

INTERACTIVE SEMINARS CALENDAR ACADEMIC YEAR 2023-2024

Interactive seminars are intended to provide students an overview on relevant case studies on application of circular economy principles to a real industrial environment or economic/financial context. They will involve highly-qualified, external speakers who will be presenting a case study focussing on circular economy in an interactive way and fostering students' questions and participation. .

To join the online Interactive seminars (10 am - 11.30 am) please use the following **Zoom** link <https://unipd.zoom.us/j/87402558745>. Although attendance is not mandatory, participation is strongly recommended to further integrate lectures.

<i>Speaker</i>	Antonio Nardella
<i>Company name</i>	Danieli & C. Off. Mecc. SpA
<i>Role within the company</i>	Senior Process Manager
<i>Speaker's background</i>	Chemical Engineering - Water Treatment Plants
<i>Description of the case study / topic presented</i>	Zero Liquid Discharge applied in Steel sector: how to achieve an optimal management of the water cycle by reducing or even zeroing primary water needs through the reuse of treated wastewater
<i>Title</i>	Water Treatment Plants
<i>Date</i>	November 10, 2023

<i>Speaker</i>	Antonia Loibl
<i>Institution name</i>	Fraunhofer ISI
<i>Role within the company</i>	Senior Researcher and Project Leader
<i>Speaker's background</i>	Former chemist, now researcher in industrial ecology: modelling and quantification of raw material cycles on global and regional level for sustainability assessment and analysis of unused circularity potentials. Planning, managing, doing of research projects for industry and government institutions; consulting around policy making
<i>Description of the case study / topic presented</i>	Report from our research on trying to put together the bigger picture of raw material

	use in the context of our current Circular Economy debate.
Title	Understanding and quantifying raw material cycles on global scale
Date	December 15, 2023

<i>Speaker</i>	Vanni Parenti
<i>Company name</i>	Rohm and Haas Italia s.r.l. The Dow Chemical Company
<i>Role within the company</i>	Senior R&D Manager
<i>Speaker's background</i>	Chemist, Polyurethane, thermal insulation expert, Sustainability leader within Polyurethane R&D
<i>Description of the case study / topic presented</i>	Through innovation and collaboration, the RENUVA™ Mattress Project helps facilitating a transition to a circular economy, where used mattresses generate recycled technology to create new high-value products to be reused in the same industry value chain
Title	The RENUVA™ Mattresses Recycling Program: turning polyurethane waste into value
Date	January 12, 2024

<i>Speaker</i>	Carlo Alberto Zaggia
<i>Company name</i>	GualaPack S.p. A.
<i>Role within the company</i>	General Manager EMEA
<i>Speaker's background</i>	General Manager, Industrial Director, Innovation and R&D Director in various packaging multinationals.
<i>Description of the case study / topic presented</i>	A case study on how packaging industry has change the product portfolio to fulfil Brand Owners demand for sustainable packaging, anticipating the Packaging and Packaging Waste Regulation. Pouch5 has been the first pouch introduced in the market for prepared baby food, fully based on polypropylene, with high barrier to oxygen and moisture, suitable hot filling and post thermal treatment for extended shelf-



	life food recipes. Pouch5 has been certified in most of the European countries as recyclable packaging.
Title	Pouch5: the first PP based high barrier recyclable packaging for prepared baby food.
Date	January 19, 2024

<i>Speaker</i>	Michele Andolfo
<i>Company name</i>	Artigo SPA
<i>Role within the company</i>	Chief Operating Officer
<i>Speaker's background</i>	Industrial chemist, Hybrid material, Polyurethane, Rubber, R&D management, company management, European project Expert, Sustainable leader
<i>Description of the case study / topic presented</i>	A pragmatic approach to ecodesign in polymer product development is vital. It balances sustainability with practicality, considering cost, functionality, and marketability. This approach entails eco-friendly material choices, optimized designs, comprehensive lifecycle assessments, circular economy principles, and consumer education. By adopting such an approach, businesses can reduce their environmental impact while enhancing their brand reputation and meeting regulatory and consumer demands for sustainability.
Title	Ecodesign of Industrial products, a pragmatic approach
Date	February 9, 2024

<i>Speaker</i>	Mario Schönfeldt
<i>Company name</i>	Fraunhofer IWKS
<i>Role within the company</i>	Project manager
<i>Speaker's background</i>	Material Scientist in magnetic materials department
<i>Description of the case study / topic presented</i>	In this module we will focus on the recycling concepts for permanent magnets which are



	used in many key technologies like e-mobility or renewable energies. As a case study the multiple functional recycling of Nd-Fe-B permanent magnets and the effect on different material properties will be discussed with the students.
Title	Recycling concepts for rare earth permanent magnets
Date	March 8, 2024

<i>Speaker</i>	Enrico Costanzo
<i>Company name</i>	Cereal Docks S.p.A.
<i>Role within the company</i>	Group Innovation Manager
<i>Speaker's background</i>	Biotechnology and Plant Biology/Genetics, Business Administration, Technical Gases, Food Technology and Innovation models
<i>Description of the case study / topic presented</i>	The talk will focus on innovation applied to established agroindustrial processes: Circular economy as an opportunity to develop new ingredients from byproducts, increasing value and shortening the "protein travel" from farm to fork.
Title	From byproduct to ingredient: A circular economy approach to food proteins from agroindustrial processes
Date	April 12, 2024

<i>Speaker</i>	Carlo Perego
<i>Company name</i>	Eni Spa
<i>Role within the company</i>	Formerly Senior Vice President (now retired)
<i>Speaker's background</i>	Former Senior Vice President of Eni S.p.A for Corporate R&D in the field of energy transition and renewable energies
<i>Description of the case study / topic presented</i>	The transport sector alone contributes over 21% of total CO2 emissions of the world. Hence replacing traditional fuels produced from oil, with biofuels, can help to fight the climate change. The biofuels currently



	available, are almost exclusively produced from raw materials competing with the food sector. For this reason, new legislation has evolved by promoting the introduction of advanced biofuels, produced from waste biomass, according to a circular economy approach. The presentation will illustrate the most salient aspects of this industrial sector.
Title	Fuel from waste for a Sustainable Mobility
Date	May 10, 2024

Speaker	Elena Ferrari
Company name	Consorzio Recupero Vetro
Role within the company	President
Speaker's background	Glass recycling and glass circular economy in Italy
Description of the case study / topic presented	TBD
Title	Glass recycling in Italy
Date	June 7, 2024 TO BE CONFIRMED