



LECTURES SCHEDULE

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	MONDAY	SEPTEMBER 22, 2025 @ Cagliari Univ Engineering ar	versity, Faculty of nd Architecture
AFTERNOON	2 PM	Introduction to electrode reactions	Michele Mascia
	2:45 PM	Thermodynamics of electrochemical processes	Carlos Ponce de Leon
	3:45 PM	Kinetics of electrochemical reactions	Carlos Ponce de Leon
	4:30 PM	Mass transport in electrochemical systems	Karel Bouzek
	TUESDAY	SEPTEMBER 23, 2025 @ Cagliari Univ	versity, Faculty of nd Architecture
MORNING	9 AM	Electrode structures and current distributions	Karel Bouzek
	9:45 AM	Electrochemical reactor and components	Manuel Rodrigo
		(10:30 AM) COFFEE BREAK	
<u>Σ</u>	10:45 AM	Parallel plate reactors, set-up and operation	Michele Mascia
(11:30 AM	Poster presentation	
		1PM LUNCH BREAK	
AFTERNOON	2 PM	Membranes: divided/undivided cells, membranes, and separators.	Karel Bouzek
	2:45 PM	Reduction of carbon dioxide and co- electrolysis	Carlos Ponce de Leon
		3:30 PM COFFEE BREAK	
	3:45 PM	Environmental Electrochemical Engineering I: introduction and principles	Manuel Rodrigo
	4:30 PM	Advanced oxidation processes: applications, reactors and electrodes.	Manuel Rodrigo

	WEDNESDAY	SEPTEMBER 24, 2025 @ Cagliari Ui Engineering	niversity, Faculty of and Architecture
MORNING	9 AM	Batteries and capacitors	Claudia Weidlich
	9:45 AM	Fuel Cells	Davide Clematis
		(10:30 AM) COFFEE BREAK	
	10:45 AM	Electrolysis of water l: Low temperature electrolysis.	Karel Bouzek
	11:30 AM	Electrolysis of water II: High temperature electrolysis	Davide Clematis
		1PM LUNCH BREAK	
AFTERNOON	2 PM	Industrial electrochemistry	Claudia Weidlich
	2:45 PM	Photo-electrochemical processes: fundamentals and catalytic mechanisms	Annalisa Vacca
		3:30 PM COFFEE BREAK	
	3:45 PM	Bio-electrochemical processes I: fundamentals and mechanism of biocatalysis	Mirella Di Lorenzo
	4:30 PM	Bio-electrochemical processes: applications	Mirella Di Lorenzo
	THURSDAY	SEPTEMBER 25, 2025 @ Sotacarbo	Research Center
MORNING	9:30 AM	Hydrogen economy I: hydrogen in industry	Paula Mendoza
	10:30 AM	Hydrogen economy II: Hydrogen as energy carrier	Paula Mendoza
	11:30 AM	Hydrogen system engineering: integration of electrolysis in energy systems	Paula Mendoza
	FRIDAY	SEPTEMBER 26, 2025 @ Cagliari Ui Engineering	niversity, Faculty of and Architecture
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9 AM

9:45 AM

10:45 AM

MORNING

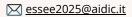


Modelling electrochemical processes: kinetics hydrodynamics and charge conservation

Modelling bioelectrochemical processes with FEM

Poster award and closing ceremony





Karel Bouzek

Michele Mascia