Seminar Invitation

Integration of high temperature CO$_2$ sorbents systems in power and industrial plants for carbon capture and storage (CCS): opportunities and challenges

Presented by
Matteo Romano
Ph.D

Date: Thursday 5 May 2016
Time: 11.00 am – 12.00 pm
Venue: Lecture Theatre 1, J01 Chemical Engineering Building, School of Chemical & Biomolecular Engineering

Speaker Details:
A Matteo Romano is assistant professor of Systems for Energy and Environment at Politecnico di Milano since 2010. He is part of the Group of Energy Conversion Systems (GECOS, www.gecos.polimi.it/), which is one of the largest European academic groups in the energy field, active on a number of research topics: from renewables to carbon capture and storage, from hydrogen technologies and fuel cells to organic Rankine cycles.

Matteo is particularly active in the process integration and techno-economic analysis of novel technologies in power plants and industrial plants with CO$_2$ capture. He contributed to several projects funded by the European Commission and by companies in this field, assessing the process integration of several technologies (sorbents, membranes, solvents) in several types of plants (combined cycles, steam cycles, IGCCs, hydrogen plants, cement plants, integrated steel mills). Matteo is currently the scientific responsible at Politecnico di Milano for the EU projects Ascent (www.ascentproject.eu/) and Cemcap (www.sintef.no/projectweb/cemcap/) and represents Politecnico di Milano in the CCS Joint Programme of the European Energy Research Alliance (EERA, www.eera-set.eu).

Seminar Details:
In this seminar, the several options for integrating high temperature sorbent systems in power plants and energy intensive industries will be presented. The diverse opportunities and challenges of the application of these processes will be discussed from thermodynamic and technological perspectives.