

During the conference, there will be an exhibition of scientific and educational software, videogames and boardgames created by DSCTM researchers.

CNR DSC

CHAIR 1: 13:30 DAVIDE ALTAMURA Synchrotron-like Synchrotron-like Applied Research Applied Research to electrification to electrification Nano In Micro T Implementation Physiological Applied Research Physiological Applied Research Costa Nano In Micro T Implementation Physiological Applied Research Physiological Applied Research Research Physiological Applied Research Physiological Physio	cterization of Nano/Biomaterials by Laboratory X-ray Microsource ials and 3D Technology Bridging Basic and h neering in the H2 strategy: from carbon capture	ARMELAO Advanced Materials Life Science Energy Green	IC ISOF	15 15
CHAIR 1: 13:30 DAVIDE ALTAMURA Synchrotron-like Synchrotron-like Applied Research Applied Research to electrification to electrification and the Applied Research to electrification to electrification to electrification and the Applied Research to electrification to electrification and the Endanglish to electrification and the Endangl	cterization of Nano/Biomaterials by Laboratory X-ray Microsource ials and 3D Technology Bridging Basic and h	Advanced Materials Life Science Energy	ISOF	15
13:30 DAVIDE ALTAMURA Multiscale chara Synchrotron-like 13:45 EMANUELA SARACINO ADOLFO LULIANELLI 14:15 ANNA COSTA Membrane engito electrification Mano In Micro T Implementation Physiological April 14:45 LIBERA VITIELLO CHAIR 2: 15:00 SIMONE BONATI Multiscale chara Synchrotron-like Multiscale chara Synchrotron-like Advanced Mate Applied Research Advanced Mate Applied Research Applied Research Designing the F Physiological Applied Physiological Phys	Laboratory X-ray Microsource ials and 3D Technology Bridging Basic and h neering in the H2 strategy: from carbon capture	Materials Life Science Energy	ISOF	
13:30 ALTAMURA Synchrotron-like 13:45 EMANUELA SARACINO Advanced Mate Applied Research 14:00 ADOLFO Membrane engit to electrification 14:15 ANNA COSTA Nano In Micro T Implementation 14:30 ROSANNA RIZZI Designing the F Physiological Applied Research 14:45 LIBERA VITIELLO Enhancing biop hybridization, results of the powder bed fusion of the	Laboratory X-ray Microsource ials and 3D Technology Bridging Basic and h neering in the H2 strategy: from carbon capture	Materials Life Science Energy	ISOF	
14:00 ADOLFO Membrane engito electrification 14:15 ANNA COSTA Nano In Micro T Implementation 14:30 ROSANNA RIZZI Designing the F Physiological Application Physiological Application, results and the powder bed fusion of the powder bed fusion in	h neering in the H2 strategy: from carbon capture	Energy		15
14:15 ANNA COSTA ROSANNA RIZZI 14:45 LIBERA VITIELLO SIMONE BONATI to electrification Nano In Micro T Implementation Designing the F Physiological Application, recommendation Enhancing biop hybridization, recommendation Highly deformate powder bed fusion			ITM	
14:15 COSTA Implementation 14:30 ROSANNA Designing the F Physiological Application Physiological Physiolo	schnologies as Practical Tools For SShD	Green	100	15
14:30 RIZZI Physiological Ap 14:45 LIBERA Enhancing biop hybridization, re CHAIR 2: 15:00 SIMONE Highly deformal powder bed fusion.	Asimologics as Fractical 10015 For South	Chemistry	ISSMC	15
CHAIR 2: SIMONE BONATI Highly deformal powder bed fusion.	uture of Diagnostics and Therapy: Synthetic and proaches	Life Science	IPCF	15
15:00 SIMONE Highly deformal powder bed fusi	olymer performance for sustainable applications: cyclability, and degradability	Advanced Materials	IPCB	15
BONATI powder bed fusi				
EDANGECOCA Lipyciling the for	ole metal structure fabricated through laser	Advanced Materials	ICMATE	15
15:15 FRANCESCSA Unveiling the far perspective	e of plastic materials in Cultural Heritage: A new	Cultural Heritage	SCITEC	15
15:30 MARTA MARIA Towards a More gen	Sustainable and Circular Production of Hydro-	Energy	ICMATE	15
15:45 MARCO Director of APRE search "Towards		- INVIT	ED -	45





18:15

18:30

18:45

19:00

FANELLI

FRANCESCA

GABRIELLA

DI CARLO

End of day

GIUNTA DSCTM

BOCCACCINI,

2025 GIORNATE SCIENTIFICHE SESSIONE ORALE

During the conference, there will be an exhibition of scientific and educational software, videogames and boardgames created by DSCTM researchers.

Day 1 - martedì 21 ottobre 2025 - AULA CONVEGNI **Time** Name **Title** Min. **Topic** Inst. CHAIR 3: TD PNRR - 5 min each 30 VASILIKI Advanced Advanced Scanning Probe Microscopy for 2D materials ISOF 5 **BENEKOU** Materials CARLO Beyond Nano Building Blocks: 3D Self-Assembled Perovskite and Advanced **NAZARENO IPCF** Quantum Dot Supercrystals Materials DIBENEDETTO 17:00 **FRANCESCA** Phase Seeding: a method for Al-assisted crystal structure deter-Advanced IC. 5 **FEDELE** Materials mination (Flash) Development of QM-derived force fields for the simulation of Advanced ANNA ICCOM 5 **PIRAS** molecules adsorbed in porous materials Materials Innovative Polyvinylidene Fluoride/Alkali Lignin Membranes for **SERENA** Advanced ITM 5 **REGINA** Materials Biocatalytic Membrane Reactor **SERGIO** Post-Impact Collision Detection on a Collaborative Robot by Fast Advanced ISMN 5 **SAPIENZA** Strain Measurements Materials **JESSICA** Developing Molecular Devices and Materials with Photoactive Com-17:30 ISOF Energy 15 GROPPI TOMMASO Functionalized Cryogel for Environmental Chemistry and Applica-Green 17:45 ICB 15 **MECCA** Chemistry **LEONARDA** Hydrogen and e-fuels synthesis by CO2 as feedstock: opportuni-18:00 Energy ISMN 15 LIOTTA ties and challenges **FIORENZA** Atmospheric pressure plasma surface engineering for environ-Advanced



mental applications and catalysis

tion: from design to museum applications

Sustainable advanced materials for cultural heritage conserva-



ICCOM

ISMN

Materials

Cultural

Heritage

15

15

60



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S	ession A	GREEN-CHEMISTRY-ENERGY-MODELLING-CULTURAL HERITAGE		rence rooms - 1st floor	3
lime	Name	Title	Topic	Inst.	Mir
CHAIR	4:				
08:45	CARMELO DRAGO	Chemical Conversion of Waste Oils and Fats into Sustainable Biofuels	Green Chemistry	ICB	15
9:00	BEATRICE CAMPANELLA	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
9:30	ROSSELLA LABARILE	Photobiological Hydrogen Production by Rhodobacter: Toward Sustainable Energy Solutions	Green Chemistry	IPCF	15
9:45	FILIPPO AGRESTI	Composite materials for energy efficiency and thermal storage in buildings	Energy	ICMATE	15
0:00	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 + p	poster session		The second	30
CHAIR	5:				
11:00	ENRICO FASTELLI	HSE & Facility Director, Racing Bulls "Improving performance in a sustainable way: towards a net-zero production process for a F1 racing car"	- INVI "AULA COI		45
11:50	ILARIA CITRO	Advancing Dye-Sensitized Solar Cells: Utilizing Carbon Dots to Optimize Photoelectrode Sensitization and Increase PhotoelectroChemical Efficiency	Energy	IPCF	15
2:05	ELENA TOCCI	Membrane Engineering in the Era of Machine Learning	Modelling	ITM	15
2:20	Lunch + poster	session		N. S. S.	60
3:20	Photo I All portion	sipants meet in main hall for a group photo		- 69	10





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Day 2 - mercoledì 22 ottobre 2025 Conference rooms **Session A** GREEN-CHEMISTRY-ENERGY-MODELLING-CULTURAL HERITAGE 215 - 1st floor **Time Title** Inst. Min. Name Topic **CHAIR 6/7:** CLAUDIO Supported mono- and bimetallic catalysts for hydrogen 13:30 **ICCOM** Energy 15 **EVANGELISTI** production by reforming processes Towards stable and efficient perovskite solar cells: a DANIELE 13:45 Modelling SCITEC 15 **MEGGIOLARO** computational perspective New multifunctional materials and approaches for solar **NICOLA ISSMC** 14:00 Energy 15 **SANGIORGI** supercapacitors Sustainable SERS sensing for non-invasive Cultural Heritage Cultural **DARIO** 14:15 **IPCF** 15 **GIUFFRIDA** Heritage diagnostics SIMONE 14:30 Mining tailings for energy and environmental applications ISMN Energy 15 **QUARANTA** Application of 2D black phosphorus in solar-driven hydrogen MARIA **ICCOM** 14:45 15 Energy **CAPORALI** production Sustainable by Design: (Chemo)Enzymatic Pathways to APIs and IVAN Green 15:00 SCITEC 15 BASSANINI **Bioactive Small Molecules** Chemistry Micro- and Nano-plastics in Water: Monitoring and Treatment via **TFRFSA** Green 15:15 15 ITM **POERIO** Chemistry Membrane Technologies GIOVANNA Green 15:30 Cytrocell: a new high performing nanocellulose from Cytrus ISMN 15 Chemistry LI PETRI 15:45 Coffee break + poster session 45 **CHAIR 8/9:** Degradation of (Bio)plastics in real vs simulated marine **LUCIA** Green 16:30 **IPCF** 15 RICCI conditions: an experimental approach Chemistry Recovery of Lithium for the Sustainability of Lithium-Ion Batteries ANDREA 16:45 **ICCOM** Energy 15 MARCHIONNI BARBARA Non-covalent Functionalization of Carbon Quantum Dots: A Green 17:00 **ICMATE** 15 **VERCELLI** Spectroscopic and Electrochemical Study Chemistry







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Day 2 - mercoledì 22 ottobre 2025

S	ession A	GREEN-CHEMISTRY-ENERGY-MODELLING-CULTURAL HERITAGE		rence rooms - 1st floor	
Time	Name	Title	Topic	Inst.	Min.
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/ Environment	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
15:45	End of day		17 43		
20:30	Social Dinner	Palazzo Gnudi Bologna			

Day 2 - mercoledì 22 ottobre 2025

S	ession B	ADVANCED MATERIALS-LIFE SCIENCE	Ple	enary room				
Time	Name	Title	Topic	Inst.	Min.			
CHAIR	CHAIR 10:							
08:45	DA DEFINIRE				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			





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Day 2 - mercoledì 22 ottobre 2025

	Session B	ADVANCED MATERIALS-LIFE SCIENCE		erence room 6 - 1st floor	S
Time	Name	Title	Topic	Inst.	Min
09:15	ANTONIO 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	Coffee break + pos	ter session	NOT T		45
(CHAI	R 5):				
11:00	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
CHAIR	₹ 11:				
11:45	CRISTINA D'ARRIGO	Extracellular vesicles as a platform for the detection and treatment of neurodegenerative diseases	Life Sciences	SCITEC	15
12:00	ALESSANDRA SCIDÀ	Laser-scribing of biodegradable poly (lactic acid)/graphene oxide composites for sustainable electrochemical sensors	Advanced Materials	ISOF	15
	Lunch + poster session				45
12:15	Lunch + poster ses	51511			40
		ants meet in main hall for a group photo			15
12:30					Holer Land
12:30	Photo All participa		Advanced Materials	ISSMC	Holer Land







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Day 2 - mercoledì 22 ottobre 2025

	Session B	ADVANCED MATERIALS-LIFE SCIENCE		erence room 6 - 1 <mark>st f</mark> loor	s
Time	Name	Title	Topic	Inst.	Min.
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 M. abscessus: A New Strategy to Limit the Virulence of Non-Tuberculous Myco- bacteria	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 wastewa- ter treatment and greenhouse gas mixtures adsorption- separation	Advanced Materials	ІССОМ	15
15:45	Coffee break + pos	ter session			45
CHAIR	R 14/15:				
16:30	ANNA MARIANO	Engineered osteoinductive biohydrogels for bone regeneration	Life Sciences	IPCB	15
16:45	CLAUDIA HONISCH	Oriented Synchrotron Radiation Circular Dichroism of antimicrobial 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
17:15	GIOVANNI DAL POGGETTO	GPC Beyond Molecular Weight: A Look Inside the Architecture of Functional Polymers	Advanced Materials	IPCB	15





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Day 2 - mercoledì 22 ottobre 2025

Session B		ADVANCED MATERIALS-LIFE SCIENCE	Conference rooms 216 - 1st floor		
Time	Name	Title	Topic	Inst.	Min.
17:30	ILARIA SILVESTRI	Structural basis of selectivity in small molecules targeting galectins	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		11/1/3		
20:30	Social Dinner 1	Palazzo Gnudi Bologna	12		

Day 3 – giovedi 23 ottobre 2025 – AULA CONVEGNI

Time	Name	Title	Topic	Inst.	Min.
CHAIR	? 16 :				
09:00	100	TD PNRR- 5min each			30
	GIUSEPPE CESARE LAMA	Sustainability of Tailored Coatings and Composite Polyurethane Foams for Cultural Heritage Conservation	Cultural heritage	IPCB	5
(Flash)	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





SOAVE,

RICCARDO

ANNALISA

DONNINI

12:30

12:45

2025 GIORNATE SESSIONE ORALE

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CNR DSC

Min.

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Day 3 – giovedi 23 ottobre 2025 – AULA CONVEGNI **Time** Name **Topic** Inst. Nanotechnological Innovation in Precision Agriculture: A New Green **SILVIA** Paradigm in Agri-Food Waste Valorization and Resource Chemistry / ISMN **SFAMENI Environment** Optimization Injectable composite biomaterials for 3D printed customised **ELISABETTA** Life matrices for the bioengineering of advanced bone models in ISSMC **CAMPODONI Sciences** bioreactor systems MARIA Phosphomannomutases in the mirror: from structural and Life **ICB** MONTICELLI biochemical divergence to small-molecule therapies in PMM2-CDG Sciences

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	BIO-SUSHY: Multiscale Modelling Workflows for the Safe and Sustainable Substitution of PFAS	Green Chemistry	ISMN	15
10:15	SABRINA MORELLI	Membrane-based platforms for tissue engineering applications	Life Sciences	ITM	15
10:30	ROBERTO ZOBOLI	Professore Ordinario di Politiche Economiche, Università Cattolica del Sacro Cuore, Milano "European Strategies and Policies for Critical Raw Materials"	- INVITED-		45
11:15	Poster Awards				10
11:30	Coffee break		P 14 6		30
CHAI	R 17/18:				
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	In situ/Operando Advanced Structural Characterization of smart	Advanced	IC	15
	CALIANDRO	materials for alternative energies	Materials		

Co.Science: connecting science to society by promoting the

Functional Nanomaterials and Nucleic Acids: A Synergistic

Interaction for Diagnostics and Biomedical Applications

importance of research and innovation



SCITEC

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Terza

Life

missione

Sciences



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Day 3 – giovedi 23 ottobre 2025 – AULA CONVEGNI

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	Advancing Cancer Treatment and Tissue Regeneration through The ragenerative Nanoplatforms	Life Sciences	IPCB	15
13:30	ALESSIO DESSÌ	Organic light-responsive molecules for solar energy conversion	Energy	ІССОМ	15
13:45	MARCELLO ZIACO	Mass Spectrometry-based technologies for functional imaging of small molecules	Life Sciences	ICB	15
14:00	Conference Clos	ure Forewell Light Lunch	01		









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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 on 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 russels. 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



Runiversity, 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).

