

Press release

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Carl Wagner Medal of Excellence in Electrochemical Engineering presented to Clément Trellu

The European Federation of Chemical Engineering (EFCE) and its Working Party on Electrochemical Engineering are pleased to announce that **Dr. Clément Trellu** is the winner of the Carl Wagner Medal of Excellence in Electrochemical Engineering. The award recognises his outstanding contributions to research and application of electrochemistry and electrochemical engineering for environmental applications, focussing on electrochemical advanced oxidation processes and electrochemical (bio)reactor engineering for the treatment of organic compounds in contaminated water and soils.



The Award jury of the EFCE Working Party on Electrochemical Engineering emphasized that despite his early career stage Dr. Trellu's has already built an exceptional scientific record, which includes more than 40 peer-reviewed publications in leading journals, and 3 book chapters. Furthermore, the jury underlined his commitment to education and training.

Clément Trellu holds the position of Associate Professor (Maître de Conférences HDR) at Université Gustave Eiffel, France, following his appointment as Assistant Professor at the same institution within the Laboratoire Géomatériaux et Environnement. Prior to joining Université Gustave Eiffel, he held postdoctoral positions at the University of Montpellier (European Membrane Institute) and Université Paul Sabatier, Toulouse (Laboratoire de Génie Chimique), and completed research stays during his doctoral training in Germany and Italy.

Dr. Trellu obtained his PhD in Environmental Science and Technology in 2016 through the Erasmus Mundus Joint Doctorate program, conducted across Université Paris-Est (France), the University of Cassino and Southern Lazio (Italy), and UNESCO-IHE (The Netherlands). His research focussed on anodic oxidation processes for the treatment of soil washing solutions containing hydrophobic pollutants. This work contributed to a better understanding of competing reaction pathways, enabling tailored treatment strategies depending on whether solution reuse or complete organic removal was targeted. His research has since expanded to include porous electrode materials, electrochemically reactive filtration, and electro-Fenton-based treatment strategies, with a strong focus on understanding reaction pathways, mass transport, and energy efficiency in real-world matrices such as landfill leachates and textile effluents.

His current work emphasizes the maturation and transfer of electrochemical wastewater treatment technologies, the role of electrode microstructure, and low-potential peroxide activation pathways aimed at improving efficiency while mitigating chloride oxidation.

Recommending him for the Award, Prof. Mehmet A. Oturan commended: "Dr. Clément Trellu combines exceptional scientific creativity, outstanding productivity, strong leadership in electrochemical engineering, and a clear capacity to translate fundamental advances into impactful technologies."

The Carl Wagner Medal of Excellence in Electrochemical Engineering consists of a dedicated medal, a cash prize and travel grant, and an invitation to attend the 14th European Symposium on Electrochemical Engineering (14th ESEE), where the award will be presented. The 14th ESEE will be held Glasgow, United Kingdom, on 8-11 June 2026.

The Award is generously sponsored by **CONDIAS**.



CONDIAS is the world leader in the production of large-area polycrystalline diamond coatings for various applications such as diamond electrodes or wear protection.

We see ourselves as a partner in the worldwide effort to improve water quality and to enable more efficient and environmentally friendly processes in industry. Our technology allows for an environmentally friendly process for the degradation of pollutants from water and for the disinfection of water systems, without the use of chemicals. Contributing to the preservation of our environment is our challenge at CONDIAS every day.

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EFCE Working Party on Electrochemical Engineering (https://efce.info/WP_EE.html)

Carl Wagner Medal of Electrochemical Engineering (https://efce.info/WP_EE.html#CarlWagnerMedal)

14th European Symposium on Electrochemical Engineering - 14th ESEE (<https://strath.eventsair.com/esee-2026/>)

Notes to media

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About chemical engineers

Chemical, biochemical and process engineering is the application of science, maths and economics to the process of turning raw materials into everyday products. Professional chemical engineers design, construct and manage process operations all over the world. Oil and gas, pharmaceuticals, food and drink, synthetic fibres and clean drinking water are just some of the products where chemical engineering plays a central role.

About EFCE

Founded in 1953, The European Federation of Chemical Engineering (EFCE) is a non-profit-making association, whose object is to promote co-operation in Europe between non-profit-making professional scientific and technical societies in 30 countries for the general advancement of chemical engineering and as a means of furthering the development of chemical engineering. See www.efce.org