



EFC-WCO workshop “Corrosion in Green & Low Carbon Energy Technologies”

In recent years, low carbon energy technologies have emerged as a strategic priority to reduce the global carbon footprint, decrease CO₂ emissions and improve air quality. This workshop will focus on corrosion issues in what are often called “sustainable”, “green” or “near-neutral carbon” technologies, including energy production (renewables, biofuels...) and energy conversion and storage (batteries, hydrogen, CO₂ storage...).

For instance, the developments of **hydrogen** use as well as the **geothermal energy** are linked to the selection of appropriate materials under severe corrosion and scaling conditions. **Near-shore and off-shore wind turbine** structures face seawater corrosion, while the production of **biofuels** from vegetable waste also faces new corrosion challenges to be solved. In **fuel cells, electrolyzers and batteries**, corrosion issues are mainly related to performance, lifetime and safety. For solar power, corrosion phenomena are also encountered both in **photovoltaic** and in **thermal solar technologies**. Even well-established technologies such as **hydroelectric power** require advances in the performance of new materials and more reliable lifetime prediction. The potential impact of microorganisms is also an area to be explored.

Following the successful initial workshop on corrosion in green and low carbon technologies at the virtual EUROCORR 2020 conference, it is intended to hold a similar event during EUROCORR 2021 - September 19-23, 2021 in Budapest, Hungary. The workshop will have some keynote lectures on corrosion in the new energy sector and provide the opportunity to learn and to exchange information on corrosion issues and mitigation strategies. Those interested in this vital transition to a green and low carbon future are asked to consider how they can contribute to this workshop and to submit their abstracts for the presentation or poster sessions.

Please submit your abstract online via www.eurocorr.org before January 19, 2021.

We are looking forward to your contribution and participation in EUROCORR 2021 “Materials science and advanced technologies for better corrosion protection” on September 19-23, 2021, in Budapest, Hungary.

Co-chairs of the EFC-WCO workshop co-organised also with the WP10, WP13 and WP15:
Steve Paterson* & Damien Féron**

*Chair of the EFC Taskforce for Corrosion in Green and Low Carbon Energy Technologies

**WCO President

Expected duration: 1 day

Expected audience: 100 attendees