

ChemWater Partners

Eleven partners from academia, industry and water utilities will work together to make a success of ChemWater. They will develop a long-term strategy for a sustainable industrial use of water in close coordination with existing initiatives and projects. Have a look at who they are:

DECHEMA e.V -DEC, Germany -Project's Coordinator-

implementation in various fields of chemical engineering, including reaction engineering, catalysis, materials and process efficiency.

DECHEMA is a board member of the Sustainable Chemistry European Technology Platform (SusChem). DECHEMA hosts several secretariats of organizations in chemical engineering: European Federation of Chemical Engineering (EFCE) and its international equivalent (WCEC), the European Federation on Corrosion (EFC) and the German Catalysis Society (GECATS). DECHEMA is an active member of several European and national organizations, e.g. the European Federation of Catalysis Societies (EFCATS), its international equivalent (IACS) and the European Water Partnership (EWP).

ACHEMA is organized by DECHEMA: it is the world leading forum for process industry and the international trend-setting summit for Chemical Technology, Environmental Protection and Biotechnology. DECHEMA's activities are carried out by 190 employees.

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CEFIC - European Chemical Industry Council, Belgium

CEFIC is the Brussels-based organization representing the European chemical industry. CEFIC represents, directly or indirectly, about 29,000 large, medium and small chemical companies which employ about 1.3 million people and account for nearly a third of the world chemical production. CEFIC was incorporated in 1972 as an international association with scientific objectives.

CEFIC addresses key issues of global importance, such as: Competitiveness, Research & Innovation, High Level Group on Chemicals, EU Chemicals Policy, International Trade, Climate change & Energy, etc. CEFIC membership includes:

- European national federations and associate federations;
- Fifty major international chemical companies with operations in Europe;

- Sectoral businesses with a production base in Europe.

TNO - Netherlands Organization for Applied Scientific Research, The Netherlands

TNO is the largest fully independent nonprofit research organization in the Netherlands. TNO's public mission is to support industry and society in transforming knowledge into products and processes of economic and societal value.

TNO works for governments, the SME sector, large companies, service providers and non-governmental organisations.

Unit involved in ChemWater:

TNO's department for Water Treatment Technology is part of ChemWater. The department develops built environment and geosciences innovative water treatment technologies. Water treatment technologies are developed in cooperation with end users and technology suppliers. Consultancy in Industrial Water Management and water treatment is also offered by TNO.

TNO is a board member of the EU Water Supply and Sanitation Technology Platform (WSSTP) and is secretary of its Pilot Advisory group on 'Sustainable Water use in Industry'.

SUEZ ENVIRONNEMENT SA - SE, France

SUEZ ENVIRONNEMENT is a world leader company for water and waste management services. The company has 65,400 employees and a worldwide presence. SUEZ ENVIRONNEMENT and its subsidiaries are committed to the daily challenge of protecting resources and ecosystems. The company provides innovative solutions to millions of people and industries in the drinking water, wastewater treatment and waste management fields.

In the water sector, SUEZ ENVIRONNEMENT's operations include catchment, treatment and distribution of drinking water, collection and purification of domestic and industrial water, biological and energy development SUEZ ENVIRONNEMENT adapts its business lines and offers to emerging environmental issues. The company has implemented an improvement initiative based on four main priorities: conserve resources and promote the circular economy; Innovate to meet environmental challenges; Make employees sustainable development actors and Build development with all stakeholders.

SUEZ ENVIRONNEMENT has entered into large-scale partnerships with universities, technical and industrial organizations and is involved in many institutions and networks. SUEZ ENVIRONNEMENT is involved in the European Technology Platform for Water, WssTP.

EMH - European Membrane House a.i.s.b.l, Belgium

EMH is a non-profit-making international association set up in 2008 by universities and research institutes in 10 European countries. The European Membrane Society is also an EMH founding member.

EMH is dedicated to enhance the industrial implementation of membrane-based technologies. EMH also contributes to developing a coherent and structured European system for membrane research and technological innovation. This is achieved thanks to institutional lobbying and developing research and industry partnerships.

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VITO, Flemish Insitute for Technological Research NV, Belgium

VITO implements client-driven research projects and develops innovative products and processes. The multidisciplinary skills and technological know-how of more than 600 researchers make this organization a crossroads of technology, where state-of-the-art technologies are successfully blended into practical applications.

Unit involved in ChemWater:

Within the department of Industrial Innovation, the "Separation and Conversion technology" business unit addresses the following research topics :

- Process intensification

- Valorization of rest streams (including biomass)

- Water and energy

- Sustainability evaluation.

The unit's strategic research programme is built around sustainable chemistry, addressing current and future industrial needs. The unit has specific experience and an international reputation in the field of membrane technology, ranging from membrane development (ceramic and polymeric) to process design & control and application studies.

UCM, Complutense University of Madrid, Spain

UCM is a state university founded in 1499. It is the largest university in Spain with around 89,000 students.

Group involved in ChemWater:

The CPR group (CPRG) is part of the Chemical Engineering Department - Chemistry Faculty. It focuses on paper technology and water treatment technologies in industrial processes. Fifteen researchers (6 Professors, 5 senior researchers, 4 junior researchers) work in the group, both on fundamental and applied research. The fundamental research activities are devoted to the acquisition of new knowledge and the deep fundamental understanding of the phenomena taking place during production processes or in the operations involved in the treatment of industrial waters. The applied research activities of the group deal with using new knowledge to improve process efficiency and favour process developments.

CPRG has relevant experience in paper process optimisation, sustainable production (process yield, water saving, water treatments and energy saving), quality control as well as in education and training. The group carried out various activities for knowledge transfer between different industrial sectors - paper industry, water utilities, chemical, textile and steel sectors. CPRG is closely involved in the European Forestry Technology Platform, in the European Fibre and Paper Research Organisations-EFPRO and in the European Water Partnership-EWP. It collaborates with the EWP in the areas of sustainable water use, sustainable indicators, water footprint, and water and energy.

CU, Cranfield University, United Kingdom

Cranfield is an international centre of excellence specialising in technology, engineering, and natural resource management, with a strong emphasis on developing practical tools and skills for industrial and governance clients. Cranfield transforms knowledge into ingenious solutions in aerospace, automotive, defence, energy, environment, healthcare, management, manufacturing and security.

Cranfield is the largest post-graduate institution in Europe with 100% of students on Masters, Doctoral or Professional Development programmes.

Relevant core strengths are evident in water and wastewater treatment, process engineering, policy analysis, decision support tool design and evaluation, governance and regulatory science and policy.

ERIC, European Research Institute on Catalysis, Belgium

ERIC is a non-profit-making international association set up in 2008. It is a Virtual Institute springing from the IDECAT Network of Excellence. Its 13 founding members are the most prominent institutions in the field of catalysis in Europe.

ERIC is the leading competence centre in Europe and the reference-body for innovative research on nanotech-based catalytic materials. It offers a single reference point of expertise and know-how to Industry.

ERIC operates in the field of catalysis, from homogeneous to heterogeneous and bio-catalysis, and catalytic processes and technologies. Expertise covers aspects from synthesis and characterization, theory and modelling, catalytic testing, kinetics and catalytic reaction engineering. ERIC assists companies in the development of catalysts, from the discovery of new catalysts formulation to the optimization and scale-up. All members of ERIC have strong and consolidated experience in the development of industrial catalysts and catalytic processes, from refinery and clean energy, to fine chemistry and environment protection.

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ENMIX, European Nanoporous Materials Institute of Excellence, Belgium

ENMIX is a platform for research and advice in synthesis of porous materials, sorbents, membranes and catalysis. ENMIX arose from the INSIDE PORES Network of Excellence - Insitu Study and Development of Nanoporous Materials. ENMIX has 12 research groups as core members. They have expertise in the areas of preparation, characterization and industrial applications of nanoporous materials in the field of sorption, membranes and catalysis.

ENMIX offers:

- Innovative technological solutions,
- Unique scientific measuring expertise and facilities,
- Science-based advice and training, in view of stimulating sustainable development and strengthening the economic and societal fabric in Europe.

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VEOLIA ENVIRONNEMENT S.A., France

Veolia Environnement is a multinational French company with activities in 4 main service and utility areas: water supply and water management, waste management, energy and transport services. In 2009, Veolia employed around 300,000 employees in 77 countries.

Anjou Recherche, which is Veolia Environnement's water research center. It was created as an Economic Interest Group, in 1983 in France. Anjou Recherche's 215 employees develops tools to prevent and control water resource pollution, as well as to assist decision making for the efficient management for the entire water cycle. Anjou Recherche also develops innovative technologies for the treatment of drinking water, municipal and industrial waste water.

Anjou Recherche participates in several EC projects. Its researchers are members of the following associations: American Water Works Association, European Membrane Society, International Water Association, North American Membrane Society, International Ozone Association.

Veolia Environnement in brief: pdf presentation

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