office in Brussels Others
4	Fixed Asset Depreciation	2,447.00 €	2,234.00 €	
5	Legal and Advisory Costs	4,481.05 € 3,715.83 € 752.67 € 12.55 €	4,747.20 € 3,700.00 € 1,047.20 €	Annual Report and Tax Returns Audit European Commission Others
6	Others	22,660.15 €	13,767.24 €	
7	Events and Seminars	11,411.81 € 5,496.02 € 5,375.58 € 540.21 €	4,967.17 € 0.00 € 4,777.92 € 189.25 €	IFAT 2010 7 th EWA Brussels Conference Others
8	Advertising Costs	10,305.64 €	1,490.13 €	
7	Transfer to the Reserves	270.66 €		
	TOTAL EXPENSES	284,169.38 €	165,116.63 €	

Income 2011		Result 2010	Result 2011	Explanation
1	Membership fees	77,380.00 €	79,165.00 €	
2	Events and Seminars	50,460.00 € 36,000.00 € 10,110.00 € 3,000.00 € 1,350.00 €	26,477.50 € 11,000.00 € 12,477.50 € 3,000.00 €	IFAT Brussels Conference IFAT China EWA Seminar on EU Policy
3	Subsidy European Commission	140,438.00 €	0.00 €	
4	Other revenues	8,139.00	682.94 €	
5	Interest received	311.96 €	272.04 €	
8	Withdrawal from reserves	7,440.42 €	58,519.15 €	
	TOTAL INCOME	284,169.38 €	165,116.63 €	

Members of the EWA Management Committee (MC) for the period July 2011 – June 2013

President

Prof. Pertti Seuna



MC Member

Paul Horton



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The William Dunbar Medal

This prestigious medal is awarded every two years to an individual of a member country of the EWA and is presented by the President of the EWA on the occasion of the EWA Symposium held in conjunction with the IFAT event. This Award, donated by IFAT, the international trade fair for water, sewage, refuse, and recycling, which is organised by the Messe München International, has been adopted by the European Water Association. The recipient is awarded in recognition of his or her outstanding contribution in applied technical development in the field of sewage and waste treatment and disposal.

The award consists of a gold medal, a certificate plus cash amounting to a total value of € 8,000. The medal bears the portrait of William Dunbar on one side and on the other the logos of the EWA and IFAT.

William Dunbar Medal – Award Winners

Year	Award Winner	Country
1975	Dr. A. L. Downing	UK
1978	Dr. Ir. Aale Pasveer	NL
1981	Prof. Dr. sc. nat. E. A. Thomas	CH
1984	Herbert A. Hawkes	UK
1987	Prof. Dr.-Ing. Wilhelm von der Emde	AT
1990	em. o. Prof. Dr.-Ing. habil. Franz Pöpel	DE
1993	Geoffrey Ashworth Truesdale	UK
1996	Prof. Dr.-Ing. E.h. Klaus R. Imhoff	DE
1999	Prof. Mogens Henze	DK
2002	Prof. Dr.-Ing. Rolf Kayser	DE
2005	o. Prof. Dipl.-Ing. Dr. techn. Helmut Kroiss	AT
2008	Prof. MSc, PhD, DSc Jiří Wanner	CZ
2010	Prof. OBE, PHD, FCIWEM, CWEM, CEnv Peter Matthews	UK
2012	Philippe Duchène	FR

The recipient of the William Dunbar Medal 2012: Philippe Duchène

On the occasion of each IFAT, the William Dunbar Medal, donated by the Messe München GmbH, is awarded by the European Water Association to a person who has made a major contribution to the science and/or technology of water and wastewater management.

Philippe Duchène, born 1948, is a French technical and scientific expert in wastewater treatment, internationally recognized for his high reference competences and skills. He has devoted most of the 35 years of his career to IRSTEA (former Cemagref), a national applied research public institution, where he headed important departments. His activities have covered water and wastewater technology research especially related to domestic and agricultural wastewater treatment.

As a practical engineer he has conducted a large and pragmatic data acquisition on hundreds of full scale plants combining process engineering and biology disciplines. His most valuable production, for the improvement of the technical evolution and the enhancement of wastewater treatment plants, consist of 40 papers, books or booklets dedicated to professionals, concerning the design and operation of equipment and processes. Papers in the scientific and technical advances related to his two main fields, activated sludge aeration and microorganism ecology, were also published.

He has been a member of 10 scientific committees in international conferences and published a number of papers in scientific and technical journals (90 in Water Research and 130 in Water Science and Technology).

In 1995, Philippe Duchène was awarded by the French National Academy of Science; a prize, which is awarded each decade, for one of his 15 reference synthesis papers (on nitrogen in wastewater treatment), which all included operational recommendations and guidelines.

He is active in supporting public policies (contribution to the technical translation into French regulation of the Wastewater Directive, expert on court).

Mr. Duchène has a strong international commitment and has been a member of assessment panel for EC DG Research programs five times. He has assessed projects for national programs and has chaired national and European Standardization Committees. He was a member of the management committee of the IWA group on “activated sludge population dynamics”, expertise on WWTP projects on several continents among many other merits in his lifelong dedication in the fields of water and wastewater technologies.

Philippe Duchène was a member of the European Scientific and Technical Committee of the European Water Association from 1993 – 2003. With his knowledge he greatly contributed to our discussions, conclusions and activities, keeping friendly relations with all members.

We are deeply honoured to be able to congratulate Philippe Duchène and wish him all the best for the future.



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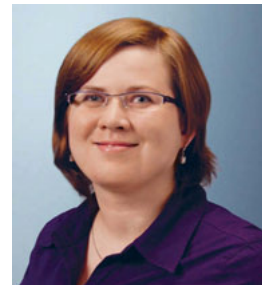
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Save the date

- **dex/EWA Summer School on Water Quality Management**
 15-20th July
 Rottenbach/Austria
- **EWA-EU-Policy Workshop How to deal with Brussels**
 31st October 2012
 with Dr. Helmut Blöch/
 Brussels

More information:
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The European Year of Water

2012 has been dubbed the European Year of Water. Why? Because 2012 will be a key year of reckoning with respect to water management in Europe.

It is the year where the Commission will assess achievements in sustainable water management in the past and present, assess the needs for the future and draw up a Blueprint to Safeguard Europe's Water Resources proposing action to ensure that Europe can meet the key target of EU water policy: to ensure sufficient availability of good quality water for sustainable and equitable water use, including the maintenance of the ecological quality of our waters and the maintenance of nature and biodiversity.

Developing the necessary assessments and proposals is a major task and requires a look into how well existing policies are being implemented and the challenges they are facing. But it also requires taking a close look at how global societal change will impact on water management. Global megatrends such as rapid demographic change, growth in demand for food, energy and consumer goods in emerging economies such as China, India and Brazil and climate change mitigation policies will put an increasing strain on not just water quality, but also water quantity. Water will be needed to satisfy demand and to sustain natural capital that will be able to provide sustained ecosystem services, including the provision of sufficient amounts of safe and clean water.

Part of the response to the pressure from global megatrends on limited resources has to be their more efficient use as set out in the Commission's Roadmap for a Resource Efficient Europe. Effective pricing mechanisms provide an incentive in this respect but are absent in many cases. Due to this, special attention needs to be paid to ensuring efficient use of limited water resources in a green economy that safeguards the sustainability of the ecosystem services on which our economy builds.

EU water policy has hitherto addressed the supply of clean water mainly through measures that directly improve water quality, in particular measures to reduce pollution, regulate water abstraction and restore hydromorphology to attain good status in EU surface and groundwaters. The main instrument in this respect is the Water Framework Directive from the year 2000 which brought together and consolidated a number of legislative acts adopted in the previous 20-25 years and introduced a coherent technical, legal, economic and governance framework for management of water at the level of river basins in the EU, including transboundary basins. The Water Framework Directive is in fact the EU version of "integrated water resources management".

In the past the Commission has taken clear commitments to review in 2012 not only the implementation of the Water Framework Directive, but also policy on water scarcity and droughts and the vulnerability of water resources to the impacts of climate change and other man-made pressures.

However, a simple "routine service check" to see if policy implementation can be fine-tuned would not be an appropriate response to the challenges we are facing. It is becoming increasingly apparent that water scarcity, droughts and floods are on the increase in Europe and that there is a link with climate change whose impacts we are only beginning to feel. And the rapid growth in global demand for energy and food will increase the pressure also on Europe's water resources. These pressures will impact on both water quality and the balance between demand for water and its availability.

But this also means that water is no longer an issue of science and engineering only. The quality and availability of our limited water resources and their allocation has wider economic impacts on the economy and on welfare. It has therefore become an issue requiring political choices to be made. And it is therefore that a "Blueprint" is needed now to decide how to manage these longer term challenges.

Peter Gammeltoft

Peter Gammeltoft is Head of Unit, Unit D.1: "Water" DG Environment, European Commission. In 2006, he was a member of the Water Unit at the DG Environment. From 1998 to 2005 Mr. Gammeltoft worked in the Clean Air and Transport Unit, after being in the Water Unit from 1991 to 1997.



His responsibilities include: Water Framework Directive, Groundwater, Chemicals in Water, Floods Directive, Water Scarcity and Droughts, Water and environmental resources vulnerability.



The Blueprint will build on 3 major policy related reviews:

- 1) A review of the 170 or so River Basin Management Plans adopted by Member states in the implementation of the Water Framework Directive;
- 2) A review of the implementation of the agreed EU policy on water scarcity and droughts from 2007; and
- 3) A review of the vulnerability of water resources to the impacts of climate change and other man-made pressures.

In parallel to these reviews, the Commission is carrying out a “Fitness Check” on EU water policy and legislation. The Fitness Check is part of the Commission’s Smart Regulation policy and puts policy to a test to assess its relevance, coherence, effectiveness and efficiency. It builds to a very large extent on inputs from all stakeholders about how policies are working on the ground and will provide valuable information about stakeholders’ views on gaps in policies, obsolete requirements and about whether there are further needs or excessive burdens. A report on the Fitness Check is scheduled to be published in April 2012.

A public consultation on policy options for the Blueprint will take place from March to May 2012 and the 3rd European Water Conference for stakeholders will be held in Brussels on 24th–25th May 2012 in connection with this year’s version of the Commission’s “Green Week” which will take place on 22nd–25th May 2012 and will be dedicated mainly to water.

The Blueprint will take account of the diversity of situations in Europe and the fact that for water there are no cost-effective “one size fits all” solutions. As far as substance is concerned, it will firstly identify issues that can be adequately addressed through improved implementation of existing policies and instruments. Given the clear interlinkages between water and biodiversity and developments in sectors such as agriculture and energy, it will secondly examine how to improve articula-

tion with nature conservation and biodiversity policy and integration of water concerns in other sector policies. And, thirdly, where cost-effective solutions are not available in other policies, it will examine the need to complement the existing environmental policy framework.

In particular, the Blueprint will look at issues such as strengthening the role of quantitative targets in river basin management, the need for improving water efficiency in agriculture, in buildings and in public water supply networks, reducing water pollution, natural water retention measures, improved protection of aquatic ecosystems, effective water pricing, payment for ecosystem services, improvements in water governance, knowledge base enhancements and how innovation can contribute to attaining water policy objectives.

With respect to innovation, the Commission is currently considering launching a European Innovation Partnership on water in the spring of 2012. Such a partnership would contribute both to the objectives of the Blueprint and to the wider objectives of the Commission’s EU2020 initiative by strengthening the global competitiveness of EU industry in the area of know-how and technology for water.

But if you want to know more about the detailed options for and the contents of the Blueprint, you should attend Green Week in May 2012 and have look at the Commission’s web pages around mid November 2012 when the Blueprint is planned for adoption by the Commission. Then you will know why 2012 is the European year of water!

Challenges to be addressed in the Blueprint – A Parliamentarian View

2012 has been announced the European Year of Water. It will see the unveiling of the European Union's Blueprint to Safeguard Europe's Water, which seeks to address the regional and global aspects of EU water policy and reinforce the Union's commitment to international goals on access to drinking water and sanitation. The theme of water is prominent both on an international and a European level and presents an adequate opportunity to reconsider the EU's general approach to water. Moreover, it seeks to enhance international co-operation in research and innovation as well as in other policy areas, such as development and overall environmental policy.

Water availability

It is widely recognised that generally, there is enough water for everyone in Europe. However, the distribution is very uneven. While in some regions, water stress is a minor issue, it is of utmost urgency in others. Moreover, availability is subject to extreme weather events like floods and droughts, as these can cause significant damage and severe water stress. In this regard, the EU Floods Directive and the Commission Communication on Water Scarcity and Droughts have been first measures to tackle these climate change related issues. More extensive and coordinated steps in this field will however be required to cope with presumable exacerbating conditions.

Richard Seeber

MEP Dr. Richard Seeber was elected as Member of the European Parliament in June 2004 and was re-elected in 2009. Richard Seeber was also elected to be co-coordinator for the Committee on the Environment, Public Health and Food Safety.



In his work he specially focuses on the topic of water. In January 2010 he was appointed as the chairman of the new Intergroup on Water at the European Parliament. This forum brings together MEPs, EC Commission officials and stakeholders representatives to develop thinking on water issues.

Further key elements of Richard Seeber's work are environmental protection, air quality and mountainous regions.

The basis for the Blueprint is the Water Framework Directive (WFD). The WFD is considered a milestone in the history of European water policy. It has introduced a shift in water management and placed ecology at the centre of decision-making. The WFD has set itself ambitious targets: By 2015 all water bodies need to reach good status. The Blueprint to Safeguard Europe's Water is the vehicle that will help achieve this goal. Closely linked to the EU's major strategies like the EU 2020 Strategy and the Resource Efficiency Roadmap, its aim is to pave the way for a more efficient, sustainable and effective water policy to be adopted by member states and industries. In this context, resource efficiency is of particular importance: By managing water more efficiently, reducing leakages and improve consumption circles, enormous amounts of water could be saved and used for more pressing purposes.

At the European Parliament, we highly appreciate the Commission's initiative to establish a new water framework. As a Coordinator in the Committee for Environment, Public Health and Food Safety, and future Rapporteur of the Blueprint, I have taken the initiative to draft an Implementation Report ahead of the Blueprint in order to investigate gaps regarding the Member States' current implementation status and highlight priorities that ought to be considered in the Commission proposal.

I have detected three fields that merit special attention in the upcoming proposal:

Even though public water demand has declined by 40% in Eastern Europe (and, less markedly, in Western Europe) since the early 1990s, due to higher water prices and the downturn of the economy, water scarcity is a frequent phenomenon. Today, it affects at least 11% of the European population and 17% of the EU territory, according to findings of the European Commission. Hence, the protection and sustainable use of water resources, as the most effective and least expensive way to save water, should be a key priority in the Blueprint proposal.

Water quality

It is, of course, not only the quantity that counts, but also the quality of the water we use. Water quality is, to a large extent, shaped by the way we treat our wastewater, particularly around urban centres. European water quality has generally improved over the last 20 years, although large challenges remain.

There are many sources of water pollution such as landfills, mining, forestry, aquaculture and inadequate waste water treatment; however, there are two sources that affect water pollution: agriculture and the urban environment. The agricultural sources are mainly nutrients from fertilisers and pesticides; as well pollution from livestock and manure. In the urban environment the discharge is even more diffuse. Everything from personal hygiene products to friction from car tyres and industrial by-products can pollute water bodies. Wastewater collection and treatment is therefore essential to limit the damages. Already now, a Commission proposal on the revision of the list of priority substances in the water field – according to the European Quality Standards Directive – is being discussed at the

Parliament. The Commission is proposing to add 15 chemicals to the list of 33 pollutants that are monitored and controlled in EU surface waters. This is another step towards improving the quality of our river, lake and coastal waters.

The Water/Energy Nexus

Water and energy are two sectors that are interconnected to a very high extent. While energy use by the water sector accounts for 2% to 6% the overall energy use, water use in the energy sector amounts to 45% in the EU. Energy is at the heart of the water use process, it is needed for extraction, transportation and treatment. Equally, power plants require substantial amounts of cooling water. Dams are an important power source, too.

While the past focus of research and policy has typically kept these two areas quite separate, the interaction between the two will be crucial for the future as water scarcity becomes more acute and demand for energy increases. It will be increasingly important to consider the water use implications of new energy infrastructure, whether supply and demand is sufficient, and also the energy use of new water infrastructure. The Blueprint will have to consider this highly seminal issue.

The topics highlighted above are exemplary for the abundance of details that need to be considered when devising strategies for water use and management. We must not forget, however, that a large part of the water legislation has already been passed, and sometimes only lacks thorough implementation. Also, there is still a considerable knowledge gap when it comes to water gap – the Water Information System for Europe (WISE) will need to be reinforced in order to create a valuable data base.

Nevertheless, it is evident that the EU needs an integrated, multi-level approach to water policy in order to fulfill the manifold economic, environmental and social demands. Water needs to be managed sustainably in order to cater also to the needs of the following generations. In the truest sense of the word, it is vital to establish a well-functioning, holistic water policy in order to guarantee to EU citizens lasting access to their most basic public good: water.



Cross-sectoral international dialogue launched on ensuring water, energy and food security at the Bonn 2011 Conference – The Water, Energy and Food Security Nexus – Solutions for the Green Economy

The international „Bonn2011 Conference: The Water, Energy and Food Security Nexus – Solutions for the Green Economy“ was hosted by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) and the Federal Ministry for Economic Cooperation and Development (BMZ) on behalf of the German government from 16th–18th November 2011. The conference patron, Federal Chancellor Angela Merkel, had declared in advance that the Bonn2011 Conference would be one of Germany’s key contributions to the Conference on Sustainable Development (Rio+20), which will be held in Rio de Janeiro in June 2012. As well as dealing with reshaping UN structures, it will address the question of how green economy can support sustainable development.

At the invitation of the German government, 550 high-level decisions-makers and experts from 82 countries met in Bonn. The conference participants included representatives of politics, international and UN organizations, national and local administrations and institutions, the scientific sector, civil society and the private sector. For the first time, decision-makers and experts from the water, energy and agriculture/food sectors met in an international forum to discuss common solutions for securing water, energy and food supply worldwide for all population groups and how energy and food security as well as adequate water supply can be guaranteed in the long term, without exceeding the planet’s natural limits.

Linking water, energy and food security is a major challenge for the future. In 2030, less than 20 years away, the world population is expected to be more than eight billion, and the global economy will have roughly doubled. If we then try to achieve the necessary water, energy and food security with the practices we currently know and use, water demand would exceed available resources in many parts of the world.

At the same time, the latest studies show that with targeted and efficient use of existing water resources – combined with improvements in agricultural practices and along the entire food chain - it is possible to secure drinking water and food supply for a growing world population without overexploitation of water resources.

Therefore, the basic premise of the conference was that this is possible if, on the basis of a better understanding of the links and interdependencies between water, energy and food concerns, constructive solutions can be identified, conflicts of use recognised and reduced and potential for efficiency and productivity tapped for all three areas. The “nexus“ approach marks a new perspective, a new way of thinking that moves beyond the limits of existing disciplines and silo thinking. The interconnected challenges of the coming decades necessitate interlinked, cross-sectoral and cross-level solutions. Identifying connections, developing integrated solutions and implementing this into coherent action is the only way to avoid conflicts of goals and mistakes that can have grave and irreversible consequences.

The key question of the conference was which framework conditions and incentives and which new forms of cooperation are needed and can help achieve such approaches.

Requirements and background of the conference

An increasing gap worldwide between supply of and demand for energy, food, water and wastewater disposal can be expected in the face of global trends such as population growth, rising economic prosperity and the impacts of climate change. Studies forecast a 40% gap between water supply and demand by 2030 meaning that around two-thirds of all people would live in regions with water shortages.

As a result there is not only danger of overexploitation of natural resources, but also difficult decisions and issues concerning distribution with impacts on economic growth and social development. Alleviating poverty is one of the key challenges.

The conference was a culmination of a broad preparatory process of over a year, involving a wide range of partners, including the World Wildlife Fund for Nature, the World Economic Forum and the International Food Policy Research Institute as strategic partners. A group of internationally renowned scientific institutes, led by the Stockholm Environment Institute, drew up a background paper entitled „Understanding the Nexus“, which highlights fundamental links between water, energy and food and shows the potential that can be tapped by taking greater account of these links in decision-making processes.

Conference objectives

In view of the challenges referred to with the nexus of water, energy and food security, the objective of the Bonn2011 Nexus Conference was to prepare solutions that take greater account of the interdependencies between the three sectors:

1. The conference should identify cross-sectoral approaches and favourable international and national conditions for achieving water, energy and food security (policy recommendations) based on multi-stakeholder dialogue.
2. It should position the focus on linking water, energy and food security, introduce this „nexus approach“ into the Rio+20 process and establish it as an important dimension of concepts for the transition to a green economy.
3. The conference should also be a platform for presenting concrete initiatives that promote and implement the nexus approach in practice.

Dr. Helge Wendenburg

Since 2005, Dr. Helge Wendenburg is Director General and heads the Directorate “Water Management, Waste Management and Soil Protection” of the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety in Bonn, Germany. Since 2010, the Directorate is also responsible for the matter of Ecologic Resource Efficiency. Dr. Wendenburg is the author of various articles concerning water and waste management issues as well as water and waste legislation issues that were published in different journals, periodicals and newspapers. He is Co-editor of a commentary of waste management law and Member of the board of editors of the German scientific periodicals “AbfallR”, “Müll und Abfall” and “Umwelt- und Planungsrecht (UPR)”.

**The conference highlights and key outcomes**

A diverse conference programme offered plenary sessions and various parallel forums for exchange and discussion. Three strategy panels tackled the challenges of ‘accelerating access – integrating the bottom of the pyramid’, ‘creating more with less’ and ‘investing to sustain ecosystem services’. 14 so-called hot topic sessions addressed individual topics from a nexus perspective such as making dams work for the nexus, the water and food implications of cultivating more energy crops and opportunities and risks of large scale investments in land and irrigation schemes. Four events under the heading ‘nexus solutions in practice’ presented innovative solutions, the nexus café gave participants the opportunity to discuss the issues addressed in smaller groups. A global panel discussed the nexus-related human rights perspective, enabling interested parties from all over the world to take part, ask questions and submit comments via the Internet. The event ‘moving to action’ showcased 17 initiatives by different stakeholders on enhancing, specifying and implementing the nexus approach. At a high-level final plenary with Klaus Töpfer as its facilitator, the joint chairs of the conference – Uschi Eid and Albert Butare – gave a résumé of the many suggestions and issues discussed during the three days in their co-chairs’ reflections.

Many of the contributions during the conference made clear that more information and knowledge is needed about the impacts at the interfaces of the three sectors. So far there has only been an insufficient exchange of experience and expertise and too few, cross-sectoral, interdisciplinary research approaches.

However, with more and improved cross-sectoral expertise and greater experience in cooperation between sectors, planning and decisions could take account of a range of perspectives. In short: A move away from silo thinking and sectoral ivory towers.

Greater and improved communication between sectors is needed, as well as greater and improved communication with decision-makers from politics and industry, and with the public. It is important to create a general understanding of the interdependencies and to promote acceptance of changes. It needs to become clearer that global business-as-usual is not an option. The consequences of previous perspectives and patterns of action are foreseeable.

Greater coherence in decision-making is crucial. The nexus approach should be of particular significance when planning investments and infrastructure, and in decisions on subsidies and economic frameworks. This way, unintentional negative consequences can be avoided. Issues of competing competences should not cloud the cross-sectoral overall view.

Technological innovations – for example for more efficient use of resources – generate new economic potential and contribute to providing a better supply of clean drinking water, food and energy to the poorest sections of the population. However, here, too, it is important to avoid negative technological impacts in line with the nexus approach.

Consumers also have a part to play. Their purchasing decisions influence producers and trade. They help to determine the chances of market success, for example of resource-efficient and green products and goods from fair trade. Greater consumer preference for more durable products would have a similar effect.



What are the next steps?

The results of the preparatory process and the conference have been compiled in detailed policy recommendations which had been open for comments via the conference website for several weeks. The final version is available at the conference website (<http://www.water-energy-food.org>) along with the more condensed “Messages from the Bonn2011 Conference” and the “Conference Synopsis”.

The contents, results and key messages of the conference have been introduced to the preparatory process for Rio+20 by the Federal Environment Ministry and the Federal Ministry for Economic Cooperation and Development and some key aspects are already reflected in the draft decision for Rio+20 as well as in several related policy documents. The results have been and will be presented at international events such as the Global Energy Forum in Abu Dhabi in January 2012, the World Water Forum in Marseille in March 2012 and the World Water Week in Stockholm in August 2012. Furthermore, the initiatives presented during the conference will be further pursued and others will be launched.

The 550 high-level participants from politics, national and international administrations, industry, science and society will each play a part in their spheres of influence to contribute to ensuring greater focus on cross-sectoral consideration of water, energy and food security.

Water, energy and food are the three basic elements of human life and economic activity. These goods are at the centre of humane, just societies. Only if we can ensure that they are permanently accessible for all will we be able to establish a humane world order. This is why it is so important to emphasise the connection between these three elements, to reflect on it and take it as a basis for future action. And this is why this conference is so commendable, and I would like to extend my sincere thanks to all those who have contributed to it.

Federal Minister Norbert Röttgen (excerpt from speech on 16th November, opening plenary)

This conference is an innovation. [...] It is a necessity, perhaps even an adventure. But if we are not willing to be adventurous we will not be able to tackle one of the greatest challenges facing mankind: overcoming sectoral thinking. This is a necessity of socio-political debate that also applies here today. Decision-makers from politics, industry, science and different regions are taking part. We have to overcome the culture of sectoral thinking in our discussions. And we have to overcome the compartmentalisation of discussions because the problems facing us are interdependent. We will only be in a position to meet challenges by taking a holistic approach.

Federal Minister Norbert Röttgen (excerpt from speech on 16th November, opening plenary)

The transformation towards a green economy is not only imperative in terms of sustainability. Essentially, it is a question of justice. With our patterns of consumption, which entail the irreversible loss and destruction of resources, we are taking the very foundations of life away from those people who have so far been excluded from wealth – today’s poor and future generations. [...]

20 Years of the Urban Waste Water Treatment Directive

Discharge of untreated urban waste water is a threat to public health and one of the most significant causes of pollution in coastal and inland waters. The European Union has put in place a powerful instrument to address this threat: since 1991 the Urban Waste Water Treatment Directive 91/271/EEC (UWWTD) has addressed the management of urban waste water from municipal and industrial sources.

The UWWTD aims to protect the environment from any adverse effects caused by the discharge of waste waters. It sets clear obligations for the collection of waste water and on how to treat it before it is discharged – these also imply the construction of appropriate physical infrastructure by Member States.

Over the twenty years of the UWWTD's existence, the European Commission has published six reports on how well EU Member States have implemented its requirements. The latest report¹⁾ shows that the Directive plays a crucial role in addressing pollution from waste water, even if its full implementation is hampered by some difficulties, notably in relation to funding.

In 2000 the EU adopted the Water Framework Directive 2000/60/EC (WFD) a modern, ambitious and comprehensive instrument expanding EU water policy to all waters. The WFD defines the overall objective of achieving Good Environmental Status, addressing all sources of pollution. Full implementation of the UWWTD is crucial for its success.

Status of Implementation of the Directive

Considerable progress has been made in the implementation of the UWWTD. Although the analysis of the most recently reported data²⁾ shows that significant challenges remain, there are some very positive achievements.

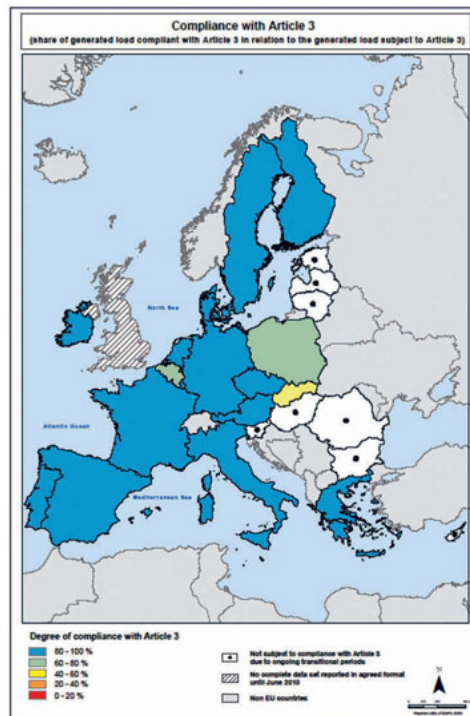
According to the report³⁾, for the EU-15 countries, waste water collecting systems that had to be set up in accordance with Art 3 of the Directive were in place for 99 % of their total polluting load, while the figure was 65 % of the total generated load for the more recent EU-12⁴⁾ Member States. While EU-15 countries thus maintain their overall high level of compliance, in EU-12 Member States, there was an improvement (see picture below).

1) http://ec.europa.eu/environment/water/water-urbanwaste/implementation/pdf/SEC_2011_1561_F_EN.pdf

2) The report has been prepared with information reported by EU Member States. It provides information as regards the obligations that were due to be met by the end of 2007/2008.

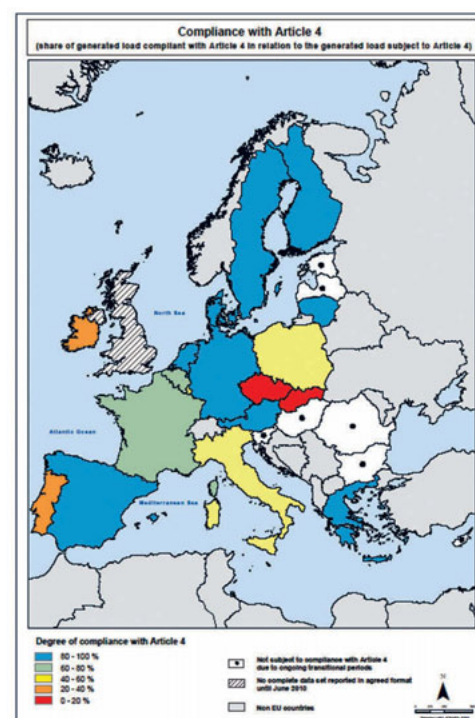
3) EU-15 generally refers to EU Member States before the 2004 enlargement: Austria, Belgium, Denmark, Germany, France, Finland, Greece, Ireland, Italy, Luxembourg, Portugal, Spain, Sweden, The Netherlands and United Kingdom. However, since the United Kingdom did not submit data for the last reporting exercise in the last Summary published by the Commission, EU-15 de facto means EU-14 and does not cover United Kingdom.

4) EU-12 refers to Member States who acceded to the EU in the 2004 and 2007 enlargements: Czech Republic, Cyprus, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, Slovenia, Bulgaria and Romania.

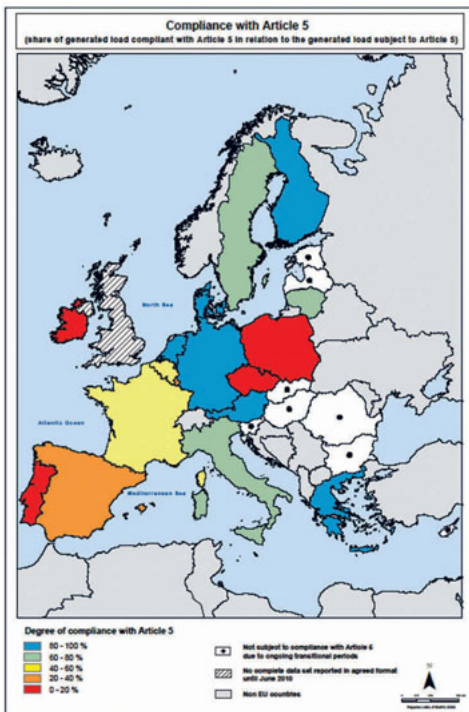


As regards secondary (biological) treatment, mandated by Article 4 of the Directive, again the EU-15 have maintained their overall high level of compliance, while improvements have taken place in the EU-12 (see picture below). Biological treatment was in place for 96 % of the load for EU-15 and for 48 % of the load for EU-12.

The equipment for secondary treatment has been enhanced in general, although not all installations deliver the levels of quality prescribed by the Directive. This is considered to be due to incomplete renovations of facilities or to a lack of maintenance.



There are large variations among Member States concerning the compliance with the obligations for more advanced treatment in sensitive areas, Article 5 UWWTD (see picture below). The situation has nevertheless substantially improved in EU-15 Member States. It should be noted, however, that the infrastructure in place cannot always deliver the quality standards the Directive requires. Again this is probably due to outdated equipment or insufficient maintenance.



The Impact of the UWWT Directive

According to the European Environment Agency⁵⁾ (EEA), the measures regarding nutrient pollution have been implemented with varying degrees of success.

The considerable increase in the connection rate to wastewater treatment systems has undoubtedly given a significant boost to the protection of the environment. The Directive was indeed successful in decreasing nitrogen and phosphorus emissions. However, while the UWWTD has limited the amount of such nutrients entering water bodies, there are other factors as well: The positive results in terms of environmental quality have been also dependant on a reduction of these pollutants from other sources (e.g. agriculture). The delayed response of the environment to external changes⁶⁾ is another factor to be taken into account.

The implementation of the Directive has also resulted in significant improvements in bathing water quality. Using EEA data, the percentage of freshwater bathing sites in the highest quality category has almost doubled between 1990 and 2009. For coastal bathing sites, the increase is more than 20 %.

In addition, the improvements in urban sanitation and water quality brought about by the implementation of the UWWTD and other environmental directives, along with the use of antibiotics and vaccines, have contributed to lowering death and disability from infectious and parasitic diseases⁷⁾.

Financing the implementation of the UWWTD

Environmental protection activities have a cost but only in the short term. The implementation of the UWWTD involves significant investments due to its urban infrastructure requirements. Other significant costs are linked to the renovation or maintenance of public equipment.

But the absence of waste water treatment would entail greater costs caused by generalised water pollution, health problems and the impairment of economic activities. In addition, investments in environmental infrastructure usually result in increased levels of employment and economic activity⁸⁾.

EU financial instruments and institutions such as the European Investment Bank have supported Member States in meeting their obligations. In the current funding period 2007 to 2013, the planned investments into infrastructure related to collection or treatment of waste water will amount to about 14 billion EUR. Twenty-one Member States have allocated Cohesion policy funding to waste water treatment, the biggest share (about 98 %) being used in the 'Convergence regions'.

A report by the European Court of Auditors⁹⁾ concluded that, in general, EU Structural Funds contributed to the improvement in waste water treatment in the concerned Member States.

5) <http://www.eea.europa.eu/publications/signals-2000/page014.html>

6) E.g. FATE, Fate of Agrochemicals in Terrestrial Ecosystems
<http://publications.jrc.ec.europa.eu/repository/handle/11111111/15938>

7) EUROSTAT, Atlas on mortality in the European Union, 2009

8) „Investment and employment related to EU policy on air, water and waste“, http://ec.europa.eu/environment/enveco/industry_employment/investment_and_employment.htm

9) European Court of Auditors Special Report No 3, 2009

Astrid Schomaker

Ms Schomaker is the Head of Unit for Marine Environment and Water Industry in the European Commission's Directorate General for Environment. She studied English, History and Law in Hamburg and Norwich and has an LL.M. in international legal cooperation from Brussels Free University. Returning to Hamburg she became a fellow in the Department of European Law at Hamburg University and after a brief stint as visiting scholar in the law faculty at the University of Michigan, Ann Arbor, joined the European Commission in 1992, working in the unit for EU and US trade and economic relations. In 1996 she was posted to the EC's Washington Delegation as first secretary for political affairs. Back in Brussels in 1999 she was in charge of regulatory cooperation with Japan, before in 2001 becoming head of unit for relations with the Andean community in DG External Relations. In 2004 she moved to DG Environment to head the unit for international relations, governance and development. From 2007 to 2011 she led the work on chemicals, biocides and nanomaterials before taking up her present position at the beginning of 2012.



Challenges Ahead

- **Achieving increased compliance rates**

Some EU 15 Member States, e.g. Belgium, Ireland, Italy and Portugal, still need to make substantial efforts to improve their compliance rates. Some of these Member States have already taken steps towards a better level of implementation; this will hopefully improve their results in future reports.

The situation in EU-12 countries requires continued efforts: some of them have compliance rates below 50%. Significant investments in these countries have to continue for the necessary improvements to take place.

In a small number of cases the quality levels of the effluents released by treatment plants is decreasing. This might indicate the obsolescence or deterioration of some installations. Such issues should be resolved as soon as possible.

- **Improving implementation efficiency**

The implementation of the WFD provides a coherent framework for all actions aimed at preserving water resources. Actions for the implementation of the UWWTD beyond the minimum requirements should therefore be seen as a contribution to the WFD implementation process. This will allow to focus on the most important environmental problems due to discharges of untreated waste water and, in this way, to obtain a more effective environmental response.

Conclusion

It is clear that the wastewater treatment situation in Europe has significantly improved since 1991, to an important extent due to the implementation of the UWWTD.

Although good progress has been made, there is still a lot of work to do. We expect that the experience gained in these twenty years will allow the EU to better ensure implementation of the UWWTD, making the process more efficient and ensuring that the UWWTD lives up to its potential and contributes to the successful implementation of the WFD.

Astrid Schomaker
Head of Unit
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This contribution reflects the views of the author and not necessarily those of the European Commission.

The Russian Water Association

In 2011 the EWA was able to win a new member to our list of national associations: the Russian Water Association. The EWA is pleased to introduce to you the new member, some of its activities and give a short overview of the water situation in Russia at present.

The Russian Water Association was recently established in virtue of a Resolution by the Prime Minister of the Russian Federation Vladimir Putin in December 2009. RWA's primary goal is to support the water industry players' joint efforts aimed at the industry reforming and modernizing to improve the performance of the Russian water enterprises; to strengthen the liaisons with the international water community, as well as to represent abroad the water-related interest of the Russian Federation. Major Russian water utilities such as the "Vodokanal of St. Petersburg", the "Mosvodokanal" and the Rosvodokanal among many more, are members of the Russian Water Association. The President of the Association is the Deputy Chairman of the Federation Council (Upper House) of the Russian Federation Svetlana Orlova. The Supervisory Board comprises heads of federal and regional authorities, as well as other outstanding public persons.

Regional activities- The Pure Water Program

The Russian Water Association collaborates with the regions of the Russian Federation in the implementation of regional programs and projects in the water sector within the Pure Water federal program. The time frame for this program is set from 2011 to 2017. The Russian Water Association plans to take an active part in the implementation of the Pure Water program, which was launched in Russia by the United Russian party in 2006. In April 2008 a decision was made on the state Pure Water program development. In August 2009 the Government adopted the Water Strategy of Russia which should be implemented through 2020; The Pure Water program is an integral part of the Water Strategy of Russia. The program covers the complete urban watercycle, including housing water supply system renovation, wastewater treatment, utilization and subsequent treatment of waste water, as well as production of the equipment required for all the stages of the water supply and

water discharge process, such as filters, pipes, systems for final water treatment, and so on. The total funding of the Pure Water target program (all sources: is RUR 331.8 Billion.)

It is expected that by 2017, the share of the population connected to centralized water supply systems will reach 85%. At the same time, the share of the population connected to centralized wastewater collection and discharge systems is to reach 84 %. The investments to water supply, wastewater collection and wastewater treatment facilities as a part of the industry's total revenue is planned to reach 31 %. The Pure Water program is being implemented and supported by the regions in the Russian Federation. 40 regions have already adopted the regional Pure Water target program.

Other activities of the Association are concentrated on technological modernization of the water industry by introducing innovative technologies, investments attraction, creation of a water-management system based on the public-private partnership principles, development of a competitive service market.

International Activities

The RWA has already established co-operations with the Aquae Italiana Association, the German Water Partnership and Czech Water Alliance.

Also, the RWA is a member of the World Water Council, the Global Water Partnership and the International Water Association.

Russia and the Water Sector

Russia has unique water resources, almost equal to one fourth of the total global water resources. However, these resources are poorly accounted and managed, and they are unequally distributed across the country. The majority of the high quality water resources of Russia are concentrated in the mountain regions, the Baikal Lake, and rivers of the Eastern Siberia and Far East, from where it is difficult to deliver water to other regions of the country. As a result, many regions have to use poor quality water.

For a long time, no real measures were taken to change the



The Chairman of the Board of the Russian Water Association, Aleander Katkov



The President of the RWA Svetlana Orlova surrounded by representatives from the RWA

situation concerning water in Russia. In the last 20 years, the situation in the utilities sector has deteriorated significantly, and now potable water and international quality standards achievement have become extremely acute issues. 11 million residents of the Russian Federation use water which is unsuitable for drinking. 50 million Russians, i.e. a third of the population use poor quality water daily. The wear of water supply and discharge networks is 70 %.

The current situation is not yet considered as critical or even disastrous. Nevertheless, presently there are several zones where the water crisis signs in Russia become obvious:

Urban water supply.

The existing water supply system in Russia uses obsolete technology from the Soviet era, the key assets are exhausted, and go out faster. Investments and implementation of new technologies for the system re-equipment may not catch up with the obsolescence and breakdown of the key assets.

Exhausted tanks preventing urban and industrial growth.

At present, the key water tanks in residential and industrial centres are more and more exhausted in Russia. As a result, in 2020–2030s, the lack of water may create significant challenges for the growth and development of the main industrial and urban centers in the Russian Federation.

Agricultural development

The overall demographic situation in the world suggests that already over the next 10 years the global food crisis will become more acute. According to experts, due to its vast territories and moderate climate, Russia can potentially become one of the major grain producers in the world. To achieve this, it is necessary that Russian agriculture switches to a system, which is stably functioning regardless of climatic conditions and condition of (shallow) rivers. This requires new water supply systems with the use of modern technologies.

The position of Russia with reference to the global water situation is twofold: On the one hand, the southern regions and the European part of the Russian Federation (i.e. the industrially developed zones and promising regions) are approaching the situation of the European countries and the US; where in the nearest future several regional water crises with potential global impact are expected. On the other hand, Russia has significant fresh water reserves (Baikal and Siberian regions).

Three issues are currently the most acute for Russia

- **Developing the state water management policy.**

This is an interdepartmental and interdisciplinary issue, as it requires settlement of various conflicts of interests: cities and residents, agriculture, transport, hydro energy, industry, etc. Development of the state water management policy both at the federal and regional level requires a shift in water resource management paradigm from the water resource distribution concept to the concept of management of reducing and deteriorating resource. Such management requires a new approach and another management process.


- **Establishing an expert community.**

At present, the lack of an established expert community capable of discussing long term water and water management issues as an interdepartmental and interdisciplinary issue is one of the key problems in Russia. Similar processes of expert community establishment are underway in the US, Australia, European countries, and Japan. China has joined this process, and India starts to join it also. The position and voice of Russia in the global water context are extremely important. At present, the Russian Water Association is the site suitable for establishment of Russian expert community and relations with the international water community in the Russian Federation.

- **Establishing an adequate and correct community attitude towards water (from water conservation to water quality)**

is one of the most acute issues in Russia.





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Main Activities

The Association is a professional, non-profit organization of water supply and sewerage professionals with a Mission Statement founded on two goals: To improve the capacity of the people who work to deliver water supply and sewerage services in Albania; To represent the interests of water supply and sewerage utilities and other professionals in the water sector in Albania regarding laws, decrees, and regulations that may be proposed for action by the Parliament or by the Government. The Association, which is celebrating its 10th Anniversary in 2010, believes in sustaining an aggressive member services and outreach program consisting of its award winning Children's Water Awareness Program; University Student Summer Internship Program; bilingual newsletter and website; routine training programs; Annual Conference and Exhibition; and its current initiative to establish a Young Water Professionals section.

Challenging Topics

The water supply and sewerage sector in Albania is still in a major transition as the Government continues to implement its decentralization programs. These challenges are:

- regionalisation of water supply and sewerage services to improve performance upon economies of scale.
- focus on commercialization of utility management to achieve full cost recovery from revenues.
- development and implementation of a sustainable, national training program to improve the capacity of the sector, leading to certification as a qualification for employment in the sector.



Austria

Österreichischer Wasser- und Abfallwirtschaftsverband (ÖWAV) Austrian Water and Waste Management Association

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HR DI Johann Wiedner

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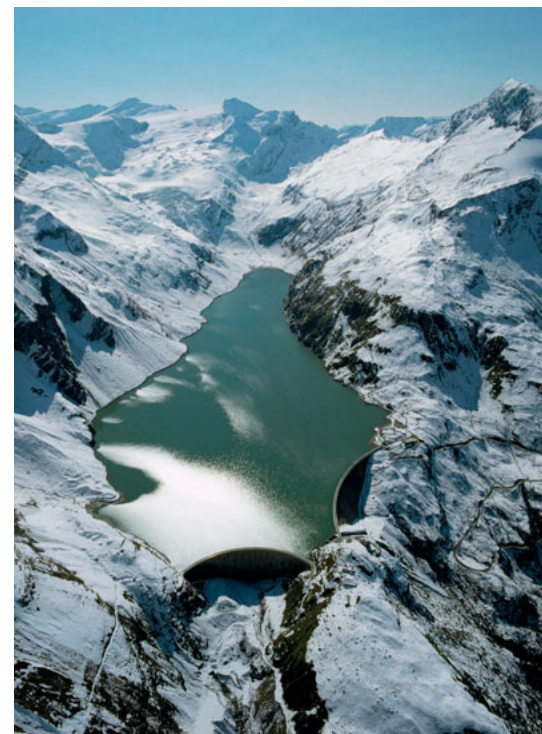
Web: www.oewav.at

Main activities

The Austrian Water and Waste Management Association (ÖWAV) is a voluntary collective of all parties interested in water and waste management in Austria, which leads to the exchange of experience in economy, administration and science. It is considered as an "independent counsellor" with the goal of achieving sustainable objectives of the water, wastewater and waste management in Austria.

Challenging topics

- climate change
- buildings and water
- sewage sludge platform
- maintenance of sewage systems
- courses and advanced training for the staff of water treatment plants and waste management facilities.





Belgium

Belgian Committee of the International Water Association (B-IWA)/VLARIO

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B-IWAs activities

The B-IWA is a national network organization that aims to stimulate interaction between education – science – industry – water management and policy, mainly in the field of wastewater collection and treatment as well as drinking water production and distribution. Yearly, several master classes are organized to stimulate interaction between students/young water professionals and diverse water experts from academia, industry as government.

VLARIOs activities:

VLARIO is an independent non-governmental and non-profit organization in Flanders (Belgium).

VLARIO is the consulting platform and information and knowledge centre for Flemish sewer systems with the following targets:

VLARIO offers an independent platform for experts of rainwater, wastewater and integral water management;

VLARIO collects knowledge through continuous consultation and exchange of experience with all market players, national and international;

VLARIO propagates this knowledge via publications and the organization of seminars, workshops, lectures and study clubs;

VLARIO supports the ambition of Flemish towns and cities in purifying quality and applying the 'Principles of integrates sewage management'.

VLARIO has 420 members, such as most of the Flemish towns and cities, regional authorities, Aquafin, consulting engineers, contractors and industrial companies.

B-IWA/VLARIO are partners in the EWA-European network to support the making and implementation of the European water policy. Living in Belgium and at home in Brussels, we feel obliged to do better and more, in close contact with all the EWA-Members and Cooperation Organisations.



Bulgaria

Bulgarian Water Association (BWA) Bulgarska Asocia po Vodite

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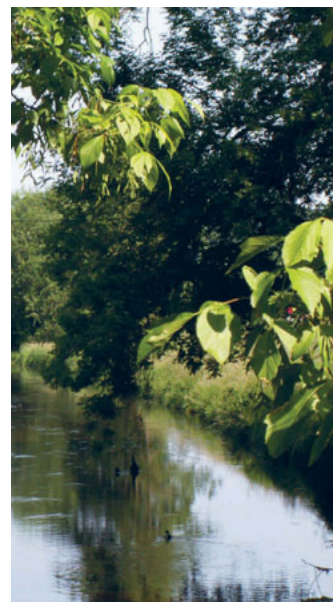
Main activities

The BWA is a non-governmental, non-profit organization whose main fields of interest are water supply and wastewater disposal, as well as management, preservation and utilization of water resources. It takes part in discussions related to new regulations and develops expert appraisals, standpoints and strategies in its field. The BWA organizes workshops, conferences, round tables and is also involved in the training of water/wastewater operators. The Association has 85 corporate and 185 individual members.

Challenging topics

1. water losses reduction
2. water act amendments implementation
3. education and training of water operators

4. development of new national water strategy
5. urban water infrastructure development





Croatia

Croatian Water Pollution Control Society (CWPCS)

President

Bojan Zmaić, M. Sc.

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Main activities

The CWPCS is promoting water protection and sustainable use of water. It has a key role in practical education of young experts in a different field of water related issues, e.g. through the organisation of practical seminars on different technical aspects of water management. The CWPCS organises lectures of national and international experts in Croatia, as well as scientific conferences, like the "Waters in Protected Areas", held in Dubrovnik in 2007, or "Modern Methods of Storm Water Drainage In Urban Coastal Areas", held in Rijeka in 2009.

Members of the CWPCS are actively involved in preparing national and international projects related to water protection and water management. They are also actively involved in the work of EWA and participate in the work of EU working groups of CIS of the WFD.

Close cooperation with other national organisations, exchanging experience,

improving relations and solving neighbourhood problems.

Challenging topics

1. encouraging young experts and scientist to be more actively involved in the work of CWPCS.
2. establishment of the ad hoc working groups consisting of highly motivated experts whose work on a specific water related issue would be very intensive and of limited duration.
3. transformation of the CWPCS into a professional institution capable of spreading the information, knowledge and competence gained in relation to water policy, implementation of new technologies.
4. organizing practical courses for WWTP and sewage maintenance personnel



The Czech Water Association

Czech Republic

Asociace pro vodu ČR

The Czech Water Association (CzWA)

President

Dr. Břetislav Krňávek, MSc.

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Main activities

The CzWA is the association representing Czech specialists and companies working in the fields of wastewater, waste and water management and quality control of surface waters. The main activities of the association cover both technical-scientific subjects and the economic and legal aspects of water environment protection. The association provides consultancy to the state and local authorities and to private subjects. The CzWA organizes professional seminars and conferences on both national and international level and provides training courses on different levels.

Challenging topics

In 2011 CzWA established a new specialist group dealing with drinking water treatment and supply. With this the number of CzWA specialist groups has reached twelve and these groups cover most of the professional topics in water sector. The CzWA has finished its conversion from initially being

a wastewater association to an association of all Czech water professionals and has become an adequate member of international organizations like EWA or IWA.

The CzWA wants to continue or to improve the cooperation with water associations in neighbouring countries. The CzWA has a contract on cooperation with the AČE in the Slovak Republic, the ÖWAV in Austria and DWA in Germany. The CzWA has also established good working contacts with the MaSzeSz in Hungary. The cooperation with neighbouring association helps to keep the standard of CzWA biennial conferences on high scientific and technical international level. The international contacts of the CzWA makes the association more attractive for young water professionals (YWP) who are now forming a significant fraction among the CzWA individual members.

Another all time challenge is the Elbe from the mountains to the border with Germany.





Denmark

Danish Water Forum (DWF)

Chairman

Bjørn K. Jensen

EWA Council Representative

Bjørn K. Jensen

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Main activities

The Danish Water Forum (DWF) is a network of Danish water organisations aimed at highlighting expertise and knowledge and facilitating concerted actions. The competences and high standards of its members make the DWF an excellent entry point to the Danish water sector and its services and expertise within virtually all aspects of water industry, technology, science and management. DWF represents:

- contractors and manufacturers
- water companies and consultants
- research institutions
- government authorities and NGOs

The unique member blend of researchers, consultants, contractors, manufacturers and users gives DWF an integrated knowledge about all aspects of the entire water sector, including issues relating to the environment, agriculture and health.

The Danish Water Forum has its main area of interest in the developing world and is a North-South focussed association.

Challenging topics

1. the global climate changes will have a tremendous impact on specific regions in the world, especially in the poor countries. DWF will work for ensuring that donor organisations draw the climate change into their planning of donor funded projects to ensure "climate-safe" project results.
2. danish water expertise is world famous especially within both technology and policy. Marketing of these areas will be main areas for the DWF during the next couple of years.



Estonia

Eesti Veeühing

Estonian Water Association

President

Arvo Järvet

EWA Council Representative

Arvo Järvet

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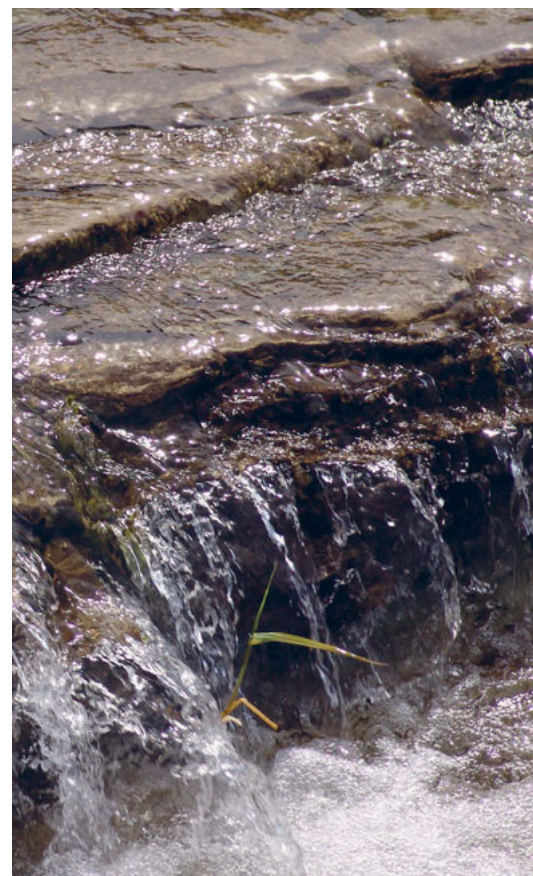
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Main activities

The Estonian Water Association promotes and facilitates the evolution of legislation, terminology, education, science and engineering of water management.

It offers opinions on Estonian water management problems. Arranges meetings, events and conferences related to water usage, surface and groundwater protection and other water management sectors.





Finland

Suomen Vesiyhdistys ry Water Association Finland

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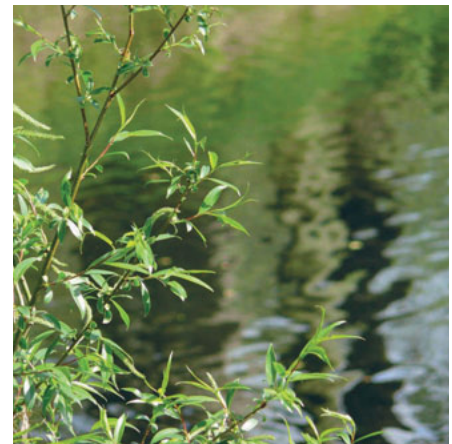
Main activities

The Water Association Finland is a non-governmental body with some 500 individual members and 20 corporate members, founded in 1969. The purpose of this body is to improve and distribute knowledge and promote professional networking in Finland and abroad.

The purpose of the association is to improve and disseminate knowledge and promote professional networking in Finland and abroad. The core issues are mostly dealt with by standing committees for hydrology, limnology, water supply and wastewater treatment, water legislation, river basin management, water ecology and water pollution control, fisheries, and hydraulic engineering.

Challenging topics

1. the renewed Finnish water legislation.
2. implementation of the EU Water Framework Directive.
3. climate change effects on water management and water environment.



France

Association Scientifique et Technique pour l'Eau et l'Environnement association (ASTEE) ("Scientific and Technical Association for Water and Environment")

President

Pierre-Alain Roche

Executive Director

Célia de Lavergne

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Main activities

Since its founding in 1905, the "Association Scientifique et Technique pour l'Eau et l'Environnement (ASTEE)" has been a privileged centre point for the exchange of technical, scientific and administrative information between the various persons and organisations involved in the design, production and operation of urban and rural equipments and infrastructures, with a strong emphasis on environment and hygiene related utilities. Water ecosystems and resources are also addressed in a more global view.

The ASTEE handles all the different aspects of urban engineering and rural engineering, in relation to utilities, infrastructures, and natural assets: water, drainage, waste, hygiene, disinfection, urban planning, habitat, traffic, viability, transportation, lighting, urban amenities, cleanliness of public places, atmospheric pollution, noise, hydrology, water supply, corrosion, sanitation, urban networks, development plan, surface management, etc...

The ASTEE's aim is to promote studies and research work for the environment, public hygiene, urban development, rural development; to favour the exchange of ideas and information between all involved parties.

Challenging topics

1. creation of a workgroup across technical committees for work on performance indicators of water and sanitation utilities
2. contribution to the preparation of the World Water Forum 2012 in Marseille, over various topics, joining forces with all French water stakeholders and parties to welcome all the participants and visitors
3. further development of the collaboration with other French water association, in order to work together on key issues



Germany

Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e. V. German Association for Water, Wastewater and Waste (DWA)

President

Bauass. Dipl.-Ing. Otto Schaaf

Executive Director

Bauass. Dipl.-Ing. Johannes Lohaus

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Main activities

The DWA – German Association for Water, Wastewater and Waste – is intensively committed to the development and distribution of a secure and sustainable water management. It acts as a political and economically independent organisation in the field of water management, sewage, waste and soil protection.

In Europe the DWA is the association with the largest number of members within this field and therefore takes on a special position. It provides professional competence regarding standardisation, professional training and information towards the public. Approximately 14,000 members represent the experts and executives from local authorities, universities, engineering offices, municipalities and enterprises.

Main emphasis of its activities is placed on the acquirement and update of a consistent technical set of rules and standards as well as cooperation in the formulation of technical norms on national and international level. Furthermore, the DWA also offers professional training as well as further vocational training. There are not only technical scientific topics involved, but also economic and legal interests of the environment and water protection are addressed concerned.



Hungary

Magyar Szennyvíztechnikai Szövetség (MaSzeSz) Hungarian Wastewater Association

President

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Executive Director

Dr Dezső Dulovics PhD

EWA Council Representative

DI. Károly Kovács

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Main activities

The Hungarian Wastewater Association was founded in 1997. The Association has around 300 individual, institutional and company members. The members are mostly design engineers, operators, professors from several universities dealing with water wastewater technologies and sewage systems. The main activities and objectives of the Association are:

- support technical and scientific cooperation between members
- provide practical, technical and scientific information towards members, municipalities and authorities
- support young scientists
- cooperate with the government on development of regulations
- cooperate with other civil organizations in water related questions

- organizing national and international conferences
- develop, edit, distribute, and provide educational services for technical and cost comparison guidelines

Challenging topics

1. strengthen the cooperation with municipalities as decision makers on the public water sector
2. strengthen the communication towards civil players on the water sector
3. strengthen the exchange of experiences between regions and neighbouring associations



Latvia

Latvian Water and Waste Water Works Association

President

Andis Dejus

Executive Director

Edgars Taurins

EWA Council Representative

Andis Dejus

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Main activities

The Latvian Water and Waste Water Works Association venture cooperates with related organizations. Suggestions and changes may be implemented into legislation and elaboration of normative documentation through The Ministry of Environmental of the Republic of Latvia.

24 enterprises are currently member of the Latvian Water and Waste Water Works Association.

The target program of the Association is to ensure the provision of stable high quality water supply and wastewater services to the residents.

General tasks and methods: Co-operating with government and administrative institutions working on elaboration and improvement of laws and regulative enactments in the field of water supply and wastewater.

Challenging topics

Co-operation with municipalities in the fields related to the operation of water supply and wastewater companies, improvement of the structure of such companies and the problems that in all cities and towns of Latvia shall be solved jointly; organizing systematic and purposeful training of employees working in the water supply and wastewater sector by using existing training centres and establishing new ones, meet contemporary requirements etc. Both surface and groundwater is used for centralized water supply in Latvia.



Lithuania

Clean Water Association (CWA)

President

Mr. Vidas Bonkys

EWA Council Representative

Mr. Vidas Bonkys

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Main activities

The Clean Water Association (CWA) is a non-governmental environmental organization and was founded on May 31, 1996. The CWA's mission is the reduction of pollution of surface and ground water.

The main goals are:

- Environmental education aimed at the formation of an understanding by the population of the problems regarding water resources.
- The improvement of the design, construction, operation, and maintenance of facilities for the prevention of pollution of water bodies, primarily of the plants for the treatment of the wastewater.
- The rise of professional qualification of specialists and organizations working in the field of water pollution control.
- The quest for and support of the right and effective governmental strategies and policy in the sphere of protection of water bodies.
- The assistance in the creation and development of the production of technological equipment for the treatment of wastewater in Lithuania.

- The build up and strengthening of the ties of Lithuania's environmentalists with the counterpart organizations, associations, and specialists of other countries.
- The support for the global efforts aimed at the protection of water against pollution.

Challenging topics for the future

The Clean Water Association is of the opinion that it is expedient to create a Venta River basin Region as the Demonstration and Verification Area for the innovative, efficient and economical, environmentally-friendly wastewater management technologies would be of significant ecological, social and economical value for the development of The Venta River Basin in two neighbor Baltic States – Lithuania and Latvia.



Luxembourg

Association Luxembourgeoise des Services d'Eau (ALUSEAU)

President

Raymond Erpelding

EWA Council Representative

Raymond Erpelding

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Main activities

The ALUSEAU is the national association of water services in the Grand-Duchy of Luxembourg, regrouping members of the drinking-water sector and of the wastewater area. ALUSEAU is a politically independent and non-profit making association. The main objectives of the association are to promote the common interests of all authorities and public services dealing with water management. To that effect ALUSEAU aims at advocating the study of all scientific, technical, economic and administrative problems relating to drinking-water supply and sewage collection and treatment, promoting a suitable management of the water resources of the country. The ALUSEAU is also representing its members in international associations dealing with the same objectives just described.

The core business of the association is to:

- keep contact between the different water services
- keep contact with the national authorities
- being involved in the outworking of national directives

Challenging topics for the future

1. national publicity campaign for drinking water
2. the European water directive was transposed for 2009 in national legislation. The ALUSEAU helps the authorities to transpose and implement the law and to introduce new water pricing.

UNIE VAN WATERSCHAPPEN

The Netherlands

Unie van Waterschappen (UvW)

President

Peter Glas

Executive Director

Mr. Albert Vermue

EWA Council Representative

Gerard Doornbos

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Main activities

The Unie van Waterschappen represents the interests of the Dutch Waterschappen. Waterschappen are decentralized functional governments, responsible for regional water management (quantitative and qualitative), flood defence and waste water treatment.

Challenging topics for the future

1. facing the challenges of climate change with regard to regional water management.
2. financing integrated water resource management (see further under vision – water resources).
3. further strengthening the position of the Unie van Waterschappen in Influencing relevant European legislation.





Norway

Norsk Vannforening Norwegian Water Association (NWA)

President

Anette Æsøy

Executive Director

Elisabeth Andersen

EWA Council Representative

Haakon Thaulow

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Main activities

The Norwegian Water Association (NWA) is an independent non-governmental and non-profit organisation dealing with the management and improvement of the water environment. The NWA provides a forum for discussion of key technical, scientific and policy issues on water covering both water resources and water quality. Through this exchange of knowledge, the NWA significantly contributes to sustainable water management in Norway. The NWA has about 900 individual and 450 corporate members.

The implementation of the Water Framework Directive in Norway is one of the core activities. Furthermore, water quality issues, watercourses and coastal areas, aquatic ecosystems and biodiversity, water quality monitoring, water supply and health effects, sanitation, impacts of hydropower development, effects of long-transported airborne pollutants,

effects and adaptation of climate changes are activities which are just as important to the NWA.

Challenging topics for the future

1. continuing the development of the administrative and organisational capacity of the association.
2. establishing new regional committees in order to spread the activities of the association in the major regions of Norway.
3. recruiting new members by informing and fostering the visibility of the association.



Portugal

Associação Portuguesa de Engenharia Sanitária e Ambiental (APESB)

President

Prof. José Saldanha Matos

EWA Council Representative

Prof. José Saldanha Matos

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Main activities

The Associação Portuguesa de Engenharia Sanitária e Ambiental – Portuguese Association for Sanitary and Environmental Engineering (APESB) is a Portuguese non-profit, scientific and technical association, founded in 1980, for an indeter-

minate period of time, recognized as a corporate body of public interest since March 1990.

APESB has the following objectives:

- to be a national body especially oriented to the study, analysis and discussion of aspects related with water supply, drainage, treatment and final disposal of wastewater and the collection, treatment and final disposal of solid waste, in order to contribute to the implementation of better, feasible and sustainable solutions.
- to foster the technical and scientific exchange, including technology transfer and training, in the fields of water supply, drainage and treatment of wastewater as well as solid waste, at national level and in the Portuguese-speaking countries.

- to contribute to the scientific and technological development of subjects related to water supply, drainage, treatment and final disposal of wastewater and collection, treatment and final disposal of solid waste.

Furthermore APESB has the following core activities:

- water treatment and supply
- wastewater systems
- water quality and pollution control
- solid waste (collection, treatment and disposal)
- health related subjects

Challenging topics

- health related topics
- climate changes and water and wastewater systems
- water reuse



Russia

Некоммерческое партнерство «Российское водное общество» Russian Water Association

President

Svetlana Orlova

Chairman of the Board

Alexander Katkov

EWA Council Representative

Svetlana Orlova

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The Association priority guidelines refer to contributing to the elaboration of the national policy in the water sector based on the introduction of cutting-edge innovative technologies, infrastructure upgrade and investment attraction. The Russian Water Association collaborates with the international water community, and national water and financial organizations.

The priority guidelines of the Russian Water Association:

- contribution to the elaboration of the national water sector policy;
- cooperation with international and national water companies and organizations;
- expert support for the pure water federal target program for 2011–2017;
- establishment of centers for innovative water technologies in regions;
- close collaboration with regions on water infrastructure modernization issue;
- implementation of large-scale innovative projects in the water industry;
- support of the national water scientific school;
- creation of training centers and programs;
- attraction of investments to the industry's modernization;
- elaboration of principles that should form the community's attitude towards water resources;
- review of the current context of the Russian water sector;
- establishing the Russian water expert society.



Serbia

Serbian Water Pollution Control Society (SWPCS)

President

Dr Milan Dimkić

Executive Secretary

Mr. Aleksandar Djukić

EWA Council Representative

Mr. Aleksandar Djukić

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Main activities

The Serbian Water Pollution Control Society (SWPCS) is a non-profit independent organisation of experts in the water sector which was established in 1966. The main objective of the Society is to create and foster the network of leading water professionals through the provision of services and products to the members, including conferences, publications and support for member groups. In addition, to represent the views of members in the national and international forums aimed at advancing best practice in the sustainable water management.

Challenging topics

1. provide expert's opinion on new legislation and policies.
2. provide specific training on critical issues in the water sector (implementation of WFD, water resource management, wastewater and sludge management, diffuse pollution, etc.).
3. strengthen the cooperation of water related NGOs in Serbia and in the region.





Slovak Republic

Asociácia čistiarenských expertov SR (AČE SR)

Association of the Wastewater Treatment Experts of the Slovak Republic

President

Assoc. Prof. Miloslav Drtil, PhD.

EWA Council Representative

Ing. Karol Kucman, PhD.

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Main activities

The AČE SR is the Slovak membership association which groups professionals acting in the fields of wastewater management and water protection. The AČE SR covers all aspects of wastewater pollution control, collection, treatment and disposal; promotes exchange of the latest skills, techniques and knowledge on all aspects of wastewater, water and sludge management. The mission is to enable the improvement of groundwater and surface water quality in an environmentally sustainable way. The AČE SR disseminates knowledge by means of conferences, workshops, specialised meetings, publications, electronic media and expert services.

Challenging topics

1. wastewater and water management, water protection
2. sludge management
3. exchange of information and experience



Slovenia

Slovenian Water Pollution Control Association (SDZV)

Slovensko Društvo Za Zaščito Voda

President

Prof. Dr. Boris Kompare

EWA Council Representative

Prof. Dr. Jana Zogorc-Končan

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Main activities

The purpose of the Association is to associate societies and individuals working in water and wastewater management, especially regarding quality issues. The main activities in this sector are to act in water pollution control, drinking and wastewater treatment; to develop consciousness of the importance of water preservation; to follow, study and work on water preservation and its uses, supplies of potable water, and dealing with used and waste waters; to inform and educate: professional, scientific and other public institutions by publications, lectures, meetings, sharing of experiences, excursions, by courses and similar activities and achievements in the field of water control; cooperation with similar local, foreign and international societies and organizations.

Challenging topics

1. the establishment of new working groups
2. cooperation with administrative bodies on drinking water, wastewater treatment and excess sludge treatment
3. attendance and participation at Slovenian annual conference "Water Days"
4. cooperation with national and international bodies, associations and individuals on the water protection issues



Spain

Asociación para la defensa de la calidad de las aguas (ADECAGUA)

President

Jose Antonio Diaz Lazaro

EWA Council Representative

Dr. Manuel Soler

Managing Director

Gamaliel Martínez de Bascarán

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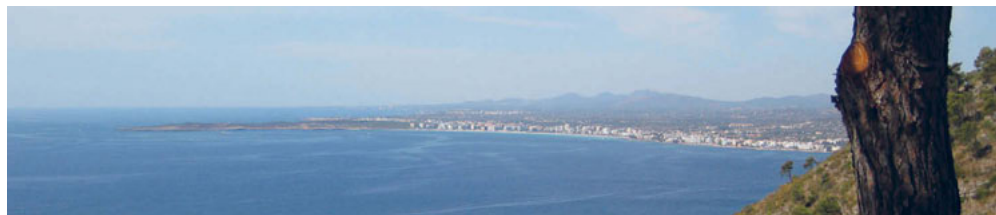
Web: www.adecagua.es

Main activities

The ADECAGUA is a non-profit educational and technical association that is economically and politically independent organization of water quality experts. The ADECAGUA is currently the Spanish member of the Water Environment Federation.

The ADECAGUA has got more than 300 members that are working with private or public companies, engineering firms, universities, consulting firms etc., but the association has mostly private members.

The ADECAGUA develops and disseminates information concerning the different areas of water treatments and nature and we also collaborate with two specialized journals in Spain. ADECAGUA regularly organises technical seminars and meetings which are announced on its webpage: www.adecagua.es where you can find all our news related to this fantastic world: water.



Switzerland

Verband Schweizer Abwasser- und Gewässerschutzfachleute (VSA)

Association Suisse des professionnels de la protection des eaux

Associazione svizzera dei professionisti della protezione delle acque

Swiss Water Association

President

Martin Würsten

Executive Director

Dr. Urs Kupper

EWA Council Representative

Olivier Chaix

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Main activities

The VSA is the association representing Swiss specialists working in the fields of wastewater and water pollution control management. The main activities of the association cover technical, scientific, economic and legal aspects of water pollution control. The politically and economically independent association operates on a national level.

Central tasks of the association are preparing and updating technical standards and guidelines and professional training of members and staffs of sewage treatment plants.

Challenging topics

- river basin management
- management of infrastructure
- water agenda 21
- micro pollutants





United Kingdom

Chartered Institution of Water and Environmental Management (CIWEM)

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David Wilkes

Executive Director
Nick Reeves, OBE

EWA Council Representative
Paul Horton

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Main activities

The CIWEM is a professional institution with thousands of members many of them based overseas across 90 countries. The CIWEM members work for regulators, government, consultancies, international organizations (such as World Bank, ADB) etc. The institution develops its activities and thinking through technical panels which include: Water Resources; Water Supply and Quality; Air; Wastewater Management; Waste Management and Sustainability & Environmental Management. In addition the CIWEM operates groups, Rivers & Coastal; WaPug – CIWEM Urban Drainage Group and a range of networks: Natural Capital; Faiths and Environment; Climate Change; Contaminated Land; Arts and Environment;

The CIWEM also produces two major journals Water & Environment Journal (WEJ) – www.ciwem.org/publications/journal and

the online Journal of Flood Risk Management – www.ciwem.org/publications/flood.

The CIWEM works with the Water & Climate Coalition and is nominated NGO status at the UN Framework Convention on Climate Change.

Challenging topics

1. climate change – impacts on water management
2. training, research and development
3. truly integrated environmental management
4. biodiversity and integration of ecosystem management into policy
5. diffuse pollution
6. global water security
7. achieving sustainable regulation
8. population increases and changing consumption patterns

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Messe München GmbH

Description

Messe München International is one of the world's leading trade-fair companies. In Munich alone it organizes around 40 trade fairs for capital and consumer goods, and key high-tech industries. Each year more than 30,000 exhibitors and over two million visitors take part in the events held in the trade fair center in Munich, the ICM – International Congress Center Munich, and in the M.O.C. Events and Order Center. In addition, Messe München organizes trade fairs in Asia, Russia, the Middle East and South America. With six subsidiaries in Europe and Asia and more than 60 foreign representatives actively serving over 90 countries, Messe München has a worldwide business network. The group also takes a pioneering role regarding sustainability: It is the first trade-fair company to be awarded an energy-efficiency certification from the technical inspection authorities TÜV SÜD.

IFAT ENTSORGA 2012, the World's Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management, is expanding its portfolio: For the next event, taking place from 7th–11th May 2012 in Munich, the subject of irrigation technology will be included in the nomenclature for the first time. Another very topical theme is geothermal energy. And for this reason it is also being included in the program of the IFAT ENTSORGA. Furthermore, this topic is also being spotlighted in a congress on biomass and geothermal energy which is to be held during IFAT ENTSORGA, on 9th–10th May.

This means that the IFAT ENTSORGA 2012 will have an even more extensive range of exhibits than in 2010. An exceptionally diverse range of innovative, high-tech, sector-specific solutions and services satisfy the highest international criteria. In addition to that, IFAT ENTSORGA features an extensive events program which sets new standards.

In 2012, IFAT ENTSORGA is fully booked. The world's premier trade show for innovations and services in water, sewage, waste and raw materials management will be covering a total of 215,000 square meters of exhibition space (180,000 sqm indoors and 35,000 sqm outdoors), and that will set a new record for the show. In terms of exhibitors, the number will exceed the 2,730 that took part in the last IFAT ENTSORGA.

Further information are available at www.ifat.de.





DER AGGERVERBAND

Aggerverband

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Aggerverband

Description

The Aggerverband is a water association according to the regulations of the German federal state North-Rhine-Westphalia. The Aggerverband operates two drinking water reservoirs that supply about 500.000 people per year with approximately 25 Mio. m³ drinking water. A third reservoir provides 12 Mio. m³ raw water annually. The service area covers 1620 km². The protection of habitats at creeks and rivers is important to the Aggerverband. Flood protection is ensured by combining natural and integrated artificial systems. The Aggerverband conducts design and operation in relation to its fields of activity. This covers waste water systems (sewage works, sewers), water supply (reservoirs, water works), flood protection and maintenance of water bodies. The Aggerverband runs 38 sewage treatment plants, 10 pumping installations, 150 storm water overflow tanks and 100 km sewers.

The rural structure and the topography account for the high number of small and medium-sized facilities. The aim of the association is to ensure a high water pollution control at bearable costs. The Aggerverband wants to meet the challenge of competition in the course of the liberalization of the water services. Its aim is to keep high quality standards while reducing costs. One tool for achieving this goal is the quality management that is currently established.



Aquademica Foundation

Aquademica Foundation

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Aquademica is a non-profit organization in Romania active in the environmental, water and waste water sector. The Romanian-German Foundation Aquademica was established in March 2009 by Aquatim, the regional water and wastewater operator in Timis county/Romania, and the Municipality of Munich (Waste Water Department). Being an information and knowledge center, the Foundation promotes professional development in the environmental field and offers itself as a networking platform supporting specialists, professional organizations and companies. It also offers services aimed at providing sustainable solutions and excellence in the water and waste water sector such as: studies and surveys, environmental, economic and engineering expertise, cost comparison calculations, feasibility studies, consultancy and design.

Main advantages of Aquademica are national and international networking with universities, regional water and waste water operators as well as governmental bodies, and the transfer of good practices, already validated and acknowledged by our German partners. Pilot stations, donated by our German members, can be used for simulations of the existing technologies to be optimized, or for modelation of new technologies to be implemented.

Seminars and workshops promoted by Aquademica include theoretical support and practical simulations on the pilot stations. They can take place in any location in Romania or Germany and will be scheduled and organized in accordance with the trainees' needs and availability of the lecturer. The transfer of the German know-how is done directly by the German specialists or by using knowledge multipliers.



Aquatech's World of Water

Aquatech's World of Water

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Description

Aquatech Global Events, established in 1964, organizes the world's leading trade events in the process, drinking and waste water technology sectors in Europe, the USA, China and India. The well-established format covers the following segments: Transport and Storage, Water Treatment, Point of Use, Process Control, Technology & Process Automation, and Country Pavilions. Aquatech Global Events are visited by professionals from all parts of the water industry and attract policy-makers, top-level businesses, specialists, and those who apply the technology in practice.

More information can be found at www.aquatechtrade.com, the B2B portal for the water industry with an online buyers guide, list of companies.

For more information about specific exhibitions, please look at our exhibition websites:

www.amsterdam.aquatechtrade.com

www.china.aquatechtrade.com

www.india.aquatechtrade.com

www.wqa-aquatech.com



Canal de Isabel II

Canal de Isabel II

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Description

Canal de Isabel II is a public sector company depending on the Government of the autonomous region of Madrid. It tackles the comprehensive water cycle management throughout the region. It deals with all the processes intending to provide an appropriate management of water resources.

Water Quality

In order to guarantee the quality of water, Canal de Isabel II has established a strict surveillance program from the very origin of water supply to its arrival at the customer. This program is designed in such a way that it surpasses the standard of the laws currently in force for water for public use, both in Europe and Spain. The analyses for this program are carried out by the Canal technicians at a main laboratory in Madrid and eight peripheral ones located in Valmayor, La Jarosa, Navacerrada, Torrelaguna, Pinilla, Móstoles, San Fernando de Henares and La Poveda. These analyses are complemented by a real time vigilance station network.





Centro Studi Luigi Bazzucchi

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Description

The “Centro Studi Luigi Bazzucchi”, located in Perugia, Umbria Region Central Italy, has been operating for over 18 years on Environmental Resources related subjects in the framework of Provincia di Perugia, a Regional Government Public Body.

The main activities are the organization of public debates with local and national officers, international and national conferences, training and professional courses at national and international level, on topics related to the environment and environmental sustainability.

The training activities are organized in collaboration with Italian universities, CNR-Water Research Institute, the International Water Association; the Italian Chemical Society- Environment Division; Education and Environment Italian Ministers, the European Union, professional organizations etc.

The actors and participants to these activities are officers, scientists, consultants, industry and public control bodies operators, involved in environmental themes such as water, wastes, energy, biotechnology, climate, transport communication and education.



Emschergenossenschaft and Lippeverband

Emschergenossenschaft and Lippeverband

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Description

The Emschergenossenschaft and Lippeverband is a water company for the catchment area of the Emscher River and the Lippe River and its tributaries. Emschergenossenschaft and Lippeverband is the largest Association for the disposal of wastewater in Germany.

The Emschergenossenschaft and Lippeverband is a non-profit company in the form of a self-managed corporation under public law, controlled by its members.

The Emschergenossenschaft and Lippeverband plans, constructs and operates wastewater treatment plants, pumping stations, dikes, sewers and rain reservoirs and maintains the bodies of water in its catchment area. The Association coordinates plans closely with its members. River Basin Management as required by the EU Water Framework Directive has already been implemented on the Emscher and the Lippe rivers.



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Endress+Hauser Messtechnik GmbH+Co. KG

Description

Endress+Hauser is a global leader in measurement instrumentation and solutions for industrial process engineering. With over 8,400 employees worldwide, the Group generates annual net sales of more than 1.2 billion euros.

Company-owned sales centers and a network of partners guarantee competent worldwide support. Production centers in eleven countries meet customers' needs and requirements quickly and effectively. As a successful family-owned business, Endress+Hauser is set for continued independence and self-reliance in the future.

Endress+Hauser provides sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as liquid analysis and data acquisition. The company supports customers with solutions and services in automation engineering, logistics and information technology. Our products set standards in quality and technology.

Customers are primarily from the chemical/petrochemical, food & beverage, water/wastewater, life science, oil & gas, power & energy, renewable energies, primaries & metal, pulp & paper and shipbuilding industries. Endress+Hauser supports its customers to optimize their process procedures while taking into consideration reliability, safety, economic efficiency and environmental protection.



Erftverband

Erftverband

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Description

The Erftverband is a non-profit organization under public law, with a focus on a healthy environment and the common good. The organization is financed through fees paid by its 250 members. The Erftverband and its 500 employees reconcile the different water-related interests of the regional players in a responsible and sustainable manner and with a sense of proportion. The core region in which the Erftverband operates is the 1,920 km² catchment area of the river Erft. The catchment contains numerous tributaries and bodies of water along with the 107 km long river. Here the organisation purifies the domestic sewage produced by approximately 750,000 residents as well as the sewage generated by local trade and industry, which is equivalent to a waste load produced by another 450,000 people. Moreover, the Erftverband looks after a fragile natural region and protects the residential areas from flooding.

However, the reach of the organization goes far beyond the Erft watershed. The entire area of activity comprises over 4,220 km², covering the region affected by the brown coal mines of the Rhineland. The Erftverband monitors the complex relationships involving water supply and distribution, oversees groundwater resources, ensures the water supply and protects the numerous wetlands.



GE imagination at work

GE Water Europe

GE Water & Process Technologies

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Description

GE Water & Process Technologies is a leading global supplier of water treatment, wastewater treatment and process systems solutions, including: separation equipment; membrane & filtration technology; diagnostic tools; specialty chemicals; mobile water capabilities; service; and financing.

GE Water & Process Technologies brings together experienced professionals and advanced technologies to solve the worlds most complex challenges related to water availability and quality, increased productivity and cost reduction, and environmental regulations.

GE's innovative team develops partnerships and delivers reliable, long-term solutions for communities, governments and industry that maximize water and energy resources. The European GE Water & Process Technologies Headquarters is located in Heverlee, Belgium.



Gesellschaft zur Förderung der Abwassertechnik e. V. (GFA) (Organisation for the Advancement of Wastewater Technology)

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www.dwa.de

Description

The GFA is a service company for the German Association for Water Management, Wastewater and Waste (DWA). It publishes the journals of DWA: monthly KA – Abwasser, Abfall (KA – Wastewater, Waste), KW – Wasserwirtschaft (KW – Water Management) and every three months KA-Betriebs-Info (KA – Info for Operators) and cooperates on behalf of the DWA with publishers of other journals on water management in general. In addition, the GFA publishes the DWA – Industry Guide (DWA-Branchenführer), a directory of companies in the environmental industries, focussing on water and waste. The GFA cooperates, on behalf of the DWA, with important trade exhibitions concerning water and waste.





HAZTEC

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Haztec

Founded in 1999 by professionals in the environmental market, the Haztec experienced exponential growth since its founding - whether organically or by incorporating new business units that allowed the expansion of its portfolio of services.

Haztec has the most comprehensive portfolio of services aimed at providing integrated solutions and excellence in environment, the company develops projects in sectors such as oil, mining, steel, pulp and paper, cement, textiles, among others. The business units Haztec are structured in three groups of products: Waste, Water and Energy.

In the Waters, Haztec operates mainly developing projects, products, facilities and operation of equipments and systems under turn-key for the treatment of water resources. A plant located in Sao Paulo is responsible for the production of systems and equipment, ensuring technical support for drinking water treatment or industrial effluents from both public and industrial and reuse of treated effluent.



KOCKS INGENIEURE

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Kocks Consult GmbH

Description

KOCKS CONSULT GMBH is an independent company of planners and consultants established in 1946 by Friedrich Kocks, Dr. Ing., Dr. Ing. h.c. The company employs 200 engineers, architects, planners and environmental experts, collaborating to offer clients a wide range of services. Including KOCKS CONSULT's affiliated companies, there are 500 employees ready to tackle even the most complex tasks.

The range of services offered by KOCKS includes studies and surveys, ecological, economic and engineering expertise, cost and quantity calculations as well as feasibility studies, preliminary and final design. After successful conclusion of the actual planning work, KOCKS ENGINEERS draw up the necessary tender documents, carry out bid evaluations and supervise construction works and equipment installation.

If required, KOCKS ENGINEERS provide project management including the financial transactions involved in it. KOCKS CONSULT GMBH also offers technical consultancy during the commissioning phase as well as training services for the client's staff in operation and maintenance.

Over the last 65 years, KOCKS ENGINEERS have been successful in accomplishing a great number of projects and thus gaining experience in various areas, such as Water, Environment, Civil Engineering, Transport and Training. KOCKS ENGINEERS and its associates operate in more than 20 offices all over the world.



Association of Environmental Enterprises (KSZGYSZ)

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Association of Environmental Enterprises (KSZGYSZ)

Description

The Association of Environmental Enterprises (KSZGYSZ) is a non-profit organization, a professional business federation of the Hungarian environmental industry. The aim of the Association is to expand the information flow towards environmental companies.

The Association has now 290 member companies and institutions covering all environmental sectors, like water, waste, clean air, noise management and remediation as well.

The Association develops services to provide information on the environmental industry by internet databases, year-books of companies, organizes the international exhibition: ÖKOINDUSZTIA, national and international conferences mainly about water treatment and waste management. The Association provides information packages about the Euro-

pean environmental law and partnership and promotes the members international activities as well.

Examples of profiles and technologies of the members of the Association in water treatment:

- drinking and waste water technology
- sewage sludge treatment, optimization for waste water treatment plant
- complex projects in water management and environmental protection,
- water loss detection, water network monitoring systems, identify and repair of hidden leaks
- “No-dig” inspection, cleaning and of pipelines
- effective oil elimination from water surface, oil separation for rain water

Messe Berlin

WATER BERLIN INTERNATIONAL/Messe Berlin Ltd.

WATER BERLIN INTERNATIONAL/ Messe Berlin Ltd.

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Description

Messe Berlin is a service company specialized in the organization of international and national trade shows, exhibitions and conventions. With an annual program of nearly 80 international trade events Messe Berlin ranks as one of the world's top ten exhibition companies. WATER BERLIN INTERNATIONAL is one of the international meeting places for water and waste water industry organized by Messe Berlin Ltd. Berlin's central European location, especially its proximity to the growing eastern European market, offers exhibitors and trade visitors an effective and potentially very successful perspective. The next international trade fair and congress WATER BERLIN INTERNATIONAL will be taking place on May 2nd-5th 2011, in Berlin, and will focus among others on the new product groups as water desalination, trenchless and geothermic technologies. For the first time “International NO DIG – Conference & Exhibition” on trenchless technologies

will be held in conjunction with WATER BERLIN INTERNATIONAL 2011.

Product Groups of WASSER BERLIN

Procurement of water; water and wastewater treatment; water distribution and wastewater discharge; service providers, water supply and sewage, multi utilities; measuring, regulating, analysis technology; valves, pumps, suction systems, driving apparatus technology; surface water protection, ground water protection, soil protection; industrial equipment; excavating machinery; science, research, technology transfer; information and communication technologies. New Product Groups: Trenchless technologies; desalination; geothermic technologies.

Figures of WASSER BERLIN 2011: Exhibitors – over 700 from 35 countries; Trade visitors – over 28,000; Gross exhibition area – over 49,000 sqm.





Netherlands Water Partnership

Netherlands Water Partnership

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United Dutch Water Expertise

Wind, water and wide open spaces have shaped the Netherlands and its history. As a low lying country, vulnerable to flooding, the permanent battle to control the sea and the rivers has made the Dutch experts in water management. For centuries, we have protected our country from flooding, reclaimed land, made our drinking water safe without using chlorine, and developed innovative ways to re-use our wastewater.

Innovation and cooperation

What the Netherlands have experienced through the years is that water management is a process of constant innovation and a team effort. Investing in innovation and knowledge development is crucial. In the past few decades, our mindset has evolved: we have learnt that living with the water and adapting to the changes in our natural environment is often more sustainable than waging a constant battle against the sea. Today, building with nature goes hand in hand with the construction of barriers and levees. What is more, to be able to anticipate the environmental changes we face in the future, we integrate delta engineering with spatial planning, urban design, economic development and nature development. Additionally, we keep investing in sustainable use and reuse of our drinking and industrial water.

Most importantly, we believe that we can achieve more in confronting global water-related challenges by putting our heads together. This is why Dutch companies, knowledge institutes, NGOs and government bodies have united in the Netherlands Water Partnership (NWP), a network organization that promotes cooperation and synchronization between all stakeholders in the Dutch water sector. NWP believes that we can only confront today's water challenges if we work together across borders, sharing knowledge and best practices with international partners. NWP contributes to that global effort by organizing and coordinating international knowledge exchange projects, missions, emergency help, exhibitions, conferences and development projects over the world.



Politecnico di Torino

Politecnico di Torino

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Description

The Politecnico di Torino (www.polito.it), descending from the Technical School for Engineers born in 1859, was founded in 1906. It is a centre of teaching and research excellence, and one of the most important universities in Europe for architecture and engineering studies, strongly committed to collaboration with the industry. The Politecnico di Torino offers diversified teaching: from Aerospace Engineering to Telecommunications, from Biomedics to Mechatronics, Environmental Engineering, Industrial Design, Automotive Engineering and Engineering for Cinema and Media Engineering, and a wide range of courses and specialization programs. Distance-learning programs are also available.

Internationalization is one of the main aims of Politecnico. Over 89 international agreements allow students to obtain double degrees, and 2,000 foreign students per year are enrolled in different schools in the university, including PhD students. Six collaboration agreements with Chinese universities have recently been signed, and in the new buildings of the Tongji University of Shanghai (www.tongji.edu.cn) the Sino-Italian Campus has been inaugurated. New agreements have already been planned especially with Indian universities in the ICT sector.



SANEST Saneamento da Coasta do Estoril, S. A.

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Description

SANEST is a company whose capital is shared by Águas de Portugal, sgps (a governmental holding) and four municipalities near Lisbon (Amadora, Cascais, Oeiras and Sintra).

Range of Products

SANEST is the operator company responsible for the wastewater collection, treatment and disposal in the ocean by a long sea outfall of an agglomeration of about 720 thousand p.e. in the neighbourhood of Lisbon.



Association of Dutch Water Companies (Vewin)

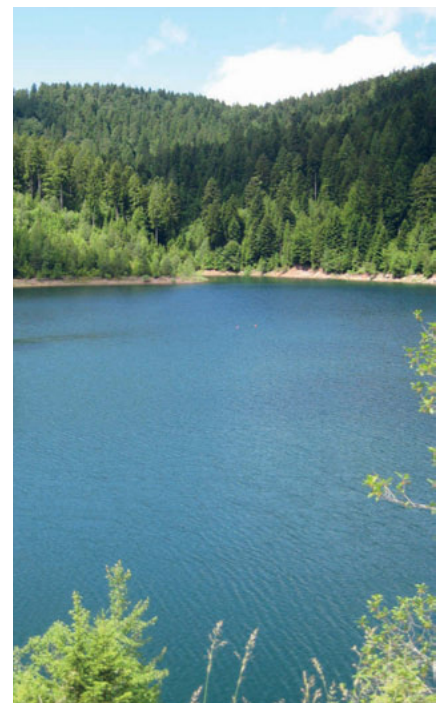
Association of Dutch Water Companies (Vewin)

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Description

Vewin is the national association representing Dutch water supply companies. Back in 1952 it was founded; more than 200 water supply companies were active in the Netherlands. Today there are about 10, which is a change that has altered the association's essential task. Vewin focuses primarily on representing the interests of its members in The Hague and Brussels by creating an environment in which members are able to optimally achieve their objectives.



VLARIO

OVERLEGPLATFORM

VLARIO vzw

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Vlario

Description

VLARIOs activities:

VLARIO is an independent non-governmental and non-profit organization in Flanders (Belgium)

VLARIO is the consulting platform and information and knowledge centre for Flemish sewer systems with the following targets:

- VLARIO offers an independent platform for experts of rainwater, wastewater and integral water management;
- VLARIO collects knowledge through continuous consultation and exchange of experience with all market players on a national and international level;

- VLARIO propagates this knowledge via publications and the organization of seminars, workshops, lectures and study clubs;
- VLARIO supports the ambition of Flemish towns and cities in purifying quality and applying the 'Principles of integrates sewage management'.
- VLARIO has 420 members, such as most of the Flemish towns and cities, regional authorities, Aquafin, consulting engineers, contractors and industrial companies.



Wupperverband

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Wupperverband

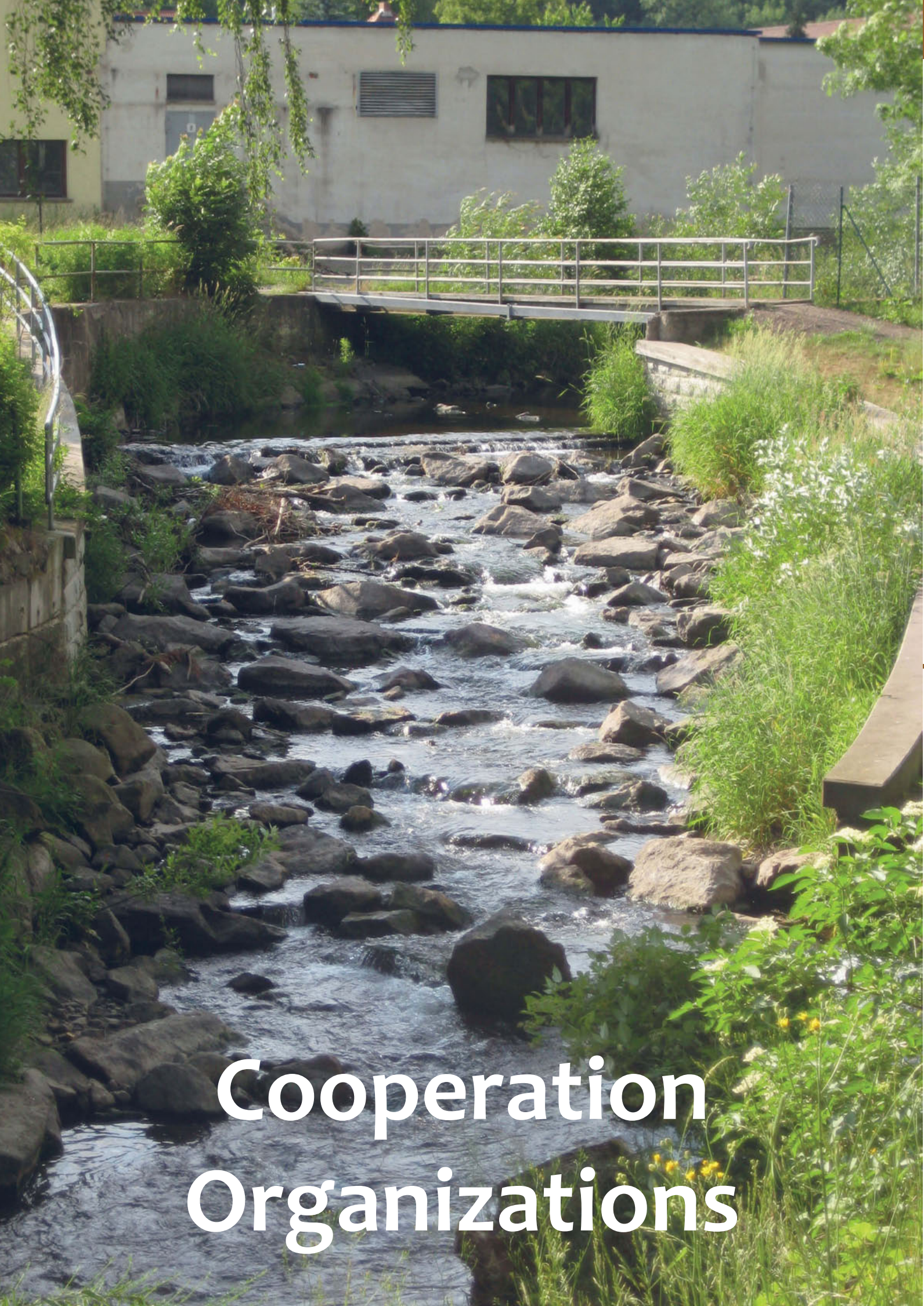
Description

Being one of Germany's longest-serving water management corporations, the Wupperverband has been managing the catchment area of the river Wupper with respect to all water-management tasks since 1930. The catchment area comprises an area of 813 square kilometres with about 2300 kilometres of rivers and streams. More than 90000 inhabitants live in this area.

The Wupperverband is a corporation under public law. Its statutory tasks are sewage treatment and waste disposal, operation of dams to control the water flow in the River Wupper and other rivers, provision of drinking and process water, maintenance and restoration of the rivers and streams. The Wupperverband runs 11 sewage treatment plants, 56 kilometres of sewers, 71 storm-water tanks and sewage pumping stations and 12 dams.



The members of the Wupperverband are cities and district towns, water supply companies and other companies in the catchment area of the river Wupper.



Cooperation Organizations



**International
Water Association**

International Water Association (IWA)

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Executive Director

Paul Reiter

President

Glen Daigger

International Water Association (IWA)

Description

Formed in 1999 following the merger of the International Water Supply Association (IWSA) and the International Water Quality Association (IAWQ), today, the IWA is the global reference for water professionals, spanning the continuum between research and practice and covering all facets of the water cycle. As a member driven organization with 10000 individual and over 500 corporate members worldwide, the IWA is in a better position than any other organization to help water professionals find innovative, pragmatic and sustainable solutions to challenging global water needs. Through its network of members and experts in research, practice, regulation, consulting and manufacturing, the IWA can create expanded knowledge and integrated solutions to meet these needs. Membership with the IWA provides water professionals with a forum for collaboration across the boundaries of specialties, professionals and different parts of the

world.

IWA seeks to be:

- the premier international network of water professionals drawing members from all disciplines in water science & practice
- an international authority on sustainability in the water sector, promoting innovation and best practice
- a highly valued partner to those organizations dedicated to achieving effective water management
- provider of global leadership capable of meeting the dual challenges of environmentally sustainable water provision and the development of the plant.



Japan Sewage Works Association

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Japan Sewage Works Association (JSWA)

Description

Starting in the latter half of the 1950s, rapid growth of industrial economy led to such social problems as aggravation of the living environment and water pollution in public water bodies. This was the situation when the Sewerage Division of the Japan Water Service Association and the National Sewage Works Development Conference were integrated to form the Japan Sewage Works Association in April 1964. JSWA got permission to establish itself as a public interest corporation in January 1965 and began full-scale activities with public organizations as regular members.

The Association's objectives are to develop sewerage services soundly, while conducting research on sewerage systems, and to preserve a network public water bodies for the improvement of people's lives. As a network organization of bodies involved in sewerage works, the JSWA carries out a wide range of activities to

promote development of sewerage works, and facilitates communication and cooperation between public organisations implementing and planning sewerage works on the one hand, and National government, related organisations, enterprises and civic groups on the other.

The JSWA has 1,509 organizations implementing or planning sewerage works as regular members, 54 as associate members, 1,052 enterprises as supporting members, 435 as individual members and 8 honorary members, for a total of 3,058 organizations and individuals as of January 1, 2012.

**UNW-DPC**

United Nations University

UN Campus

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Email: info@unwater.unu.eduWeb: www.unwater.unu.edu**United Nations University (UNW-DPC)**

The UN-Water Decade Programme on Capacity Development (UNW-DPC) is a joint programme of UN Agencies and Programmes cooperating within the framework of UN-Water. UNW-DPC supports UN-Water in the fields of water-related capacity development. It is funded by the German Federal Government and it is hosted by the United Nations University in Bonn, Germany.

UN-Water, an inter-agency mechanism formally established in 2003 by the United Nations High Level Committee on Programmes, has evolved out of a history of close collaboration among UN agencies. UN-Water strengthens coordination and coherence between UN entities dealing with issues related to all aspects of freshwater and sanitation, and contributes to the agenda defined by the 2000 Millennium Declaration and the World Summit on Sustainable Summit.

Based on the firm belief that the achievement of the Millennium Development Goals (MDGs) related to water and sanitation is conditional on stakeholders being able to mobilize essential required capacities. UNW-DPC's mission is to enhance the coherence and effectiveness of the capacity development activities of the UN-Water members and partners. By working on the full range of individual, organizational and institutional capacity development, UNW-DPC seeks to strengthen the ability to the UN-Water members and partners to support Member States to achieve these MDGs.

**Water Environment Federation (WEF)****Water Environment Federation (WEF)**

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Matt Bond (2011-2012)

Jeanette Brown (2010-2011)

Description

Founded in 1928, the Water Environment Federation® (WEF®) is a not-for-profit technical and educational organization with over 36,000 members worldwide from varied disciplines who work toward WEF's vision to preserve and enhance the global water environment.

WEF and its global network of Member Associations (MAs) help provide water quality professionals with the latest in water quality education, training, and business opportunities. WEF's diverse membership includes scientists, engineers, regulators, academics, plant managers and operators, and other professionals working in the United States and around the world.

WEF's headquarters is in suburban Washington, D.C., with a staff of nearly 100. WEF's office in London also serves as the headquarters for WEF Publishing U.K., Ltd., and is home to WEF's award-winning magazine, World Water and World Water Reuse and Desalination.

European Water Association

Are you

- active in the European water sector?
- interested in
 - receiving up-to-date information on news and developments in the European water sector?
 - networking with other organisations and water professionals from all over Europe?
 - contributing to the technical and legislative work on the European level?

Commercial Membership at the EWA

Commercial Membership is open to European commercial companies, utilities and research organisations that operate in the European water sector.

There are two different membership categories with different benefits, **Sponsor Members** and **Corporate Members**.

Join today!

Become a Partner Member of the European Water Association

and profit from the various benefits!



Fax: +49 2242 872-135

I would like to know more about

Commercial Membership Sponsor Membership

I would like to apply* for

Commercial Membership Sponsor Membership

*(Please enclose a description of your company)

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European Water Association
Theodor-Heuss-Allee 17
53773 Hennef • Germany

Sender

Surname/First name

Firm/Authority

Street

Town/Country/Postcode

If applicable fill in DWA membership no.

Date/Signature

GLOBAL CAPABILITIES. LOCAL SOLUTIONS.

CST



CST. COMMITTED TO PROVIDING COMPLETE STORAGE SOLUTIONS WORLDWIDE.

CST is the only company that has the capability to manufacture and deliver storage tank and aluminum cover solutions around the globe. A dynamic combination of the world's leading coated steel tank and aluminum cover companies, CST is home to world class tank and cover brands including Aquastore,[®] HydroTec[®] by Columbian TecTank, Vulcan, Temcor and Conservatek.

CST has an unmatched 120 year legacy of constructing tanks and covers in over 125 countries. The resulting experience and

technical expertise enhances CST's ability to recommend the right tank and cover best suited for specific local applications.

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CST. The global leader for complete storage tank and cover solutions.

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CST

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Booth# A3 412