



2025 GIORNATE SCIENTIFICHE

SESSIONE ORALE

CNR | DSCTM

During the conference there will be an exhibition of spin-off, scientific and educational software and games created by DSCTM researchers and technologists.

Day 1 - martedì 21 ottobre 2025 - AULA CONVEGNI

Time	Name	Title	Topic	Inst.	Min.
10:30	Registration				
12:30	Welcome light lunch				
13:15	Opening and Introduction President CNR - Andrea LENZI, Director of DSCTM - Lidia ARMELAO				15
CHAIR: Lidièffa Giorno, Michele Saviano					
13:30	DAVIDE ALTAMURA	Multiscale characterization of Nano/Biomaterials by Synchrotron-class Laboratory X-ray Microsources	Advanced Materials	IC	15
13:45	EMANUELA SARACINO	Advanced Materials and 3D Technology Bridging Basic and Applied Research	Life Science	ISOF	15
14:00	ADOLFO IULIANELLI	Membrane engineering in the H2 strategy: from carbon capture to electrification	Energy	ITM	15
14:15	ANNA COSTA	Nano In Micro Technologies as Practical Tools For SSbD Implementation	Green Chemistry	ISSMC	15
14:30	FEDERICA RIZZI	Designing the Future of Diagnostics and Therapy: Synthetic and Physiological Approaches	Life Science	IPCF	15
14:45	LIBERA VITIELLO	Enhancing biopolymer performance for sustainable applications: hybridization, recyclability, and degradability	Advanced Materials	IPCB	15
CHAIR: Vincenzo Buscaglia, Filippo Bossola					
15:00	SIMONE BONATI	Highly deformable metal structure fabricated through laser powder bed fusion	Advanced Materials	ICMATE	15
15:15	FRANCESCA ROSI	Unveiling the fate of plastic materials in Cultural Heritage: A new perspective	Cultural Heritage	SCITEC	15
15:30	JESSICA GROPPPI	Developing Molecular Devices and Materials with Photoactive Compounds	Energy	ISOF	15
15:45	MARCO FALZETTI	<i>Director of APRE - Agency for the Promotion of European Research "Towards FP10"</i>	- INVITED -		45
16:30	Coffee break				30

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CHAIR: Silvia Borsacchi, Roberto Comparelli					
TD PNRR - 5 min each					30
17:00 (Flash)	GIUSEPPE CESARE LAMA	Sustainability of Custom-Made Composite Polyurethane Foams for Cultural Heritage Preservation	Cultural heritage	IPCB	5
	CARLO NAZARENO DIBENEDETTO	Beyond Nano Building Blocks: 3D Self-Assembled Perovskite and Quantum Dot Supercrystals	Advanced Materials	IPCF	5
	FRANCESCA FEDELE	Phase Seeding: a method for AI-assisted crystal structure determination	Advanced Materials	IC	5
	ANNA PIRAS	Development of QM-derived force fields for the simulation of molecules adsorbed in porous materials	Advanced Materials	ICCOM	5
	SERENA REGINA	Tailoring the Structural Properties of Hydrophilic Polyvinylidene Fluoride/Alkali Lignin Blended Membranes	Advanced Materials	ITM	5
	SERGIO SAPIENZA	Post-Impact Collision Detection on a Collaborative Robot by Fast Strain Measurements	Advanced Materials	ISMN	5
17:30	MARTA MARIA NATILE	Towards a More Sustainable and Circular Production of Hydrogen	Energy	ICMATE	15
17:45	TOMMASO MECCA	Functionalized Cryogel for Environmental Chemistry and Applications	Green Chemistry	ICB	15
18:00	LEONARDA FRANCESCA LIOTTA	Hydrogen and e-fuels synthesis by CO ₂ as feedstock: opportunities and challenges	Energy	ISMN	15
18:15	FIorenza FANELLI	Atmospheric pressure plasma surface engineering for environmental applications and catalysis	Advanced Materials	ICCOM	15
18:30	FRANCESCA BOCCACCINI	Sustainable advanced materials for cultural heritage conservation: from design to museum applications	Cultural Heritage	ISMN	15
18:45	End of day				
19:00	GIUNTA DSCTM				60



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Day 2 - mercoledì 22 ottobre 2025

Session A		GREEN CHEMISTRY, ENERGY MODELLING, CULTURAL HERITAGE	CONFERENCE ROOM 215 1st floor		
Time	Name	Title	Topic	Inst.	Min.
CHAIR: Pietro Spanu, Andrea Scamporrino					
08:30	ILARIA CITRO	Advancing Dye-Sensitized Solar Cells: Utilizing Carbon Dots to Optimize Photoelectrode Sensitization and Increase PhotoelectroChemical Efficiency	Energy	IPCF	15
08:45	CARMELO DRAGO	Chemical Conversion of Waste Oils and Fats into Sustainable Biofuels	Green Chemistry	ICB	15
09:00	STEFANO LEGNAIOLI	Welcome to the (Chemical) Jungle: TLC-SERS for Unravelling Synthetic Dye Mixtures from the 1950s	Cultural Heritage	ICCOM	15
09:15	NICOLA COMISSO	Oxidation of Ethylene Glycol in Alkaline Media on Palladium-Rhodium Electrodes	Energy	ICMATE	15
09:30	ROSSELLA LABARILE	Photobiological Hydrogen Production by Rhodobacter: Toward Sustainable Energy Solutions	Green Chemistry	IPCF	15
09:45	FILIPPO AGRESTI	Composite materials for energy efficiency and thermal storage in buildings	Energy	ICMATE	15
10:00	FRANCESCA SERVADEI	Co-valorisation of construction and demolition waste and basalt powder: improving sustainability in geopolymer materials	Green Chemistry	ISSMC	15
10:15	Coffee break and poster session				30
CHAIR: Michele Dondi, Pierluigi Barbaro					
10:45	ENRICO FASTELLI	HSE & Facility Director, Racing Bulls "Improving performance in a sustainable way: towards a net-zero production process for a F1 racing car"	- INVITED - "AULA CONVEGNI"		45
11:30	ANDREA FERRAZZI	Head of Institutional Relations, Italian Alliance for Sustainable Development (ASviS) "Competitiveness and sustainability: the false dilemma"	- INVITED - "AULA CONVEGNI"		45
12:15	Lunch and poster session				60
13:15	Photo All participants meet in the main hall for the group photo				15

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Time	Name	Title	Topic	Inst.	Min.
CHAIR: Simona Bronco, Massimiliano Cavallini					
13:30	CLAUDIO EVANGELISTI	Supported mono- and bimetallic catalysts for hydrogen production by reforming processes	Energy	ICCOM	15
13:45	DANIELE MEGGIOLARO	Towards stable and efficient perovskite solar cells: a computational perspective	Modelling	SCITEC	15
14:00	NICOLA SANGIORGI	New multifunctional materials and approaches for solar supercapacitors	Energy	ISSMC	15
14:15	DARIO GIUFFRIDA	Sustainable SERS sensing for non-invasive Cultural Heritage diagnostics	Cultural Heritage	IPCF	15
14:30	SIMONE QUARANTA	Mining tailings for energy and environmental applications	Energy	ISMN	15
14:45	MARIA CAPORALI	Application of 2D black phosphorus in solar-driven hydrogen production	Energy	ICCOM	15
15:00	IVAN BASSANINI	Sustainable by Design: (Chemo)Enzymatic Pathways to APIs and Bioactive Small Molecules	Green Chemistry	SCITEC	15
15:15	TERESA POERIO	Micro- and Nano-plastics in Water: Monitoring and Treatment via Membrane Technologies	Green Chemistry	ITM	15
15:30	GIOVANNA LI PETRI	Cytrocell: a new high performing nanocellulose from Citrus	Green Chemistry	ISMN	15
15:45	<i>Coffee break</i> and poster session				30
CHAIR: Francesca Rosi, Giuliana d'Ippolito					
16:15	ELENA TOCCI	Membrane Engineering in the Era of Machine Learning	Modelling	ITM	15
16:30	LUCIA RICCI	Degradation of (Bio)plastics in real vs simulated marine conditions: an experimental approach	Green Chemistry	IPCF	15
16:45	ANDREA MARCHIONNI	Lithium recovery for sustainable Lithium-Ion Batteries	Energy	ICCOM	15

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Time	Name	Title	Topic	Inst.	Min.
17:00	BARBARA VERCELLI	Non-covalent Functionalization of Carbon Quantum Dots: A Spectroscopic and Electrochemical Study	Green Chemistry	ICMATE	15
17:15	FILIPPO BOSSOLA	Challenges and strategies to enhance the performances of nanostructured heterogeneous catalysts for the sustainable hydrogen production	Energy	SCITEC	15
17:30	SERGIO ARGENTO	Agrochemical Inputs Reduction in Horticulture to Enhance the Quality of the Agri-food Supply Chain	Green Chemistry	ICB	15
17:45	MARCO AGNES	Cyclodextrin-based materials as multi-purpose supramolecular platforms	Green Chemistry	ISOF	15
18:00	DANIEL FORRER	Computational modelling of electrochemical reduction at metal porphyrin - modified electrodes	Modelling	ICMATE	15
18:15	ANNAROSA GUGLIUZZA	Engineered membranes for preventive conservation	Cultural Heritage	ITM	15
18:30	SARA MASSARDO	Stability and sustainability in perovskites air-electrodes for solid oxides cells	Energy	ICMATE	15
18:45	End of day				
20:30	Social Dinner <i>Palazzo Gnudi Bologna</i>				

Day 2 – mercoledì 22 ottobre 2025

Session B		ADVANCED MATERIALS LIFE SCIENCES	AULA CONVEGNI		
Time	Name	Title	Topic	Inst.	Min.
CHAIR: Barbara Biondi, Loredana De Bartolo					
08:30	CRISTINA D'ARRIGO	Extracellular vesicles as a platform for the detection and treatment of neurodegenerative diseases	Life Sciences	SCITEC	15

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Day 2 – mercoledì 22 ottobre 2025

Session B		ADVANCED MATERIALS LIFE SCIENCES	AULA CONVEGNI		
Time	Name	Title	Topic	Inst.	Min.
08:45	STEFANO TOFFANIN	Advanced Organic Optoelectronics: from biosensing to neuromorphic applications"	Advanced Materials	ISMN	15
09:00	FABIO IANNOTTI	Integration of chemical and biomolecular strategies to decipher the role of natural and endogenous small molecules in rare diseases	Life Sciences	ICB	15
09:15	ANTONINO MAZZAGLIA	Supramolecular Nanomaterials based on Carbohydrates: from Self-Assembly to Smart Bio-Devices	Advanced Materials	ISMN	15
09:30	GIUSEPPINA SABATINO	Peptides as versatile tool for the surface functionalization of materials: graphene nanoparticles and high-entropy alloy	Life Sciences	IC	15
09:45	ELISA MARTELLA	A multimodal nano-based approach for cancer therapy: tumor microenvironment remodelling by photodynamic and immuno-therapies	Life Sciences	ISOF	15
10:00	MARIA ROSARIA RICCIARDI	Manufacturing of Composites Materials Casein - based. New frontiers for sustainability	Advanced Materials	IPCB	15
10:15	<i>Coffee break</i> and poster session				30
CHAIR: Michele Dondi, Pierluigi Barbaro					
10:45	ENRICO FASTELLI	<i>HSE & Facility Director, Racing Bulls</i> "Improving performance in a sustainable way: towards a net-zero production process for a F1 racing car"	- INVITED - "AULA CONVEGNI"		45
11:30	ANDREA FERRAZZI	<i>Head of Institutional Relations, Italian Alliance for Sustainable Development (ASviS)</i> "Competitiveness and sustainability: the false dilemma"	- INVITED - "AULA CONVEGNI"		45
12:15	<i>Lunch</i> and poster session				60
13:15	Photo All participants meet in the main hall for the group photo				15
CHAIR: Valentina Benfenati, Alberto Cassetta					
13:30	ANTONIO VINCI	Recent advances on Ultra-high Temperature Ceramic Matrix Composites	Advanced Materials	ISSMC	15

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Time	Name	Title	Topic	Inst.	Min.
13:45	ANNA SANSONE	Capsaicin, Oleic Acid, and their combined treatment Differentially Modulate Lipidome profile and Cytokine Levels in HepG2 Cells	Life Sciences	ISOF	15
14:00	STEFANO ZAMPOLLI	Chemical sensors based on MEMS devices - on the boundary between chemistry, physics and engineering	Advanced Materials	ISMN	15
14:15	DANIELA AROSIO	Design and synthesis of a second generation of triazine-based PD-L1 inhibitors and dual action conjugates	Life Sciences	SCITEC	15
14:30	MIRKO FRAPPA	Eco-sustainable membrane preparation for improved MD/MCr processes	Advanced Materials	ITM	15
14:45	SONIA COVACEUSZACH	Targeting Siderophore-Mediated Iron Uptake in <i>M. abscessus</i> : A New Strategy to Limit the Virulence of Non-Tuberculous Mycobacteria	Life Sciences	IC	15
15:00	CHIARA MOLINARI	Innovation from mining residues: sustainable building materials and jewellery	Advanced Materials	ISSMC	15
15:15	CLAUDIA FERRONI	Oxygenation, reprogramming and stem cell targeting: A therapeutic triad against triple negative breast cancer - NANOALLIANCE	Life Sciences	ISOF	15
15:30	ANDREA ROSSIN	Metal-Organic Frameworks as versatile materials for wastewater treatment and greenhouse gas mixtures adsorption-separation	Advanced Materials	ICCOM	15
15:45	<i>Coffee break</i> and poster session				30
CHAIR: Silvia Panseri, Gabriella Di Carlo					
16:15	ALESSANDRA SCIDÀ	Laser-scribing of biodegradable poly (lactic acid)/graphene oxide composites for sustainable electrochemical sensors	Advanced Materials	ISOF	15
16:30	ANNA MARIANO	Engineered osteoinductive biohydrogels for bone regeneration	Life Sciences	IPCB	15
16:45	CLAUDIA HONISCH	Oriented Synchrotron Radiation Circular Dichroism of bioactive peptides in model membranes	Life Sciences	ICB	15
17:00	MASSIMILIANO LABARDI	Electrical modes of the AFM: measurement of dielectric and piezoelectric properties of surfaces on the local scale	Advanced Materials	IPCF	15

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Time	Name	Title	Topic	Inst.	Min.
17:15	GIOVANNI DAL POGGETTO	GPC Beyond Molecular Weight: A Look Inside the Architecture of Functional Polymers	Advanced Materials	IPCB	15
17:30	ILARIA SILVESTRI	Structural basis of selectivity in small molecules targeting galectin active site	Life Sciences	IC	15
17:45	MARIANNA PANNICO	Multifunctional Polydiacetylene Gold Colloids for Theranostic Applications	Life Sciences	IPCB	15
18:00	FEDERICO PUPILLI	Mg-hydroxyapatite nanoroads a new tool to improve intracellular bio-molecule delivery	Life Sciences	ISSMC	15
18:15	FRANCESCO ATTANASIO	Pleiotropic features of Semax, a Synthetic Regulatory ACTH-like Peptide, and its potential pharmaceutical applications	Life Sciences	IC	15
18:30	PAOLA PELUSO	Separation of Deuterated Isotopologues and Isotopomers of Amphetamine and Methamphetamine by liquid-phase chromatography	Life Sciences	ICB	15
18:45	End of day				
20:30	Social Dinner Palazzo Gnudi Bologna				

Day 3 – giovedì 23 ottobre 2025 – AULA CONVEGNI

Time	Name	Title	Topic	Inst.	Min.
CHAIR: Simona Barison, Angela Gondolini					
TD PNRR– 5min each					30
09:00 (Flash)	VASILIKI BENEKOU	Advanced Scanning Probe Microscopy for 2D materials	Advanced Materials	ISOF	5
	SIMONE BATTISTON	Optimizing Early-Stage Sustainability: Life Cycle Assessment in Materials Chemistry	Green Chemistry	ICMATE	5
	JACOPO PAINI	Strategic valorization of seaweeds: A cascading biorefinery approach for high-value oligosaccharide production	Green Chemistry	SCITEC	5

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Day 3 – giovedì 23 ottobre 2025 – AULA CONVEGNI

Time	Name	Title	Topic	Inst.	Min.
	GIULIA RANDO	Nanotechnological Innovation in Precision Agriculture: A New Paradigm in Agri-Food Waste Valorization and Resource Optimization	Green Chemistry	ISMN	5
	ELISABETTA CAMPODONI	Injectable composite biomaterials for 3D printed customised matrices for the bioengineering of advanced bone models in bioreactor systems	Life Sciences	ISSMC	5
	MARIA MONTICELLI	Phosphomannomutases in the mirror: from structural and biochemical divergence to small-molecule therapies in PMM2-CDG	Life Sciences	ICB	5
09:30	ALFREDO CASSANO	Integrated membrane operations for quality improvement and circular economy in agro-food applications	Green Chemistry	ITM	15
09:45	GUSEPPE CASSONE	Quantum effects, charge transfer, and electric fields: what matters in water	Modelling	IPCF	15
10:00	ANDREA LORENZONI	Automated Multiscale Modelling Workflows for the Design of Safe and Sustainable Advanced Materials	Modelling	ISMN	15
10:15	SABRINA MORELLI	Membrane-based platforms for tissue engineering applications	Life Sciences	ITM	15
10:30	ROBERTO ZOBOLI	<i>Professore Ordinario di Politiche Economiche, Università Cattolica del Sacro Cuore, Milano "European Strategies and Policies for Critical Raw Materials"</i>	- INVITED -		45
11:15	Poster Awards				10
11:30	Coffee break				30
CHAIR: Susi Borzacchiello, Giuseppe Cassone					
12:00	MARIA LAURA DI LORENZO	EIC Pathfinder Challenge: A nature inspired thermal resistant food packaging is BORN	Green Chemistry	IPCB	15
12:15	ROCCO CALIANDRO	In situ/Operando Advanced Structural Characterization of smart materials for alternative energies	Advanced Materials	IC	15
12:30	RAFFAELLA SOAVE, RICCARDO DONNINI	Co.Science: connecting science to society by promoting the importance of research and innovation	Terza missione	SCITEC ICMATE	15
12:45	ANNALISA MASI	Functional Nanomaterials and Nucleic Acids: A Synergistic Interaction for Diagnostics and Biomedical Applications	Life Sciences	IC	15

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Time	Name	Title	Topic	Inst.	Min.
13:00	DANILO DI GENOVA	Is magma just a badly behaved glass? A materials science approach to volcanic eruptions	Advanced Materials	ISSMC	15
13:15	MARIA GRAZIA RAUCCI	Theragenerative Quantum Dot Nanoplatfoms for Neural Modulation	Life Sciences	IPCB	15
13:30	ALESSIO DESSÌ	Organic light-responsive molecules for solar energy conversion	Energy	ICCOM	15
13:45	MARCELLO ZIACO	Mass Spectrometry-based technologies for functional imaging of small molecules	Life Sciences	ICB	15
14:00	Conference Closure Fabrizio CAVANI, Leonarda LIOTTA, Alessandro MORDINI - Members of DSCTM Scientific Board, Lidia ARMELAO - DSCTM Director				
14:15	Farewell Light Lunch				

Comitato Scientifico

Lidia Armelao (DSCTM), Cinzia Giannini (IC), Angelo Fontana (ICB), Claudio Sangregorio (ICCOM), Maria Losurdo (ICMATE), Edoardo Bemporad (IPCB), Onofrio Maragò (IPCF), Vittorio Morandi (ISMN), Vincenzo Palermo (ISOF), Alessandra Sanson (ISSMC), Alberto Figoli (ITM), Vladimiro Dal Santo (SCITEC).

Comitato Organizzatore

Vittorio Morandi (ISMN), Alessandra Sanson (ISSMC), Vincenzo Palermo (ISOF), Annalisa Natali Murri (ISSMC), Armida Torreggiani (ISOF), Angela Gondolini (ISSMC), Marianna Barbalinardo (ISMN), Valentina Benfenati (ISOF), Giuseppe Angellotti (ISMN), Chiara Rossini (ISMN), Antonio Greco (ICB), Francesco Verginelli (DSCTM), Giuliana Quaglia (DSCTM), Floriana Bernabucci (DSCTM), Caterina Adinolfi (DSCTM), Ciro Neri (DSCTM), Aurora Caputi (DSCTM), Cinzia Frascchetti (DSCTM), Emiliano Pulvirenti (DSCTM), Federica Criscuoli (DSCTM), Alessia Cosseddu (Ufficio Stampa CNR).

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INVITED SPEAKERS

MARCO FALZETTI

Director of APRE – Agency for the Promotion of European Research



Master of Science in Aeronautical Engineering at Università degli Studi di Roma La Sapienza. He starts his professional research activity in 1990 at CSM where acts as researcher, focusing on the application of Artificial Intelligence techniques in process modelling and control problems. Coordinators and responsible of numerous European Projects in the area of Iron and steelmaking, acts as Italian representative in various European Committees. In the period 1999-2003, works as National Detached Expert at the Research Directorate General of the European Commission in Brussels. In the material unit of the Directorate G, acts as scientific officer for the ECSC Steel Research programme and 5th Framework programme. In the period 2003-2015 works in CSM as Manager of EU Research Affairs, where acts as manager of European programmes and international developments for Advanced Material in Centro Sviluppo Materiali and is responsible for EU R&D&I relationships and policies. From 1st January 2016 he is Director of APRE – Agency for the Promotion of European Research. He has launched the Alliance for Materials initiative (A4M), supported by the EU Commission, and he is acting as chairman of the Management Board of A4M. Chairman of EuMaT (The European Technology Platform on Advanced Engineering Materials and Technologies), member of many advisory boards and steering committees of different EU projects and initiatives. He is also member of the European Commission Advisory Group for the NMP-B part of H2020 programme.

ENRICO FASTELLI

HSE & Facility Director Racing Bulls S.p.A.



Enrico Fastelli, who holds a degree in Architectural Engineering, began his professional career at Planning S.r.l., where he worked from 2006 to 2016 as a collaborator in executive design and project management. During this time, he contributed to numerous complex projects for major clients such as Ferrari, Bracco S.p.A., and Galotti S.p.A. In January 2017, he joined Ferrari S.p.A., reaching through the years the role of Head of Infrastructure and General Facilities. In this role, he managed infrastructure and facility projects with a strong focus on sustainability and Carbon Neutrality program. He implemented innovative energy systems, including fuel cells and biogas solutions, and coordinated with government authorities to obtain permits and ensure successful project execution. In 2022, Enrico Fastelli joined Scuderia AlphaTauri (now Racing Bulls S.p.A.) as HSE & Facility Director.

ROBERTO ZOBOLI

Full Professor of Economic Policy, Catholic University, Milan



Roberto Zoboli is Full Professor of Economic Policy and teaches Economics of Natural Resources at the Catholic University, Milan. He is Corresponding Fellow of Accademia Nazionale Dei Lincei. Previously, he was a researcher at Nomisma S.p.A., Fondazione Cariplo per la Ricerca Scientifica, and the Research Office of Montedison S.p.A. For twelve years, he was a Research Director at the CNR (National Research Council), where he is currently a Research Associate at IRCrES - Institute for Research on Sustainable Economic Growth. He is a member of the Board of Directors of SEEDS - Sustainability, Environmental Economics and Dynamics Studies, an interuniversity research center that brings together environmental and innovation economists from twelve Italian universities. Since 2001, he has been a Task Leader in several Topic Centers of the EEA - European Environment Agency, currently at the ETC CE - European Topic Centre on Circular Economy and Resource Use (2022-2026).

ANDREA FERRAZZI

Head of Institutional Relations, Italian Alliance for Sustainable Development (ASviS)



Former Senator of the Italian Republic, Andrea Ferrazzi was Vice-President of the bicameral Commission of Inquiry on the "Ecomafias" phenomenon, member of the Parliamentary Commission of Inquiry on Banks and Financial System, and National Manager for Urban Planning and Construction for ANCI. Andrea Ferrazzi was Vice-President of the Province of Venezia and Councilor for Urban Planning, Construction, Design and Training of the Municipality of Venezia. Andrea Ferrazzi represents the Italian Parliament at the Climate COP26 in Glasgow, and in the UN member countries parliaments Forum. Andrea Ferrazzi accomplished several international missions in most critical environmental sites, including remediation and nuclear waste sites, landfills, and disposal plants. He is Rapporteur of the Law on PFAS, which, according to UN, are chemicals responsible for "the greatest environmental pollution in Europe". He was the first signatory of the Law on Urban Regeneration and the declaration of Environmental and Climate Emergency state in Italy. He contributed to the national regulations on End of Waste and the production of 100% recycled PET bottles. He was member of the Committee author of the historic amendment of the Italian Constitution, in the perspective of environment and future generations. Author of books and publications on economics and sustainability, he assists several associations and economic entities on the theme of sustainability. He is the author of the television program EcoVisioni, and Editorial Director of the EcoVisioni series for the publishing house Marietti 1820.