



PhD Programme in Chemical and Materials Sciences

PhD Days 2024

February 19th-20th 2024

Department of Chemistry - Aula Magna | Via P. Giuria 7, 10125 Torino

The students of the XXXVII Cycle PON D.M. 1061 of the PhD Programme in Chemistry and Materials Sciences present their research activities.



Programme



February 19th 09:00-11:00 | PhD Presentations – Session #01

Time		Name	Title
09:00	09:30	Ferrero Riccardo	Development of an eco-friendly Drug Delivery System cyclodextrin-based, accompanied by a descriptive computational model
09:30	10:00	Depetris Rosamarie	Eco-Sustainable friction materials for electric mobility: improvement of tribological properties and sustainability guided by Life Cycle Assessment
10:00	10:30	Castellino Lorenzo	Development of models for process control and other IT tools for chemical research
10:30	11:00	Sarotto Elio	Carbon-based polymers nanocomposite conductive materials for integrated metal-free cabling and sensing in automotive
11:00	11:30	Coffee break	

February 19th 11:30-13:00 | Tavola Rotonda

Rapporto Dottorato-Industria: Opportunità e Prospettive

Il dottorato di ricerca è l'ultimo e più alto grado di formazione universitaria previsto nell'ordinamento italiano. Negli ultimi anni il dottorato di ricerca in Italia ha visto una grande crescita dovuta al PNRR e alla creazione dei dottorati Nazionali. Questo ha favorito l'interazione tra università e industria per lo sviluppo di progetti di ricerca in collaborazione, ma ha anche sollevato domande su opportunità e prospettive dei dottori di ricerca oltre l'accademia.

La tavola rotonda vuole stimolare il confronto di esperienze tra le aziende e il mondo accademico sulla figura del dottore di ricerca. Discuteremo su: quale è il ruolo dei dottorandi in industria? quale contributo di conoscenza e innovazione può portare il dottore di ricerca? Ma anche di

trasferimento tecnologico e fare impresa.			
11:30 – 11:45 - Saluti Istituzionali			
Prof.ssa Eleonora Bonifacio (Direttrice della Scuola di Dottorato dell'Università di Torino)			
Prof.ssa Cristina Prandi (Vice-rettrice alla ricerca, Università di Torino)			
11:45 – 12:10 – Interventi Aziendali			
Dott. Sin Agusti (Materials & Process Innovation Director, ITT - Friction Technologies)			
Dott.ssa Federica Morra (Human Resources Specialist, Marturfompak Italy)			
Ing. Vito Lambertini (Materials Innovation Manager, Stellantis SpA)			
Dott. Giorgio Lesage (Innovation and Sustainability Director, Mondo SpA)			
12:10 – 12:20 – Fare impresa			
Dott. Giuseppe Serrao (Direttore Incubatore 2i3T, Università di Torino)			
12:20 – 13:00 – Discussione plenaria			
13:00	14:00	Light Lunch	

February 19th 14:00-18:00 | PhD Presentations – Session #02

Time		Name	Title
14:00	14:30	Di Matteo Pietro	Eco-materials for environmentally friendly applications
14:30	15:00	Testa Valentina	Ion-imprinted polymers as a sustainable strategy for the efficient recovery of lithium ions from dilute solutions
15:00	15:30	Ferraro Simone	Secondary aluminium alloys and innovative metallurgical processes for sustainable automotive applications
15:30	16:00	Guiotto Virginia	Development and advanced characterization of new composite materials for CO ₂ separation
16:00	16:30	Coffee break	
16:30	17:00	Diana Aleandro	Low environmental impact braking systems for future mobility
17:00	17:30	De Nardi Federica	Review of synthetic APIs processes in a sustainable key: green solvents and biocatalysis
17:30	18:00	Mazzucco Asya	Complex Hydrides as Solid-State Electrolytes

February 20th 14:00-18:00 | PhD Presentations – Session #03

Time		Name	Title
14:00	14:30	Saltao Vasco (ITN-CHASS)	Modeling hydrothermal aging and sulfur poisoning in the NH ₃ -SCR reaction via characterization techniques and catalytic testing
14:30	15:00	Vietti Micheline Sandra	Bioanalytical characterization of emergent water pollutant transformation products in mutant KRAS lung adenocarcinoma
15:00	15:30	Cioci Alma	Metal porphyrinate-based crystalline materials with properties of non-linear optics for the development of sensors and smart materials for optoelectronics
15:30	16:00	Amine Nour-Hanne	Advanced heavy metals detection through electrochemical sensing
		Coffee break	
16:30	17:00	Abasabadi Reza K. (ITN-CHASS)	Characterization and testing of SO ₂ poisoning effect on Cu-CHA zeolites
17:00	17:30	Barbero Alice	Electrochemical Reduction of Carbon Dioxide with Organometallic Catalyst for Industrial Application
17:30	18:00	Tayyaba Noor	Innovative strategies for the engineering of sensors for sustainable food system



To those who cannot attend in person, the PhD Days will be also available remotely through Webex at:

<https://unito.webex.com/meet/bartolomeo.civalleri>