



EFCO-WCO workshop

Corrosion in Low Carbon Energy Technologies

In recent years, low carbon energy technologies have emerged as a strategic priority to 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 development of geothermal energy is 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.

This workshop provides the opportunity to learn and to exchange information on corrosion issues and mitigation strategies in the new and developing fields of “green energy”.

During EUROCORR 2020 - September 6-10, 2020
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