



Dottorato in Processi Chimici per l'Industria e per l'Ambiente

PhD Course in Chemical Processes for the Industry and the Environment

Facoltà d'Ingegneria Civile e Industriale

Course Announcement

TOPICS IN CHEMICAL ENGINEERING, 4 CFU, 24 ore
(coord: prof. Maria Cristina Annesini)

**Facing the intermittency problem of renewable energies: a chemical
engineering perspective - Part 1**

Link Google Meet - <https://meet.google.com/dtb-hpxw-uik>



Date	Teacher	Subject
20 June 2023, 10 -11 (aula 4, SPV)	M.Moreno (ENEA)	Energy storage: the key stone of an efficient, resilient and sustainable energy system
20 June 2023, 11-13 (aula 4, SPV)	L.Turchetti (ENEA)	An overview of the approaches to thermal energy storage: case studies in the field of concentrating solar thermal technologies
20 June 2023,14-16 (aula 4, SPV)	M.C. Annesini (DICMA)	sensible thermal energy storage



Date	Teacher	Subject
21 June 2023, 10-12 (aula 48, SPV)	M.A. Murmura (DICMA)	Thermochemical energy storage: thermodynamics
21 June 2023, 12-13 (aula 48, SPV)	F. Bassetti (Magaldi Green Energy)	Fluidized bed thermal energy storage: an industrial experience of fluidized bed thermal energy storage technologies
21 June 2023, 14:30- 16:30 (aula 48, SPV)	M.A. Murmura (DICMA)	Thermochemical energy storage: single particle kinetic models
23 June 2023, 10-13 (aula 30, SPV)	M.A. Murmura (DICMA)	Thermochemical energy storage: fixed bed reactor model
23 June 2023, 14-15 (aula 30, SPV)	M.C. Annesini (DICMA)	Thermochemical energy storage:KPI and integration schemes

Facing the intermittency problem of renewable energies: a chemical engineering perspective - Part 2

Date	Teacher	Subject
12 July 2023, 9-12 (Dept. Chemistry, classroom to be defined)	A. Celeste (Dept. Chemistry)	Introduction to Electrochemical Energy Storage
13 July 2023, 9-12 (Dept. Chemistry, classroom to be defined)	A. Celeste (Dept. Chemistry)	Lithium- Ion Batteries and Electrochemical analysis
14 July 2023, 9-11 (Dept. Chemistry, classroom to be defined)	A. Celeste (Dept. Chemistry)	Fuel Cell and SuperCap
14 luglio 2023, 12-13 (Dept. Chemistry, classroom to be defined)	R. Bubbico (DICMA)	Safety Issues for Li-ion Batteries