

# Advances in Sustainable Bio- and Nano- Materials and Technologies

Lake Como School of Advanced Studies, June 27- July 1, 2022

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## Home



The 2030 agenda sustainable development goals (SDG) focus on preserving and improving the health of our planet and all its peoples. Nanoscience and technology have enabled a shift towards a sustainable paradigm in the design and fabrication of nanomaterials and smart nanodevices. With the world's population growth and rapid technological innovations, the demand for novel solutions from energy to imaging and healthcare is pushing worldwide attention to immediate actions for ensuring a sustainable life. Research in smart materials, and development of radically new technologies are strategic to feed and sustain our development. In particular, sustainable economy and society strives for the smart integration of any new technological innovations into everyday life, including buildings, cars, offices, cities. Optoelectronics, bioengineering and additive manufacturing are key players to sustain this challenge, capitalizing on the development of new generation low-cost materials, integrated devices as well as on the immense potential of the application of related new physical phenomena into breakthrough technologies. Specifically, we seek to put together a transversal program discussing current challenges in developing, validating, and implementing innovative solutions in areas such as energy supply, air and water pollution, biology and bio-engineering, and application of additive manufacturing, with a special focus on research -to market innovation. Frontiers research approaches will be discussed by experts in the field with the ultimate goal to provide to the students a comprehensive set of cross-disciplines knowledge and tools to stimulate their curiosity, engage them into the sustainability challenges, offering a wide vision which is now utmost to address future scientific and technological challenges.





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## Invited Speakers

**Maria Rosa Antognazza** – IIT

**Ferdinando Auricchio** – UNIPV

**Giovanni Brianza** – CEO Edison NEXT

**Marco Carvelli** – Head of Product Innovation and Scale-Up EDISON NEXT

**Stefano Denicolai** – UNIPV

**Angelo Fienga** – CISCO, EMEAR

**Christopher Ireland**, Co-Founder and Chief Scientific Officer · DePoly (Sion, Switzerland)

**Giulia Mancini** – UNIPV

**Francesco Matteucci** – EIC Program Manager

**Jaime Nack** – Founder and President of Three Squares Inc

**Francesco Pasqualini** – UNIPV

**Alessandro Reali** – UNIPV

**Marie Violay** – EPFL

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## Program

	27th June		28th June	29th June	30th June	1st July
9:30-11:00	Arrivals	9:30-11:00	<i>Transition from Research to Innovation: an European perspective</i> Francesco Matteucci Coffee Break	<i>Sustainability in Biotechnology</i> Francesco Pasqualini Coffee Break	<i>Start up and Innovation (Part 1)</i> Stefano Denicolai Coffee Break	Departures
11:30-13:00			<i>Innovations in Sustainability</i> Angelo Fienga	<i>New Trends in Smart Bioengineering</i> Maria Rosa Antognazza	<i>Start up and Innovation (Part 2)</i> Stefano Denicolai	
13:00		Lunch	13:00			
14:30 - 15:00	Welcome + Round Table The Organizers: Giulia Grancini & Matteo Alvaro	14:30 -16	<i>Rethink, ReCycling: Simple Sustainable PET Recycling</i> Christopher Ireland	<i>The Power of 3D Printing</i> Ferdinando Auricchio	Social Activity	
15.00 - 15.30	<i>The sustainability Challenge: a Global Perspective</i> Jaime Nack		Coffee Break	Coffee Break		
15:30-15:45	Coffee Break	16-17:30	<i>Mechanical behavior of deep geothermal reservoirs.</i> Marie Violay	<i>The opportunities offered by advanced numerical simulation</i> Alessandro Reali		
15:45- 16.30	<i>Sustainability in Energy: innovation and business</i> Giovanni Brianza					
16:45- 1730	<i>Energy Trends for a Sustainable Economy</i> Marco Carvelli			Special Session on Tips & Tricks: How to write a successful European Project Giulia Mancini		

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## Topics

- The current sustainability challenges: global perspectives
- Revolutionary approaches for Science to Market Innovation: the case of Energy
- Integrating and Exporting Science to Innovation: the case of the European Innovation Council
- Breakthrough Technologies for water and energy saving.
- Deeper look into the Earth surface: lessons learned for a sustainable future.
- New bio-technology for a sustainable life
- Additive Manufacturing and Theory behind: new smart methods to push sustainable solutions
- From Science to Business Model: Start-up and Innovation
- Appendix: How to write a successful European Project: tips from the Experts