



UNIVERSITÀ
DI TRENTO

Department of
Industrial Engineering

Summer School

Multifunctional and Smart Coatings for corrosion protection

Frontal lectures + Laboratory activity

14-18 July 2025, Trento, Italy

Department of Industrial Engineering – [University of Trento](https://www.unitn.it)

[Via Sommarive n. 9 – 38121 Trento, Italy](https://www.unitn.it)



Preliminary program

Sunday 13th	All day	Arrival
Monday 14th	08.45 - 09.00	Welcome and week organization
	09.00 - 10.30	Conversion and sol-gel layers (Marjorie Olivier)
	10.30 - 11.00	Coffee break
	11.00 - 12.30	Organic coatings (Lorenzo Soldavini)
	12.30 - 13.00	Discussion with the speakers
	13.00 - 14.00	Lunch
	14.00 - 15.30	Localized electrochemical techniques (Juan José Santana Rodríguez)
	15.30 - 16.30	Poster session
	18.00 - 19.00	City tour
Tuesday 15th	09.00 - 10.30	Metallic coatings (Stefano Rossi)
	10.30 - 11.00	Coffee break
	11.00 - 12.30	Self-healing coatings (João Tedim)
	12.30 - 13.00	Discussion with the speakers
	13.00 - 14.00	Lunch
	14.00 - 17.00	Lab activity
Wednesday 16th	09.00 - 10.30	Electrochemical Impedance Spectroscopy (Mikhail Zheludkevich)
	10.30 - 11.00	Coffee break
	11.00 - 12.30	Anodizing and PEO coatings (Jesús Manuel Vega Vega)
	12.30 - 13.00	Discussion with the speakers
	13.00 - 14.00	Lunch
	14.00 - 17.00	Lab activity
	20.00 - 22.00	Social dinner at Forst Ristorante Birreria , Via Oss Mazzurana 38, Trento
Thursday 17th	09.00 - 10.30	Design of experiments in corrosion studies (Caterina Zanella)
	10.30 - 11.00	Coffee break
	11.00 - 12.30	DC techniques in corrosion studies (Andrea Brenna)
	12.30 - 13.00	Discussion with the speakers
	13.00 - 14.00	Lunch
	14.00 - 17.00	Lab activity
Friday 18th	09.00 - 10.30	Photocurrent spectroscopy (Francesco di Franco)
	10.30 - 11.00	Coffee break
	11.00 - 12.30	Electrochemical Noise (Francisco Rodriguez)
	12.30 - 13.00	Discussion with the speakers
	13.00 - 14.00	Lunch
	14.00 - 16.00	Group presentation / round table



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Lecturers

Lorenzo Soldavini, PPG (Italy)

Marjorie Olivier, University of Mons (Belgium)

Jesús Manuel Vega Vega, Universidad Complutense de Madrid (Spain)

Mikhail Zheludkevich, Helmholtz-Zentrum Hereon & Kiel University (Germany)

João Tedim, University of Aveiro (Portugal)

Francisco Javier Rodriguez Gomez, Universidad Nacional Autónoma de México (Mexico)

Juan José Santana Rodríguez, Universidad de Las Palmas de Gran Canaria (Spain)

Andrea Brenna, Politecnico di Milano (Italy)

Francesco di Franco, Università di Palermo (Italy)

Stefano Rossi, University of Trento (Italy)

Caterina Zanella, University of Trento (Italy)

Michele Fedel, University of Trento (Italy)