

## **Donation from COWIfonden for research in water treatment at Aalborg University**

*COWIfonden has granted support to three research teams at Aalborg University for the purchase of new state-of-the-art equipment. The new equipment will improve process characterization and optimization in connection with water treatment and measurement of the water quality.*

The measurement of water particles is important to many disciplines within environmental and water technology in order to understand how microscopic particles and microorganisms behave when exposed to pollution and water treatment. The donation from COWIfonden will be used for purchasing a Multisizer Coulter Counter for use in connection with water-related research and development activities at the Department of Chemistry and Bioscience. The new equipment is a sophisticated particle meter capable of analysing very small particles in many different types of water. The analyses will offer precise information on the number of particles or microorganisms in a sample and their size and distribution. The technology is flexible and makes it possible to examine and optimize a vast range of biological and technical processes.

### **Both researchers, students and business associates will benefit from the equipment**

The new equipment will be an integral part of the research, development and teaching at the Section of Chemistry and the Section of Biology and Environmental Science at Aalborg University. Among other tasks, these sections focus on dewatering and separation of solutions, development of membranes for catalysis and water treatment and the fate of microorganisms and chemicals in water including their impact on the environment. The equipment will thus provide opportunities for further collaboration between Aalborg University and businesses with activities in the water sector. In addition, present and future students with biology, chemical engineering and environmental science as their fields of study will be offered the possibility to use the equipment in connection with their projects.

Assistant Professor Peter Roslev from the Department of Chemistry and Bioscience at Aalborg University is delighted at the many advantages of the new equipment. "By means of the equipment we can now analyse many different types of water and thus obtain detailed information about a number of new factors, which has not been possible before", he says. "For example, new projects involving removal and deactivation of bacteria as well as treatment of wastewater and drinking water by means of bio-, ultra- and microfiltration will be obvious fields of application for using the new equipment", Peter Roslev adds.

COWIfonden's donation to Aalborg University totals DKK 247,500. A corresponding investment from the Faculty of Engineering and Science at Aalborg University will supplement this donation.

### **More information:**

Associate professor Peter Roslev, Department of Chemistry and Bioscience at Aalborg University, e-mail: [pr@bio.aau.dk](mailto:pr@bio.aau.dk).