

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

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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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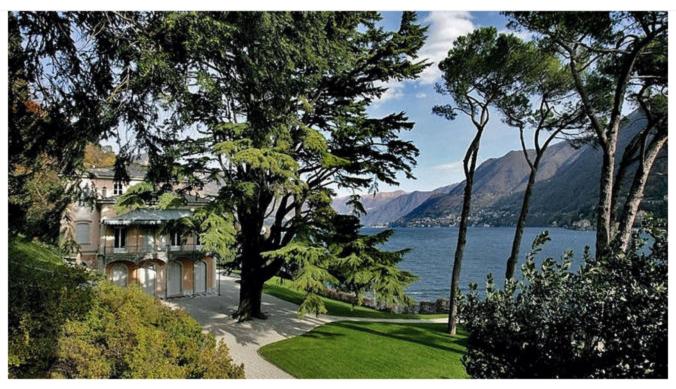
Program

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