Ecomondo 2021

26 / 27 / 28 / 29 OCTOBER

Legend

- AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
- BEACON CONFERENCES
- BIOREMEDIATION AND SITE REQUALIFICATION
- BLUE GROWTH
- CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
- HYDROGEOLOGICAL RISKS AND DISASTERS PREVENTION AND MANAGEMENT
- MONITORING & CONTROL
- OTHER PROPOSALS
- STAKEHOLDER EVENTS IN COOPERATION WITH THE EUROPEAN COMMISSION
- STATES GENERAL OF THE GREEN ECONOMY
- SYSTEMIC WATER CYCLE MANAGEMENT AND VALORIZATION
- WASTE MANAGEMENT AND VALORIZATION

TUESDAY 26 OCTOBER

09:30 - 13:00

Global Water Expo
Room D2 Pav.

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 17:30

Gemini Room C3 Pav.

HYDROGEOLOGICAL RISKS AND DISASTERS PREVENTION AND MANAGEMENT
Ecomondo Event

Risk mitigation structures for fast landslides

Language: Italian

Organized by: Ecomondo Scientific-Technical Committee & Italian Geotechnical Society

Climate change is a topical issue and the landslide risk mitigation has become crucial for next generations. The Agenda 2030 for Sustainable Development of United Nations also adds an old-new challenge: how to combine the land use with the preservation of natural resources and the prevention of disasters. Among the most widespread and often severe hazards, fast landslides (debris flows, debris avalanches, debris floods, etc) is the class characterized by the largest destructive potential, involving huge soil/rock masses, travelling very fast and even along gently inclined slopes.

This conference deals with the reduction of the risk posed by fast landslides in a modern framework of optimizing structural efficiency and reducing both construction costs and environmental impact. Examples of structures (reinforced embankments, filtering barriers, permeable racks, flexible nets, etc) employed to either stop or deviate the flowing masses will be considered. The approaches and methods nowadays available for design will be illustrated. The main focus of the conference will be on: (i) the reliable assessment of the input data, which is crucial for the correct choice of the structure, its positioning and for the specific design; (ii) the adequate analysis of the dynamic interaction between flowing mass and protection structure.

Programme

9.30-10.00 Registration

10.00-10.15 Introduction
Nicola Moraci (*IGS* - Italian Geotechnical Society President)
Daniele Cazzuffi (*IGS* - Italian Geotechnical Society President)

Session 1: Features and design of protection works
Chair: Claudio di Prisco (Polytechnic of Milan)

10.15-10.45 *Risk mitigation structures: classification and fields of application*
Giovanni Vaciago (Studio Geotecnico Italiano - Italian geotechnical study*, Milano)*

10.45-11.15 *A frame work for design: advanced approaches*
Sabatino Cuomo (University of Salerno)

11.15-11.45 *Protection earthworks*
Francesco Calvetti (Polytechnic University of Milan)

11.45-12.15 *Design of reinforced embankments*
Piergiorgio Recalcati (Tenax SpA, Viganò)

12.15-13.00 *Discussion*

Session 2: Applications and case histories
Chair: Sabatino Cuomo (University of Salerno)

14.15-14.45 *Use of metallic wires along mountain creeks*
Marco Greco (Geobrugg Italia srl, Bergamo)

14.45-15.15 *Monitoring of protection structures against channelized landslides*
Fabio de Polo (Civil Protection Agency of Bolzano-Mountain Basins Bolzano)

15.15-15.45 *Slit-check dams: assessments of impact forces and retaining efficiency*
Marina Pirulli (Polytechnic University of Turin)

15.45-16.15 *Solutions for mitigation of flow-like landslides*
Rinaldo Uccellini (Officine Maccaferri Italia srl, Zola Predosa)

16.15-16.45 *Performance* of a reinforced embankment for protection against fast landslides
Luis Russo (Huesker srl, Trieste) and Marco Balducci (Progetto Associati Area, Perugia)

16.45-17.30 *Discussion and Closure*
Daniele Cazzuffi (CESI SpA, Milano) e Nicola Moraci (President of AGI - Italian Geotechnical Association)

09:30 - 18:00

Tiglio Room A6 Pav

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event - Call for Papers

Sustainable technological innovations for material and energy recycling and recovery

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Italian Chemical Society – Division Environmental and Cultural Heritage Chemistry, ATIA – ISWA

CALL FOR PAPERS

The aim of a decoupling between the advisable economic development and the undesirable depletion of planet resources requires a huge effort towards a technical improvement, able to implement new processes to close the cycles in all productive value chains.
A first important European initiative, in line with the new Circular Economy Action Plan, has recently been delivered, in relation to batteries (industrial, automotive, electric vehicle and portable), but the ambitious targets fixed by EU for the next years cover many priority sectors (plastics, packaging, WEEE, textiles, building and construction, food).
This seminar thus intends to show some advanced initiatives of technological innovations which could be applied to different categories of residues, by-products or discards, both industrial and urban, with the aim of improving resources circularity and valorisation.

Section Chairs

Fabrizio Passarini, Ecomondo Scientific Technical Committee, University of Bologna
Mauro Majone, Ecomondo Scientific Technical Committee, University "La Sapienza" Rome
Paola Muraro, ATIAISWA ITALIA

Programme

9.30-9.45 Introduction by the Chairs and a short summary on the papers presented through posters

9.45-10.45 **Invited lectures**

9.45-10.00 Antonio Protopapa, COREPLA
The frontiers of plastic mix chemical recycling

10.00-10.15 Fabio Assandri, R&D & Technological Innovation Director, Versalis
Versalis: Hoop® a sustainable recycling of mixed plastics project

10.15-10.30 Paolo Pavan, Università "Ca Foscari" di Venezia
A framework of present possibilities and perspectives of carbon recovery from waste flows

10.30-10.45 Letizia Tuccinardi, ENEA
Recycling processes for end of life face masks: hypotheses for a sustainable value chain

10.45-17.15 **Presentations selected from the Call for papers**

10.45-11.00 Cailotto A., Mantovani M., Zanetti N., Della Zassa M. (KINN-Tech s.r.l., Spin Off of the University of Padova, www.k-inntech.it), Canu P. (Industrial Engineering Department, University of Padova, Via Marzolo 9, 35131, Padova)
Inertisation treatments of waste metallic powders

11.00-11.15 Antonio Castorini, Tiziano Canali, Paride Festa Rovera (TBF+Partner AG)
The recovery of metals from the fly ash of waste-to-energy plants

11.15-11.30 Daniele Ricci, Matteo Carfagno, Matteo Maiello, Paolo Magaldi (Magaldi Power S.p.A., Salerno)
Magaldi Ecobelt® WA On site valorization treatment of dry IBA as a revenue opportunity for WtE plants

11.30-11.45 Francine Duarte Castro, Mentore Vaccari (University of Brescia, Italy), Laura Cutaia (ENEA, Italy)
An experimental design approach for recovering materials from automotive lithium-ion batteries

11.45-12.00 Marco Molica Colella, Vittoria Novelli (CiaoTech S.r.l.)
Development of an Efficient Microwave System for Material Transformation in energy INtensive processes for an improved Yield

12.00-12.15 Loretta Venturini, Fabrizio Meroni (Iterchimica S.r.l.)
The valorization of waste plastics in durable asphalt concrete: the Genova San Giorgio Bridge

12.15-12.30 Martino Colonna, Lorenzo Crosetta, Alessandro Nanni (DICAM-UNIBO), Massino Rinaldi (Warrant Hub)
Complete recycling of end-of-life sport equipment: the LIFE RE-SKIBOOT Project

12.30-12.45 Rosa Turco, Riccardo Tesser, Martino Di Serio (Department of Chemical Sciences, University of Naples Federico II), Salvatore Mallardo, Mario Malinconico (Institute for Polymers, Composites and Biomaterials - IPCB, National Council of Research - CNR))
Recycling Expanded Polystyrene (EPS): Giving a new life to a waste

12.45-13.00 Marlene Scalise (ass. culturale Riscarti), Flavio Ottaviani (Energy manager)
"Riscarti festival" and the sustainability culture

13.00-14.00 Break

14.00-14.15 Elena Rubino, Marco Botta, Gianluca D'Aquila (Eni Rewind)
Sustainable technological innovations for the recycling and recovery of materials and energy

14.15-14.30 Silvia Codelupi (COOPBOX GROUP S.P.A)
GLOPACK project: from biomass recovery to food packaging

14.30-14.45 Luisa Di Paola (Faculty of Engineering, Università Campus Biomedico di Roma)
REWINE: a biorefinery platform based on winery wastes

14.45-15.00 G. Metelli, R. Pagliarello (Università della Tuscia), M. Garegnani (Politecnico di Milano, DAER), L. Nardi, A. Desiderio, M. Calvitti, E. Benvenuto, E. Lampazzi (ENEA, Biotechnology and Agro-Industry Division)
A lab scale insect-based microgreens waste recovery system

15.00-15.15 Coos Wessels (CirTec)
Optimisation of sewage treatment by recovery of cellulose

15.15-15.30 Giovanni Luca Russo, Maria Oliviero, Marco Baselice, Antonio Luca Langellotti, Paolo Masi, Raffaele Sacchi (Department of Agricultural Sciences & CAISIAL center, University of Naples Federico II, Italy), Vito Verardo (Department of Nutrition and Food Science, University of Granada, Spain)
Bioconversion of agri-food waste in high added value molecules through microalgae cultivation

15.30-15.45 Rachele Malesani, Alberto Pivato (DICEA, Department of Civil, Architectural and Environmental Engineering, University of Padova), Andrea Schievano (Department of Environmental Science and Policy, University of Milan)
Compost Heat Recovery Systems as alternative plants to provide domestic heating from residual biomasses

15.45-16.00 Marazza, D. (Università di Bologna), Contin, A., Hornung, A., Daschner, R., Eder, S., Ouadi, M., Jahangiri, H., Graute, L., Zhou, J., Lieftink, D., Grassi, A., Capaccioli, S., Righi, S., Lama V., Rapone, I., Langley, M., Tuck, C., Claret Carles
To-Syn-Fuel: renewable liquid fuels and hydrogen from sewage sludge in a 500 kg/h real plant

16.00-16.15 Lorini L., Villano M., Majone M. (Department of Chemistry, University of Rome La Sapienza), Valentino F. (Department of Environmental Science, Informatics and Statistics, Ca' Foscari University of Venice), Battista F., Monarin G., Rizzoli F., Bolzonella D. (Department of Biotechnology, University of Verona)
Degradability of waste derived bioplastics: assessment and evaluation of BMP

16.15-16.30 Giovanni Gadaleta, Sabino De Gisi, Giusy Santomasi, Francesco Todaro, Michele Notarnicola (Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica, Politecnico di Bari, Italy)
Influence of cellulose acetate as a bio-plastic on the yield of combined anaerobic digestion and composting treatment

16.30-16.45 Massimo Mari, Antonella Macagnano (CNR - Istituto sull'inquinamento atmosferico), Fabrizio De Cesare (Università della Tuscia - DIBAF), Carla Mazziotti (CNR - Dipartimento di Ingegneria ICT e Tecnologie per l'Energia e i Trasporti)
Electrospinning technology for eco-design in planning through the recovery of agro-food waste

16.45-17.00 Valentina Beghetto, Riccardo Samiolo (Crossing Srl)
Antimicrobial Waterproof Recyclable Environmentally Sustainable Clothes

17.00-17.15 Nelson Marmiroli (Consorzio CINSA, Parma, Italy), Matteo Cauli, Marco Ruggi (Ri.Circola Srl, Milan, Italy), Lucia Toffanin; (INDICAM, Milan, Italy)
Sustainable solutions for the disposal of seized, counterfeit goods: solutions for recycling

17.15-17.30 Discussion and closure

Poster Session

WMV1-P1 STEPPER SCREEN: il nuovo brevetto di PAL per vagliare il rifiuto / Tommaso Zanasi (PAL srl)

WMV1-P2 Come la regolazione Arera può influenzare la qualità dei servizi di gestione integrata dei rifiuti / Giorgio Ghiringhelli (ARS ambiente Srl e Università Cattaneo – LIUC), Carlo Sguario, Paolo Pagani, Monica Benzi, Giuseppe Sbarbaro (UTILITEAM Srl)

WMV1-P3 VOW - Valorising Organic Waste / Stefano Santini (Nest srl)

WMV1-P4 New sizing strategies to improve recovered carbon fibres reinforcement on polymer composite / Miquel Royo, Marc Martín, Luis Granda, Diego Morillo, Ruth Garcia, Núria Portolés (LEITAT Technological Center)

WMV1-P5 Il recupero dell'Olio da Disoleatore / Elisabetta Piana (Karberg & Henenmann srl)

WMV1-P6 Circular economy design da waste ad opportunità aziendale / Dr. Alberto Claudio Tremolada (Competence center manufacturing & exhibitions manager Adaci - Associazione It. Acquisti e Supply Management)

WMV1-P7 FLIES4VALUE - Insetti per la bioconversione di sottoprodotti agroalimentari / Lara Maistrello (BIOGEST-SITEIA UNIMORE), Lorenzo Bertin (CIRI AGRO UNIBO), Maria Grazia Tommasini (CRPV Soc. Coop.)

(BIOGEST-SITEIA UNIMORE), Lorenzo Bertin (CIRI AGRO UNIBO), Maria Grazia Tommasini (CRPV Soc. Coop.), Federica Rossi (Proambiente S.C.r.l.), Augusta Caligiani (SITEIA.PARMA UNIPR)

WMV1-P8 Tenebrio molitor: innovative tool for food loss and waste valorisation and biopolymers recovery/ Simona Errico, Anna Spagnoletta, Stefania Moliterni, Salvatore Dimatteo, Alessandra Verardi, Paola Sangiorgio, Ferdinando Baldacchino, Roberto Balducchi (ENEA - Centro Ricerche Trisaia)

WMV1-P9 New biochar-based composite for phosphorous recovery from wastewater / Carlotta Carlini, Alessia Alcantarini, Nicolas Greggio, Antonio Primante, Andrea Contin, Diego Marazza (CIRSA - Interdipartimental Research Centre for Environmental Science, Alma Mater Studiorum – Università di Bologna)

WMV1-P10 REE, critical raw material and geopolymers recovery from fly ashes / Paolo Plescia (Resilco Srl), Ivana Moscato (B1Shop Srl), David Callejo Munoz (Resilco Srl)

WMV1-P11 Plastic waste pretreatment for chemical recycling / Paolo Plescia (Resilco Srl), Ivana Moscato (B1Shop Srl), David Callejo Munoz (Resilco Srl)

WMV1-P12 GLycerol to Aviation and Marine prOducts with sUstainable Recycling / Patrizia Circelli (Ciaotech srl)

WMV1-P13 Estrazione di metalli da ceneri pesanti di termovalorizzazione di rifiuti urbani./ Carlo Limonti, Giulia Maria Curcio (Università della Calabria, Rende, Cosenza), Roberta Caruso, Francesco Marchio, Alessio Siciliano (Econet srl, Lamezia Terme, CZ)

WMV1-P14 Mercati locali di qualità e applicazioni di economia circolare/ Marino Cavallo (Città Metropolitana di Bologna)

WMV1-P15 Il recupero di rifiuti plastici con processo di pirolisi in Italia: Aspetti tecnici e normativi / Dott. Federico Pelizzari (Green Evolution S.r.l. Società Benefit), Prof. Ing. Gianclaudio Faussone (Politecnico di Torino)

WMV1-P16 FRELP BY SUN (Full Recovery End of Life Photovoltaic BY the energy from the SUN) / Lodovico Ramon (R&D Manager TIALPI SRL)

WMV1-P17 Gruppo CAP: Innovazioni tecnologiche sostenibili nel servizio idrico integrato / Desdemona Oliva (Gruppo CAP)

WMV1-P18 Nuove tecnologie di trattamento del sottovaglio da selezione dei RUR per recupero di materia / Domenico Ruggiero (S.A.P.NA. SpA - Sistema Ambiente Provincia di Napoli)

WMV1-P19 Soluzioni innovative per la gestione di impianti di confinamento e di percolati complessi: il caso di Progeco Ambiente SpA che sfrutta geofisica e fitodepurazione / Breda S., Zanoli A., Cantale V., Scanferla P., Argese E. (Fondazione Università Ca' Foscari di Venezia), Finotti Francesco, Finotti Franco, Tonelli A. (Geotila srl), Giovane G., Bonacina G. (Progeco Ambiente SpA), Castellaro C. (Moho srl), Criscione P. (Desam srl)

WMV1-P20 Sustainable food packaging from agro-waste: from Nature for Nature / Annamaria Celli, Laura Sisti, Micaela Vannini (DICAM, University of Bologna), Giuseppe Vignali (Department of Engineering and Architecture, University of Parma), Silvia Folloni (Open Fields Srl., Colorno, PR).

WMV1-P21 COMPOSER project - Innovative composite material for sustainable Circular Economy models / Marco Diani, Eleonora Manarin, Gianmarco Enrico Griffini, Marcello Colledani (Politecnico di Milano)

WMV1-P22 Evaluation of emissions generated from combustion of compost and lignocellulosic biomass/ Francesco Gallucci, Enrico Paris, Monica Carnevale, Adriano Palma, Beatrice Vincenti (Council for Agricultural Research and Economics, CREA-IT), Raffaele Mancini, Marco Calcopietro (Aster Energetica Srl), Ettore Guerriero (CNR-IIA)

WMV1-P23 Nuove soluzioni per l'economia circolare: riduzione volumetrica e valorizzazione carbon-negative / Luigi Iannitti (Chief Innovation Officer - RESET Srl), Anna Curatolo (R&D Engineer - RESET Srl), Andrea De Silvestri (R&D Engineer - RESET Srl)

WMV1-P24 L'impatto ambientale prodotto dal Covid-19 / Mangiagli Sebastiano (Istituto di Istruzione Superiore "A. Ruiz", Augusta)

WMV1-P25 Materials recovery from EoL mobile phones: the portent project / Danilo Fontana, Massimiliana Pietrantonio, Stefano Pucciarmati, Federica Forte (ENEA, Department for Sustainability, Via Anguillarese 301, 00123, Rome, Italy)

WMV1-P26 Plant cell cultures for bioconversion of industrial food waste into high value chemicals. / Maria Oliviero, Antonio Luca Langellotti, Andrea Donadio, Marco Baselic*, Anna Martello, Paolo Masi (CAISIAL, Università di Napoli Federico II, Portici, NA), Antonino Pollio (Dipartimento di Biologia, Università di Napoli Federico II).

WMV1-P27 C-SERVEES project: development of the Logistic Platform to enable the re-use of WEEE/ Sara Fozza, Marta Speranza, Davide Maglio (RINA Consulting)

WMV1-P28 The innovations in recycling and recovery of materials and energy in management of municipal solid waste in Catania / Elisabetta Chiara, Tommaso Alberto Vazzano, Fausto Scaro, Agata Matarazzo (Department of Economics and Business, University of Catania, Catania, Italy), Franco Corso, Letterio Mario Tringali, Salvatore Fiscella (Department Integrated System of Urban Hygiene, Municipy of Catania, Catania, Italy)

Italy)

WMV1-P29 Reversible Technologies towards Circular Constructive Products / Tecla Caroli, Andrea Campioli, Monica Lavagna (Dipartimento di Architettura, Ingegneria delle Costruzioni e Ambiente Costruito, Politecnico di Milano)

WMV1-P30 MTR E PEF: novità, scadenze, tooL / Pasquale Lepore (direttore tecnico Officine Sostenibili srl ed Excogito società di ingegneria, componente direttivo PAYT Italia)

WMV1-P31 Troppi ostacoli alla circular economy: per realizzare il PNRR serve un cambio di mentalità / Alessandro Kiniger (B&P Avvocati)

WMV1-P32 Sustainable roads – revamping of asphalt production plants for the compliance to "Circular Economy Package" and "PAN GPP" requirements. / Claudia B. Mosangini, Roger M. Midence, (Ecosurvey®, Bologna), Christian Fontana (Dipartimento di Ingegneria Industriale, Università di Padova)

WMV1-P33 Sistema di Accumulo Energetico Urbano Integrato per Smart City e Mobilità elettrica./ Antonio Caloro (Environ Governance)

WMV1-P34 The circular economy, monitoring and control / Jani Hautaluoma (LNG & Renewable gas, Senior Business Manager, Valmet Automation Inc.)

WMV1-P35 La valorizzazione energetica del rifiuto – l'impianto del COGESA S.p.A. / Stefano Margani, Davide Amadio, Paola Di Iorio, Federica Pantano, Fabrizio Santini (COGESA S.p.A.)

WMV1-P36 Yarrowia lipolytica as a sustainable microbial platform for value added compounds production from Waste Cooking Oils / Antonino Biundo, Mattia Colacicco, Cosetta Ciliberti, Ruggiero Gorgoglione, Gennaro Agrimi, Isabella Pisano (Department of Biosciences, Biotechnology and Biopharmaceutics, University of Bari, Italy)

WMV1-P37 Tecnologie avanzate di upgrading del biogas ai fini della valorizzazione energetica / Cieri V., Zarra T., Belgiorno V., Naddeo V. (Laboratorio di Ingegneria Sanitaria Ambientale (SEED), Dipartimento di Ingegneria Civile, Università degli Studi di Salerno)

WMV1-P38 Efficient enzymatic degradation of poly(ε-caprolactone) by a commercial lipase / Angela Romano, Antonella Rosato, Grazia Totaro, Giulio Zanaroli, Annamaria Celli, Laura Sisti (Dept. of Civil, Chemical, Environmental and Materials Engineering, Alma Mater Studiorum - University of Bologna, Italy)

WMV1-P39 AGRINNOV - Processi di innovazione per la valorizzazione degli scarti e la riduzione dello spreco alimentare / Roberta Scassa (Università Iuav di Venezia), Daniel Collenzini (Università Iuav di Venezia in partnership con Agricom S.r.l.)

WMV1-P40 Technological innovation applied to the production of customized padel rackets / Antonio Grasso, Annamaria Visco (Engineer Department, University of Messina, Institute of polimers and composite biomaterials, CNR-CT), Giuseppe Abramo (KRC, kateneracingcomposite), Michela Gentile, Agata Matarazzo (Department of economics and business-University of Catania)

WMV1-P41 COMPOSER project - Carbon-fiber reinforced cOMPOsites for Sustainable circular Economy models based on Repair and Remanufacturing for Reuse / Eleonora Manarin, Marco Diani, Marcello Colledani, Gianmarco Griffini (Politecnico di Milano)

WMV1-P42 Gli accumulatori elettrici nel settore automotive, gli impatti sull'ambiente e il rischio sull'uomo / Massimiliano Donia (Auditor di Terza Parte IATF e VDA 6.3), Mastrangelo Pasquale, Grazia Trivisonno, Alessia Donia, Nicandro Nardolilli.

WMV1-P43 Waste valorization to replace fossil-based additives in Hot Mixed Asphalts / Valentina Beghetto, Riccardo Samiolo (Crossing Srl)

WMV1-P44 The circular economy, monitoring and control / Jani Hautaluoma (LNG & Renewable gas, Valmet Automation Inc.)

10:00 - 13:00

Ravezzi 2 South Hall

BLUE GROWTH
Event with the European Commission

Transforming plastic litter into new chemicals? Opportunities and challenges for innovative pyrolysis plants - ENGLISH LANGUAGE VERSION

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The workshop will gather innovators, local and ports authorities, legislators and stakeholders, e.g. plastics association and fishers and vessels, to discuss the opportunities offered by pyrolysis plants to convert plastics waste into new chemicals. At the same, time the technical and legislative barriers that hinder the exploitation of this kind of technologies will be addressed.
The workshop will tackle plastics coming from different waste streams, and will specifically focus on the use low temperature pyrolysis plants to treat marine litter.

Section Chairs

Luca Marangoni, Deputy Head of Unit, European Climate, Infrastructure and Environment Executive Agency (CINEA)

Andreea Strachinescu, Head of Unit "Maritime Innovation, Marine Knowledge and Investment", Directorate-General for Maritime Affairs and Fisheries (DG MARE), European Commission

Programme

10.00-10.30 Registrations

10.30-10.35 Welcome message
Luca Marangoni, Deputy Head of Unit at CINEA, European Commission

10.35-10.45 *Sustainable Blue Economy and Marine Litter: where we stand*
Andreea Strachinescu, Head of Unit at DG MARE, European Commission

10.45-11.00 *The case of the EU funded project marGnet*
Gian Claudio Faussone - Sintol s.r.l., Fantina Madricardo - Cnr-ISMAR

11.00-11.15 *The case of the EU funded project LIFE ECOMETHYLAL*
Alberto Barranca Jiménez, AIMPLAS

11.15-11.30 *The case of the port of Moerdijk (NL)*
Jayand Baladie, Port Authority of Moerdijk

11.30-12.30 *Round table discussion on sustainable options for tackling plastics waste, including marine litter: regulatory and market challenges*

Paola Migliorini, European Commission, DG Environment
Laura D'Aprile, Italian Ministry of the Environment
Hervé MILLET, PlasticsEurope
Simona Giovagnoni, ANSEP UNITAM
Ángela Cortina, Fishing Vessels' Owners' Cooperative of the Port of Vigo – ARVI
Rita Sousa, Blue Pioneers
Baptiste Le Clerc, Telos Impact

12.30-12.45 Closure
Luca Marangoni, Deputy Head of Unit, European Climate, Infrastructure and Environment Executive Agency (CINEA)

10:00 - 13:00

Ecomondo Digital Platform

BLUE GROWTH
Event with the European Commission

Transforming plastic litter into new chemicals? Opportunities and challenges for innovative pyrolysis plants - SESSION WITH STREAMING IN ITALIAN LANGUAGE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The workshop will gather innovators, local and ports authorities, legislators and stakeholders, e.g. plastics association and fishers and vessels, to discuss the opportunities offered by pyrolysis plants to convert plastics waste into new chemicals. At the same, time the technical and legislative barriers that hinder the exploitation of this kind of technologies will be addressed.
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12.30-12.45 Closure
Luca Marangoni, Deputy Head of Unit, European Climate, Infrastructure and Environment Executive Agency (CINEA)

10:00 - 13:00

Biobased Industry Room D1 Pav.

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Ecomondo Event

Agrifood post Covid: needs, critical issues and opportunities through the experiences of agri-food companies

Language: Italian

Organized by: Ecomondo Scientific and Technical Committee and National Agrifood Cluster CL.A.N.

The Italian agri-food industry never stopped its activity during the pandemic crisis, showing resilience, flexibility and a sense of responsibility. The sector has once again enhanced its countercyclical qualities, ensuring the availability of food, even in an extremely difficult context caused by overheating demand. Despite this, however, it must be said that the agrifood sector is also not crisis – free and has suffered large losses, mainly due to the closure of the HORECA channel. The need to face the critical issues related to the pandemic, to return to normality as quickly as possible, has highlighted the importance of a unified approach in dealing with the post-Covid restart by all the national stakeholders of the agrifood sector, which is the inspiring principle of the Cluster CL.A.N. itself. The workshop will be an opportunity to illustrate the Position Paper written by CL.A.N. on the critical issues, needs and opportunities of the agrifood sector related to the pandemic and the measures taken by the agrifood businesses to face the crisis both on the internal side (production organization), and on the external one (logistics matters on food supply and delivery), with the involvement of companies from different supply chains. Finally, the event will be an opportunity to illustrate the Three-Years Action Plan submitted to the Ministry of University and Research, as well as the actions undertaken.

Section Chairs

Mauro Fontana (President of CL.A.N. - National Agrifood Cluster)
Paolo Bonaretti (Vice-President of CL.A.N. - National Agrifood Cluster)
Massimo Iannetta (President Scientific and Technical Committee of CL.A.N. - National Agrifood Cluster)

Programme

10.00 Introduction by Mauro Fontana, President CL.A.N. - National Agrifood Cluster

10.10-10.25 The Position Paper of the Cluster CL.A.N. on the critical issues, needs and opportunities of the agri-food sector associated with the Covid emergency
Massimo Iannetta, President Scientific and Technical Committee CL.A.N.

10.25-11.40 Companies experiences: critical issues, needs and opportunities

10.25-10.40 Primary production
Matteo Brunelli, Ortogest – Confagricoltura

10.40-10.55 Dairy value chain
Myriam Rosaria Finocchiaro, Granarolo S.p.A.

10.55-11.10 Fish value chain
Marianna De Benedectis, Bolton Food S.p.A

11.10-11.25 Cereal value chain
Andrea Minisci, Vallefiorita Catering S.r.l.

11.25-11.40 Meat and salumi value chain
Giulio Gherri, ASSICA

Moderator: Paolo Bonaretti, Vicepresident CL.A.N.

11.40-12.20 The updated Three-Years Action Plan and the post-Covid phase

11.40-11.50 Priority 1 "Agrifood Sustainable"
Daniele Rossi, Board Member and Pivot of Priority 1

11.50-12.00 Priority 2 "Agrifood Made in"
Michele Suman, Member Scientific and Technical Committee CL.A.N. and Pivot of Priority 2

12.00-12.10 Priority 3 "Agrifood Healthy"
Patrizia Brigidi, Vice-President Scientific and Technical Committee CL.A.N. and Pivot of Priority 3

12.10-12.20 The action lines of the Three-Years Action Plan
Mauro Fontana, President CL.A.N.

Moderator: Massimo Iannetta, President Scientific and Technical Committee CL.A.N.
Conclusions: Mauro Fontana, President CL.A.N

13.00 Conclusions

10:00 - 13:00

Ravezzi 1 Room South Hall

SYSTEMIC WATER CYCLE MANAGEMENT AND VALORIZATION

Ecomondo Event

Language: Italian

10:00 - 13:30

Monitoring & Control
Room D4 Pav.

MONITORING & CONTROL
Ecomondo Event - Call for Papers

Odor emissions: from abatement technologies to new control strategies

Language: Italian

Organized by: **Ecomondo Scientific Technical Committee, ISPRA, Italian Chemical Society, Division of Environmental Chemistry and Cultural Heritage**

CALL FOR PAPERS

The Ecomondo Odor Emissions conference (at its eleventh edition) is a flagship event for the community of most important industry and academic players. Researchers, Industry, Public administration and Environmental Agencies exchange their different experiences on a topic that is becoming of great relevance in environmental planning. As usual, the workshop will be opened with an update on the work of national and international technical committees on odor regulations. The following are planned: the interventions of the main public research bodies operating in this sector; the presentation of case studies and best practices by public administrations, control agencies and companies that develop technologies on the topic.

Section Chairs
Gianluigi de Gennaro, University of Bari Aldo Moro
Lucia Muto, ISPRA, Institute for Protection and Environmental Research
Gaetano Settimo, National Institute of Health

Program

10.00-10.05 Introduction
Gianluigi de Gennaro, University of Bari "Aldo Moro"

Invited speakers

10.05-10.25 *Innovative Photocatalytic cover for treatment of nuisance*
R.Kelly, SUEZ, Water Technologies & Solutions

10.25-10.40 *Odornet experience*
M.Sileno and G.Marchetti, ARPA Marche

10.40-10.50 *An update on the activities of the technical tables*
T.Zarra, University of Salerno

Presentations selected from the *Call for Papers*

10.50-11.00 *Results of the modeling elaborations carried out for a civil wastewater treatment plant using the two main modeling systems (Calpuff and Aermod) used for the evaluation of olfactory impact on the territory*
L.de Gennaro, M.Cortese, A.Dipalma, F.Dagostino, P.Lagioia, G.Corsini, P.Morisco - Lenviros srl, AQP SpA

11.00-11.10 *Influence of wind speed and temperature on the emission of VOCs from liquid surfaces: experimental study on the characterization of passive areal sources*
F.Tagliaferri, M. Invernizzi, L. Roveda, S. Sironi - Polytechnic University of Milan

11.10-11.20 *New technologies for the chemical characterization of odorous impacts*
A.Filippi, G.Cecchini, A.Frugis, C.Corradi, M.Giannuzzi, M.Spizzirri, L.Merluzzi – Acea SpA (Italian multi-utility group)

11.20-11.30 *Development of a methodology for monitoring odorous impacts in a Citizen environment*
A.Filippi, G.Cecchini, A.Frugis, C.Corradi, G.De Prosperis, M.Spizzirri, L.Merluzzi – Acea SpA (Italian multi-utility group)

11.30-11.40 *The management of odor emissions: the Eni Rewind experience at the Cengio site*
M.Barompriori, D.D'Emilio, G.Bonfedi, GRepoli, M.Zuppini - Eni Rewind S.p.A

11.40-11.50 *Odor monitoring in the CAP Group purifiers: an evolving system*
D.Scaglione - CAP Group

11.50-12.00 *Occupational risk assessment for examiners involved in olfactometric analyzes*
E.Polvara, A.Spinazzè, M.Invernizzi, A.Cattaneo, S.Sironi, D.Cavallo - Politecnico di Milano, Università degli Studi dell'Insubria

12.00-12.10 *Integrated Environmental Authorization: odor monitoring with remotely piloted systems*
R.Borghesi, F.Mauro - ISPRA (Italian Institute for Environmental Protection and Research), Italian Ministry of Health

12.10-12.20 *IOMSartec system for continuous monitoring of odors in complex systems*
G.L. Pittoni, C.Dettori, M. Castellani, D.Carta - SARTEC Srl

12.20-12.30 *Acea Nos - IoT technology at the service of environmental monitoring*
F.Cammillozzi, M.Tesan, G.Varani, G.Cecchini, A.Filippi - Acea Spa (Italian multi-utility group)

12.30-12.40 *Preliminary results of the development of correlation algorithms between olfactometry and multiparametric systems*
L.de Gennaro, M.Cortese, A.Dipalma, A. Acquafredda, F.Dagostino, M.Amodio, F.La Forgia, P.Lagioia, G.Corsini, P.Morisco - Lenviros srl, AQP SpA

F.Monisco - LEnvIRos srl, AQI SpA

12.40-12.50 *New frontiers in the use of IOMS as tools for process control and case studies*
C.Bax, S.Prudenza, B.J.Lotesoriere, L.Capelli - Polytechnic University of Milan

12.50-13.00 *End of life tires: how to dispose of them responsibly*
U. Mazzanti - CRF

13.00-13.20 **Poster Session**

AQ1 *Il problema delle maleodoranze nel comune di Marcianise (CE)*
G.Merola, P.Luongo, A.Danisi - ARPA Campania

AQ2 *Real time monitoring of natural VOCs emissions of vegetable compost, using SIFT-MS*
A.Carretta, M.Campo, A.Romani, T.Vona - SRA Instruments, PHYTOLAB, QuMAP Laboratory, Self-Garden srl

AQ3 *Stazione di monitoraggio intelligente per la valutazione della qualità dell'aria e degli odori*
G.Stani SRA Instruments

AQ4 *Sustainability of culture and culture of sustainability*
C.Lo Schiavo

13.20-13.30 Conclusions

10:00 - 17:15

Ecomondo Digital Platform

BLUE GROWTH
Ecomondo Event

Coastal areas and the climate change challenge – green ports, urban areas, coastal management and adaptation for a sustainable Blue Growth - SESSION WITH STREAMING IN ENGLISH LANGUAGE

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, Italian Ministry of Ecological Transition, ISPRA, TNEC Regions, GNRAC, LEGAMBIENTE

The great development of coastal areas in the last century gave a significant contribution to the economic and social well-being of entire regions and countries. Coastal systems, infrastructures, ports, urban areas, natural areas, are today at the heart of activities related to the sea economy, from marine-coastal tourism to fishing, from maritime transport to trade and the movement of people. But the concentration of settlements and human activities along coastal areas represents in the meantime a major concern today in relation to current climate change and the trend of sea level rise. In this context, in order to pursue the objectives of Blue Growth and seize as an opportunity the challenge of climate change, it is necessary to opportunely change development models, infrastructures design, transformation of coastal urban areas and waterfronts into a logic of adaptation and sustainability, capable on the one hand of contributing to the reduction of climate-altering factors and, on the other hand, to address the effects of climate change in the direction of enhancement of the resilience of coastal systems. The conference intends to give a contribution in shaping the picture of what is already under way in this area and with what perspectives.

Session Chairs

Roberto Montanari, Ecomondo Scientific Technical Committee
Edoardo Zanchini, Legambiente (Italian environmental association)
Massimo Gabellini, ISPRA (Italian Institute for Environmental Protection and Research)
Enzo Pranzini and Lorenzo Cappietti, University of Florence, GNRAC (National Research Group for Coastal Environment issues)

Programme

10.00 Institutional introduction

Ilaria Fontana, State Secretary at the Ministry of Ecological Transition with powers on hydrogeological risk, land use, protection of the marine environment and water resources (TBC)

Irene Priolo, Councilor for the Environment, Soil and Coastal Protection, Civil Protection, of the Emilia-Romagna Region.

10.30 S1 - *Port facilities and "Green Ports": Energy and ecological transition, decarbonisation, sustainable sediment management*

Chair: Edoardo Zanchini, Legambiente

1. The recovery plan and the policies for "Green Ports"
Giuseppe Catalano, mission unit coordinator by the Ministry of Sustainable Infrastructures and Mobility;

2."Green Ports", the route for sustainable development
Cristiana Biondo, Legambiente (Italian environmental association);

3. Perspectives for the energy and ecological transition of large ports
Antonella Querci, Port System Authority of the Northern Tyrrhenian Sea;

4. The Envision Protocol for sustainable infrastructures: characteristics and applications
Lorenzo Orsenigo, President ICMQ;

5. Sustainable sediment management in the ports: application examples of the ejectors' technology.
Maurizio Siepi - Trevi SpA, Marco Pellegrini - Industrial Engineering Department, University of Bologna;

11.40 S2 - *Urban coastal areas: risks and transformation opportunities risks and opportunities for transformation in terms of sustainability and adaptation*

Chair: Massimo Gabellini, ISPRA; Roberto Montanari, Emilia-Romagna Region

1. Sea level along the Italian coasts in future climate scenarios
Gianmaria Sannino, Head of Climate Modelling and Impacts Laboratory, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development);

2. Climate change impact indicators on coastal areas
Francesca Giordano, ISPRA (Italian Institute for Environmental Protection and Research);

3. Strategies in the Urbanistic Plans of the Emilia-Romagna coast for increasing resilience and adaptation to climate change, within the framework of the Regional Law 24/2017
Roberto Gabrielli, Laura Punzo, Graziella Guaragno - Department of Spatial and Urban Planning, Transports and Landscape, Emilia-Romagna Region;

4. The "Rimini Sea Park"
Anna Montini, University of Bologna, former Assessor of Environment Rimini Municipality;

5. Environmental observations and ecologic restoration in a regulated lagoon: the Venezia case study.
Caterina Dabalà CORILA.

13.15-14.30 Lunch break

14.30 S3 - *Coastal management: Strategies and plans for coast adaptation, Mediterranean and international experiences*

Chair: Enzo Pranzini, University of Florence, GNRAC

1. Ecosystem-based management and coastal adaptation, international experiences
Stephen Olsen, Director Emeritus URI Coastal Resources Centre (Rhode Island); (*remote connection)

2. Coastal Areas and management plans in river basins
Maurizio Ferla, Head of the National Centre for Coastal Protection - CNCOS, ISPRA (Italian Institute for Environmental Protection and Research)*;*

3. The Coastal Plan of the Municipality of Lecce
Rita Miglietta, Assessor of Urban Planning Lecce Municipality;

4. The new ICZM Plan of the Marche Region in its first phase of implementation.
Luigi Ditoallevi e Giorgio Filomena, Marche Region;

5. Coastal adaptation plans according to the ICZM Protocol for the Mediterranean
Daria Povh, Croatia PAP/RAC;

15.40 S4 - *Knowledge development: Experiences of interventions and of new methods and new technologies in survey activities on the coastal environment*

Chair: Lorenzo Cappietti, University of Florence, GNRAC

1. Multidisciplinary approaches to the analysis of coastal systems for a coordinated, cross-border management: challenges and results of the project CHANGE WE CARE.
Davide Bonaldo, CNR-ISMAR, for the CHANGE WE CARE Team

2. Integrated methodology in geognostic investigations for the coastal zone management.
Lorenzo Calabrese, Luisa Perini, SGSS Regione Emilia-Romagna – Annamaria Correggiari, Alessandro Remia, ISMAR-CNR

3. Activities of Tuscany Region for the protection of the coast: coastal monitoring and planning.
Gianfranco Boninsegni, Luigi Enrico Cipriani, Marco Masi, Enrica Mori - Regione Toscana

4. Reconstruction of the coastal dune in San Pietro a Mare, Valledoria Municipality.
Mario Deriu, Regione Sardegna

5. Integrated multibeam survey system and laser scanner on boat: characteristics and use in the management of the coastal environment even in the case of exceptional weather and sea events.
Alessio Lanzone, Antonio Lucarelli - Drafinsub Survey Srl (*remote connection)

17.00 Conclusions
Roberto Montanari, Ecomondo Scientific Technical Committee

Interaction with the public: question/answer time at the end of each session

10:00 - 17:15

Reclaim Expo Room C3 Pav.

BLUE GROWTH
Ecomondo Event

Coastal areas and the climate change challenge – green ports, urban areas, coastal management and adaptation for a sustainable Blue Growth - ITALIAN LANGUAGE SESSION

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17.00 Conclusions
Roberto Montanari, Ecomondo Scientific Technical Committee

Interaction with the public: question/answer time at the end of each session

11:00 - 12:00

OTHER PROPOSALS
Workshop

Language: Italian

11:00 - 12:00

OTHER PROPOSALS
Workshop

Language: Italian

11:15 - 13:00

Neri Room South Hall

STATES GENERAL OF THE GREEN ECONOMY
Event

OPENING PLENARY SESSION: Ten years of green economy in Italy. The achievements and the strategic role towards 2030 - ITALIAN LANGUAGE VERSION

Language: Italian
Simultaneous translation: English

The tenth edition of the States General of the Green Economy takes place on the eve of COP26 on climate and coincides with the launch of the National Recovery and Resilience Plan, and, more broadly, with the measures to relaunch the economy after the recession due to the pandemic.The green economy is the driving force of such recovery, which specifically aims to a Green Deal based on a circular and decarbonized economy, able to face the climate crisis and to promote a quality, long-lasting, and resilient development.

The next decade will be crucial to achieve climate neutrality, facing demanding changes in all sectors: energy, industry, transport, agriculture, construction, services.
The progresses of the green economy in Italy over the last decade show that we have the capacity and the potential to turn the challenges of the next decade into opportunities for development, investments, and employment.
The ecological transition and the digitalization should be addressed with an integrated approach. The ecological transition requires demanding measures and adequate resources: it is a unique opportunity what can turn into a great opportunity, to be managed with adequate measures and consistency.

2021 Report on the state of the green economy with a focus on Digitalization for the ecological transition

WELCOME REMARKS:
Lorenzo Cagnoni, President of Italian Exhibition Group

OPENING:
Irene Priolo, Region Councillor for Environment, Emilia-Romagna Region

INTRODUCTION:
Edo Ronchi, National Council for the Green Economy

DISCUSSIONS:
Simona Bonafé, Member of the European Parliament, Vicepresident S&D group
"Fit for 55": the European roadmap and the implementation package

Laura Cozzi, Chief Energy Modeller, International Energy Agency
Global energy scenarios in the World Energy Outlook 2021

CONCLUSIONS:
Roberto Cingolani, Minister for the ecological transition

11:15 - 13:00

Ecomondo Digital Platform

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CONCLUSIONS:
Roberto Cingolani, Minister for the ecological transition

11:30 - 13:00

Noce Room A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

14:00 - 16:00

Noce Room A6 Pav

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

Waste management plants and environmental sustainability: fake news and cognitive bias

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and FISE ASSOAMBIENTE

Communication plays a fundamental role in the relationship between local contexts and the realization of the waste management plants and infrastructures necessary to ensure the collective well-being, or the desire for a general improvement of the service. Effective communication can help citizens to reinterpret reality with greater rationality and awareness, while bad or distorted information is often at the root of misperceptions on the part of citizens-users, also in the field of local public services and specifically in waste management. Considered the importance of the waste management service, recognized as essential public service, how can communication credibility be achieved? What can be the determining elements at the basis of a communication process consistent with the desire to build and maintain trust?

Section Chair

Elisabetta Perrotta, FISE Assoambiente (Association of environmental services companies)

Programme

14.00 Introduction by the Chair

Round Table

14.20 *Information at the time of fake-news and COVID19*
Donato Berardi, REF Ricerche society

14.45 *L'Astrolabio*
Monica Tommasi, AMICI DELLA TERRA (environmental association)

15.00 *Green Book*
Luca Mariotto, UTILITALIA (Italian federation of energy, water and environmental services) (TBC)

15.15 *An environmental communication decalogue*
Sergio Vazzoler, AMAPOLA (communication agency)

15.30 *Plants and dialogue on sustainability. The AMA experience*
Stefano Antonio Zaghis, AMA Sole Director

15.45 Q&A

16.00 Conclusioni
Roberto Cavallo, ERICA

EVENT SPONSOR:
LA FILIPPA
CERTIQUALITY

14:00 - 17:00

OTHER PROPOSALS
Workshop

Language: Italian

14:00 - 17:30

Ecomondo Digital Platform

BEACON CONFERENCES
Ecomondo Event

The BlueMed Pilot healthy plastics-free Mediterranean sea towards the 2030 targets: the strategy developed by the plastic producing and transforming operators of the area - SESSION WITH STREAMING IN ITALIAN LANGUAGE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee, BlueMed GSOs, Federchimica-PlasticsEurope Italia; National Research Council of Italy (CNR)

EU Missions are undertaking actions to face some of the greatest global challenges by setting 2030 targets that includes cleaning marine waters, restoring degraded ecosystems and habitats, decarbonising the blue economy. In the frame of the BlueMed Pilot Action on a Healthy Plastic-free Mediterranean Sea, the wide community of the plastic producing and transforming operators of the area agreed on the urgency to reduce the risk for the environment and human health posed by plastic pollution by developing and implementing a shared vision for plastic in the circular economy. This event, jointly organized by the Euro-Mediterranean Group of 16 Senior Officials of BlueMed Initiative (www.bluemed-initiative.eu) and Federchimica-PlasticsEurope Italia, looks at the solutions adopted for a smarter local use, management and recycling of plastics with a high impact in terms of replication trough the basin and among international governance structures. Object of discussion includes key challenges ensuring a healthy and productive Sea together with the identification of pathways that need to be implemented to obtain measurable results and meet the 2030 targets for a systemic change.

Section chairs
Mario Ceribelli, PlasticsEurope Italia
Sigi Gruber, European Commission
Fabio Trincardi, National Research Council of Italy (CNR)

Programme

14.00 Introduction by the Chairs

14.20 *The Mission: challenges and opportunities for a systemic change*
Elisabetta Balzi, European Commission (tbc)

14.40 *Research and innovation in the recovery and resilience plans: key investments at National and Regional level*
Representative of the Ministry for Ecological Transition (tbc)

15.00 *The BlueMed Pilot: main achievements*
Fabio Fava, BlueMed GSO, Italy

15.15-16.30 *Introducing key priorities for the Mediterranean Plastic Industry*
Mario Ceribelli, PlasticsEurope Italia

Roundtable with PlasticsEurope's Network of Mediterranean associations and policy makers. How good practices become actions.
Cvetanka Todorova - Bulgaria (BAP), Gordana Pehnec Pavlovic - Croatia (HGK), Vullnet Haka - Albania (APKA), Mirspad Jasarspahic - Bosnia and Herzegovina (KFBIH), Ilias Mamalis - Greece (AHPI), Constantin Opran, Romania (ASPAPLAST), Yavuz Eroglu - Turkey (PAGEV), Antonello Ciotti - Italy (COREPLA), Eric Quenet - France (PlasticsEurope France), Alicia Martin - Spain (PlasticsEurope Ibérica), Vojislav Bogdanovic - Serbia (JUPLAS), Mario Ceribelli - PlasticsEurope Italia, Michael Christides - Black Sea Economic Cooperation (BSEC)

16.30-16.40 *From research to solutions: the innovative ecosystem of marine pollution*
Hanna Dijkstra, IVM – Institute for Environmental Studies, Vrije Universiteit

16.40-17.15 *Many languages, one voice: the BlueMed Hackathon to engage the community of young innovators and to boost investments in the blue economy*
Fedra Francocci, CNR-IAS (Institute for the study of anthropogenic impacts and sustainability in the marine environment)

Roundtable with:

- Luca Ballista, Facility Live (*tbc*) – The innovation ecosystem of the Mediterranean makes flourish ideas into business
- The BlueMed Hackathon Winning Teams - Pitch Presentations
- BlueInvest - How to identify the key indicators to meet 2030 targets
- Q&A with the plastic industry and BlueInvestors

17.15-17.30 Discussion and Closure by the Chairs: *Targeting 2030 and beyond*

14:00 - 17:30

Global Water Expo
Room D2 Pav.

SYSTEMIC WATER CYCLE MANAGEMENT AND VALORIZATION
Ecomondo Event - Call for Papers

Successful large-scale applications of systemic planning, risk-assessment and safety planning in water use and reuse (including climate change and biodiversity)

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, University of Bologna, Polytechnic University of Marche, UTILITALIA and Italian Institute of Health, PRIMA FIT4REUSE, H2020 Digital Water City, H2020 ULTIMATE, H2020 HYDROUSA

CALL FOR PAPERS

The Sustainable Development Goals on water, energy, food and biodiversity sit at the heart of the Agenda 2030. Higher sustainability and circularity of water management call for systemic cross-sectoral collaboration and risk-based approach. Water-Energy-Food-Ecosystem nexus should drive decisions to overcome the current silo-driven disproportionate use. From regional planning to practical case studies the workshop will address those issues focusing on large-scale planning of sustainable and safe water use and reuse, including digital systems for monitoring and real data analysis, early warning and decision support systems and risk management plans for water reuse for irrigation. The nexus between water treatment and reuse, energy and environmental footprint, sustainable agricultural production and climate change will also be taken into consideration.

Section Chairs

Attilio Toscano, University of Bologna, Ecomondo Scientific Technical Committee
Lucia Bonadonna, Italian Higher Institute of Health
Francesco Fatone, Marche Polytechnic University, Ecomondo Scientific Technical Committee

Programme

14.00 Introduction by the Chairs

14.05-14.20 *Current status for the development of the guidance on Water Reuse Regulation*
Roberta Maffettone, European Commission – JRC

14.20-14.35 *Planning and innovation projects for agricultural water reuse in Emilia-Romagna*
Attilio Toscano, University of Bologna and PRIMA FIT4REUSE Consortium

14.35-14.50 *A nation-wide study on wastewater treatment and reuse potential in Italy: challenges and possibilities*
Elena Mauro UTILITALIA, Alessandro Di Martino Wastewater commission Coordinator of UTILITALIA (Italian federation of energy, water and environmental services)

14.50-15.05 *Sanitation safety planning and WEFE nexus assessment for water reuse in urban and peri-urban irrigation of Rome and Milano*
Luca Lucentini and Susanna Murtas, Italian Higher Institute of Health and H2020 DWC Consortium

15.05-15.15 Q&A and panel discussion

15.15-15.30 ***From territorial carbon footprint to water reuse and WEFE nexus: regional case studies***
Francesco Fatone, Marche Polytechnic University and Emilio Caporossi, Gruppo HERA

15.30-15.45 ***The role of High Performance Computing and open climate data for climate-proofing water and natural resources management***
Gabriella Scipione, CINECA and CEF Highlander project

15.45-16.00 ***Strategies of the irrigation consortia for a sustainable and smart irrigation water use and reuse within the new EU policies***
Adriano Battilani, ANBI (National association of consortia for the management and protection of the territory and irrigation water)

16.00-16.15 ***Systemic irrigation planning in Italy through integrated computer modeling and monitoring***
Claudio Gandolfi, University of Milano

16.15-16.30 *Microplastic pollution in large lakes and associated urban water infrastructures: mid-term results of EU LIFE BLUE LAKES*
Elisa Scocchera, LEGAMBIENTE (italian environmental association)

16.30-17.25 Presentations selected from the Call for Papers

16.30-16.45 *Digital Twin for Water Management in Smart Agriculture*
Mark Carvalho, Digital Twin Consortium, Co-founder, The Green Alliance International

16.45-16.55 *Numerical Modelling in Acea – From planning to management through innovation*
J. Eusepi, G. Cecchini, A. Filippi, ACEA Elabori SpA

16.55-17.05 *Recovery of adsorbent metarials from sewage sludge to promote water reuse*
Massimo Aiello1, Sandra Vitolo 2,6, Gemma Mannarino 3, Massimo Manobianco4, Francesco Fatone5, Riccardo Gori 3,6, Monica Puccini 2,6 - 1ACEA Ambiente s.r.l., 2University of Pisa, 3University of Florence,

4Ingelia Italia SpA, 5Marche Polytechnic University, 6INSTM Consortium

17.05-17.15 *The metrological verification of water meters as a tool for reducing water losses*
Cecchini.G., Frugis A., Felice E., Raponi F., Cesari A. - Acea Elabori SpA

17.15-17.25 *Waterjade: the hydrological basin Digital Twin*
Matteo Dall'Amico, MobyGIS Srl

17.25-17.30 Q&A and conclusions

Poster Session

Ambiente, acqua, biodiversità e cambiamenti climatici: fattori per realizzare un bilanciamento tra resilienza sostenibile e sostenibilità resiliente
Carlo d'Orta, Comitato Scientifico "Fondazione UniVerde" Università Internazionale per la Pace di Roma (UniPace)

Measurement of water salinity using a capacitively coupled contactless conductivity sensor
Marco Grossi, University of Bologna

Determinazione, analisi e studio di future soluzioni di abbattimento di MPs in drinking water
Gioia.V, Lazzazzara M., Filippi A., Cecchini.G., Frugis A. - ACEA Elabori SpA

The Alliance for Water Stewardship Certification: a sustainable solution to global water management
Beatrice Bizzaro; Eugenio Capponi; Ilaria Troncia; Martina Serangeli - HPC Italia

Water footprint in the Sicilian wine industry
Roberta Munforte, Aurora Caggegi, Carla Serrano - Department of Economics and Business, University of Catania
Rosalba Ruggirello - Donnafugata s.r.l. Soc. Agr.

14:00 - 17:30

Monitoring & Control
Room D4 Pav.

MONITORING & CONTROL
Ecomondo Event - Call for Papers

Indoor air quality is increasingly a challenge for health: what needs to change, how and when

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Higher Institute of Health

CALL FOR PAPERS

There is a lot of talk about indoor air quality, its principles and its role of health prevention and on several occasions. Undoubtedly it represents in this "historical phase" a fundamental issue for its economic implications (see the various bonuses eg eco-bonus 110%), environmental (reduction of polluting emissions for heating / cooling eg community directives and international COP agreements) and health related to the management of indoor environments during the COVID-19 pandemic). The day aims to shed light on the aforementioned implications and illustrate some examples and case studies. Furthermore, with regard to the approved National Prevention Plan (PNP) 2020-2025, draw attention to the objectives contained in order to try to pursue and substantially reduce the exposure of the population.

Section Chairs
Gaetano Settimo, Higher Institute of Health
Gianluigi De Gennaro, University of Bari

Programme

14.00 Introduction

14.20-14.40 *Indoor air and infectious diseases: the role of knowledge*
Luca Fontana, World Health Organization (WHO)

14.40-14.55 *Indoor air quality: The state of the art in Italy and Europe.*
Gaetano Settimo, Coordinator of the GdS Indoor Pollution Institute of Health.

14.55-15.10 *Architectures for Health: how to design healthier environments.*
Stefano Capolongo and Marco Gola, Milan Polytechnic University - Design & Health Lab.

15.10-15.25 *The state of the Ministerial Decree of 1975.*
Daniela D'Alessandro, University of Rome "La Sapienza".

15.25-15.40 *Indoor air: European and international experiences of GBC Italia.*
Marco Caffi, Valentina Marino, Alessandro Speccher, GBC Italy (Green Building Council)

15.40-15.55 *Indoor air quality at the center of the new construction project of the Statte school.*
Mauro De Molfetta, Municipality of Statte.

15.55-16.10 *Indoor air quality in schools: methodological approaches for a correct assessment.*
Pasquale Avino, DiAAA University of Molise; Gaetano Settimo, Higher Institute of Health.

16.10-16.25 *CO2 concentration monitoring inside educational buildings as a strategic tool to reduce the risk of Sars-CoV-2 airborne transmission.*
Gianluigi de Gennaro, University of Bari.

16.25-16.40 *Indoor PM measurements with low-cost sensors: a case-study during COVID-19 emergency.*
Enrico Cozzani, Francesco Suriano, Francesco Riminucci, Consorzio Proambiente S.c.r.l. - Tecnopolo Bologna CNR, Bologna; Franco Belosi, Sara Trabucco, Fabrizio Ravegnani, ISAC-CNR (National Research Council), Bologna; Stefano Zampolli, Antonella Poggi, IMM-CNR (National Research Council), Bologna.

16.40-16.55 *Salubrity of the air and the risk of infection in indoor environments.*
Alessandro Battaglia, Lab Service Analytica.

16.55-17.10 *AIR path - presentation of the disclosure document on indoor air quality prepared by the members of the Clust-ER Greentech*
Katia Ferrari, Clust-ER GREENTECH

17.10-17.30 Discussion and Closure

Poster session

AI-1 *Organic contaminants in hospital interiors.*
Angelo Cecinato, Sapienza Università di Roma, Dipartimento di Chimica, Consiglio Nazionale delle Ricerche, Istituto Inquinamento Atmosferico (CNR-IIA); Marina Cerasa, Mattia Perilli, Catia Balducci, Consiglio Nazionale delle Ricerche, Istituto Inquinamento Atmosferico (CNR-IIA); Alessandro Bacaloni, Sapienza Università di Roma, Dipartimento di Chimica.

AI-2 *Characterization of organic fraction associated to dust of Salerno University interiors.*
Angelo Cecinato, Sapienza Università di Roma, Dipartimento di Chimica, Consiglio Nazionale delle Ricerche, Istituto Inquinamento Atmosferico (CNR-IIA); Alessandro Bacaloni Sapienza Università di Roma, Dipartimento di Chimica; Carlo Crescenzi, Catia Balducci, Consiglio Nazionale delle Ricerche, Istituto Inquinamento Atmosferico (CNR-IIA).

AI-3 *Edifici efficienti: necessaria una "next generation" di soluzioni per la qualità e salubrità dell'aria.*
Jacques Gandini, Gandini S.r.L, Legnago (VR).

AI-4 *Aria indoor: renderla salubre con innovatività.*
Uranio Mazzanti, Organismo di Ricerca CRF - Cooperativa Ricerca Finalizzata.

AI-5 *Nuovi orizzonti nel campo dell'IAQ con la tecnologia di purificazione dell'aria PCO.*
Luca Gatti, CEO - AIR CONTROL S.R.L. Milano.

AI-6 *Monitoraggio dell'aria indoor con sistema AQSafe: analisi e valutazione trasmissibilità dei virus.*
Gianluca Stani, SRA Instruments, Cernusco sul Naviglio (MI).

AI-7 *L'utilizzo degli oli essenziali di origine vegetale per l'azione antivirale-battericida.*
Cascone Marilena, Senecaair.

AI-8 *New analytical technologies for pollutants monitoring from agroforesty biomass combustion.*
Francesco Gallucci, Enrico Paris, Monica Carnevale, Adriano Palma, Beatrice Vincenti: Council for Agricultural Research and Economics, (CREA-IT); Ettore Guerriero, National Research Council of Italy (CNR-IIA); Attilio Tonolo: Ministry of Agricultural, Food and Forestry Policies (MiPAAF).

14:00 - 17:30

Ravezzi 1 Room South Hall

BEACON CONFERENCES
Ecomondo Event

The BlueMed Pilot healthy plastics-free Mediterranean sea towards the 2030 targets: the strategy developed by the plastic producing and transforming operators of the area - ENGLISH LANGUAGE SESSION

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee, BlueMed GSOs, Federchimica-PlasticsEurope Italia; National Research Council of Italy (CNR)

EU Missions are undertaking actions to face some of the greatest global challenges by setting 2030 targets that includes cleaning marine waters, restoring degraded ecosystems and habitats, decarbonising the blue economy. In the frame of the BlueMed Pilot Action on a Healthy Plastic-free Mediterranean Sea, the wide community of the plastic producing and transforming operators of the area agreed on the urgency to reduce the risk for the environment and human health posed by plastic pollution by developing and implementing a shared vision for plastic in the circular economy. This event, jointly organized by the Euro-Mediterranean Group of 16 Senior Officials of BlueMed Initiative (www.bluemed-initiative.eu) and Federchimica-PlasticsEurope Italia, looks at the solutions adopted for a smarter local use, management and recycling of plastics with a high impact in terms of replication trough the basin and among international governance structures. Object of discussion includes key challenges ensuring a healthy and productive Sea together with the identification of pathways that need to be implemented to obtain measurable results and meet the 2030 targets for a systemic change.

Section chairs
Mario Ceribelli, PlasticsEurope Italia
Sigi Gruber, European Commission
Fabio Trincardi, National Research Council of Italy (CNR)

Programme

14.00 Introduction by the Chairs

14.20 *The Mission: challenges and opportunities for a systemic change*
Elisabetta Balzi, European Commission (tbc)

14.40 *Research and innovation in the recovery and resilience plans: key investments at National and Regional level*
Representative of the Ministry for Ecological Transition (tbc)

15.00 *The BlueMed Pilot: main achievements*
Fabio Fava, BlueMed GSO, Italy

15.15-16.30 *Introducing key priorities for the Mediterranean Plastic Industry*
Mario Ceribelli, PlasticsEurope Italia

Roundtable with PlasticsEurope's Network of Mediterranean associations and policy makers. How good practices become actions.
Cvetanka Todorova - Bulgaria (BAP), Gordana Pehnec Pavlovic - Croatia (HGK), Vullnet Haka - Albania (APKA), Mirspad Jasarspahic - Bosnia and Herzegovina (KFBIH), Ilias Mamalis - Greece (AHPI), Constantin Opran, Romania (ASPAPLAST), Yavuz Eroglu - Turkey (PAGEV), Antonello Ciotti - Italy (COREPLA), Eric Quenet - France (PlasticsEurope France), Alicia Martin - Spain (PlasticsEurope Ibérica), Vojislav Bogdanovic - Serbia (JUPLAS), Mario Ceribelli - PlasticsEurope Italia, Michael Christides - Black Sea Economic Cooperation (BSEC)

16.30-16.40 *From research to solutions: the innovative ecosystem of marine pollution*
Hanna Dijkstra, IVM – Institute for Environmental Studies, Vrije Universiteit

16.40-17.15 *Many languages, one voice: the BlueMed Hackathon to engage the community of young innovators and to boost investments in the blue economy*
Fedra Francocci, CNR-IAS (Institute for the study of anthropogenic impacts and sustainability in the marine environment)

Roundtable with:

- Luca Ballista, Facility Live (*tbc*) – The innovation ecosystem of the Mediterranean makes flourish ideas into business
- The BlueMed Hackathon Winning Teams - Pitch Presentations
- BlueInvest - How to identify the key indicators to meet 2030 targets
- Q&A with the plastic industry and BlueInvestors

17.15-17.30 Discussion and Closure by the Chairs: *Targeting 2030 and beyond*

14:00 - 17:30

Biobased Industry Room D1 Pav.

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Ecomondo Event - Call for Papers

European targets of climate neutrality: policies and resources for a competitive and sustainable agrifood supply chain

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Confagricoltura, Federalimentare, Enea

CALL FOR PAPERS

The European Union has presented an overall action plan to implement the objectives of the Green Deal and aims to achieve climate neutrality by 2050. The reduction of the environmental impact is fixing for all the actors of the agrifood supply chain objectives and challenges to which it will be not easy to respond. These include the reduction of greenhouse gas emissions, the promotion of energy efficiency and innovative technologies with low CO2 emissions (the so-called decarbonisation). In addition, the Member States are also outlining national strategies that identify possible paths to reach a condition of "climate neutrality", in which residual greenhouse gas emissions will be offset by the absorption/capture of CO2 and by the possible use of forms of geological storage as well as CO2 reuse. The realization of these objectives cannot be separated from the support from the European and national authorities through financing and facilitating measures that can really support the necessary investments requested to the operators of the agrifood supply chain.

Section chairs
Donato Rotundo, Confagricoltura - General Confederation of Italian Agriculture
Maurizio Notarfonso, Federalimentare - Italian Food & Drink Industry Federation
Massimo Iannetta, Enea - Italian National Agency for New Technologies, Energy and Sustainable Economic Development

Programme

14.00-14.20 Welcome and opening speech: *The decarbonisation in the agrifood supply chain*
Massimo Iannetta, Enea

14.20-14.40 Christian Holzleitner, Head of Unit, DG CLIMA - Unit C3 – Land Use and Finance for Innovation

14.40-15.10 Giuseppe Blasi, Italian Ministry of Agricultural, Food and Forestry Policies

15.10-15.30 Andrea Tilche, Representative of the Italian Ministry for the Ecological Transition

15.30-16.30 Business case study
Giuseppe Pulina, University of Sassari
Michele Pisante, University of Teramo
Competitive and Sustainable agricultural and food industry supply chains

16-30-17.00 Half an hour with: interview to Mr. Massimiliano Giansanti (President of Confagricoltura) and to Mr. Ivano Vacondio (President of Federalimentare)

17.00-17.30 Call for papers

CO2 capture for resale on the food and healthcare market
CAVIRO EXTRA S.p.A.

Recycling agrifood waste for bioplastic production
Valentina Beghetto, Riccardo Samiolo - Crossing Srl

Directing Agriculture Towards Local Sustainability and Decarbonization
Enrica Bargiacchi1, Flavio Manenti1,2, Nelson Marmiroli1,3, Elena Maestri1,3, Fabio Rossi4, Massimo Aiello5, Sergio Miele1
1 Consortium INSTM; 2 Politecnico di Milano; 3 Univ. di Parma; 4 Fattoria Autonoma Tabacchi, Città di Castello; 5 Acea Ambiente Srl

A dygital crypto asset based on Ecological Footprint to achieve carbon neutrality
Stefania Amato, Agata Matarazzo, UNICT

Green soil bioremediation strategies for better water, fertilizer and pesticide management
FERTILIAS.
I.Vassura, D.Fabbri, A.G.Rombolà, Università degli studi di Bologna; N.Marmiroli, E.Maestri, M.Errani, Consorzio Interuniversitario Nazionale per le Scienze Ambientali, Parma; R.Reggiani, M.Marchini, S.Cornali, Azienda Agraria Sperimentale Stuard S.C.R.L. Parma.

Too Good To Go, the app against food waste
Ilaria Ricotti, PR Manager

17.30 Closing remarks

Poster session

Ambiente, acqua, biodiversità e cambiamenti climatlci: fattori per realizzare un bilanciamento tra resilienza sostenibile e sostenibilità resiliente.
Carlo d'Orta Comitato Scientifico "Fondazione UniVerde" Università Internazionale per la Pace di Roma

Carlo d'Orta Comitato Scientifico "Fondazione Univerde" Università Internazionale per la Pace di Roma (UniPace)

Tenebrio molitor as a new promising alternative in the production of feed and food
Simona Errico1, Anna Spagnoletta1, Stefania Moliterni1, Salvatore Dimatteo1, Alessandra Verardi1, Paola Sangiorgio1, Ferdinando Baldacchino1, Roberto Balducchi1 - 1 ENEA - Centro Ricerche Trisaia

Mercati locali di qualità e applicazioni di economia circolare
Marino Cavallo, responsabile Ricerca e Innovazione Progetti europei della Città Metropolitana di Bologna e coordinatore di Progetti Interreg EU nell'ambito dell'agrofood e dell'agricoltura e turismo sostenibile

Finanza etica e sostenibile a sostegno della filiera agroalimentare
Giovanni Moccia - (Presidente centro studi di ricerche economiche e sociali mondi sostenibili)

BIOBESTicide: BIO-Based pESTicides production for sustainable agriculture
Patrizia Circelli, Ciaotech

FARMŸNG: FlAgship demonstration of industrial scale production of nutrient Resources from Mealworms to develop a bioeconomY new Generation
Anna Franciosini, Patrizia Circelli, Ciaotech srl (PNO Group)

Comunicare gli impegni climatici della filiera: lo strumento Carbon Footprint Italy
Daniele Pernigotti, CEO di Aequilibria Srl - SB

Application of SOStain to wine sector in Sicily as sustainability management tool
Tresia Mancuso (1) - Sergio Arfo' (1) - Marco Di Mauro (1) - Agata Matarazzo (1) - Antonio Paolo Froio (2) (1) Department Economics And Business- Univesity Of Catania (2) Principi Di Butera

La disinfestazione "circolare" degli allevamenti avicoli mediante il calore ottenuto da biometano
Paolo Guerra, Evoluzione Servizi Luca Bernasconi,Generalzoo- EWE Chiara Montanari, Evoluzione Servizi

Innovative processes for the production of monomeric sugars from cardoon roots under mild conditions.
Federico Liuzzi; Egidio Viola; Vito Valerio and Isabella De Bari; ENEA - Laboratorio di bioraffinerie - Centro Ricerche Trisaia (MT) – Italy

A biorefinery process to converting wheat straw into fine chemical products through oleaginous
Antonio Caporusso, Roberto Albergo, Federico Liuzzi, Vito Valerio, Isabella De Bari, Angela Capece

14:00 - 18:00

Rovere Room 1st floor C6 Pav

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Workshop

14:30 - 15:30

OTHER PROPOSALS
Workshop

Language: Italian

14:30 - 16:15

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

14:30 - 16:30

Diotallevi 1 Room South Hall

BEACON CONFERENCES
Ecomondo Event

"Net-zero": how to achieve it?

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and ItaSIF, in collaboration with WWF and Eurosif

An increasing number of companies and investors are openly committing to cut their emissions by 2050 reaching "net zero" targets. The achievement of this goal is necessary to align the economy to the EU Green Deal and Paris Agreement scenarios. Now, the main challenge is to create effective strategies and set realistic and measurable intermediate targets.
Which are the tools and strategies that financial actors can use to contribute to climate change mitigation by aligning investment and financing policies to net-zero targets?

The Italian Sustainable Investment Forum (ItaSIF) organized an in-depth path for its members aimed at: 1) creating an opportunity to discuss and share experiences and good practices; 2) identifying strategies and concrete actions to align investment portfolios to net-zero targets.
At the end it has been produced a position paper, to be presented within the event, with the aim to provide concrete guidelines to investors willing to integrate the "net-zero" targets into their investment policies.

Section Chair
Francesco Bicciato, Secretary General, ItaSIF - Italian Sustainable Investment Forum

Programme

14.30-14.35 Introduction by the Chair

14.35-14.45 *Sustainable finance to the "net-zero" test: Presentation of the paper*
Arianna Lovera, Senior Programme Officer, ItaSIF - Italian Sustainable Investment Forum

14.45-15.10 *Keynote speech*
Marco Dri, Climate change Specialist, European Investment Bank

15.10-16.10 *Roundtable: How to make the "net-zero" goal concrete and achievable?*
Moderated by: Ferdinando Cotugno, journalist, Domani

With the partecipation of:
Daniela Bernacchi, Secretary General, UN Global Compact Network Italy
Federica Casarsa, Policy Officer, Eurosif - European Sustainable Investment Forum
Matteo Leonardi, Co-founder, ECCO Climate Network
Mariagrazia Midulla, Climate and Energy Manager, WWF Italy
Gianfrancesco Rizzuti, Chief Operating Officer & Head of Communication, FeBAF - The Italian Banking, Insurance and Finance Federation

16.10-16.25 Debate

16.25-16.30 Discussion and closure by the Chair

14:30 - 16:30

Cedro Room West Hall

OTHER PROPOSALS
Workshop

Language: Italian

14:30 - 17:30

Ravezzi 2 South Hall

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

The role of the national waste management program in the ecological transition

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Utilitalia

The achievement of national target on waste management has always come to terms with a waste planning declined at a regional level and with the difficulty in intervening – in a timely and effective manner – where delays encountered at the regional level risk jeopardizing the achievement of national targets. The national decree 116/2020, in addition to adopting recycling and reduction objectives of landfilling of municipal waste (to be achieved by 2035), introduced a new important tool: the National Waste Management Program (NWMP). Through the comparison between the main institutions involved in the definition and implementation of the NWMP, the environmental associations and the operators of waste management, the conference will try to analyze the potential of this tool. Methodological proposals will also be put forward to make the most of a fundamental opportunity to definitively overcome the structural criticalities that characterize the national waste management system, and promote the industrial development of the sector, only through which will be possible a transition to a circular and sustainable economy.

Section Chair
Rosanna Laraia, Ecomondo Scientific Technical Committee

Programme

14.30 Introduction and coordination by the Chair
Rosanna Laraia, Ecomondo Scientific Technical Committee

Alessandro Bratti, General Director of Italian Institute for Environmental Protection and Research
Ilde Gaudiello, Directorate-General for the Circular Economy, Italian Ministry for Ecological Transition
Stefano Vignaroli, President of the Parliamentary Commission of Inquiry on illegal activities related to the waste cycle
Monia Monni, Councillor for the Environment Tuscany Region
Giacomo Raul Giampedrone, Councillor for the Environment Liguria Region (TBC)
Nicola Ciolini, President of Alia S.p.A.
Pietro Pongiglione, President of AMIU Genova

16.15 Round Table
Stefano Ciafani, President of Legambiente (italian environmental association)
Marco Ravazzolo, Head of Environment Area of Confindustria (General Confederation of Italian Industry)
Chicco Testa, President of Fise Assoambiente (Association of environmental services companies)
Filippo Brandolini, Vice President of Utilitalia (Italian federation of energy, water and environmental services)

17.00 Conclusions by the Chair

15:00 - 16:00

OTHER PROPOSALS
Workshop

Language: Italian

15:00 - 16:30

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

Language: Italian

15:00 - 18:00

Agorà City&Mobility
Pav.D7

STATES GENERAL OF THE GREEN ECONOMY
Event

FOCUS THEMATIC SESSION: Climate neutrality in Green Cities

Language: Italian

In collaboration with the Green City Network

MODERATOR:
Anna Parasacchi, Coordinator, Green City Network

Presentation of the Report on Cities towards climate neutrality:

Fabrizio Tucci, Coordinator of the Green City Network International Experts Group and Coordinator of the PDTA Doctorate, "Sapienza" University of Rome

Panel discussion:

Barbara Floridia, Under Secretary of State for Education
Oliviero Montanaro, Director General, Minister for the ecological transition (TBC)
Stefano Laporta, President, ISPRA

Presentation of the project "Clever Cities" | Politecnico di Milano - WWF:

Eugenio Morello, Politecnico di Milano

Contribution from cities on the initiatives towards climate neutrality:

Città di Glasgow, Paola Pasino, Principal Officer, City Centre Regeneration - Glasgow City Council
City of Brescia, Miriam Cominelli, Councillor
City of Livorno, Silvia Viviani, Councillor
City of Milan, Manuela Ojan, Director of the Environmental transition area, AMAT
City of Parma, Federico Pizzarotti, Major and Tiziana Benassi, Councillor

15:00 - 18:00

Neri 2 Room South Hall

STATES GENERAL OF THE GREEN ECONOMY
Event

FOCUS THEMATIC SESSION: The role of green economy for the ecological transition of the Italian agri-food sector

Language: Italian

In collaboration with: CREA and RETE RURALE NAZIONALE

Introduction and moderation:
Giuseppe Dodaro, coordinator for Natural Capital, Ecosystem services and Natural Capital, Sustainable Development Foundation

Panel discussion:

Alessandro Monteleone, CREA
Challenges and opportunities for the ecological transition of the agri-food sector

Massimo Iannetta, Head of Biotechnology and Agro Industry Division, ENEA
The role of bioeconomy for a new competitiveness of agri-food companies

Marco Perona, Scientific Director, Osservatorio Smart AgriFood
Agriculture 4.0: the digitalization of the national agri-food system

Andrea Calori, President, Està
Increasing food sustainability and sustainable consumption: Food Strategies and Food policies

Roundtable:

Moderator:
Roberto Henke, Director Center for political research and bioeconomy, CREA

Coldiretti - Ettore Prandini, President (TBC)
CIA - Pietro Nicolai, Area Agri-food policies and food security
Confagricoltura - Giovanna Parmigiani, member of the Executive Board
LIPU - Federica Luoni, Cambiamo l'Agricoltura
Veneto Region - Franco Contarin, Director Autorità di Gestione PSR 2012-2020, Bonifica e irrigazione
European Commission - Giovanni De Santi, JRC, Commission Knowledge Centre for Bioeconomy (TBC)
Mutti Spa - (TBD)
Confcooperative - Maurizio Gardini, President
Alce Nero - Massimo Monti, CEO

Conclusions:
Stefano Patuanelli, Minister of Agriculture, Food and Forestry (TBC)

15:00 - 18:00

Neri 1 Room South Hall

STATES GENERAL OF THE GREEN ECONOMY
Event

FOCUS THEMATIC SESSION: Three days to COP26: expectations, risks, interests

Language: Italian

In collaboration with Italy for Climate

MODERATOR:
Antonio Cianciullo, Huffington Post journalist and Italy for Climate correspondent from COP26

Introductory session: The challenges of the international climate negotiation

Andrea Barbabella, Italy for Climate
The Italian and international framework on the eve of COP

Team COP26 representative, Video Message (TBD)
Key points at the negotiation table

Mauro Petriccione, DG Climate Action, European Commission (TBC)
The European leadership in the global climate challenge

Workshop: The decarbonization in the economic sectors towards 2030 and the strategic role of companies
There is no one-size-fits-all approach for all sectors: each of them needs a specific roadmap supporting companies to identify their net zero strategies

Nigel Topping, COP26 High-level Climate Champion (TBC)
Companies Race to Zero and 2030 sectorial Breakthrough

TESTIMONIALS:
Maria Paola Chiesi (Chiesi Farmaceutici) industry
Antonello Magliozzi (Arcadis) energy efficiency
Luca Bragoli (Erg) electric generation
Riccardo Piunti (Conou) circular economy
Davide Bollati (Davines) industry
Barbara Gatto (Cna) SMEs
Fabrizia Vigo (Anfia) transport

CONCLUSIONS:
Edo Ronchi, President of the Sustainable Development FoundatioN

16:00 - 18:30

Workshop Room B4 Pav.

WASTE MANAGEMENT AND VALORIZATION
Workshop

Language: Italian

16:15 - 16:30

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

16:30 - 17:15

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

16:30 - 18:30

Noce Room A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

WEDNESDAY 27 OCTOBER

09:00 - 13:00

Cedro Room West Hall

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 11:00

Innovation Arena - South Hall

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Workshop

Language: Italian

09:30 - 11:30

Tiglio Room A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 13:00

Ecomondo Digital Platform

BEACON CONFERENCES
Ecomondo and Key Energy Event

Africa Green Growth - STREAMING IN FRENCH VERSION

Language: English
Simultaneous translation: French

Organized by Res4Africa in cooperation with Ecomondo Scientific Technical Committee, Key Energy Scientific Technical Committee

Agenda

9.30-09.50: *Opening*
Roberto Vigotti, Secretary General of the Res4Africa Foundation

9.50-10.10: *10 years of Renewable Energies in Africa*
RES4Africa, presentation of R4A study

10.10 – 10.30: *African wind energy*
Stefan Gsänger, Secretary General of World Wind Energy Association (WWEA)

RES investment in Africa

10.30-10.50 **Beatrice Cyiza**, Director General, Environment and Climate Change at the Ministry of Environment in Rwanda

10.50-11.10 **H.E Pr. Benattou Ziane**, Minister of Energy Transition and Renewable Energy of Algeria

11.10- 11.25 **H.E Youssef Balla,** Ambassador of the Kingdome of Morocco in Italy

11.25- 11.45 **Dott. Saïd Mouline**, Managing Director of AMEE - Moroccan Agency for Energy Efficiency. *Project presentation: cooperation and investment opportunities in favor of the green and circular economy in Morocco and Africa* in partnership with LeVert, Solar Cluster, Res4Africa Foundation, University of Rome "Tor Vergata", "Legami" Association

11.45-12.00 **H.E. Jackline Yonga**, Ambassador of Kenya in Italy

12.00-12.20 *Micro Grid Academy presentation*
RES4Africa, (live from Nairobi MGA base camp): **The vocational capacity building** project led by RES4Africa Foundation and based in Nairobi, that aims at creating **skilled and conscious workforce** to deploy decentralized renewable energy solutions within and beyond the **East-Africa region**, thus enhancing access to energy in rural communities while strengthening **local enterprises** and **job creation**

12.20-12.40 *The italian priorities and cooperation strategies for the implementation of circular economy in Africa*
Novamont

12.40-13.00 Closure
***Luigi Di Maio**, Italian Ministry for Foreign Affairs (*TBC)

**pending confirmation*

09:30 - 13:00

Neri 1 Room South Hall

STATES GENERAL OF THE GREEN ECONOMY
Event

INTERNATIONAL PLENARY SESSION: Governments and companies towards climate neutrality - ITALIAN LANGUAGE VERSION

Language: Italian
Simultaneous translation: English

MODERATOR:
Raimondo Orsini, Director, Sustainable Development Foundation

OPENING REMARKS:
Luigi Di Maio, Minister for foreign affairs and international cooperation

INTERNATIONAL COMMITMENTS ON THE EVE OF COP26

Francesco La Camera, Director-General, International Renewable Energy Agency
Renewable energies for the decarbonization

Jill Morris, Ambassador of the United Kingdom to Italy
COP 26 and Race to Zero

Jeffrey Sachs, Director, Center for Sustainable Development, Columbia University
USA, China and Europe in the new geo-climate balances

COMPANIES GLOBAL CHALLENGES FOR THE DECARBONIZATION

Introduction: **Roberto Luongo**, Director General, Italian Trade Agency
The value of the "made green in Italy "

The decarbonization in the energy sector

Carlo Tamburi, CEO, Enel Italia
Valentina Bosetti, President, Terna

Circular economy for climate neutrality

Renato Mazzoncini, CEO, A2A
Giuseppe Gola, CEO, Acea
Alessandro Russo, President and CEO, Gruppo CAP

The agrifood sector towards regenerative bioeconomy

Andrea Illy, President, Regenerative Society Foundation and President, illycaffè
Francesco Mutti, CEO, Mutti
SimonPietro Felice, Director General, Caviro

Connection and digitalization: the future of mobility

Lorenzo Radice, Sustainability manager, Ferrovie dello Stato Italiane
Giovanna D'Esposito, General Manager Southern Europe, Uber (TBC)

CONCLUSIONS:
Enrico Giovannini, Minister for infrastructures and sustainable mobilities (TBC)

09:30 - 13:00

Agorà Efficiency pav.B6

BEACON CONFERENCES
Ecomondo and Key Energy Event

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Language: English

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Ecomondo Digital Platform

STATES GENERAL OF THE GREEN ECONOMY
Event

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Simultaneous translation: English

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Lorenzo Radice, Sustainability manager, Ferrovie dello Stato Italiane
Giovanna D'Esposito, General Manager Southern Europe, Uber (TBC)

CONCLUSIONS:
Enrico Giovannini, Minister for infrastructures and sustainable mobilities (TBC)

09:30 - 17:30

Gemini Room C3 Pav.

HYDROGEOLOGICAL RISKS AND DISASTERS PREVENTION AND MANAGEMENT
Ecomondo Event

The contribution of geotechnical engineering for solving environmental problems

Language: Italian

Organized by: Ecomondo Scientific-Technical Committee & Italian Geotechnical Society

In the context of environmental issues such as contaminated sites, landfills or waste materials, geotechnical engineering skills play an essential role in the design and construction of waste disposal by landfills, remediation technologies and reuse of waste materials. The first part of the conference is dedicated to some of the peculiar analyses required for the correct design of landfills and remediation of polluted sites, such as the analysis of contaminant migration, geotechnical stability, and health-environmental risk. The second part concerns the performance of different materials involved in the field of geo-environmental engineering (e.g. barrier materials, reactive materials, dredged sediments, soils from excavations), to highlight their advantages, limits and correct use or treatment, in the light of the most recent scientific developments and application experiences.

Programme

9.30 -10.00 Registration

10.00-10.15 Opening address
Nicola Moraci (IGS - Italian Geotechnical Society *President)*
Daniele Cazzuffi (IGS - Italian Geotechnical Society *President)*

Session 1 Analysis

Chair: Nicola Moraci, IGS

10.15-10.45 General introduction
Erio Pasqualini – Polytechnic University of Marche, Ancona

10.45-11.15 Migration of contaminants in low permeability barriers
Andrea Dominijanni, Polytechnic of Turin

11.15-11.45 Stability analysis in landfills: specific aspects
Ivo Bellezza, Polytechnic University of Marche, Ancona

11.45-12.15 Interface parameters for landfill barrier revetments
Paolo Carrubba, Paolo Pavanello, University of Padua

12.15-12.45 Risk analysis for contaminated sites
Marta Di Sante, Polytechnic University of Marche, Ancona

12.45–13.00 Discussion

Session 2. Materials and related applications

Chair: Daniele Cazzuffi, IGS

14.00-14.15 Introduction

14.15-14.45 Geosynthetic clay layers for capping systems
Francesco Mazzieri, Polytechnic University of Marche, Ancona

14.45-15.15 Cement-bentonite mixes for diaphragm walls
Evelina Fratalocchi, Polytechnic University of Marche, Ancona

15.15-15.45 Reactive permeable barriers to reduce groundwater contamination
Stefania Bilardi, Nicola Moraci, Mediterranean University of Reggio Calabria

15.45-16.15 Environmental protection and remediation of polluted sites with active geocomposites
Alberto Simini, Huesker, Trieste

16.15-16.45 Consolidation of dredged sediments in port area
Mirko Felici, Polytechnic University of Marche, Ancona

16.45-17.30 Discussion and Closure
Daniele Cazzuffi (CESI SpA, Milano)

10:00 - 11:45

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

10:00 - 12:00

OTHER PROPOSALS
Workshop

Language: Italian

10:00 - 13:00

Ravezzi 2 South Hall

STAKEHOLDER EVENTS IN COOPERATION WITH THE EUROPEAN COMMISSION

Event with the European Commission

Boosting SME investments for a blue and green economy - ENGLISH LANGUAGE SESSION

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The event will launch the newly started SME-grants funded by the European Maritime and Fisheries Fund (EMFF). The new set of projects is featuring sustainable blue economy sectors including algae and aquaculture, green transport and offshore renewable energy, and data and underwater technology. The projects will shortly present their concept, products and expected impacts in relation to the EU Green Deal, circular economy, and digitalization, a Q&A session will allow participants to interact with the project coordinators and speakers.

Session Chairs

Luca Marangoni, Deputy Head of Unit, European Climate, Infrastructure and Environment Executive Agency (CINEA)

Programme

10.00-10.10 Introduction by the Chair

10.10-10.25 **Setting the Scene For Blue Economy SMEs**

Policy context – EMFF SME grants for the sustainable blue economy
Felix Leinemann, Head of Unit, Blue Economy Sectors, Aquaculture and Maritime Spatial Planning, Directorate-General for Maritime Affairs and Fisheries, European Commission

BLUEINVEST Platform
Daniela Cedola, Consulting Director, PwC

10.25-12.45 **Thematic sessions to give the projects the possibility to shortly present their projects**

10.25-11.10 ***Blue bioeconomy, algae and aquaculture***

ULVAFARM: Large scale sea cultivation of green seaweed
Simon Johansson, Nordic Seafarm, Sweden

KELP-EU: An innovative, sector-leading seaweed biorefinery - enabling the European blue circular economy
Charles Bavington, OCEANIUM, UK

ALGAENAUTS: Eco-friendly and sustainable new family of biopesticides based on microalgae via circular economy approach
Joaquin Pozo Dengra, BIORIZON BIOTECH, Spain

SEAFOODALGTERNATIVE: Fish substitute from algae to preserve marine wildlife and develop algaculture
Jean-Paul Cadoret and Alvyn Severien, ALGAMA, France

AQUAPEKILO: Replacing soy with Pekilo protein in aquafeed
Joosu Kuivanen, ENIFERBIO, Finland

Questions and Answers

11.10-11.20 Coffee break

11.20 ***Decarbonisation and digital ocean: green transport and offshore renewable energy***

WINNEW: The new wind propulsion technology to lead the shipping industry's shift towards a blue economy
Karim Eido and Giorgio Provinciali, AYRO, France

SEAWING4BLUE: The automated wing to power ships, providing 20% of fuel savings and emissions reduction
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TECOW: Transition to Emission-free Commuting on Waterways
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ESENSE: breakthrough electromagnetics detection, navigation and characterization
Gary Bagot and Pierre Tuffigo, ELWAVE, France

CO2CONTROL: collaborative platform for shipping container operations to take control of CO2 emissions by route optimisation
Pierre Garreau and Geoffroy Willaume

Questions and Answers

12.20-13.00 Q&As

13.00 Closure (by the chairs)

10:00 - 13:00

Ecomondo Digital Platform

BEACON CONFERENCES
Ecomondo Event

European Horizon2020 systemic actions for water-smart circular cities, regions and industries - SESSION WITH STREAMING IN ITALIAN LANGUAGE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee (CTS) and Water Europe

Water is transversal in systemic strategies for circular transition and sustainable development of cities, regions, industries and communities. Green, grey and digital solutions, combined with proper governance and business approaches are being developed in Horizon2020 Innovation Actions and can make a crucial socio-economic impact towards the Green Deal objectives. This workshop will bring together major local and territorial innovative case studies and deliver a platform of experience to promote living lab approaches.

Section Chairs

Evdokia Achilleos, European Commission – European Research Executive Agency – Head of Sector B3.002 - Green Europe - Biodiversity, Circular Economy and Environment
Andrea Rubini, Ecomondo's Scientific Technical Committee and Water Europe
Francesco Fatone, Ecomondo's Scientific Technical Committee and Marche Polytechnic University

Programme

10.00-10.30 *Water in Horizon 2020, Horizon Europe and National Initiatives: lessons learnt, aligning programs and synergizing efforts*

Focus on Horizon Europe - Evdokia Achilleos, European Commission
Focus on Water JPI - Giuseppina Monacelli, Chair Water JPI
Focus on Water4All - Maria Chiara Sole, Italian representative in Water4All, ISPRA

BUILDING ON RESULTS OF ONGOING PROJECTS:

10.30-11.00 *Digital Transition in Water-Smart Cities: Digital-Water City*
Chair Nicolas Caradot, Berlin Competence for Water, Germany – Project Coordinator

Contributions from case studies:

MILANO - Play with serious game and matchmaking tool
Marco Bernardi, Claudio Gandolfi, Serena Radini, Enrico Marinelli and Adriano Mancini – Gruppo CAP, UNIMI and UNIVPM

PARIS - SIAAP - Demo of Early Warning System for bathing water
Sofia Housni, Sanitation for Greater Paris SIAAP

11.05-11.20 *Circular integration of regional water and waste services: BBI CIRCULAR BIOCARBON flagship*
Natalia Alfaro Borjabad URBASER, Spain – Project Coordinator

11.20-11.30 Break

11.30-12.05 *Circular Transition in small and decentralized communities: HYDROUSA*
Costas Noutsopulos, National Technical University of Athens, Greece – Project Coordinator

Contributions from case studies:

LESVOS island
Fabio Masi, IRIDRA, Italy

TINOS island
Nikos Bedau, Tinos Eco Lodge, Greece
Alessandro Zecca, Planet, Italy

MYKONOS island
Antonios Eleftheriou, Delaros, Greece

Replication of Hydrousa circular solutions
Camillo Palermo and Giulia Cipolletta, ASA and UNIVPM, Italy

Financial Instruments and business models
Eric Mino, SEMIDE, France

12.05-12.35 *Circular Transitions in industrialized regions: NextGen and ULTIMATE and AquaSPICE*
Gerard van den Berg and Jos Frijns Water Research Institute KWR, Netherlands – project coordinator

ROSIGNANO case – ULTMATE and AquaSPICE
Michele Del Corso and Mattia Ciampechini, ARETUSA, Italy
Giovanni Cannata, WEST Systems, Italy
Cecilia Bruni, Università Politecnica delle Marche, Italy
Francesco Rossi, Consorzio Polo Tecnologico Magona, Italy

Lorenzo Bagnoni e Gianluca Pettinello, SOLVAY, Italy

12.35-12.50 *Water-smart coastal regions: B-WaterSmart. General overview and Venice case*
Patrizia Ragazzo, VERITAS, Italy

12.50 Wrap up, conclusions and plans for follow-up
Evdokia Achilleos, European Commission

10:00 - 13:00

Global Water Expo
Room D2 Pav.

BEACON CONFERENCES
Ecomondo Event

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Programme

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Questions and Answers

12.20-13.00 Q&As

13.00 Closure (by the chairs)

10:00 - 13:00

Biobased Industry Room D1 Pav.

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Ecomondo Event - Call for Papers

Biowaste: XXIII Conference on Composting and Anaerobic Digestion. Plenary Session

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and CIC - Italian Composting and Biogas Association, ISPRA - Italian Institute for Environmental Protection and Research, ECN - European Compost Network

The plenary session will review the collection and recycling of organic waste in Europe and Italy. The topic of PNRR, the National Recovery and Resilience Program, will also be addressed, in light of the evolution of the sector and of the expenditure items "open to the sector" at the government level. In addition, a few weeks after the approval of MTR2 by Arera, the issue of regulation will be addressed with the related opportunities and / or criticalities of a system that changes the rules of organic recycling.

Session Chair

Flavio Bizzoni, Chair of CIC - Italian Composting and Biogas Association

Programme

10.00-10.10 Opening session
Flavio Bizzoni, Chair of CIC

10.10-10.30 *The state of the art of Biowaste in Europa, the action of European Compost Network (ECN)*
Stefanie Siebert, ECN Director

10.30-10.50 *The circular economy of the Biowaste between Recovery and Resilience*
Massimo Centemero, CIC

10.50-11.10 *The italian biowaste sector referred to european target*
Andrea Lanz, ISPRA

11.10-11.30 G. Ghiringhelli*, E. Amodeo*; G. Sbarbaro**, P. Pagani**, M. Signorini**,
The effect on tax fee of new regulation system made by Arera
*ARS ambiente Srl, **UTILITEAM Co. Srl

11.30-12.30 *Hearing the companies*
Utilitalia (Italian federation of energy, water and environmental services) (TBD)
Fise Assoambiente (Italian Association of environmental services) (TBD)

12.30-13.00 Discussion and closure

10:00 - 13:30

Noce Room A6 Pav

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event- Call for Papers

The contribution and potential of Industrial Symbiosis for the ecological transition

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, ENEA and SUN (Symbiosis Users Network)

CALL FOR PAPERS

The ecological transition placed at the center of the Italian government agenda requires the redesign of production processes, distribution systems and consumption models. In this context, it is essential that the country-system is able to promote and encourage methodological and technological innovation through the systemic implementation of industrial symbiosis along the value chain and among value chains. The event aims to be an opportunity to discuss concrete cases of industrial symbiosis (with details of the operational, procedural, economic and environmental aspects, also with reference to the potential for decarbonisation), on technical and / or operational standards and on the tools to support both implementation and investments for industrial symbiosis.

Section Chairs

Laura Cutaia, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) – SUN (Symbiosis Users Network) President
Andrea Vignali, Presa Diretta Journalist

Program

10.00-10.10 Introduction

10.10-11.00 Invited speakers

Laura D'Aprile, Head of the Department for Ecological Transition and Green Investments - Ministry for Ecological Transition
Paola Migliorini, Deputy Head of Unit, European Commission, DG Environment, Sustainable Production, Products and Consumption
Marco Conte, Deputy Secretary General of the Circular Economy and Environment Area - Unioncamere (Italian Union of Chambers of Commerce, Industry, Handicrafts and Agriculture)
Marco Ravazzolo, Responsible for Environment and Energy - Industrial policies and sustainability area - Confindustria (General Confederation of Italian Industry)
Enrica Maria Martino, Projects and Tools Area, Infrastructure and Environment Office - Territorial Cohesion Agency

11.00-12.20 Presentations from Call for papers

What prevents the adoption of large-scale industrial symbiosis in Italy?
Luca Fraccascia, University of Rome "La Sapienza"

The symbiosis between water service and waste management
Alessandro Reginato, CAP Group

Industrial symbiosis techniques applied to the waste management of the Sicilian olive growing chain
Rosaria Raciti, University of Catania

Cartoneco, the Ecologically Equipped Production Area that gives life to cardboard
APEA CARTONECO - "Green Lazio Region"

The industrial symbiosis activities within the CREIAMO project. Preliminary results
Emanuela De Marco, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

Available tools and methodologies for the sustainability assessment in production
Davide Don, Fraunhofer Italia IEC

How digitalization can foster collaborative processes for waste management with a view to circular economy
Simone Grasso, CYRKL Zdrojova platforma

Blockchain technology to drive industrial symbiosis within circular supply chain management
Valentina Ventura, University of Bologna

12.20-12.50 **Pitch – Case studies**

4.0 Industry Technologies and Industrial Symbiosis: state of the art and recent developments
Sara Pelusi, University of Chieti-Pescara "G. d'Annunzio"

The paths of symbiosis and territorial synergies that respond to the fundamental principle of sustainability based on local vocations. This is Eni's contribution to the ecological transition
Michele Viglianisi, ENI

Hydrogen for the transition of the process industry
Barbara Valenzano, Puglia Region

The Biosphere and Saturn projects - two examples of material recovery
Paola Zitella, Environment Park

White slag from electric furnace steel mills: new uses and perspectives
Paolo Plescia, Resilco

PoplyHouse. The poplar plywood constructions
Lorena Alessio, LorenaAlessioArchitetti

Recovery of carbon fiber
Emanuel Zamagni, Gruppo Hera

12.50-13.00 Discussion and closure

Poster Session

SUN – P1 *Recovery of alkaline waste with carbon-free clinker production and CO2 Carbon Capture and Storage*
Paolo Plescia*, Ivana Moscato**, David Callejo Munoz*; *Resilco, **B1Shop

SUN – P2 *Costruzione di un database aziendale allo scopo di supportare la simbiosi industriale*
Giacomo Lo Coco*, Elza Bontempi*, Ivana Moscato**; Università degli Studi di Brescia, **Resilco

SUN – P3 *Il contributo di Innio Jenbacher alla filiera dell'idrogeno*
Andrea Pivatello, Klaus Payrhuber; Innio Jenbach - Austria

SUN – P4 *Analisi delle sinergie di simbiosi industriale riguardi la scoria siderurgica nelle aree industriali*
A. Gobetti*, G. Cornacchia*, M. La Monica**, G. Ramorino*; *Università degli studi di Brescia; **ENEA

SUN – P5 *Fuel cells: a clean and high efficiency solution for the bulding sector*
M. Gandiglio; Politecnico di Torino

SUN – P6 *Ponticelle: dal risanamento alla riqualificazione di un'ex area industriale*
Giuliano Romano; Eni Rewind

SUN – P7 *L'eco-distretto industriale: un nuovo modello organizzativo*
Giancarlo Longhi; Smart City Group

SUN – P8 *PHOENIX-P2G: Tecnologie avanzate per riconversione dell'anidride carbonica in biometano*
G. Tassinato*, C. Cavinato**, M. Turatello**, P. Scanferla**, M. Vania***, W. Giacopini***, M. Corò****; Veritas spa (Venezia); **Fondazione Università Ca' Foscari; ***RCV Vania Impianti; ****Giammarco Vetrocoke Eng

SUN – P9 *Il ruolo del cittadino nella simbiosi industriale: la carta del consumo circolare*
Alessandro Barghini, Teresita Valentini; ENI

SUN – P10 *Simbiosi Industriale: un approccio ottimo per la valutazione integrata economico-ambientale*
Sara Sciroccale*, Cristina Mora*, Marco Bortolini*, Tiziana Beltrani**, Laura Cutaia**; *Università di Bologna; **ENEA

SUN – P11 *La nuova frontiera del HVO, un biocombustibile liquido da materie prime sostenibili e da rifiuti*
Silvia Scanu; Saras Ricerche E Tecnologie

10:00 - 13:30

Ecomondo Digital Platform

BLUE GROWTH
Ecomondo Event

Italian Recovery Plan and blue circular economy - SESSION WITH STREAMING IN ENGLISH SESSION

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, CNR, Italian Ministry of Economic Development, Cluster BIG

The Conference aims to continue from previous Ecomondo's Editions the discussion on the challenges and opportunities of circular economy in several sectors of sea economy. Circularity principles at the base of the Circular Economy Package are very relevant in the context of the EU Green Deal, as they must be reflected in national strategies (e.g. BIT II - A new Bioeconomy strategy for a sustainable Italy; Italian Recovery Plan (PNRR - Piano Nazionale di Ripresa e Resilienza)). Following some keynote presentations on key trajectories of national and Mediterranean relevance, a series of pitches from science, academia, decision makers, private operators will showcase best practices and experiences in different sectors.

Section Chairs

Andrea Barbanti, National Research Council (CNR)
Roberto Cimino, Cluster BIG (Blue Italian Growth) and ENI
Maria Grazia Verdura, Italian Ministry of Economic Development

Programme

10.00 Introduction by the Chairs

10.10-11.25 **Session 1**

Blue Circular Economy and PNRR: actions and interactions
Giovanni Caprino, Cluster BIG and CETENA (center for naval engineering studies)

Reinassance Flagship Project
Gian Marco Luna, CNR-IRBIM (The Institute for Marine Biological Resources and Biotechnology of the National Research Council) *and IT National Bioeconomy Coordination Board*

Challenges and potentials of blue biotechnologies
Giovanna Romano, SZN, MUR-ITEM Project and WG BIG on Bioeconomy

Building the Mediterranean blu bioeconomy community: MED-PANORAMED Strategic Projects B-BLUE and BLUEBIOMED
Cristian Chiavetta (ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development*) and Stefano Valentini (ART-ER* Attractiveness Research Territory" Emilia-Romagna Joint Stock Consortium*)*

Critical raw materials in blue economy
Claudia Brunori, ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development

11.25-11.35 Q&A

11.35-11.50 Coffee break

11.50-13.15 **Session 2**

Offshore platforms sustainable retrofitting: a contribution to a circular blue economy
Antonio Dell'Anno, Marche Polytechnic University

Circularity of a safe and sustainable decommissioning and reuse of offshore Platform: results from CLYPEA researches
Ilaria Antoncecchi, Italian Ministry of Economic Development and Clypea Network

Holistic Life Cycle Analysis (LCA) Platform for the Shipping Industry
Marc Bonazountas, Epsilon Malta, Ltd, Project EMFF-EASME VesselsLife.com

Marine Litter: turning a problem into a resource - the marGnet and MAELSTROM projects
Fantina Madricardo, CNR-ISMAR (Institute of Marine Sciences - National Research Council)

Recover Ingredients: from bones and shells to cosmetic ingredients and plant fertilizers
Alessio Adamiano, Recover Ingredients s.p.a. and CNR-ISTEC (Institute of science and technology for ceramics - National Research Council)

Best practices of circularity in aquaculture
Michela Cariglia, Consorzio Gargano Pesca

rComposite: a new recyclable composite for pleasure boating
Fabio Bignolini, Northern Light Composites, COO

Creating Value from Carbon emissions

Nicola Mondelli, Rosetti Marino

The TT-Marine prototype
Alice Madonia, Nature 4.0 SB Srl

BlueBio COFUND/BlueMed CSA training course on blue bioeconomy: outcomes and future perspectives.
Renata Denaro, CNR-IRSA (Water Research Institute)

13.15-13.30 Marine restoration measures and Green Ports initiative for a sustainable blue growth
Carlo Zaghi, Director, Directorate General for Costs and Seas, Italian Ministry of Ecological Transition

10:00 - 13:30

Monitoring & Control
Room D4 Pav.

MONITORING & CONTROL
Ecomondo Event - Call for Papers

The Health Impact Assessment (HIA): analysis of the application of the ISS National Guidelines in EIA procedures

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Higher Institute of Health

CALL FOR PAPERS

The conference (workshop) aims to describe the application, in different regions, of the HIA guidelines drawn up by the Italian National Health Institute (ISS) implemented for specific industrial settlements, in order to include and assess the health impacts during the EIA procedures, and, in the near future, of applying the HIA approach. The conference (workshop) also describes the activities of the biennial project funded by the Ministry of Health, aimed primarily at training activities for the personnel of the regional health prevention departments in charge of carrying out these assessments for the industrial plants located in their area. The different experiences and activities of territories in order to develop fruitful collaborations for HIA studies will be discussed.

Section Chairs
Gaetano Settimo, Higher Institute of Health
Maria Eleonora Soggiu, Higher Institute of Health
Gianluigi de Gennaro, University of Bari

Programme

10.00-10.20 Introduction by the Chairs

10.20-10.50 *The institutional capacity to enhance the different HIA experiences*
Pasqualino Rossi, Ministry of Health

10.50-11.20 *Health Impact Assessment (HIA): training of health personnel belonging to regional control bodies and study of the Italian Higher Institute of Health Guidelines. CCM-Central Actions 2019 project of the Italian Ministry of Health*
Maria Eleonora Soggiu, National Institute of Health

11.20-11.50 *ATS Sardinia-ISS collaboration activities in VIS evaluations*
Daniela Fioretto, ATS Local Social Health Area of Cagliari, Sardinia Region

11.50-12.20 *The experiences of applying the VIS procedures in the Marche Region*
Marco Baldini, Environmental Epidemiology Service Arpa Marche Region (Agency for the Protection of the Environment), Genesio Scaloni Environment and Health Service ASUR Marche Region Area Vasta 2

12.20-13.30 Discussion and closure

Poster Session

VIS-1 *Analysis of the health, social and environmental impacts of a photovoltaic system.*
Michela Massari, Gianmarco Licciardello, Agata Matarazzo, Department Economics and Business, University of Catania; Guido Sciuto, Dalila Ferrara Ambiens S.r.l., Valguarnera Caropepe.

10:00 - 13:30

Ecomondo Digital Platform

BEACON CONFERENCES
Ecomondo Event

The European Green Deal: first results and new approaches. A view from H2020 to Horizon Europe - SESSION WITH STREAMING IN ITALIAN LANGUAGE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and APRE – Agency for the Promotion of European Research

The European Green Deal is the European Commission's roadmap to make Europe the first climate neutral continent by 2050. To reach this goal, action is required by all fields of the EU economy, including decarbonizing the energy sector, investing in environmental-friendly technologies, cooperating with international partners to improve global environmental standards, and so on.

For the last and biggest call under Horizon2020 – known as European Green Deal call – the EC tabled €1 billion for an ambitious action plan, designed to respond to the climate change crisis by providing more protection to Europe's biodiversity and habitats, accelerating a sustainable recovery. For a systemic transformation towards a climate-neutral EU, the call included 8 thematic areas, reflecting the key workstreams of the Green Deal, and 2 horizontal priorities, strengthening knowledge and empowering citizens. The holistic approach that underpins the Green Deal call and the whole H2020 Programme, will be boosted in the new R&I Funding Programme until 2027, known as Horizon Europe. Such approach can be found in Horizon Europe Work Programme and mainly in the Clusters (green technologies for cultural heritage in CL2; climate-related disasters in CL3; green manufacturing and production, digital and emerging technologies and space applications in CL4, exc.). Among all, Cluster 5 and Cluster 6 are those that most reflects the objectives of the Green Deal – which will have a thematic approach focused respectively on "Climate, energy and mobility", and "Food, Bioeconomy, Natural Resources, Agriculture and Environment". The workshop will investigate the first results coming from the Horizon 2020 Green Deal call in a long term prospective toward Horizon Europe.

Section Chair

Serena Borgna, Agency for the Promotion of European Research - APRE

Section Programme

10.00-10.15 *The European green deal policy: the green transition*
Giovanni De Santi, Director, Directorate for Sustainable Resources, JRC - Joint Research Centre

10.15-10.30 ***Results of the H2020 Green deal calls managed by CINEA***
Dirk Beckers, European Climate, Infrastructure and Environment Executive Agency - CINEA

10.30-11.40 **A view from the winners: a roundtable discussion with projects funded in the H2020 GD call**

Michele Corleto, Università Telematica Pegaso. Project **Silvanus**, EGC Area 1
Marco Astolfi, POLIMI. Progetto **RESTORE,** EGC Area 2
Piero De Martino, FILSE SPA. **EcoeFISHent**, EGC Area 3
Francesco Gasperi, DTT. Project **ARV**, EGC Area 4
Cosma Panzacchi, SNAM. **OLGA**, EGC Area 5
Franco Fassio, Università degli Studi di Scienze Gastronomiche. Project **SchoolFood4Change**, EGC Area 6
Jane Mosto, We are here Venice. **WaterLANDS**, EGC Area 7
Francesco Dondero, Università degli Studi del Piemonte Orientale. Project **SCENARIOS**, EGC Area 8
Antonio Parodi, Fondazione CMCC, & Silvana Di Sabatino, UNIBO. Project **LOCALISED**, EGC Area 9
Cristina Cattaneo, Fondazione CIMA. Project **I-CHANGE**, EGC Area 10

11.40-12.00 *The European Green Deal in the frame of the Italian PNR*
Giorgio Matteucci, Italian Ministry of University and Research

12.00-12.20 *The European Green Deal in the frame of the PNRR*
Renzo Tomellini, Italian Ministry for Ecological Transition

12.20-12.30 *The green prospective in Horizon Europe: the evolution in the new European framework programme for Research and Innovation*
Serena Borgna, Head of institutional activities department, APRE

12.30-13.00 From the past for a better implementation toward the future: lesson taken for HE
Roundtable discussion with *G. De Santi, D. Beckers, G. Matteucci, R.Tomellini, N. Amodio*

13.00-13.30 Discussion and Closure (by the chairs)

10:00 - 13:30

Ravezzi 1 Room South Hall

BEACON CONFERENCES
Ecomondo Event

The European Green Deal: first results and new approaches. A view from H2020 to Horizon Europe - ENGLISH LANGUAGE SESSION

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and APRE – Agency for the Promotion of European Research

The European Green Deal is the European Commission's roadmap to make Europe the first climate neutral continent by 2050. To reach this goal, action is required by all fields of the EU economy, including decarbonizing the energy sector, investing in environmental-friendly technologies, cooperating with international partners to improve global environmental standards, and so on.

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13.00-13.30 Discussion and Closure (by the chairs)

10:00 - 13:30

Diotallevi 2 Room South Hall

BLUE GROWTH
Ecomondo Event

Italian Recovery Plan and blue circular economy - ITALIAN LANGUAGE SESSION

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, CNR, Italian Ministry of Economic Development, Cluster BIG

The Conference aims to continue from previous Ecomondo's Editions the discussion on the challenges and opportunities of circular economy in several sectors of sea economy. Circularity principles at the base of the Circular Economy Package are very relevant in the context of the EU Green Deal, as they must be reflected in national strategies (e.g. BIT II - A new Bioeconomy strategy for a sustainable Italy; Italian Recovery Plan (PNRR - Piano Nazionale di Ripresa e Resilienza)). Following some keynote presentations on key trajectories of national and Mediterranean relevance, a series of pitches from science, academia, decision makers, private operators will showcase best practices and experiences in different sectors.

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Programme

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Cristian Chiavetta (ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development*) and Stefano Valentini (ART-ER* Attractiveness Research Territory" Emilia-Romagna Joint Stock Consortium*)*

Critical raw materials in blue economy
Claudia Brunori, ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development

11.25-11.35 Q&A

11.35-11.50 Coffee break

11.50-13.15 **Session 2**

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13.15-13.30 Marine restoration measures and Green Ports initiative for a sustainable blue growth
Carlo Zaghi, Director, Directorate General for Costs and Seas, Italian Ministry of Ecological Transition

10:30 - 12:30

Workshop Room B4 Pav.

OTHER PROPOSALS
Workshop

Language: Italian

10:30 - 13:00

Diotallevi 1 Room South Hall

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

Closing the loop: tools and actions for boosting the secondary raw materials - ITALIAN LANGUAGE VERSION

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee and Utilitalia

Good separate collection (in quantitative and qualitative terms) and an adequate capacity of recycling, recovery and disposal facilities, are absolutely necessary but not sufficient conditions to close the waste management cycle. The "loop" can only be closed with the return into the production cycles of the material and energy resources present in the waste. Without adequate demand for secondary raw materials and products obtained from waste recovery, the transition to the circular economy risks not being completed, compromising the great transformation effort of the national industry. The conference aims to illustrate and discuss with some of the main European and national players, innovative proposals to support the demand for secondary raw materials and products obtained from waste recovery, through the adoption of incentive economic tools and measures.

Section chair
Alberto Ferro, Coordinator of the Separate collection and recycling of municipal waste Commission of UTILITALIA (Italian federation of energy, water and environmental services)

Program

10.30 Introduction and coordination by the Chairman
Alberto Ferro, Coordinator of the Separate collection and recycling of municipal waste Commission of Utilitalia

The perspective of waste management companies
Pietro Antonio D'Alema, General Director Silea S.p.A.
Ennio Scridel, CEO Metal Recycling Venice

Tools and enabling measures: examples and proposals
Francesca Mazzarella, Utilitatis Foundation
Donato Berardi, REF Ricerche
Sara Corrado, Researcher of ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)
Luca Barberis, Head of Energy Efficiency and Sustainable Development Divisions, GSE (Italian Energy Services Managing Authority)

The European Commission point of view
Mattia Pellegrini, Head of Unit DG-ENVI European Commission

12.00 Round Table
Moderator: Alberto Ferro, Coordinator of the Separate collection and recycling of municipal waste Commission of UTILITALIA

Luca Mariotto, Director of Environmental Sector of Utilitalia
Paolo Barberi, President of UNICIRCULAR (Circular Economy Companies Union)
Ilde Gaudiello, Director of Divisions III e IV, Directorate General for the Circular Economy, Italian Ministry for Ecological Transition
Luca Ruini, President of CONAI (National Packaging Consortium)

12.40 Conclusions
Filippo Brandolini, Vice President of Utilitalia (Italian federation of energy, water and environmental services)

10:30 - 13:00

Ecomondo Digital Platform

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

Closing the loop: tools and actions for boosting the secondary raw materials - SESSION WITH STREAMING IN ENGLISH LANGUAGE

Language: Italian
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11:00 - 12:00

OTHER PROPOSALS
Workshop

Language: Italian

11:00 - 13:00

Acero Room 1st floor A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

11:30 - 12:30

Reclaim Expo Room C3 Pav.

OTHER PROPOSALS
Workshop

Language: Italian

11:30 - 13:30

Ecomondo Digital Platform

OTHER PROPOSALS
Workshop

LIFE URBANGREEN - Strategies and actions for the city of the future - SESSION WITH STREAMING IN ENGLISH LANGUAGE

Language: Italian
Simultaneous translation: English

Download the event brochure

Download the complete event programme

With the patronage of Comune di Rimini - MUNICIPALITY OF KRAKÓW

ROUND TABLE
Moderator:
Gigi Riva, journalist and writer

Introductory speeches are scheduled for the conference at Ecomondo:
Jamil Sadegholvaad, Mayor of Rimini
Jacek Majchrowski, Mayor of Cracovia
Elly Schlein, Vice-President of the Emilia-Romagna Region
Angelo Salsi, EASME Director, European Commission

The descriptive part of the project will be introduced by five videos that represent the areas of intervention where work has been conducted. The videos will show how LIFE URBANGREEN has been able to optimize, improve and communicate the maintenance of green areas while safeguarding ecosystem services, to give the citizens of tomorrow a more sustainable and livable city.

This will be followed by a round table with the participation of:
Sabrina Diamanti, Chairman CONAF and member of Urban green areas committee of the Italian Ministry of Ecological Transition
Francesco Ferrini, Professor of General Arboriculture and Tree Cultivation at the University of Florence and one of the world's leading experts in urban arboriculture
Tommaso Morelli, General Manager Anthea Rimini. Urban energy and resilience. Anthea Futura researcher.
Andrea Succi, CEO Anthea Rimini. Quality and Urban Regeneration. Researcher Responsible Anthea Futura
Paolo Viskanic, CEO R3GIS and LIFE URBANGREEN Coordinator

With the patronage of Comune di Rimini - MUNICIPALITY OF KRAKÓW

11:30 - 13:30

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

LIFE URBANGREEN - Strategies and actions for the city of the future - ITALIAN LANGUAGE SESSION

Language: Italian
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Elly Schlein, Vice-President of the Emilia-Romagna Region
Angelo Salsi, EASME Director, European Commission

The descriptive part of the project will be introduced by five videos that represent the areas of intervention where work has been conducted. The videos will show how LIFE URBANGREEN has been able to optimize, improve and communicate the maintenance of green areas while safeguarding ecosystem services, to give the citizens of tomorrow a more sustainable and livable city.

This will be followed by a round table with the participation of:
Sabrina Diamanti, Chairman CONAF and member of Urban green areas committee of the Italian Ministry of Ecological Transition
Francesco Ferrini, Professor of General Arboriculture and Tree Cultivation at the University of Florence and one of the world's leading experts in urban arboriculture
Tommaso Morelli, General Manager Anthea Rimini. Urban energy and resilience. Anthea Futura researcher.
Andrea Succi, CEO Anthea Rimini. Quality and Urban Regeneration. Researcher Responsible Anthea Futura
Paolo Viskanic, CEO R3GIS and LIFE URBANGREEN Coordinator

With the patronage of Comune di Rimini - MUNICIPALITY OF KRAKÓW

12:00 - 13:00

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

13:45 - 14:30

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

Language: Italian

14:00 - 16:00

OTHER PROPOSALS
Workshop

Language: Italian

14:00 - 17:00

Reclaim Expo Room C3 Pav.

OTHER PROPOSALS
Workshop

Language: Italian

14:00 - 17:30

Biobased Industry Room D1 Pav.

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Ecomondo Event - Call for Papers

BIOWASTE: XXIII Conference on Composting and Anaerobic Digestion - TECHNICAL SESSION

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Technical Committee of the Italian Composting and Biogas Association (CIC)

CALL FOR PAPERS

The session will address issues related to the methods of recycling organic waste and the enhancement of the products that can be obtained, ranging from biomethane to the different types of organic fertilizers (soil improvers and fertilizers), useful for maintaining organic soil fertility, in addition to the compounds that can be used in various industrial applications.

Section Chairs

Massimo Centemero, Italian Composting and Biogas Association (CIC)
Alberto Confalonieri, Italian Composting and Biogas Association (CIC) Technical Committee

Programme

Speeches selected from the Call for Papers

1. G. Perrone*
"The anaerobic-aerobic digestion process for the production of biogas: the case of the Boara Polesine Plant Modernization Project"
*Eni

2. E. Sinisgalli*, M. Soldano*, M. Garuti*, S. Piccinini*,
"Study on the stability of digestates from OFMSW treatment plants"
*CRPA

3. G. Aimola*, A. Barra Caracciolo**, D. Losacco*, G.L. Garbini**, L. Rolando**, P. Grenni**, V.F. Uricchio*, V. Ancona*,
"Use of compost for promoting the effectiveness of plant assisted bioremediation strategy"
*IRSA-CNR Bari, **IRSA-CNR Montelibretti (RM)

4. M. Grigatti*, C. Ciavatta*,
"Study of the agronomic use of composted soil improvers of different origins"
*DISTA – Università di Bologna

5. S Bergonzoli*, E. Romano*, R. Lo Scalzo*, A. Scarfone*,
"Influence of soil substrate on nectar production on Turnflower"
*CREA-IT

6. D. Scaglione*,
"Sesto San Giovanni bioplatform"
*Gruppo CAP

7. A.N. Rossi*, S. Bonati*, M. IlGrande**,
"Are the emission limits all equivalent and produce the same legal effects?"
*Progress S.r.l., **Consulente Progress S.r.l.

8. P. Cella Mazzariol*,
"Circular economy and zero waste in the biomethane production and composting land and resources plant"
*Entsorga S.p.A.

9. D. Manzi*, G. Masciandaro**, C. Macci**, S. Doni**, C. Masini*, G. Mattii***, E. Cataldo***
"ZEOWINE ZEOlite and WINEry waste as innovative product for wine production"
*DN360, **CNR IRET, ***Università di Firenze

10. G. Fontanazza*, D. Mainero*,
"Feasible production and use of new biobased products from MWB"
*ACEA Pinerolese Industriale S.p.A.

11. A. Filippi*, G. Cecchini*, A. Frugis*, S. Leoni*, M. Lazzazzara*, M. Spizzirri**,
"Llysis and anaerobic digestion technologies"
*Acea Elabori SpA, **AceaAto2 SpA

POSTER SESSION

12. G. Dotelli*, S. Santori**,
"Sustainable leathers for sustainable fashion"
*Dipartimento di Chimica, Materiali e Ingegneria "Chimica G. Natta", Politecnico di Milano, ** Conceria Nuvolari Srl

13. U. Mazzanti*,
"Plastiche e fanghi: un sistema sinergico senza sprechi"
*Organismo di ricerca CRF – Cooperativa Ricerca Finalizzata

14. A Pecorino*, A.D. La Rosa**, G. Pappalardo*, A. Matarazzo***,
"Industrial symbiosis in the Sicilian citrus sector for biomethane productions"
*Department of Agriculture, food and environment, University of Catania, **Department of Manufacturing and Civil Engineering, Norwegian University of Science and Technology (NTNU), ***Department of Economics and Business, University of Catania

15 O. Laatikainen*, A. Rimpiläinen*, A. Kuoppala*,
"Anaerobic digestion concepts for wastewater sludge treatment in dispersed settlements"
*KAMK University of Applied Sciences, Finland.

16. E. Miletto*, F. Cammillozzi*, G. Cecchini*, A. Filippi*,
"Acea smart Comp per il compost a km 0"
*Acea Elabori S.p.A

17. E. Miletto*, F. Cammillozzi*, G. Cecchini*, A. Filippi*,
"Acea smart Comp per il compost a km 0"
*Acea Elabori S.p.A

14:00 - 17:30

Ecomondo Digital Platform

STAKEHOLDER EVENTS IN COOPERATION WITH THE EUROPEAN COMMISSION
Event with the European Commission

Enhancing circularity through waste prevention, repair and re-use: a key priority topic in the new LIFE 2021-2027 - SESSION WITH STREAMING IN ITALIAN LANGUAGE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and the European Climate, Infrastructure and Environment Executive Agency (CINEA)

Opportunities provided by the higher levels of the Waste Framework Directive, such as waste prevention or re-use of resources, are often untapped. Weak economic viability (also due to lack of of economic incentives), 'soft' regulatory requirements and limited awareness of the consumers are only some of the causes. In order to increase circularity the new Circular Economy Action plan strongly emphasises and focuses on Eco-design (and more generally, the so called, Design for the Environment approaches) as well as Re-use and Repair services. LIFE programme has identified such aspects as one of the key priority topics of the sub-programme 'Circular Economy and Quality of Life'.

The session will discuss why such opportunities are still unexploited, what is being done to support them in order to enhance circularity and how the LIFE programme can help related businesses with funding. Successful examples (also financed from LIFE programme) will be showcased.

Section Chairs

Angelo Salsi and Aurelio Politano (CINEA), European Commission

Programme

14.00-14.10 Introduction

Dirk Beckers, Director
European Climate, Infrastructure and Environment Executive Agency (CINEA), European Commission

Angelo Salsi, Head of Department D - Natural resources, climate, sustainable blue economy and clean energy
European Climate, Infrastructure and Environment Executive Agency (CINEA), European Commission

14.10-14.25 *Obstacles and opportunities to enhance Circularity*
Prof. Enrico Maria Mosconi, Full Professor of Technology and Management of Production - Chairman of the Master's degree in Circular Economy at La Tuscia University

14.25-14.40 *Circularity in the new CEAP and the upcoming new Sustainable Products legislativeInitiative (SPI)*
Paola Migliorini Deputy Head of Unit, B1 - Sustainable Production, Products & Consumption
DG Environment, European Commission

14.40-15.00 *Regulatory measures concerning some specific product categories*
Mattia Pellegrini, Head of Unit, B3 - Waste Management & Secondary Materials
DG Environment, European Commission

15.00-15.20 **Roundtable/Q&A: is this enough? What more can be done?**

Moderator:
Jordi Pascual, Cities Strategist
Circle Economy

Participants:

Laura D'Aprile, Head of Dipartiment for Ecological Transition (Italian Ministry for Ecological Transition)

Enrico Maria Mosconi, Full Professor of Technology and Management of Production - Chairman of the Master's degree in Circular Economy (La Tuscia University)

Paola Migliorini, Deputy Head of Unit, B1 - Sustainable Production, Products & Consumption Commission (EC)

Mattia Pellegrini, Head of Unit, B3 - Waste Management & Secondary Materials
(EC)

Marco Ravazzolo, Head of Environment and Energy, Industrial policies sector (Confindustria)

Angelo Salsi, Head of Department D - Natural resources, climate, sustainable blue economy and clean energy (CINEA, EC)

15.20-15.40 Break

15.40-16.10 Presentation of 2 success stories

Presentation of LIFE project CIRCWASTE (LIFE15/IPE/FI/000004)

Presentation of LIFE project CIRCWASTE (LIFE15/IP/FI/000004)

CIRCWASTE is a seven-year LIFE IP project that promotes efficient use of material flows, waste prevention and new waste and resource management concepts. All actions contribute to implementing the national waste management plan and directing Finland towards a circular economy.

Tuuli Myllymaa, Head of Unit - Waste and circular economy-group
Leader of the CIRCWASTE-consortium
Finnish Environment Institute SYKE / Production and consumption center

Presentation of LIFE project Waste2Protein (LIFE18 ENV/DE/000011)

The project focus is a pilot plant for insect protein production from biowaste as sustainable alternative to fish and soy meal for animal feed.

Dr. Jonas Finck, Managing director/scientific project leader madebymade GmbH

16.10-16.30 *How the LIFE programme can help*
Aurelio Politano Senior Project Adviser, Unit D2 - LIFE Environment (Nature & Circular Economy) European Climate, Infrastructure and Environment Executive Agency (CINEA), European Commission

16.30-17.00 Q&A

14:00 - 17:30

Ravezzi 2 South Hall

STAKEHOLDER EVENTS IN COOPERATION WITH THE EUROPEAN COMMISSION
Event with the European Commission

Enhancing circularity through waste prevention, repair and re-use: a key priority topic in the new LIFE 2021-2027 - ENGLISH LANGUAGE SESSION

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and the European Climate, Infrastructure and Environment Executive Agency (CINEA)

Opportunities provided by the higher levels of the Waste Framework Directive, such as waste prevention or re-use of resources, are often untapped. Weak economic viability (also due to lack of of economic incentives), 'soft' regulatory requirements and limited awareness of the consumers are only some of the causes. In order to increase circularity the new Circular Economy Action plan strongly emphasises and focuses on Eco-design (and more generally, the so called, Design for the Environment approaches) as well as Re-use and Repair services. LIFE programme has identified such aspects as one of the key priority topics of the sub-programme 'Circular Economy and Quality of Life'.

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(EC)

Marco Ravazzolo, Head of Environment and Energy, Industrial policies sector (Confindustria)

Angelo Salsi, Head of Department D - Natural resources, climate, sustainable blue economy and clean energy (CINEA, EC)

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16.30-17.00 Q&A

14:00 - 17:30

Diotallevi 1 Room South Hall

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event

Circular Economy in the clothing and textile chain

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and FISE Unicircular / UNIRAU

In the last 25 years, the consumption of clothing in the EU has increased by 40% for a total per capita of 26 kg every year. The impact on environment caused by fast fashion passes through the consumption of water and soil for the cultivation of natural fibers, the pollution of the water for the various manufacturing processes, the dispersion of microplastics during the washing of synthetic garments, the emission of approximately 10% of the greenhouse gas each year, the disposal in landfills of large quantities of used clothes and the modest quantity of used clothes that are sent for recycling, net of those sent for reuse. To cope with these impacts, after having included in the WFD the obligation of separate collection of household textiles by 31.12.24 (in Italian transposition, 31.12.2021), the EU adopted in March 2020 a new action plan for the circular economy, which includes an important chapter dedicated to textiles, with the aim of developing eco-design and promoting reuse and recycling, and now the Commission is working on a "European strategy for textiles ".

Section Chair

Andrea Fluttero, President UNIRAU (Union of used clothing collection, recycling and reuse companies)

Programme

Introduction by the Chair

ICESP's - Italian Circular Economy Stakeholder Platform - vision
Roberta De Carolis, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

Circular textile business models for deadstock and post-industrial cutting waste
Roberta De Palma, SwitchMed Chief Technical Advisor UNIDO (United Nations Industrial Development Organization)

Gearing up for more circular textiles – The vision of EuRIC Textiles
Emmanuel Katrakis, Segretario Generale EuRIC

The Producers

Sergio Tamborini, Sistema Moda Italia

Perspectives for a collective textile system
Roberto Coizet, Rete Ambiente

The post-consumer collection

The role of the Municipalities
Anci, Italian Association of Municipalities (TBD)

Carmine Guanci, Alliance of Cooperatives *National WG collection and valorisation of textile waste*

Material valorization

Karina Bolin, UNIRAU (Union of used clothing collection, recycling and reuse companies)
Fabrizio Tesi, ASTRI Recycled Textile Association (TBC)
Massimo Marchi, Marchi & Fildi S.p.A. (TBC)

Conclusions
Ilde Gaudiello, Directorate-General for the Circular Economy, Italian Ministry for Ecological Transition (TBC)

14:00 - 17:30

Global Water Expo
Room D2 Pav.

SYSTEMIC WATER CYCLE MANAGEMENT AND VALORIZATION
Ecomondo Event - Call for Papers

Systemic water-smart innovations to accelerate digital and ecological transition in cities and regions

Language: Italian

Organized by: University of Brescia, Water Research Institute, Utilitalia, Marche Polytechnic University, and Ecomondo Scientific Technical Committee

CALL FOR PAPERS

A water-smart economy and society is oriented towards avoiding water scarcity and pollution, increasing resilience to climate change and managing water-related risks. This concept includes integration of stormwater, groundwater, wastewater management and water supply to cope with societal challenges related to climate change, resource efficiency and energy transition, to minimise ecosystem degradation and to improve recreational appeal in urban areas. Support EU Competitiveness, green jobs, and reduction of the emissions require investment in circular processes and water efficiency through digitalisation to reduce diffused pollution, over-abstraction of water and chemicals use, as leakage control. The conference will deliver a new vision in evaluating gains in water-smartness and sustainability at different scales. It will also demonstrate a range of promising technologies for water reuse, nutrient recovery, sludge minimization as well as smart data applications for more efficient resource allocation and use.

Section Chairs
Giorgio Bertanza, University of Brescia
Camilla Braguglia, Water Research Institute
Tania Tellini, Utilitalia (Italian federation of energy, water and environmental services)

Programme

14.00 Introduction by the Chairs

14.20-14.40 *Digital Water Cities: Digital Innovation Results in Berlin, Paris, Copenhagen, Sofia and Milan*
Nicolas Caradot, Coordinator of H2020 DWC, Berlin Competence for Water

14.45-15.00 *Heat and energy recovery from the integrated water system in Milan*
Andrea Aliscioni, Director of the Water Service Division of Metropolitane Milanesi S.p.A.

15.05-15.20 *Innovative technologies for predictive asset management on aqueduct networks*
Maurizia Brunetti, Hera S.p.A. (Italian multi-utility group) Water sector management

15.25-15.40 *Minimization of the production of sewage sludge*
Francesca Portincasa, Director of Networks and Plants Acquedotto Pugliese SpA Bari

15.45-17.00 ***Call for papers***

15.45-15.55 *Metering in network systems: perspectives and expectations*
F. Albasser, Studio Ingegneria Milano

15.55-16.05 *Extraordinary maintenance interventions on dams and effects on supply capacities*
M. Scolari, RINA Consulting

16.05-16.15 *Potable Wastewater Reuse in Apulia (IT): Comparison of Different AOP Treatment Strategies*
O. Santoro, AquaSoil

16.15-16.25 *Application to Small Drinking-Water Systems in Salento: Water Safety Plan Approach*
F. Serio, University of Salento

16.25-16.35 *Characterization of microplastics by means of optical and electronic microscopy techniques in civil wastewater treatment plants*
B. Esposito, Consorzio Pro Ambiente-Tecnopolo Bologna CNR (National Research Council)

16.35-16.45 *LABSHARING: an exchange network to share technologies and skills*
T. Calchetti, Acea Elabori spa

16.45-16.55 *A simple software tool for more sustainable wastewater treatment*
D. Binay, Istanbul Technical University

17.00-17.30 Discussion and Closure (by the chairs)

Poster Session

Treatment and reuse of washing water from agricultural vehicles deriving from phytosanitary treatment operations in conditions of water sustainability
L. de Paoli, D&D srl

Impiego di tecnologie di raffrescamento per dissalazione a umidificazione-deumidificazione
A. Rocchetti, Thermogroup, Univ. Di Firenze

Waterjade: il Digital Twin del bacino idrologico
Matteo Dall'Amico, MobyGIS Srl

Studio sul rilascio di microplastiche da detersivi domestici monodose
OCU, Altroconsumo, Test-Achats, DECO Proteste

14:00 - 17:30

Monitoring & Control
Room D4 Pav.

MONITORING & CONTROL
Ecomondo Event - Call for Papers

Air pollution: the situation, control measures, risks and prevention policies

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Higher Institute of Health

CALL FOR PAPERS

The conference aims to create a meeting time to provide a picture of the last year experiences and programs carried out on the complex issue of air pollution. The conference aims to discuss the various technical and health aspects related to air pollution, to provide knowledge of the related problems and the possible solution/mitigation and to contribute to broadening the scientific debate on this issue.

Section Chairs
Gaetano Settimo, Higher Institute of Health
Gianluigi de Gennaro, University of Bari

Programme

14.00 Introduction by the Chairs

14.20-14.40 *Air pollution: the WHO activities and new guidelines*
Maria Neira, World Health Organization

14.40-15.00 *The national framework and European commitments*
Giusy Lombardi, Italian Ministry for Ecological Transition

15.00-15.20 *The actions and challenges in the Health and Environment Plans*
Pasqualino Rossi, Italian Ministry of Health

15.20-15.35 *Pulvirus Project*
ISPRA (Italian Institute for Environmental Protection and Research), ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), ISS (Higher Institute of Health), SNPA (National System for Environment Protection)

15.35-15.50 *National epidemiological study on air pollution and COVID-19 (EpiCovAir)*
Ivano Iavarone, Higher Institute of Health

15.50-16.05 *The planetary health: challenges and perspectives of a relationship between environment and health.*
Sara Moraca, University of Bologna-CNR ISAC Associated; Vincenzo Lionetti, Professor at Sant'Anna School for advanced studies (Pisa); Marie Studer, Senior Manager at Planetary Health Alliance (Harvard).

16.05-16.20 *The new Milan air quality and climate plan: air quality monitoring and modeling.*
Silvia Moroni, Marco Bedogni, Paolo Palomba, Mobility and Environment Agency (AMAT srl) - Municipality of Milan.

16.20-16.35 *Development of a method for PFAS, cC6O4 and ADV in atmospheric deposits.*
Fontana Marco, Santamaria Nicola, Possamai Simona, Arpa Piedmont Agency (Agency for the Protection of the Environment).

16.35-16.50 *Evaluate in an integrated way the impact of urban green, present and future, on the air in the city*
Mihaela Mircea, ENEA, Life Pre VEG-GAP; Valeria Stacchini, Bologna Metropolitan City, Life Pre VEG-GAP

16.50-17.05 *Experimentation of an integrated approach for assessing the potential impacts on air quality and citizens' health during street cleaning activities in urban areas.*
Brunelli, A., Breda S., Tinello A., Scanferla P., Badetti E., Marcomini A., University of Venezia Ca' Foscari Foundation, Calle Larga Foscari; Barbon L., Cremona P., Contarina SpA.

17.05-17.30 Discussion and closure by the Chairs

Poster Session

IA-1 Thermal boilers for civil use.
De Luca Pierantonio, UniCal

IA-2 Idrogeno verde: un'opportunità per la transizione energetica.
Matteo Altemura, Francesca Seni, Giulia Bernardini, Ambiente S.p.A.

IA-3 Prospects for reduction atmospheric emissions from iron and steel plants.
Francesco Cardellicchio

IA-4 ESG e sostenibilità: nuovi paradigmi e sintesi del quadro regolatorio europeo in divenire.
Lorenzo Parola

IA-5 Risk of COVID and respiratory diseases: the contribution to public health from new technologies that prevent the formation of fine particulate in diesel engines.
Andrea Demozzi, CEO IRIS LAB SrL Trento

IA-6 Nuovo modo di abbattere le molecole maleodoranti.
Gascone Marilena, Senecaair

Cascone Marilena, Senecaair

IA-7 *Deciding in complex systems: the great challenges for reducing pollution.*
Pivato Alberto, Department of Civil, Environmental and Architectural Engineering (ICEA), University of Padua

14:00 - 18:00

Cedro Room West Hall

OTHER PROPOSALS
Workshop

Language: Italian

14:30 - 15:15

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

14:30 - 15:30

OTHER PROPOSALS
Workshop

Language: Italian

14:30 - 17:30

Ecomondo Digital Platform

BEACON CONFERENCES
Ecomondo Event

Circular Economy as a common voice - SESSION WITH STREAMING IN ENGLISH LANGUAGE

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee and Intesa Sanpaolo

After nearly two years of COVID crisis, the need to contrast climate change, biodiversity loss and pandemics has become a priority more than ever. And we know circular economy is anchored in innovative nature-based solutions and geared towards thrive and competitiveness while promoting public well-being, in line with the UN Agenda 2030 (17 SDGs) and European Commission's Green Deal: but which is the state of the art in the discussion about economic regeneration?

Economic and environmental resilience can be enhanced by circular and low carbon economies: this can be the framework where public and private sectors should work in partnership for common reflections around business and policies to create a long-term prosperity.

Still, what should be revised within the circular economy and bioeconomy agendas at local and global level? How financial supports – like Next Generation EU or private sector initiatives – for re-launching the economy should be used to widen the commitment of new actors in the circular economy transition? How will this also contribute to prevent future pandemic crisis and to fix climate change?

Section Chairs

Fabio Fava, Presidente Comitato Tecnico Scientifico, Ecomondo
Massimiano Tellini, Director Global Head Circular Economy, Intesa Sanpaolo

Programme

14.30-14.45 Introduction by the Chairs

14.45-15.45 *Circular economy and the climate agenda: what can be done within COP26*

Hugh McCann, Strategic Partners Lead Europe, Ellen MacArthur Foundation
Catriona Graham, HM Consul General Milan and Director of Trade and Investment Italy, Department for International Trade
Paola Migliorini, Deputy Head Unit Sustainable Production, Products and Consumption, DG Environment, EU Commission
Krista Kruft, Leadership Lead, Platform for Accelerating the Circular Economy

15.45-16.30 *The impact of circular economy for financial industry services*

Claudio Zara, Professor of Finance, Università Bocconi
Gian Marco Salcioli, Head of Strategic Marketing IMI Corporate & Investment Banking, Intesa Sanpaolo
Tazia Smith, Managing Director, Capital Partnerships & IR, Closed Loop Partners

16.30-17.30 *Perspectives about circular economy in Italy at the time of NRRP*

Riccardo Porro, Chief Operations Officer, Cariplo Factory
Stefano Corbella, Sustainability Officer, COIMA (TBC)
Representative from Confindustria (TBD)
Representative from other institutions (TBD)

17.30 Closure by the Chairs

14:30 - 17:30

Diotallevi 2 Room South Hall

BLUE GROWTH
Ecomondo Event

Connecting the system of Ports and Harbours to unlock the potential in preventing and reducing the effects of Marine Litter across the Mediterranean - Ecomondo and Blue Sea Land Joint Event - VERSIONE IN LINGUA INGLESE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee, Blue Sea Land, Cluster BIG, Federpesca, CNR, BLUEMED GSOs

European, National and Regional policy instruments have been developed to prevent and reduce the environmental and socioeconomic impact due to the mismanagement of waste coming from marine and coastal activities. With the aim to close the loop of maritime waste cycle, specific actions to address waste prevention and waste deliver in harbours have been proposed and here showcased. EU Directive 2000/59/EC on port reception facilities (PRF) for ship-generated waste and cargo residues obliges Member States to ensure the availability of adequate port reception facilities so as to reduce the discharges of ship-generated waste and cargo residues into the sea. Harmonisation of the waste disposal rate structure provisions in the PRF Directive could be helpful to enhance the effectiveness of the instrument. The Commission also supports the implementation of the flagship Directive on Single-Use Plastics (SUP) in line with the EU Green Deal and the circular economy package. Here the gaps for the implementation of marine litter solutions are discussed together with key National and Mediterranean actors with the aim to bring local actions into systems.

Section Chairs

Luigi Giannini, Federpesca
Nino Carlino, Blue Sea Land
Sigi Gruber, European Commission
Fantina Madricardo, CNR (National Research Centre)

Programme

14.30-15.30 Opening by the chairs

Session 1: ***Setting the scene and connecting the dots for the implementation of R&I solution to tackle marine litter in Mediterranean Sea***
Session Chair: Sigi Gruber, European Commission

14.40-15.15 *The process of revising the waste legislation from EU to National level*

- Nino Carlino, Blue Sea Land
- Imad Rachid Lahoud, General Fisheries Commission for the Mediterranean - GFCM (TBC)
- Ilde Gaudiello, Directorate-General for the Circular Economy, Italian Ministry for Ecological Transition

15.15-15.30 *Back-to-back outcomes of the Venice BlueMed Pilot Event*
Fedra Francocci (CNR IAS) and Fantina Madricardo (ISMAR CNR)

15.30-16.10 **Session 2:** ***Innovation towards good performing ports: building frameworks for circular economy***
Session Chair: Fantina Madricardo, ISMAR CNR

- Gian Marco Luna, CNR CISP-FLAG Regione Marche
- Valentina Zambetti, Techneproject
- Building bridges: discussion with Ambassadors and Ministries from Blue Sea Land

16.10-17.00 **Session 3:** ***Upscaling local actions into systems***
Session Chair: Luigi Giannini, Federpesca

- Francesca Biondo, Federpesca
- Stefania Di Vito, Legambiente
- Roberto Cimino, Cluster BIG (TBC)
- Phoebe Koundouri, Athens University of Economics and Business; Fellow World Academy of Art and Science; President-Elect of the European Association of Environmental and Resource Economists; Co-chair SDSN Europe & SDSN Greece

17.00-17.15 Closing remarks by the chairs

14:30 - 17:30

Ravezzi 1 Room South Hall

BEACON CONFERENCES
Ecomondo Event

Circular Economy as a common voice - ITALIAN LANGUAGE VERSION

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee and Intesa Sanpaolo

After nearly two years of COVID crisis, the need to contrast climate change, biodiversity loss and pandemics has become a priority more than ever. And we know circular economy is anchored in innovative nature-based solutions and geared towards thrive and competitiveness while promoting public well-being, in line with the UN Agenda 2030 (17 SDGs) and European Commission's Green Deal: but which is the state of the art in the discussion about economic regeneration?

Economic and environmental resilience can be enhanced by circular and low carbon economies: this can be the framework where public and private sectors should work in partnership for common reflections around business and policies to create a long-term prosperity.

Still, what should be revised within the circular economy and bioeconomy agendas at local and global level? How financial supports – like Next Generation EU or private sector initiatives – for re-launching the economy should be used to widen the commitment of new actors in the circular economy transition? How will this also contribute to prevent future pandemic crisis and to fix climate change?

Section Chairs

Fabio Fava, Presidente Comitato Tecnico Scientifico, Ecomondo
Massimiano Tellini, Director Global Head Circular Economy, Intesa Sanpaolo

Programme

14.30-14.45 Introduction by the Chairs

14.45-15.45 *Circular economy and the climate agenda: what can be done within COP26*

Hugh McCann, Strategic Partners Lead Europe, Ellen MacArthur Foundation
Catriona Graham, HM Consul General Milan and Director of Trade and Investment Italy, Department for International Trade
Paola Migliorini, Deputy Head Unit Sustainable Production, Products and Consumption, DG Environment, EU Commission
Krista Kruft, Leadership Lead, Platform for Accelerating the Circular Economy

15.45-16.30 *The impact of circular economy for financial industry services*

Claudio Zara, Professor of Finance, Università Bocconi
Gian Marco Salcioli, Head of Strategic Marketing IMI Corporate & Investment Banking, Intesa Sanpaolo
Tazia Smith, Managing Director, Capital Partnerships & IR, Closed Loop Partners

16.30-17.30 *Perspectives about circular economy in Italy at the time of NRRP*

Riccardo Porro, Chief Operations Officer, Cariplo Factory
Stefano Corbella, Sustainability Officer, COIMA (TBC)
Representative from Confindustria (TBD)
Representative from other institutions (TBD)

17.30 Closure by the Chairs

14:30 - 17:30

Workshop Room B4 Pav.

OTHER PROPOSALS
Workshop

Language: Italian

14:30 - 17:30

Ecomondo Digital Platform

BLUE GROWTH
Ecomondo Event

Connecting the system of Ports and Harbours to unlock the potential in preventing and reducing the effects of Marine Litter across the Mediterranean - Ecomondo and Blue Sea Land Joint Event - VERSIONE IN LINGUA INGLESE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee, Blue Sea Land, Cluster BIG, Federpesca, CNR, BLUEMED GSOs

European, National and Regional policy instruments have been developed to prevent and reduce the environmental and socioeconomic impact due to the mismanagement of waste coming from marine and coastal activities. With the aim to close the loop of maritime waste cycle, specific actions to address waste prevention and waste deliver in harbours have been proposed and here showcased. EU Directive 2000/59/EC on port reception facilities (PRF) for ship-generated waste and cargo residues obliges Member States to ensure the availability of adequate port reception facilities so as to reduce the discharges of ship-generated waste and cargo residues into the sea. Harmonisation of the waste disposal rate structure provisions in the PRF Directive could be helpful to enhance the effectiveness of the instrument. The Commission also supports the implementation of the flagship Directive on Single-Use Plastics (SUP) in line with the EU Green Deal and the circular economy package.
Anyway, many gaps for the implementation of solutions still needs to be identified and specifically addressed to build a systemic strategy from European to local scale.

Section Chairs

Luigi Giannini, Federpesca
Nino Carlino, Blue Sea Land
Sigi Gruber, European Commission
Fantina Madricardo, CNR (National Research Centre)

Programme

14.30-15.30 Opening by the chairs

Session 1: ***Setting the scene and connecting the dots for the implementation of R&I solution to tackle marine litter in Mediterranean Sea***
Session Chair: Sigi Gruber, European Commission

14.40-15.15 *The process of revising the waste legislation from EU to National level*

- Nino Carlino, Blue Sea Land
- Imad Rachid Lahoud, General Fisheries Commission for the Mediterranean - GFCM (TBC)
- Ilde Gaudiello, Directorate-General for the Circular Economy, Italian Ministry for Ecological Transition

15.15-15.30 *Back-to-back outcomes of the Venice BlueMed Pilot Event*
Fedra Francocci (CNR IAS) and Fantina Madricardo (ISMAR CNR)

15.30-16.10 **Session 2:** ***Innovation towards good performing ports: building frameworks for circular economy***
Session Chair: Fantina Madricardo, ISMAR CNR

- Gian Marco Luna, CNR CISP-FLAG Regione Marche
- Valentina Zambetti, Techneproject
- Building bridges: discussion with Ambassadors and Ministries from Blue Sea Land

16.10-17.00 **Session 3:** ***Upscaling local actions into systems***
Session Chair: Luigi Giannini, Federpesca

- Francesca Biondo, Federpesca
- Stefania Di Vito, Legambiente
- Roberto Cimino, Cluster BIG (TBC)
- Phoebe Koundouri, Athens University of Economics and Business; Fellow World Academy of Art and Science; President-Elect of the European Association of Environmental and Resource Economists; Co-chair SDSN Europe & SDSN Greece

17.00-17.15 Closing remarks by the chairs

14:40 - 17:30

Neri 2 Room South Hall

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event: Policies & Regulations

Waste Management and regulatory changes 2021

Language: Italian

Organized by: **Ecomondo Scientific Technical Committee and Edizioni Ambiente and Magazine "Waste - Regulatory Information Bulletin"**

The legislative dynamism characterizing the waste management, could disorient businesses and public administration. The Magazine "Rifiuti – Bollettino di informazione normativa" offers again this year, in Ecomondo, the usual overview of the most important legislative and regulatory changes that, during 2021, were added on an already arduous operational scenario. Besides the novelties, however, some less recent topics that reached, over the years, a certain grade of complexity in the application, will be deeply analyzed. Therefore, the necessary insights that the discipline's complexity always requires are also carried out.

Sold out event

Section Chair

Paola Ficco, Director of the Magazine *"Rifiuti – Bollettino di informazione normativa"*

Programme

14.40 Temporary storage of waste at retailers of new materials. The case of construction and demolition waste
Paola Ficco, Environmental lawyer - Director of the Magazine ***"Rifiuti – Bollettino di informazione normativa"***

14.55 Waste management from the circular economy perspective
Laura D'Aprile, Head of the Department for Ecological Transition and Green Investments – Ministry of Ecological Transition

15.10 The IT traceability of waste: state of the art
Daniele Bagon, Register of Environmental Operators, Liguria Regional Section

15.25 The new administrative sanctions on waste
Stefania Pallotta, Head of the Legal and Environment Unit of the Metropolitan City of Venice

15.40 Landfills and the problem of accredited laboratories
Rosanna Laraia, Ecomondo Scientific Technical Committee

15.55 "Core Values": The recent National System for Environment Protection (SNPA) Guidelines
Loredana Musmeci, ***Chemist***

16.10 Rifiuti urbani: chi paga e quanto
Alberto Pierobon, Esperto in materia ambientale e dei servizi pubblici locali (remote connection)

16.25 End of Waste controls after Legislative Decree 77/2021
Daniele Salvatori, Arpae Emilia-Romagna Region (Regional Agency for the Protection of the Environment)

16.40 Waste classification: the new SNPA 105/2021 Guidelines. Lights and shadows
Claudio Rispoli, Chimico - Consulente ADR

16.55 The simplification of the new EIA
Leonardo Filippucci, Avvocato in Macerata

17.10 Environmental crimes and law 68/2015: need for a restyling?
Pasquale Fimiani, Sostituto procuratore generale Corte di Cassazione (remote connection)

17.25 The difficult balance between sustainability and credibility: the importance of Model 231
Colonel Massimiliano Corsano, Commander of the Carabinieri Operations Department for Environmental Protection and Ecological Transition

17.45 Conclusions

15:00 - 16:00

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

Language: Italian

15:00 - 18:00

Neri 1 Room South Hall

STATES GENERAL OF THE GREEN ECONOMY
Event

FOCUS THEMATIC SESSION: The national strategy for circular economy

Language: Italian

In collaboration with the Circular Economy Network

Moderator:
Antonio Cianciullo - Circular Economy Network

Introduction:
Stefano Leoni - Circular Economy Network
Proposals by the Circular Economy Network for the national strategy for circular economy

Panel discussion:
Vannia Gava - Under Secretary of State for the ecological transition (TBC)
Alessia Rotta - President, Committee for Environment, Territory and Public Works, Chamber of Deputies
Laura D'Aprile - Head of the Department for the ecological transition and green investments, Ministry for the Ecological Transition
Alessandro Bratti - Director General, ISPRA
Stefano Ciafani - President, Legambiente
Luca Dal Fabbro - Managing Partner, Italian Fund for Circular Economy
Gianna Fracassi - Deputy Secretary General, CGIL
Roberto Morabito - President, ICESP (Italian Circular Economy Stakeholder Platform), Department director, ENEA
Maria Cristina Piovesana - Vice President for the Environment, Sustainability and Culture, Confindustria

Contributions from the promoters of the Circular Economy Network, business organizations, and companies

Conclusions:
Edo Ronchi - President, Sustainable Development Foundation

15:15 - 16:00

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

16:00 - 17:30

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Implementing the NRRP: the tools proposed by the Farming for Future project

Language: Italian

The climate crisis and the constant increase in emissions are a crucial challenge for Europe and Italy. The NRRP has defined specific lines of action aimed at a resource-efficient growth capable of reducing greenhouse gas emissions to achieve carbon neutrality by 2050. In this context, Farming For Future is the proposal from the agricultural world that aims to turn the climate crisis into an opportunity to increase the competitiveness and sustainability of Italian agriculture and livestock farming. The proposal is based on the implementation of 10 actions for a real agro-ecological transition that leads agriculture not only to reduce its emissions, but also to contribute to the reduction of emissions related to the use of fossil fuels through the production of biogas/biomethane according to the principles of Biogasdoneright®.

Programme

Greetings and introduction
Fabio Fava, Ecomondo Scientific Committee President

Farming for Future: agricultural biomethane as a decarbonisation option
Lorella Rossi, Technical Area Manager *CIB Consorzio Italiano Biogas*

The actors of decarbonisation: agricultural producers talk to the Conference of Regions and Autonomous Provinces

Moderator: Piero Gattoni, CIB – Consorzio Italiano Biogas President

Carmelo Basile, Fattoria della Piana – Calabria Region
Tommaso Carioni, Azienda Agricola Eredi Carioni – Lombardy Region
Cristian Bagnod, Azienda Bagnod – Piedmont Region
Biagio Pecorino, Assoro Biometano – Sicily Region
Stefano Svegliado, EBS Schiavon – Veneto Region
Marco Tam, Greenway – Friuli Venezia Giulia Region
Massimiliano Fedriga, President of the Conference of Regions and Autonomous Provinces

16:30 - 18:00

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

Language: Italian

THURSDAY 28 OCTOBER

09:30 - 11:00

Rovere Room 1st floor C6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 11:15

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 13:00

Cedro Room West Hall

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 13:00

Gemini Room C3 Pav.

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event

Circular economy: one of the aspects of articulation of the value chains in the built environment supply chains

Language: Italian

Organized by: Ecomondo Technical Scientific Committee, ANPAR, GBC Italia

Construction must be completely rethought as a whole and in all its phases (design, construction, maintenance, end of life), also in consideration of its inclusion among the priority sectors of the measures provided for in the European Green Deal. The change is requested by the Next generation EU program, but it is already underway in some countries of the world and partly also in Italy (with Milan as the absolute protagonist). The possibility of obtaining funding from the European Union will be a further lever, but the change must be integral and coordinated by the Public Administration, which must be ready. The various protocols of the Green Building Council, like the other existing ones, can be a valid tool for evaluating the sustainability of the new building, but also of the maintenance and demolition works of buildings. We believe that the measures and interventions concerning infrastructures and their design, construction and maintenance methods must be shared between the ministries of ecological transition, economic development and infrastructure. The round table will be useful to verify the sharing of this approach and what is being done concretely to deeply rethink the way of building.

Section chair

Giorgio Bressi, ANPAR - National Association of Recycled Aggregates Producers

Program

9.30-9.45 Presentation by Marco Mari, GBC Italia (Green Building Council)

9.45-10.15 *The European Framework for Sustainable Construction*
Mattia Pellegrini, Head of Unit DG Env European Commission - B3 "Waste management and secondary material"

10.15-10.30 *Circular Design*
Patrizia Vianello, OICE (employers' Association representing Italian engineering, architectural and technical economic consulting organizations)

10.30-10.45 *Circular construction*
Sara Grassi, ANCE (National Association of Construction Companies)

10.45-11.00 GBC Italia protocols for assessing the sustainability of buildings and the built environment
Marco Caffi, GBC Italy (Green Building Council)

11.00-11.15 *The Envision protocol to assess the sustainability of infrastructures*
Lorenzo Orsenigo, ICMQ

11.15-12.45 Round table moderated by Roberto Coizet – Centro Materie Rinnovabili

Participants:
Paolo Barberi, ANPAR (National Association of Recycled Aggregates Producers)
Alessandro Bratti, ISPRA (Italian Institute for Environmental Protection and Research)
Edoardo Zanchini, Legambiente (Italian environmental association)
Marco Mari, GBC Italia (Green Building Council)
Antonello Martino, RFI (Italian Railway Network)
Piero Petrucco, ANCE (National Association of Construction Companies)

12.45-13.00 Conclusions

09:30 - 18:00

Tiglio Room A6 Pav

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event - Call for Papers

New management options and assessment tools to accelerate the transition towards circular economy

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Italian Chemical Society – Division Environmental and Cultural Heritage Chemistry, ATIA – ISWA, Italian LCA Network – WG Waste Management and Treatment

CALL FOR PAPERS

The commitment recently undertaken by the European Union through the initiative called "Green Deal", to tackle climate and environment-related challenges, requires a decisive action towards a significant reduction and a proper management of waste, to avoid or minimize its environmental impact.

In the meanwhile, the health emergency relating to the COVID-19 pandemic resulted in significant changes in the amount of generated waste (a decrease especially due to the partial suspension of economic activities), in its composition (an increase in disposable plastic for safety reasons, e.g. facemasks and gloves), and in management methods (with a higher probability of infection risks related also to urban waste).

Considering both the long-term targets and the contingent events, this seminar wishes to present innovative initiatives and projects of waste prevention and management, tools for good practices application, methods for the measurement of impacts from a "life cycle" perspective, models for the quantification of material flows and the evaluation of system circularity, case studies of environmental, economic and social sustainability assessment.

Section Chairs

Fabrizio Passarini, University of Bologna
Lucia Rigamonti, Polytechnic University of Milan
Fabio Iraldo, Sant'Anna School of Advanced Studies of Pisa
Danilo Bonato, D.G. Erion (Multi-consortium system for the management of waste associated with electronic products)

Programme

9.20-9.30 Introduction by the Chairs and a short summary on the papers presented through posters

9.30-10.45 Invited lectures

9.30-9.45 Augusto Bianchini (University of Bologna)
ViVACE: a visualization model to manage the companies' transition processes and achieve the objectives of the circular economy

9.45-10.00 Rosa Schina (ANCI Tuscany - National Association of Italian Municipalities)
Waste from Electrical and Electronic Equipment (WEEE): treasures to recover! – LIFE WEEE Project

10.00-10.15 Silvia Passoni (Lombardy Region)
Support European regions in reducing plastic waste – Interreg PLASTECO Project

10.15- 10.30 Massimiliano Mazzanti (University of Ferrara)
Innovative strategies for the circular bioeconomy: results of a survey on Italian manufacturing SMEs in 2019-20

10.30-10.45 Giulia Artibani, EFFRA (European Factories of the Future Research Association)
Made In Europe: the new partnership between Effra and EU Commission for a green, sustainable and resilient manufacturing in Europe

10.45-13.00 *Presentations selected from the Call for papers*

10.45-11.00 Emiliano Sparacino, Elisa Bologni, Alessia Rossi, Cristina Agostinelli (Moebeus Società Benefit s.r.l.), Dario Madeo, Chiara Mocenni (Dipartimento di Ingegneria dell'Informazione e Scienze Matematiche, University of Siena)
An integrated model for supporting aware decisions of companies in a circular and sustainable economy transition

11.00-11.15 Luca Maestri e Annalisa Moro (Circularity S.r.l. Benefit Society)
Piattaforma di Circularity

11.15-11.30 Asia Guerreschi, Dr. Mateusz Wielopolski (MBA ÆVOLUTION Circular Materials Innovation Bayreuth, Germany)
Assessing circularity potentials and customer education to drive ecologically and economically effective materials design for circular economy - a case study

11.30-11.45 Domenico Vito, Carol Maione (Milan Polytechnic University), Gabriela Fernandez (MOC-LLab, Dept.of Geography SDSU, California), Yahya Shaker (UNEP MGCY Marine Litter and Microplastic WG)
A Toolkit Guide to Tackling and Monitoring Waste in Coastal and Island Tourism Regions

11.45-12.00 Victor Dewulf (Recycleve)

Using computer vision to strengthen resilience of waste sorting infrastructure

12.00-12.15 Gianluca Cencia (ReLife)
Upcycling Together: the ReLife strategy for a Circular Economy

12.15-12.30 Marco Guolo (OSAI A.S. S.p.A.), Michele Pierobon (B.T.T. ITALIA S.r.l.)
The new era for the recovery of precious materials from scraps and waste: WEEE, innovative solutions and new generation plants

12.30-12.45 G.P. Agnusdei, V. Elia, M.G. Gnoni, F. Tornese (University of Salento)
Integrating last mile and first mile reverse logistics for supporting circular economy

12.45- 13.00 Cieri V., Zarra T., Belgiorno V.,Naddeo V. (Laboratorio di Ingegneria Sanitaria Ambientale (SEED), Dipartimento di Ingegneria Civile, Università degli Studi di Salerno), Rinaldi S. (Rinaldi Group, Giffoni Valle Piana, SA)
Gestione del fine vita dei materassi: aspetti programmatici e tecnologici

13.00-14.00 Break

14.00-17.15 *Presentations selected from the Call for papers*

14.00-14.15 Eleonora Perotto, Christan Buurstee, Andrea Betteo (Milan Polytechnic University)
The Universities for Sustainable Development (RUS) Network for the promotion of the circular economy in the universities

14.15-14.30 Tommaso Martini, Thomas Petrelli (IIS Galilei, Jesi High School)
Eco-sustainable biomaker of the future

14.30-14.45 Angelo Fazio, Domenico Scamardella (Alia Spa - Environmental Services)
WACCA Project: Waste Carbon Credit Account

14.45-15.00 Andrea Valentini (Studio Associato Wastelab), Luca Belfiore (Altraleonia srl), Mauro Sanzani (CO.SE.A. Consorzi Servizi Ambientali)

*The PAYT tariff based on the CO2 produced in the**Terre Roveresche Municipality (Pesaro Urbino Province)***
15.00-15.15 Antonella Lomoro (Amiu Puglia spa), Luigi Ranieri (Università del Salento), Giorgio Mossa, Roberta Pellegrino (Polytechnic University of Bari)
The Case of Put-or-Pay Contract for Stranded Posidonia Disposal in the Municipality of Bari

15.15-15.30 Valentina Di Lauro (CONSEA)
Management of food surpluses and incentives on the TARI waste fee: the ShareFood platform

15.30-15.45 Franco Fassio, Nadia Tecco (Università degli Studi di Scienze Gastronomiche)
Measurement as a regulation chain of food waste in food services: the case study of the web application "Food Waste Flow Balance" of the LIFE FOSTER project

15.45-16.00 Alfredo Ernesto Di Noia, Giuseppe Martino Nicoletti, Giulio Mario Cappelletti (Dipartimento di Economia, Management e Territorio - Università di Foggia)
Preliminary Assessment of Surpluses Food: The case of Coop Alleanza 3.0

16.00-16.15 Roberto Paladini, Ilaria Calò, Loreta Ragone (InnovAction Soc Coop)
Compost Community

16.15-16.30 M. Menegaldo, L. Pizzol, A. Zabeo (GreenDecision s.r.l., Marghera, VE), P.Scanferla, A.Marcomini (Fondazione Università Ca' Foscari, Venezia), S.A.Frisario, L.Zaninetta, G.Bonfedi (Eni Rewind S.p.A., San Donato M.se, Italy)
LCA of waste management scenario for the remediation of contaminated sites

16.30-16.45 D. Giraldi, G. Bernardini, G. Marcandalli, M. Fuschi (Ambiente s.p.a.), G. Rimondi, A. Lanuzza (Gruppo CAP)
CAP Group implements and certifies the management system for circular economy projects

16.45-17.00 Rovena Preka, Silvia Sbaffoni, Emanuela De Marco, Tiziana Beltrani, Erika Mancuso (ENEA)
ETV as a tool to help environmental technologies enter the market. The LIFEproETV project

17.00-17.15 Bruno Notarnicola, Giuseppe Tassielli, Pietro Alexander Renzulli (Dipartimento Jonico in "Sistemi Giuridici ed Economici del Mediterraneo: società, ambiente, culture", Università degli studi di Bari Aldo Moro, Taranto), Nicola Mancini (Italcave SpA, Taranto)
The application of Recommendation 2013/179 / EU to a Taranto company

17.15-17.30 Discussion and closure by the Chairs

Poster Session

WMV2-P1 Studio dei fenomeni legati all'accettabilità sociale degli impianti di biogas / Eliana Mancini, Andrea Raggi (Dipartimento di Economia, Università degli Studi G. d'Annunzio - Pescara)

WMV2-P2 Wolffia-Circular Economy Network / Ilaria Improta, Barbara Palmieri, Francesco Napolitano (Wolffia srl)

WMV2-P3 DESIA Palantir-Piattaforma per la valutazione delle perfomance e del comportamento degli utenti per l'applicazione della tariffazione puntuale / Moreno Carosella (Iquadro srl), Gianni Mascia (De Vizia Transfer SpA)

WMV2-P4 Pallet Second Life / Maria Vittoria Tozzi, Andrea Melideo, Nicola Menna, Giovanni Scopinaro (Honda Italia Industriale S.p.A.)

WMV2-P5 Indice di sostenibilità della gestione dei rifiuti urbani, nei Comuni Italiani, in base alla stima della produzione di CO2 / Andrea Valentini (Studio Associato Wastelab, Pesaro), Luca Belfiore (Altraleonia srl), Benedetta De Santis, Noemi De Santis (Giunko srl)

WMV2-P6 The environmental preferability of semi aerobic landfill for a sustainable waste management: evidences from life cycle assessment studies / Anna Mazzi, Michela Sciarrone, Roberto Raga (Università degli Studi di Padova)

WMV2-P7 Recycling Certificates: the missing incentive to close the loop of the circular economy / Mirco Volanti, Michele Peroni (La Cart srl, Rimini), Giorgia Agostini, Fabrizio Passarini (Università di Bologna)

WMV2-P8 Good Plastic: strumenti per l'innovazione sostenibile e la comunicazione dei prodotti in materiali polimerici / Laura Badalucco, Luca Casarotto, Pietro Costa, Erika Coccato, Gioia Ghezzo, Francesca Pian (Università Iuav di Venezia)

WMV2-P9 Life cycle assessment applied to the co-products of a livestock company / Arfò Sergio, Tabita Chiara, Matarazzo Agata (Department economics and business- University of Catania), La Rosa Angela Daniela (Norwegian University of Science and technology - Department of manufacturing and civil engineering)

WMV2-P10 Ecological Footprint as a management tool applied in agrifood markets in life cycle perspective / Raffaele Pandetta, Annamaria Noemi Vella, Agata Matarazzo (Department of Economics and Business, University of Catania), Gaetano Russo (Associazione Ecomutualistica Panvision), Alberto Emanuele Zappia (MAAS-Mercati Agro-Alimentari Sicilia SCPA, Catania)

WMV2-P11 Analisi di maturità circolare secondo lo standard BS 8001: l'esperienza di Cabot Italiana / D. Giraldi, G. Marcandalli, G. Bernardini (Ambiente s.p.a.), A. Milanesi, R. Ballardini (Cabot Italiana s.p.a.)

WMV2-P12 Il caso di studio del dimensionamento del servizio di raccolta «Porta a Porta» nel Comune di Latina / Alessandra Polettini, Raffaella Pomi (Dipartimento di Ingegneria Civile, Edile e Ambientale), Silvio Ascoli, Chiara Pagano, Anna Proietti (Azienda per i Beni Comuni di Latina)

WMV2-P13 Un nuovo modello operativo di audit ed implementazione degli SDG per le imprese italiane / Jacques Gandini (Studio Gandini s.r.l., Legnago, Verona)

WMV2-P14 Sistemi innovativi di raccolta differenziata dei rifiuti Comune di Taranto / Giampiero Mancarelli (Amiutaranto S.p.A.)

WMV2-P15 Il controllo del livello di riempimento, a distanza! / Roberto Casazza (Adgenera Srl)

WMV2-P16 Inventario di GHG di una organizzazione polisettoriale tarantina / Bruno Notarnicola, Giuseppe Tassielli, Pietro Alexander Renzulli (Dipartimento Jonico in "Sistemi Giuridici ed Economici del Mediterraneo: società, ambiente, culture", Università degli studi di Bari Aldo Moro, Taranto), Nicola Mancini (Italcave SpA, Taranto)

WMV2-P17 Application of Social LCA to a pilot project monitoring the charging infrastructure for EVs / Patania Concetta, Calì Rossella, Matarazzo Agata (Department of Economics and Business, University of Catania), Massaro Simone (BaxEnergy Italia s.r.l. Acireale - CT)

WMV2-P18 Circular economy and energy communities: exploring connections for urban transformation / Francesca Cappellaro (ENEA-SSPT-SEC, Bologna), Gianluca D'Agosta, Piero De Sabbata (ENEA-TERIN-SEN-CROSS, Bologna), Felipe Barroco, Claudia Carani (AESS), Carlo Alberto Nucci (Università di Bologna)

WMV2-P19 Monitoraggio delle emissioni diffuse di biogas da discarica attraverso sensori di metano montati su UAV / Giuseppe Tassielli, Bruno Notarnicola, Pietro Alexander Renzulli, Rosa Di Capua, Maurizio De Molfetta (Dipartimento Jonico in "Sistemi Giuridici ed Economici del Mediterraneo: società, ambiente, culture", Università degli studi di Bari)

WMV2-P20 Masseria 4.0 / Mariachiara Minoia, Mario Angelelli, Antonio Calisi (Unisalento)

- Progetto DECOR: oltre i cassonetti intelligenti / Domenico Scamardella, Angelo Fazio, Carlo Pinzauti, Alessandro Mecocci, Alessandro Bartolini, Claudia Zoppetti (Alia Servizi Ambientali Spa)

WMV2-P21 Progetto Wutsy-Waste User Tracking System / Domenico Scamardella, Angelo Fazio, Carlo Pinzauti (Alia Servizi Ambientali Spa)

WMV2-P22 La Tracciabilità in un Impianto Rifiuti / Introzzi Matteo, Claudio Lombardi, Pasquale Taronna (Xennial srl)

WMV3-P23 The application of an environmental and ethical disciplinary in agri-food chain. A case study / Erica Pagano, Sergio Arfò, Agata Matarazzo (Department Economics and Business - University of Catania), Patri' Giuseppe, Patrì Daniela ((Ecofarm S.R.L.o.p, Caltanissetta)

09:45 - 13:00

Diotallevi 1 Room South Hall

BEACON CONFERENCES
Ecomondo Event - Call for Papers

Caring for soil is caring for life: soil health policies and innovation - ITALIAN LANGUAGE SESSION

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, European Mission for Soil Health and Food, Re Soil Foundation, Coldiretti

Life on Earth depends on healthy soils. The soil under our feet is a living system – home to many fascinating plants and animals, whose invisible interactions ensure our well-being and that of the planet. Soils provide us with nutritious food and other products as well as with clean water and flourishing habitats for biodiversity. At the same time, soils can help slow the onset of climate change and make us more resilient to extreme climate events such as droughts and floods. Soils preserve our cultural heritage and are a key part of the landscapes that we all cherish. Simply put, healthy living soils keep us, and the world around us, alive. Although we pay very little attention to soil, which is a fragile resource that needs to be carefully managed and safeguarded for future generations. One centimeter of soil can take hundreds of years to form but can be lost in just a single rainstorm. Even where soil degrades more slowly hidden beneath our feet, the effects are severe and difficult to reverse. 60-70% of EU soils are unhealthy, 25% of land are at high or very high risk of desertification in Southern, Central and Eastern Europe. It is estimated that the costs associated with soil degradation in the EU exceed 50 billion € per year. All this not only affects our economy, but also safe food production and what nature provides for humanity to survive. The European Commission Mission's goal is that by 2030, at least 75% of all soils in each EU Member State are healthy or show significant improvement. So, we need to act now!

The conference will offer an overview of the evolution of strategies and policies closely related to soil health and will show case studies of how a regenerative agriculture and the circular bioeconomy, which see their starting and ending point in the soil, represent an essential tool for reversing the course of soil degradation, creating value in the territories.

Section Chairs

Catia Bastioli, Member of the EC Mission Board for Soil Health and Food
Kerstin Rosenow, Head of Unit Research and Innovation, DG AGRI

Programme

9.35 Welcome by the Chair

9.40 Giancarlo Giorgetti, Minister of Economic Development

9.50 Andrea Tilche, Representative of Italian Ministry for Ecological Transition

10.00 Roberto Moncalvo, Coldiretti - Re Soil Foundation

10.10 Angelo Riccaboni, national representative of the Mission Soil Health and Food

10.20 **Soil Health and Food policy framework**

The European Mission Soil Health and Food
Catia Bastioli, Member of the EC Mission Board for Soil Health and Food

The EU Soil Observatory
Giovanni De Santi, European Commission - DG Joint Research Centre

The Farm to Fork strategy within the new Common Agricultural Policy
Tassos HANIOTIS, Director of Strategy, Simplification and Policy Analysis in the Directorate General for Agriculture of the European Commission

Soil care in the Biodiversity Strategy 2030
César Luena, MEP, rapporteur of the Parliament on Biodiversity Strategy 2030

Circular bioeconomy as an essential tool to create value reversing the course of soil degradation
Peter Wehrheim, Head of the Bioeconomy and Food Systems Unit

The European Action Plan for organic farming
Eduardo Cuoco, Director of IFOAM Organics Europe

New funding opportunities in sustainability and biodiversity
Marco Falzetti, Director of the Agency for the Promotion of European Research (APRE)

11.20 **Research and innovation networks for soil quality**

The regenerative movement Kiss The Ground
Finian Makepeace, Co-founder of Kiss the Ground

The lighthouse farm project
Giulia Bongiorno, Researcher at the soil biology Group of Wageningen
Mariana De Bernardini, coordinator of the lighthouse network

The community hub for all things soil: the lighthouse network in UK
Bridget Emmet, UK Centre for Ecology & Hydrology

Regeneration for clean and healthy soil: the Italian case history
Sara Guerrini, Re Soil Foundation Agriculture Public Affairs - Novamont

Call for papers: the most innovative solutions for soil health and food

Toward healthier soils increasing SOC and storing CO2: the Black To the Future project (funded by Eit-Food)
Nicolas Greggio, University of Bologna

From Enochar to Long Term Experiment Platform (LTEP): assessing long term effects of compost and biochar application to soils and circular patterns
Diego Marrazza, University of Bologna

Biodegradable plastics: effects on functionality and fertility of two different soils
Martina Mazzon, University of Bologna

ZERO The interactive guide to non-waste
Barbara Molinario, Road to green 2020

12.40 Conclusion by the chair

POSTER SESSION

Creation of an Area Brand in the protected territories of Mount Etna and Alcantara River
Valerio Salvatore Del Fiume, University of Catania

09:45 - 13:00

Ecomondo Digital Platform

BEACON CONFERENCES
Ecomondo Event - Call for Papers

Caring for soil is caring for life: soil health policies and innovation - SESSION WITH STREAMING IN ENGLISH LANGUAGE

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, European Mission for Soil Health and Food, Re Soil Foundation, Coldiretti

Life on Earth depends on healthy soils. The soil under our feet is a living system – home to many fascinating plants and animals, whose invisible interactions ensure our well-being and that of the planet. Soils provide us with nutritious food and other products as well as with clean water and flourishing habitats for biodiversity. At the same time, soils can help slow the onset of climate change and make us more resilient to extreme climate events such as droughts and floods. Soils preserve our cultural heritage and are a key part of the landscapes that we all cherish. Simply put, healthy living soils keep us, and the world around us, alive. Although we pay very little attention to soil, which is a fragile resource that needs to be carefully managed and safeguarded for future generations. One centimeter of soil can take hundreds of years to form but can be lost in just a single rainstorm. Even where soil degrades more slowly hidden beneath our feet, the effects are severe and difficult to reverse. 60-70% of EU soils are unhealthy, 25% of land are at high or very high risk of desertification in Southern, Central and Eastern Europe. It is estimated that the costs associated with soil degradation in the EU exceed 50 billion € per year. All this not only affects our economy, but also safe food production and what nature provides for humanity to survive. The European Commission Mission's goal is that by 2030, at least 75% of all soils in each EU Member State are healthy or show significant improvement. So, we need to act now!

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10:00 - 11:00

Monitoring & Control Room D4 Pav.

MONITORING & CONTROL
Ecomondo Event

Language: Italian

10:00 - 11:00

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

10:00 - 11:30

Ecomondo Digital Platform

OTHER PROPOSALS
Workshop

Language: Italian

10:00 - 12:00

OTHER PROPOSALS
Workshop

Language: Italian

10:00 - 12:30

Ecomondo Digital Platform

BLUE GROWTH
Event with the European Commission

Unlocking Opportunities for a Green Blue Economy - SESSION WITH STREAMING IN ITALIAN LANGUAGE

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The blue bioeconomy sector has high potential in contributing not only to blue growth but also in supporting a green transition for industries. This one-day thematic workshop is organised in the context of the BlueInvest platform and shall bring together entrepreneurs, corporates, investors and stakeholders from the blue bioeconomy. It shall look into areas where European innovation can have a competitive advantage and potentially transform industries. The activities will tackle the several areas as, for instance, algae, novel foods, nutraceuticals, food additives and animal feeds, pharmaceuticals and cosmetics, green chemicals and materials, enzymes for green industrial processing or decontamination.

Interested in attending physically? Let us know here

Section Chairs

Vincent Favrel, Head of Unit "Sustainable Blue Economy" or Luca Marangoni, Deputy Head of Unit, European Climate, Infrastructure and Environment Executive Agency (CINEA)

Programme

10.00-10.15 **WELCOME**

Remarks by
Representative, DG MARE
Representative, BlueInvest

10.15-11.15 **THE GREEN BLUE ECONOMY: MARKET DEVELOPMENTS, INNOVATION TRENDS AND INVESTMENT OPPORTUNITIES**
Moderated panel discussion with Q&A

Five key stakeholders shall present market opportunities for the Green Blue Economy, including the most recent innovation trends and major developments.

The sectors of opportunity shall cover blue bioeconomy, circular economy solutions including ocean plastic pollution and the sustainable management and conservation of natural capital.

11.15-12.00 **INVESTOR SPOTLIGHT: FINANCING A RESTORATIVE GREEN BLUE ECONOMY FOR HEALTHY OCEANS AND WATERS**
Moderated panel format, with Q&A

Four investors focused on the Blue Economy shall be invited to do a reverse pitch.

Luke HALSEY, Partner, AiiM Partners
Lynton Francois BURGER, Ocean Impact Investor, Venture4th
Investors (TBC)

12.30-13.30 **BREAK**

13.30-13.45 F**UNDING OPPORTUNITY: LIFE PROGRAMME**

A showcase of LIFE Programme – EU's funding instruments for the environment and climate action: initiatives, projects and results
Angelo SALSI, Head of Department, CINEA.D - Natural Resources, Climate, Sustainable Blue Economy and Clean Energy

13.45-14.45 **PITCH SESSION I | GREEN BLUE BIOECONOMY**

5 high potential companies and projects will pitch to an audience of investors, venture mentors and coaches.

FICOSTERRA, Biological crop booster technology

REMEDIA LIFE, Remediation of Marine Environment and Development of Innovative Aquaculture

EASYFEED, Innovative, organic aquaculture formula for feed

FISH4FISH, Biodegradable alternative to plastic packaging for fish

BIOGEARS, Biobased ropes for aquaculture

14.45-15.00 **BREAK**

15.00-16.00 **PITCH SESSION II | GREEN BLUE CIRCULAR ECONOMY**

5 high potential companies and projects will pitch to an audience of investors, venture mentors and coaches.

LIFE WASTE2PROTEIN, Insect protein production from biowaste as sustainable alternative to fish and soy meal for animal feed

LIFE-LIBAT, Innovative technological solution for the recycling of primary lithium batteries, particularly lithium-manganese batteries; process integrates mechanical pre-treatment with a hydrometallurgical treatment

BIOFABRIK, Plastic catalytic depolymerization

ORIGIN BY OCEAN, Feed from blue-green algae & bladderwrack. Industrial-scale collection of blue-green algae and large-scale bladderwrack farming

PUROCEANS, Removing pollution and micro-plastics from the ocean's seabed.

16.00-17.30 **B2B MATCHMAKING SESSION**

The BlueInvest team will facilitate 1:1 meetings for attendees of the workshop.

10:00 - 12:30

Workshop Room B4 Pav.

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event: Policies & Regulations

Impact assessment of the start of the regulation on the waste management companies and perspectives on the new regulatory measures

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Utilitalia

In 2021 the regulatory activity concerning municipal waste management was marked by some very important measures: tariff regulation for treatment plants, the application of national criteria concerning technical quality and contracts, the updating of the Tariff Method for Waste, consistently with the principles of transparency and an efficient and effective allocation of public resources deriving from tariffs charged to users. The conference aims to make an impact assessment of the regulatory measures on operational activity and investment programs of the waste management companies. An analysis of the scope of the most recent regulatory measures will also be carried out.

Section chair

Alessandro Cecchi, Executive Board of Utilitalia, Director of Regulatory Affairs Iren S.p.A.

Programme

10.00 Introduction and coordination by the Chair
Alessandro Cecchi, Executive Board of Utilitalia, Director of Regulatory Affairs Iren S.p.A.

10.15 *Governance, management, regulation: snapshots of the national situation*
Francesca Mazzarella, Director of Utilitatis (research foundation)

10.30 *Assessments on new regulatory measures*
Paolo Carta, Director of Regulatory Affairs Utilitalia
Luca Tosto, FISE ASSOAMBIENTE (Association of environmental services companies)
Andrea Ferri, IFEL-ANCI (National Association of Italian Municipalities)
Marisa Abbondanzieri, President of ANEA (National Association of Territorial Government Authority)

11.30 **Panel discussion. *Operators' point of view on new regulatory measures: MTR2, plant tariffs, contractual and service quality***

Moderator: Luca Mariotto, Director of Environmental Sector of Utilitalia
Ester Benigni, Head of Regulatory Affairs and Competition, A2A Group (Italian multi-utility group)
Filippo De Simoi, Head of Regulation and Tariff System, Hera S.p.A. (Italian multi-utility group)
Filippo Belometti, Head of Finance, M&A, Business Development Montello S.p.A. (Recovery and recycling of organic and plastic waste society)
Caterina Grieco, Head of Management Control & Service Level Agreement, AMA Roma S.p.A.
Stefania Tomaro, Sole Director of SEA Campobasso S.p.A.

12.30 Conclusions
Lorenzo Bardelli, Director of Environment Division of Italian Regulatory Authority for Energy, Networks and Environment (TBC)

10:00 - 12:30

Noce Room A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

10:00 - 13:00

Neri 1 Room South Hall

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event: Policies & Regulations

End of Waste: case by case permit and the monitoring system

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ISPRA

The Law 128/2019 introduced the possibility to issue authorizations pursuant to Articles 208, 209 and 211 for carrying out the recovery operations resulting in end of waste, when in absence of specific national criteria. Paragraph 3-ter establishes a monitoring system of the plants authorized "case-by-case" assigning the competence to the Italian National System for Environmental Protection (SNPA).
The day represents an opportunity to evaluate the application of the Law, the critical issues and the solutions adopted during its application.

Section Chair

Valeria Frittelloni, Director of the National Centre of Waste and Circular Economy, ISPRA (Italian Institute for Environmental Protection and Research)

Programme

Introduction
Marco Lupo, General Director of ARPA Lazio Region (Regional Agency for the Protection of the Environment) and Vice President SNPA (Italian National System for Environmental Protection)

The framework of National decrees and the implementation of the legislation on authorizations on a case-by-case basis
Pierluigi Altomare, General Directorate for the Circular Economy, Italian Ministry for ecological transition

The SNPA Guidelines and the checks carried out by the Network
Francesca Minniti, ISPRA (Italian Institute for Environmental Protection and Research)

Some practical cases:

Some examples of "case-by-case" authorizations in Veneto Region
Luigi Masia, Veneto Region

Some examples of "case-by-case" authorizations in Emilia Romagna Region
Barbara Villani, ARPAE (Regional Agency for the Protection of the Environment)

The checks carried out in Piedmont
Elena Foddanu, ARPA Piedmont Region (Regional Agency for the Protection of the Environment)

The checks carried out in Campania
Alberto Grosso ARPA, Campania Region (Regional Agency for the Protection of the Environment)

Roundtable
Moderator: Luigi Palumbo, Ricicla TV

Paolo Barberi, President of FISE Unicircular (Circular Economy Companies Union)
Filippo Brandolini, Vicepresident of Utilitalia (Italian federation of energy, water and environmental services)
Marco Ravazzolo, Environment Department Manager of Confindustria (General Confederation of Italian Industry)
Massimo Centemero, General Director of Italian Composting and Biogas Association

Conclusions by the Chair

10:00 - 13:00

Biobased Industry Room D1 Pav.

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Ecomondo Event - Call for Papers

Trees, forests and agro-forestry: green infrastructures to support the environment, the economy and the quality of life

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Confagricoltura, UNITUS

CALL FOR PAPERS

The Italian National Recovery and Resilience Plan, within the broader Next Generation program for Europe, definitely recalls the importance of reforestation, ecological restoration of natural environments and landscapes and forest infrastructures in urban and rural environments, as fundamental objectives for the ecological transition of our country, and of Europe as a whole. The European target of planting billions of trees is identified as an essential tool for a win-win strategy, to achieve at the same time an effective mitigation of climate change, the conservation and recovery of biodiversity, and a better quality of life and human health. Among the priority areas to be ecologically restored there are certainly lowland environments, coastal areas, and wetlands and riparian ecosystems, all areas where agroforestry, afforestation and green infrastructures will be able to make a decisive contribution to the achievement of the objectives of the European Green New Deal.

Section Chairs

Giuseppe Scarascia Mugnozza, UNITUS - University of Viterbo, La Tuscia
Enrico Allasia, President of FNP Confagricoltura forest resources - General Confederation of Italian Agriculture

Programme

10.00 Introduction
Giuseppe Scarascia Mugnozza, University of Viterbo, La Tuscia

10.20 Green and Forest Infrastructures: environment, climate, economy
Alessandra Stefani, Italian Ministry of Agricultural, Food and Forestry Policies

10.40 Ecological Restoration and Afforestation
Renzo Motta, University of Turin/SISEF - Italian Society of Silviculture and Forest Ecology

11.00 Agroforestry: back to the future!
Giustino Mezzalira, Representative of Veneto Region Agricolture

11.20 Planning Forest Infrastructures
Sabrina Diamanti, Representative of Conaf - Council of the National Order of Agronomists and Forestry Doctors

11.40 Implemention and management of forest infrastructures
Rosi Sgaravatti, Assoverde - Italian association of green builders

12.00 *Afforestation, human health and quality of life*
Giorgio Matteucci, *CNR - National Research Council, ISS - Italian national institute of health, CURSA - University Consortium for Socioeconomic Research and the Environment*

12.20 *Green financing and support to afforestation projects in urban and rural areas*
Marco Marchetti, Fondazione AlberItalia

12.40 ***Case studies from call for papers***

Plants in an urban environment, a journey between art and science
Laura Passatore, Istituto di Ricerca sugli Ecosistemi Terrestri (IRET) - CNR, Andrea Conte, Associazione Climate Art Project, Andreco Studio

Suburban Park "Angelo D'Arrigo" in Valverde: Co-design model for the redevelopment of urban areas for the well-being of the community
Trovato A., Guarino M. C., Sinibaldi F., Ecoistituto Siciliano

13.00 Conclusions
Enrico Allasia, President of FNP Forest Resources of Confagricoltura

Sessione Poster

I Boschi Mercatino Franchising: tutela dell'ambiente con il meccanismo virtuoso del riuso
Mercatino srl in partnership con Up2You

Fodder From Forest
Uranio Mazzanti - Organismo di Ricerca Crf - Cooperativa Ricerca Finalizzata

Analisi dei fattori socio-culturali, umani ed ambientali che promuovono la nascita e lo sviluppo di agro-forestazione in aree urbane, modelli di auto-produzione e scambio tra gli attori
Evelina Barbanti, Chiara Scialdone

10:00 - 13:00

Ravezzi 1 Room South Hall

BEACON CONFERENCES
Ecomondo Event

Alternative financial instruments and tools for a sustainable transition

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and ART-ER

The beacon conference will focus on financial instruments to support SMEs, Start-ups and new firms in their green growth and sustainable investment. Alternative finance market - that is, alternative financial instruments to traditional bank credit - a gradually growing market - will be presented too. These are tools that offer SMEs, Start-ups and new firms wishing to undertake investment and growth paths different opportunities and that, in addition to allowing one diversification of the company's sources of financing can contribute in a way significant to increase the visibility of the company and to encourage and the entry of new investors.

The conference will be an opportunity for a discussion with experts in the field and to hear from some testimonials from companies that have decided to use these tools.

Section Chairs

Enrico Cancila and Daniela Sani, ART-ER - "Attractiveness Research Territory" Emilia-Romagna Joint Stock Consortium

Programme

10.00 Introduction by the Chairs

10.20-10.50 *Financing a new generation of firms: Next Generation EU and beyond*
Silvia Grandi, University of Bologna and Italian Ministry of Economic Development

10.50-11.20 *The future of European taxonomy: a new classification for harmful activities and those without significant impacts on the environment*
Paolo Marullo Reedtz, Member of the Sustainable Finance Platform

11.20-11.40 *Finance for sustainable development between SRI and new financial services promoting SDGs*
Francesco Timpano, working group coordinator of ASVIS - Italian Alliance for Sustainable Development

11.40-12.00 *The Digital Impact Platform as sustainable finance services*
Filippo Addarii, PlusValue Advisory Ltd

12.00-12.20 *Investors and sustainable investment*
Mariagiulia Drivas, Doorway platform co-founder and Business Angel

12.20-12.40 *Impact investing for sustainable business models in the Southern Mediterranean. Common challenges, global opportunities*
Alessandro Miraglia, SwitchMed Initiative

12.40 *Discussion and Closure*
Vincenzo Colla, Assessor for economic development and green economy, work, training, Emilia-Romagna Region

10:00 - 13:00

Reclaim Expo Room C3 Pav.

BIOREMEDIATION AND SITE REQUALIFICATION
Ecomondo event

Ecological transition and Recovery Fund in the remediation and redevelopment of contaminated sites in Italy

Language: Italian

Some introductory reports will be provided by invitation, by the Administration or Public Institutions considering the community guidelines for the transition to the circular economy. A round table will follow with the possibility of interaction with the public.

Section Chairs:

Marco Petrangeli Papini, University of Rome "La Sapienza"
Donatella Giacopetti, UNEM - Energies for Mobility Union
Giorgio Zampetti, Legambiente (Italian environmental association)

Programma

10.00-10.05 Introduction by the Chairs

10.05-10.15 Welcome
Giuseppe Lo Presti, Directorate General for the Environmental Remediation, Italian Ministry for Ecological Transition

10.15-10.30 Andrea Minutolo, Scientific Director of Legambiente

10.30-10.45 Marco Lupo, Director of ARPA (Regional Agency for the Protection of the Environment) of the Lazio Region – Vice President of SNPA (National System for Environment Protection)

10.45-11.00 Guido Bonfedi, Head of Technological Innovation, Technical Coordination and Laboratory Services, ENI Rewind

11.00-11.30 *The first guidelines on the assessment of environmental damage (SNPA n. 33/2021): remediation identity and differences*
Antonio Guariniello, Paola Di Toppa, Paolo Rinaldi, Maurizio Guerra - ISPRA (Italian Institute for Environmental Protection and Research)

11.30-11.45 Elisabetta Perrotta, FISE Assoambiente (Association of environmental services companies)

11.45-12.00 Rossella Muroni, Vice President of the Chamber of Deputies Environment Commission

12.00-13.00 Round table with speakers

Moderators: Marco Petrangeli Papini, Donatella Giacopetti e Alessandro Bratti (ISPRA General Director)

10:00 - 13:30

Global Water Expo
Room D2 Pav.

SYSTEMIC WATER CYCLE MANAGEMENT AND VALORIZATION
Ecomondo Event

Linking recovery fund to regulation and long-term sustainable finance: how are we supporting climate neutral and circular water-smart economy? European case studies and innovations

Language: Italian

Organized by: European Water Regulators (WAREG), Ecomondo Scientific Technical Committee, UTILITALIA, REF Ricerche

According to an OECD study**, the current capital expenditure only in the drinking water and wastewater industry in the 27 EU Member States is EUR 85 billion per year, with an estimated investment gap of more than EUR 25 billion per year until 2030 to fulfil all the requirements of the EU legislative acquis on water. Additional challenges are related to the achievement of the ambitious Green Deal objectives and the strategies to strategically benefit of the "Next Generation EU" plan. The workshop will provide an overview of relevant EU and national public and private investments tools in place or under development to ensure a full transition to ecological and carbon neutrality by 2050.

Section Chairs

Andrea Guerrini, WAREG, Ecomondo Scientific Technical Committee
Samir Traini, "REF Ricerche" Society
Giordano Colarullo, General Director of UTILITALIA (Italian federation of energy, water and environmental services)

Programme

10.00 Introduction by the Chairs

10.20 Climate Bank Roadmap – EIB's support to climate action and environmental sustainability
Alessandro Ronzoni, European Investment Bank

10.40 EU taxonomy in the water services: how to align with the new paradigm to finance "green" investments in the water sector
Samir Traini, Laboratorio SPL "REF Ricerche" Society

11.00 The contribution of regulation to European Green Deal objectives: tools for promoting innovation and carbon neutrality
Andrea Guerrini, ARERA (Italian Regulatory Authority for Energy, Networks and Environment)

11.20 Q&A and discussion

11.30 Break

11.40 Linking regulation and innovation in water services: best practices and strategies from local governance.
Alessandro Mazzei, Tuscany Region Water Authority (TBC)

12.00 Green bonds – Italian case studies
Gianpiero Grotti, IREN SpA (Italian multi-utility group)
Monica Manto, ViveracquaIREN SpA

12.40 Regulating choices for improving or promoting circular economies in water services: an analysis on WAREG regulators experience.
Christian Minelli, WAREG

13.00 Analysis of ecosystem services to define environmental and resource costs (ERC) for integrated water service
Riccardo Santolini, University of Urbino "Carlo Bo'"

13.20 Q&A

13.40 **Discussion and Closure (by the chairs)**

10:00 - 13:30

Diotallevi 2 Room South Hall

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event

CITIZENS MATTER. The role of people in the sustainable transformation of packaging processes

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Italian Cluster "Made in Italy", University of Bologna

The Observatory in Packaging Innovation of the University of Bologna focuses its attention on a key link in the value chain, the consumers of packaged products: by driving innovation, in fact, citizens can significantly change the sustainability outcome of the sector and, at the same time, they can influence the behavior of every other actor in the chain.

Awareness and knowledge are at the basis of a feeling of co-responsibility and participation that can be activated in citizenship, all fundamental themes for closing the circle. If we manage to treat packaging with the appropriate importance, it can once again become a fantastic opportunity for post-industrial society and can make up for the Anthropocene. For this reason, packaging is not only an issue with problems that seek answers from the industrial, chemical, graphic-communication, process and logistics sectors, but it is also a problem linked to our behaviors, and must become a collective opportunity.

Which realities point the way? Which virtuous cases can inspire us? Which companies have understood this process? In which cities do Public Administrations encourage, incite and form these consciences?

The event will analyze the key role of citizens in the sustainable transformation of packaging processes together with companies, associations, consortia, institutions and researchers.

Section Chair
Flaviano Celaschi, Italian Cluster "Made in Italy"

Programme

10.00-10.10 *Introduction to the Conference: Presentation and ongoing research methodologies*
Flaviano Celaschi, Italian Cluster "Made in Italy"

10.10-10.25 *Presentation of the Packaging Innovation Observatory of the University of Bologna*
Clara Giardina, Advanced Design Unit - Alma Mater University of Bologna

10.25-11.20 *Awareness and Responsibility*

Conai Consortiurm– *Simona Fontana, Head of study center prevention area*
Cosmetica Italia – *Matteo Locatelli, Vice president*
Tomra – *Filippo Montalbetti, Circular Economy, VP Governmental Affairs Central Europe*

11.20-12.15 *Infrastructure and Engagement*

Asvis (Italian Alliance for Sustainable Development)– *Eleonora Rizzuto, Coordinator of the ASviS Goal 12 WG, President and founder of AISEC (*Italian Association for the Development of the Circular Economy)
University of Basilicata Region – *Saverio Massaro Ph.D., Dicem, Dip. European and Mediterranean Cultures*
Hera – *Milena Zappoli, Head of Innovation, Technology and Environment and Fleet Systems Management*

12.15-13.10 *Ethics and Collaboration*

Carta Etica del Packaging Foundation – *Lucia Lamonarca, Marketing and Communication Consultant*
FIU, Urban Innovation Foundation – *Mauro Bigi, Sustainability and accessibility coordination*
Altroconsumo – *Luisa Crisigiovanni, General Secretary*

13.10-13.30 Q&A, Discussion and Closure (by the chair)

10:00 - 17:30

Ravezzi 2 South Hall

BLUE GROWTH
Event with the European Commission

Unlocking Opportunities for a Green Blue Economy - ENGLISH LANGUAGE SESSION

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The blue bioeconomy sector has high potential in contributing not only to blue growth but also in supporting a green transition for industries. This one-day thematic workshop is organised in the context of the BlueInvest platform and shall bring together entrepreneurs, corporates, investors and stakeholders from the blue bioeconomy. It shall look into areas where European innovation can have a competitive advantage and potentially transform industries. The activities will tackle the several areas as, for instance, algae, novel foods, nutraceuticals, food additives and animal feeds, pharmaceuticals and cosmetics, green chemicals and materials, enzymes for green industrial processing or decontamination.

Interested in attending physically? Let us know here

Section Chairs

Vincent Favrel, Head of Unit "Sustainable Blue Economy" or Luca Marangoni, Deputy Head of Unit, European Climate, Infrastructure and Environment Executive Agency (CINEA)

Programme

10.00-10.15 **WELCOME**

Remarks by
Representative, DG MARE
Representative, BlueInvest

10.15-11.15 **THE GREEN BLUE ECONOMY: MARKET DEVELOPMENTS, INNOVATION TRENDS AND INVESTMENT OPPORTUNITIES**
Moderated panel discussion with Q&A

Five key stakeholders shall present market opportunities for the Green Blue Economy, including the most recent innovation trends and major developments.

The sectors of opportunity shall cover blue bioeconomy, circular economy solutions including ocean plastic pollution and the sustainable management and conservation of natural capital.

11.15-12.00 **INVESTOR SPOTLIGHT: FINANCING A RESTORATIVE GREEN BLUE ECONOMY FOR HEALTHY OCEANS AND WATERS**
Moderated panel format, with Q&A

Four investors focused on the Blue Economy shall be invited to do a reverse pitch.

Luke HALSEY, Partner, AiiM Partners
Lynton Francois BURGER, Ocean Impact Investor, Venture4th
Investors (TBC)

12.30-13.30 **BREAK**

13.30-13.45 F**UNDING OPPORTUNITY: LIFE PROGRAMME**

A showcase of LIFE Programme – EU's funding instruments for the environment and climate action: initiatives, projects and results
Angelo SALSI, Head of Department, CINEA.D - Natural Resources, Climate, Sustainable Blue Economy and Clean Energy

13.45-14.45 **PITCH SESSION I | GREEN BLUE BIOECONOMY**

5 high potential companies and projects will pitch to an audience of investors, venture mentors and coaches.

FICOSTERRA, Biological crop booster technology

REMEDIA LIFE, Remediation of Marine Environment and Development of Innovative Aquaculture

EASYFEED, Innovative, organic aquaculture formula for feed

FISH4FISH, Biodegradable alternative to plastic packaging for fish

BIOGEARS, Biobased ropes for aquaculture

14.45-15.00 **BREAK**

15.00-16.00 **PITCH SESSION II | GREEN BLUE CIRCULAR ECONOMY**

5 high potential companies and projects will pitch to an audience of investors, venture mentors and coaches.

LIFE WASTE2PROTEIN, Insect protein production from biowaste as sustainable alternative to fish and soy meal for animal feed

LIFE-LIBAT, Innovative technological solution for the recycling of primary lithium batteries, particularly lithium-manganese batteries; process integrates mechanical pre-treatment with a hydrometallurgical treatment

BIOFABRIK, Plastic catalytic depolymerization

ORIGIN BY OCEAN, Feed from blue-green algae & bladderwrack. Industrial-scale collection of blue-green algae and large-scale bladderwrack farming

PUROCEANS, Removing pollution and micro-plastics from the ocean's seabed.

16.00-17.30 **B2B MATCHMAKING SESSION**

The BlueInvest team will facilitate 1:1 meetings for attendees of the workshop.

11:00 - 13:00

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

11:00 - 13:00

Acero Room 1st floor A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

11:30 - 12:30

OTHER PROPOSALS
Workshop

Language: Italian

11:30 - 13:00

Abete Room West Hall

OTHER PROPOSALS
Workshop

Language: Italian

11:30 - 13:00

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

Language: Italian

14:00 - 17:30

Workshop Room B4 Pav.

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event

Language: Italian

14:00 - 17:30

Reclaim Expo Room C3 Pav.

BIOREMEDIATION AND SITE REQUALIFICATION
Ecomondo Event - Call for Papers

Sustainable strategies for the remediation of polluted sites: virtuous examples and recent developments in national and international applied research

Language: Italian

CALL FOR PAPERS

The conference will be more specifically dedicated to the remediation technologies, with case studies that highlight their actual extent and their limits. The interventions will be fully selected by the call for papers. In recent years, scientific research has allowed significant improvement both in the understanding of the dynamics of contamination and in the development of appropriate technologies for the characterization and remediation of polluted sites. There are notable developments in the field of "sustainable" remediation technologies, a term which in the case of remediation often coincides with that of "effective".

Section Chairs
Marco Petrangeli Papini, University of Rome "La Sapienza"
Donatella Giacopetti, Unem - Energies for Mobility Union

Programme

14.00-14.15 Introduction by the Chairs

14.15-17.15 ***Speeches from the Call for Papers***

14.15-14.30 *Fast and versatile in situ treatment for sites contaminated by petroleum hydrocarbons - Italian and international cases*
M. Donati et al., REGENESIS Italia

14.30-14.45 *Effects of non-ionic Surfactants on the Mobilization of Hydrophobic Organic Contaminants: Batch and Column Experiments*
N. Amanat et al., University of Rome "La Sapienza" - Chimec

14.45-15.00 *Ecotherm smart unit system integration – il rivoluzionario sistema integrato per la gestione degli impianti di bonifica*
L. Mantilacci e D. Natoli, Ecotherm

15.00-15.15 *In-situ Thermal Desorption: Case study for soil polluted by cocktail of contaminants*
Youssef Ourrid et al., Haemers Technologies

15.15-15.30 *In situ thermal desorption intervention*
R. Costa e F. Ioppolo, Arcadis Italia S.r.l.

15.30-15.45 *Ex-situ soil washing project in France*
Lucia Maruffi, REMEA

15.45-16.00 *Implementation of a pilot scale bioelectrochemical process for the remediation of groundwater*
M. Zeppilli et al., University of Rome "La Sapienza"

16.00-16.15 *End of waste solution for the remediation of soils contaminated by pyrite ashes*
P. Scanferla et al., Ca' Foscari University Foundation, TEV group srl, ARPAL, Mapei S.p.A. University of Padua

16.15-16.30 *New perspectives for rethinking landscapes in crisis. Reclamation as an integrated tool for urban and territorial regeneration*
V. Vittiglio e Libera Amenta, University of Campania Region "Luigi Vanvitelli" - University of Naples Federico II

16.30-16.45 *Application of the D.M. 46/19 to a real case*
P. Angelini et al., Eni –Energy Evolution Green / Traditional Refining & Marketing - HPC Italia s.r.l;

16.45-17.00 *Is sustainable remediation possible? A real case of groundwater remediation with no water consumption*
D. Donati et al., HPC Italia

17.00-17.15 *Eni Rewind remediation technologies at the Gela (CL) site: Eni's e-Hyrec® technology*
C. Lanari et al., ENI Rewind

17.15-17.25 *Activities and progress of the reclamation of fuel outlets active in Italy through an integrated treatment approach based on ISCO and ENA*
Alberto Leombruni (PeroxyChem LLC) , Francesco Ioppolo (Arcadis Italia Srl), Mike Mueller (PeroxyChem LLC)

17.25-17.35 Phytotechnologies, Synergy between research and industry for urban interventions
L. Passatore et al., Istituto di Ricerca sugli Ecosistemi Terrestri (IRET) - Consiglio Nazionale delle Ricerche (CNR) - C.I.S.A. SpA

17.35-17.40 Debate and conclusions

14:00 - 17:30

Gemini Room C3 Pav.

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event- Call for Papers

Eco-innovative solutions for the valorization of End-of-life tyre and rubber-based production residues

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and FISE Unicircular sect. Unirigom

CALL FOR PAPERS

Tyres and automotive component applications, which represent overall about 75% of the rubber demand at the European level, makes very little or no use of reprocessed rubber feedstock, mainly for technical issues. Reclaimed rubber from End-of-Life Tyres (ELT) recyclates and grounded rubber production waste are used at very low concentrations (3%-5%) for the manufacturing of tyres. The increasing cost of raw materials and the environmental issues related to their consumption, could push the material recycling rate of rubber waste, turning derived rubber materials into valuable substitutes of virgin polymers in the production of rubber. Thus, while reducing raw material costs, decreasing CO2 and improving carbon and material footprint, material recycling and upcycling is helping mindful companies to improve their product sustainability and profitability through its ecologically sound products and innovative principles.

Section Chair
Andrea Fluttero, President of FISE Unicircular (Circular Economy Companies Union) sect. Unirigom (Union of Italian rubber recoverers)

Programme

14.00 Introduction by the Chair

14.20-14.40 *Circular valorisation of rubber waste and scraps*
Fabio Bertolotti, Assogomma (Rubber Industries, Electric Cables and related Association)

14.40-15.00 *Life Green Vulcan: High performance devulcanized masterbatches for End-of-Life Tyre reuse in high-volume technical compounding applications*
Francesco Di Pierro, Rubber Conversion

15.00-15.20 *ELT selective devulcanization and conversion to advanced fuels by energy self-sustainable and low-impact DES+™ process*
Massimo Aiello, Acea Ambiente (Italian multi-utility group - environment unit), Business Development Division
Flavio Manenti, Milano Polytechnic University, Chemical Engineering Dept. "Giulio Natta"
Omar Pellegrini, Microgomma Energia

15.20-16.40 Call for Papers:

Characterization of rubber/ELTs industrial scraps additivated with electric furnace slag
Anna Gobetti, University of Brescia – Mechanical and industrial engineering Dept.

Versalis Revive®: new "circular" elastomers for more sustainable tyres
Costantino Perretta, Versalis S.p.A.

Tyres as a model for the complementary recovery of material and energy: the agreement between Eni and Ecopneus for eco-innovative solutions in the use of ELTs
Roberto Palmieri, ENI

16.40 Discussion and Closure by the Chairs

14:00 - 17:30

Ecomondo Digital Platform

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

A roadmap towards sustainable waste management practices worldwide - SESSION WITH STREAMING IN ITALIAN LANGUAGE

Language: English
Simultaneous translation: Italian

Organized by: **International Solid Waste Association, supported by Ecomondo Scientific Technical Committee**

In 2015, the Global Waste Management Outlook (GWMO) provided a scientific global assessment on the state of waste management and a call for action to the international community. The GWMO estimated at that time that 2 billion people worldwide lacked access to a basic waste collection service, while around 3 billion lacked access to controlled disposal services for municipal solid wastes.

Where are we now? Recently ISWA launched the report: The Future of The Waste Management Sector: Trends, Opportunities and Challenges for the Decade, which highlights the key issues around the transition to a circular economy, the role waste management will play in achieving the Sustainable Development Goals (SDGs), and combatting climate change.

During this conference several experts will speak on how they see the future of global waste management both worldwide as in Mediterranean countries.
In the last hour we will focus on an important topic of sustainable waste management, organic waste recycling in Mediterranean countries. An interesting panel from and several experts will join the stage and give you tangible insights into sustainability and organic waste recycling.

Section Chairs

Carlos Silva Filho, ISWA (International Solid Waste Association) President and CEO of ABRELPE
Luciano Piacenti, ATIAISWA ITALIA
Marco Ricci, CIC e ISWA

Programme

14.00 Opening session (Institutional speeches)

14.05 Welcome by ISWA - Carlos Silva, President
Welcome by Ecomondo - Fabio Fava, Chair of the Scientific Technical Committee

14.20 **Panel discussion – *Outlooks on Global Waste Management***
Session Chair: Luciano Piacenti, ATIAISWA ITALIA

Topic and Pannelist

The United Nations Environment Programme IETC
UNEP (TBD)

The making of the 10 years Outlook on the management of MSW
Aditi Ramolla, ISWA

The state of art of Waste Management in Italy
Andrea Eleuteri, ATIAISWA ITALIA

The state of art of Waste Management in Algeria
Mohamed Karim OUAMANEAND – AND

NextChem's business model for circular economy industrial plants
Vincenzo Accurso, Giacomo Fernando Rispoli, Nextchem Gruppo Maire Tecnimont

Recyclability of different EOL materials: wood waste, automotive shredded residues, and dismantled wind turbine blades*. Results of the Ecobulk project*
Gennaro Gentile, IPCB CNR Pozzuoli (Naples)

New sustainable materials and processes based on the recycling and the reuse of plastic and biomass wastes
Maurizio Avella, IPCB-CNR Pozzuoli (Naples)

15.20 Q&A

15.30 Break

15.45 **Panel discussion – *Organic Waste Recycling in Mediterranean Countries***
Session Chair: Marco Ricci (CIC, ISWA)

Topic and Pannelist

The value of Compost
Marco Ricci, *CIC Italian Composting and Biogas Association*

The Strategy for Organic Waste Recycling

Francesc Giro, Catalan Waste Agency

Management of organic waste by a Regional Company
Susana Lopes, LIPOR, Greater Porto Region

The state of art of Organic Waste Management in Algeria
Mohamed Karim Ouamaneand, AND

The potential of compost in climate change from an European Perspective
Stefanie Siebert, ECN European Compost Network

16.45 Q&A

14:00 - 17:30

Ravezzi 1 Room South Hall

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

A roadmap towards sustainable waste management practices worldwide - ENGLISH LANGUAGE VERSION

Language: English
Simultaneous translation: Italian

Organized by: **International Solid Waste Association, supported by Ecomondo Scientific Technical Committee**

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Mohamed Karim Ouamaneand, AND

The potential of compost in climate change from an European Perspective
Stefanie Siebert, ECN European Compost Network

16.45 Q&A

14:00 - 18:00

Neri 2 Room South Hall

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

Language: Italian

14:00 - 18:00

Biobased Industry Room
D1 Pav.

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Ecomondo Event

PHA from waste and wastewater: drivers and constraints to the market

Language: Italian

Organized by: Ecomondo Scientific Technical Committee

PHAs are microbial polyesters and completely biodegradable in the environment. Although available for decades on the market, but at rather high costs, in more recent years they have been "discovered" starting from the evidence that PHA can be synthesized using mixed microbial cultures easily obtainable from wastewater treatment plants and using organic waste and/or sludge as a feedstock. This makes PHA particularly interesting both to better enhance these waste, in full harmony with the development of the bioeconomy and the circular economy, and to contribute to the European Plastic Strategy for replacing fossil-based plastics.
The numerous experiments carried out so far at the pilot scale, especially in Italy, have shown the technical feasibility of the technology and provided the first indications regarding the possible applications of PHA-based bioplastics. Therefore, all that remains is to take the last steps for the complete transfer to the industrial scale and the placing on the market of the PHA-based bioplastics, including regulatory and organizational aspects such as the business models that link together different industrial sectors, the consequent qualification of intermediates and products, the definition of "end of waste" criteria and the definition of "end of life" management systems.
On all these aspects, the workshop will offer an opportunity to present the most recent research and innovation experiences and to discuss with various operators in the industrial sectors concerned and public administration

Section Chairs
Mauro Majone, Ecomondo Scientific Technical Committee and University "La Sapienza", Rome
Francesco Fatone, Ecomondo Scientific Technical Committee and Marche Polytechnic University

Programme

14.00 Introduction by the Chairs

14.20-14.40 *Experiences and perspectives on producing PHA from organic waste (provisional)*
Mauro Majone, University "La Sapienza", Rome

14.40-15.00 *Experiences and perspectives on producing PHA from urban wastewater (provisional)*
Francesco Fatone, Marche Polytechnic University

15.00-15.20 *A key-step: how to define "End of waste" criteria for waste-based PHA*
Pierluigi Altomare, General Directorate for the Circular Economy, Italian Ministry for ecological transition

15.20-15.40 *Biodegradability of PHA and how it fits into the organic recycling*
David Bolzonella, University of Verona

15.40-16.00 *(Almost full) scaling-up of PHA production from excess sludge: the Project Circular BioCarbon*
Andrea Lanuzza, Gruppo CAP

16.00-16.20 *Perspectives for the recovery of PHA from organic waste. Contarina's industrial approach*
Michele Rasera, Contarina SpA

16.20-16.40 *Widespread recovery of PHA in urban public services*
Francesco Avolio, representing the utilities HERA, IREN, SMAT and A2A

16.40-17.00 *Viticulture and winery byproducts and PHA: the Caviro's challenge for a new bio-compatible packaging*
Rosa Prati, Caviro

17.00-17.20 *PHA-based bioplastics: the challenge of applications*
Alessandro Carfagnini, SabioMaterials

17.20-18.00 Questions, discussion and closure (by the chairs)

14:30 - 15:30

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

14:30 - 16:00

OTHER PROPOSALS
Workshop

Language: Italian

14:30 - 16:30

Monitoring & Control Room D4 Pav.

BEACON CONFERENCES
Ecomondo Event

Implementation Action Plan "Zero Pollution", towards a Healthier Planet for Healthier People

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, Federchimica, ISPRA

Starting from a general overview of the Green New Deal, the Workshop aims to explore the resulting actions that affect many areas of the life of European citizens and companies operating in EU. Given the objective that the European Commission has set itself by adopting, in 2021, the action plan "Towards a Zero Pollution Ambition for air, water and soil – building a Healthier Planet for Healthier People" there are several factors at play. For example, although the essential role of chemicals for the well-being is recognized at the EU level, in the high standards of living and comfort of modern society, critical issues in manufacturing and use are also reported. So, even though the EU has already sophisticated laws on chemicals, it intends to manage them with further provisions that will need to be carefully evaluated both for the benefits they should bring but also for the impacts they could also have on businesses.
The event will show the different implications of the many activities that are being studied at the EU.

Section chair
Francesca Giannotti, Ministry of Economic Development

Programme

14.30 Introduction

14.40-14.55 The Chemical Strategy for Sustainability: a source of other initiatives including the Sustainable Product Initiative
Sylvie Lemoine, Executive Director Product Stewardship, Cefic

14.55-15.55 **Challenges arising from a complex strategic European framework:**

> 14.55-15.10 *National policies for Zero Pollution*
> Laura D'Aprile, Ministry of the Ecological Transition, Head of the Department for Ecological Transition and Green Investments (remote connection)
>
> 15.10-15.25 *The environmental framework and the Zero Pollution ambition*
> Alessandro Bratti, General Director ISPRA - Italian Institute for Environmental Protection and Research
>
> 15.25-15.40 *Zero Pollution and public health*
> Mariano Alessi, Ministery of Health, Prevention Director General, Competent Authority Unit REACH/CLP
>
> 15.40-15.55 *Challenges and opportunities for industry, first considerations*
> Alessandra Colombo, President of Circular Economy Committee, Federchimica - Italian Federation of the chemical industry

15.55-16.15 *Digital Twins at Scale for Anyone Anywhere*
David McKee, CEO & CTO at Slingshot Simulations, Chair of the Digital Twin Consortium working groups on Terminology (3T) and Open Source

16.15-16.40 Discussion and closing remarks

14:30 - 17:30

Neri 1 Room South Hall

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event

Instruments for implementing the circular economy

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and the National Centre of Waste and Circular Economy, ISPRA

In 2020 the new Action Plan on the circular economy was published and in September of the same year Italy closed the transposition of the so-called "circular economy package". In addition, the conclusions of the 2020 European Council and the resolution of the European Parliament of 10 February 2021 on the new action plan for the circular economy have completed the reference framework. The opportunity offered by the Recovery plan to fill the existing structural gaps will be a driving force for the future. The day represents an opportunity to evaluate the tools employed by our Country to implement the principles of the circular economy.

Section Chair

Valeria Frittelloni, Director of the National Centre of Waste and Circular Economy, ISPRA (Italian Institute for Environmental Protection and Research)
Luigi Palumbo, Ricicla TV

Programme

Institutional greetings
Itailan Parliamentary Commission of Inquiry on Eco-Mafia (TBD)

The actions of the Ministry for ecological transition. The point of the situation.
*Laura D'Aprile, **Head of the Department for Ecological Transition and Green Investments, Italian Ministry for Ecological Transition***

Circular Economy and Consumers: the initiatives of the Ministry of Economic Development
Orietta Maizza, Head of the Consumer Policies, Regulations and Projects Division, Ministry of Economic Development (pre-recorded intervention)*

The SNPA and the essential levels of environmental performance
Fabio Carella, General Director of Lombardia Region ARPA (Regional Agency for the Protection of the Environment)

Innovation, infrastructures and citizen science as indispensable tools for the circular transition of territories
Roberto Morabito, Director of the Department for Sustainability of Productive and Territorial Systems, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

Economic instruments at the service of the circular economy. The waste tax.
Lorenzo Bardelli, Director of the Environment Division, ARERA (Italian Regulatory Authority for Energy, Networks and Environment)

The contribution of environmental associations
Stefano Ciafani, President of Legambiente (Italian environmental association)

Conclusions
Alessandro Bratti, General Director of ISPRA (Italian Institute for Environmental Protection and Research)

14:30 - 17:30

Noce Room A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

15:30 - 16:15

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

16:15 - 17:00

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Workshop

Language: Italian

16:30 - 18:30

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

Language: Italian

FRIDAY 29 OCTOBER

09:00 - 13:30

Monitoring & Control Room D4 Pav.

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 11:00

Noce Room A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

09:30 - 11:30

Innovation Arena - South Hall

OTHER PROPOSALS
Workshop

ISPRA'S public and social value for Sustainability: what contribution is necessary for the effective implementation of the PNRR?

Language: Italian

Organized by ISPRA

The pandemic has accelerated the review of organizational processes in many public and private entities. ISPRA (Italian Institute for Environmental Protection and Research), anticipating this need, had already started an organizational innovation process in July 2019, with the aim of making its processes functional to the needs of its main stakeholder as well as to help the necessary skills required to achieve the objectives of the 2030 Agenda and of the European Green Deal emerge. This path is unavoidable today also in the light of the National Recovery and Resilience Plan (PNRR) for the implementation of which it becomes strategic to strengthen the methods of involvement of all those involved in various capacities, directly and indirectly.
The Sustainability Report represents a tool to facilitate the achievement of these objectives and to integrate useful information for decisions, discussions, and the overall path that awaits us. In presenting its 2021 Sustainability Report (2020 data), the Institute asks a panel of stakeholders to discuss a specific question: how can ISPRA, as a Public Research Body (EPR), effectively support the implementation of the PNRR and more in general of the measures deriving from the Green Deal?

Programme

9.30-10.00 **Presentation of the 2021 Sustainability Report**

Institutional greetings
Stefano Laporta, President of ISPRA

ISPRA's reporting process: status and prospects
Tiziana Cianflone, Head of the organizational innovation Unit at ISPRA

10.00-11.15 **Round Table**
Monica D'Ambrosio (RICICLATV) moderates the round table.

Discussants:
Chiara Braga, Member of the Italian Parliament
Tullio Patassini, Member of the Italian Parliament
Pierluigi Stefanini, Spokesman of the Italian Alliance for Sustainable Development, ASviS
Marco Martuzzi, Director of the Environment Department at Italian National Institute of Health
Giuseppe Bortone, General Manager of Arpa Emilia-Romagna
Massimiliano Mazzanti, Director of the SEEDS Inter-University Research Center
Stefano Ciafani, National President of Legambiente
Filippo Brandolini, President of Hera Ambiente

11.15 **Conclusions** by Alessandro Bratti General Manager of ISPRA

09:30 - 13:00

Neri 1 Room South Hall

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event

The technological innovation of motor vehicles and the ELV supply chain

Language: Italian
Simultaneous translation: English

Organized by: **Ecomondo Scientific Technical Committee and FISE UNICIRCULAR**

The automotive sector is experiencing a real revolution, from both a technological and environmental point of view, with the transition from thermal engines to electric ones. These changes, linked above all to technological innovation, make it necessary to rethink the approach of the entire automotive supply chain, from production to the management of the vehicle and its components "from the cradle to the grave", with the aim of meeting the challenges and opportunities for the sector and to highlight problems and criticalities.

Section Chair

Anselmo Calò, President of FISE (Federation of Services Companies)

Program

10.00 Introduction by the Chairs

10.15-10.30 *The Revision of the ELV Directive: what do the European recyclers expect?*
Emmanuel Katrakis, Euric

10.30-10.45 Lucia Citro, officer of the Italian Ministry for Ecological Transition

10.45-11.00 *The prospects for technological innovation in cars*
Luca De Vita, ANFIA - Italian Association of the Automotive Industry

11.00-11.15 *The management and market of electric car batteries*
Luca Tepsich, CDCNPA - National Coordination Center for Batteries and Accumulators

11.15-11.30 *Pre and post shredding treatment to facilitate achievement of the objectives envisaged by Directive 2000/53*
Stefano Leoni, AIRA - Automobile recyclers industrial association

11.30-11.45 *The technological innovation of vehicles and car wreckers*
Alfonso Gifuni, CAR - Car wreckers confederation united

11.45-12.00 *The adaptation of car demolition systems and the technological innovation of vehicles*
Simone Pollini, ADA - Vehicle wrecker association

12.00-12.15 *The management of waste from the demolition of motor vehicles*
Antonello Di Mauro, ECOEURO

12.15 Conclusions

09:30 - 13:00

Neri 2 Room South Hall

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS

Ecomondo and Key Energy Event

Critical raw materials and the new european action plan: strategies for a more secure and sustainable supply

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Key Energy Scientific Technical Committee, Italian Ministry of Economic Development (DGPIIPMI), ENEA, National Critical Raw Materials Table

The issue of secure and sustainable supply of raw materials has been identified as a priority by Europe, starting with the 2008 Raw Materials Initiative and continuing with the European Raw Materials Partnership (EIP Raw Materials) and the recent European Raw Materials Alliance (ERMA). In particular, the critical raw materials that are most strategic for Europe have been identified, in terms of supply needs and criticality for the production system. Some raw materials are only available as primary resources in a few (non-European) countries in the world that have a monopoly on their market. The pandemic emergency has undoubtedly exacerbated the criticalities that were already present. The costs of some raw materials have risen significantly, and future scenarios show that the cost of raw materials will have an increasingly substantial impact on the competitiveness of the production system. In Italy, in particular, the National Recovery and Resilience Plan provides for numerous investments for the energy and digital transition and for sustainable mobility, which are based on the ability to sustainably and competitively supply critical raw materials. As our country risks becoming increasingly dependent on countries that produce critical raw materials, major actions are urgently needed to promote the recycling and substitution of critical raw materials.

Chairs

Giacomo Vigna, Italian Ministry of Economic Development
Roberto Morabito, Director of the Territorial and Production Systems Sustainability Department - ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

Programme

9.30 Introduction
Mario Fiorentino, Directorate-General for Industrial Policy, Innovation and SMEs, Italian Ministry of Economic Development

Critical Raw Materials: Risks and Opportunities for the Country System
Claudia Brunori, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

10.00-10.15 ERMA - *The European Raw Materials Alliance: the state of the art*
Pierluigi Franceschini, EIT RawMaterials CLC South

10.15-10.30 *Critical raw materials: the initiatives of the Ministry of Economic Development*
Maria Grazia Verdura, Ministero of Economic Development

10.30-10.45 *Information needs on the extraction of non-energy raw mineral resorces: ISTAT statistics contribution*
Donatella Vignani, ISTAT (Italian National Institute of Statistics)

10.45-11.00 *Italian and European deposits of critical raw materials*
Fiorenzo Fumanti, ISPRA (Italian Institute for Environmental Protection and Research)

11.00-11.15 *Urban mining as a sustainable supply of critical raw materials*
Federica Forte, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

11.15-11.30 *Critical raw materials, decarbonisation and circular economy*
OECD (TBD)

11.30-12.45 Round table - *From waste treatment to advanced materials and substitution: research and innovation on critical raw materials*

Critical raw materials from WEEE
Danilo Bonato, ERION (Multi-consortium system for the management of waste associated with electronic products)

Innovative approaches to phosphorus recovery from sludge
Giulia Sagnotti, ACEA

Critical raw materials and sustainable mobility
Gabriele Ciaccio, Centro Ricerche Fiat

Critical raw materials for storage
Federico Vitali, FAAM Company (production and recycling of lead-acid and lithium batteries)

Sustainable rubber supply
Renzo Maggiolo, UNIRIGOM (Union of Italian rubber recoverers)

12.45 Q&A

13.00 Conclusions

10:00 - 12:00

OTHER PROPOSALS
Workshop

Language: Italian

10:00 - 12:30

Tiglio Room A6 Pav

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Workshop

Language: Italian

10:00 - 12:30

Biobased Industry Room D1 Pav.

AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
Ecomondo Event

The role of the bio-based industry for a healthy planet in the post-covid era

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Technology Cluster SPRING

As reported by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) in 2020, pandemics will emerge more often in the future, unless there is a transformative change in the global approach of those same human activities that impact on ecosystems. According to IPBES, prevention would be 100 times cheaper than the cost of responding to pandemics. In this context, the bio-based industry can represent an essential element to ensure the green transition envisaged by the Green Deal, reconciling the economy with society, the environment and human health. Indeed, all the different bio-industry sectors could play a key role in the creation of local low-impact value chains, in which waste represents the lifeblood for the production of new sustainable materials, products and services. The evolution of this sector towards a growing circularity and towards a greater integration of industry, agriculture and urban centers will be fundamental to face the multiple interconnected challenges of the twenty-first century, mitigating the impact of climate change, regenerating degraded soils and ensuring competitiveness and the creation of new jobs.

Based on these premises, the conference aims to present the case studies of circular bioeconomy, which have made Italy a pioneer in the sector at European level and to bring out the obstacles that still remain for a full implementation of the circular bioeconomy in our country.

Section Chairs

Mario Bonaccorso, Director of Cluster SPRING - *Sustainable Processes and Resources for Innovation and National Growth*

Programme

10.00 Welcome
Leonardo Salvemini, representative of the Ministry for Ecological Transition to the Italian National Bioeconomy Coordination Board

Introduction by the chairs

Presentation of the first report on circular bioeconomy in Italian companies
Piergiuseppe Morone, Unitelma Sapienza – University of Rome

The Bio-Based Industries Joint Undertaking and the future Circular Bio-Based Joint Undertaking as catalysts for a green transition in Europe
Virginia Puzzolo, Head of Programme of Bio-based Industry Joint Undertaking (BBI)

10.30 **Circular bioeconomy best practices in the urban environment**

The Italian bioplastics and biochemicals value chain
Carmine Pagnozzi, Technical Director of Biorepack

Sustainable solutions for better management of organic carbon in cities
Filippo Gavazzeni, Milan Food Policy (TBC)

Urban organic waste as a resource for new municipal biorefineries
Massimo Centemero, General Manager of the Italian Composting Consortium

From sewage sludge to new innovative bioproducts
Tania Tellini, Coordinator of Water Sector Utilitalia (Italian federation of energy, water and environmental services)

From waste to secondary raw material: the case study of paper and cardboard
Claudio Busca, Head of General and Institutional Affairs Comieco

11.30 **Bioeconomy from agriculture and for agriculture**

From waste to bioenergy
Silvia Buzzi, HSE manager Caviro Extra

The circular bioeconomy for sustainable agriculture
Francesco Ciancaleoni, Environment and Territory Area of Coldiretti (Federation of Italian Farmers)

Sustainable biomass at the service of the bio-based industry
Alessandro Bettoni, FNP Bioeconomy President of Confagricoltura (General Confederation of Italian Agriculture)

Low-impact agriculture and landscape protection - the case study of the Pantelleria Park
Michele Falce, Head of Production & Agricultural Services Novamont

12.20 *Promoting biotransition through communication, education and involvement of stakeholders*
Susanna Albertini, FVA New Media Research

12.30 Conclusions by the chairs

10:00 - 12:30

Gemini Room C3 Pav.

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

Language: Italian

10:00 - 13:00

Reclaim Expo Room C3 Pav.

BIOREMEDIATION AND SITE REQUALIFICATION
Workshop

Language: Italian

10:00 - 13:00

Workshop Room B4 Pav.

OTHER PROPOSALS
Workshop

Language: Italian

10:00 - 13:30

Diotallevi 1 Room South Hall

BLUE GROWTH
Ecomondo Event

Marine litter and aquaculture: studies, experiences and policies to take stock of the situation at Mediterranean level - ENGLISH LANGUAGE SESSION

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee, Legambiente, University of Siena, Life Muscles

Nets and tools from fishing and aquaculture activities, lost or abandoned or thrown into the sea, represent about 27% of the plastic waste found on European beaches and a greater proportion in weight, reaching up to 11 thousand tons per year. At EU level only 1,5% of fishing gears are recycled. Impacts on marine fauna, including fish stocks are several and still underestimated. These important economic sectors generate and, in turn, suffer the impact of waste dispersed in the marine environment, and there is a need to accelerate the development of a circular economy strategy approach. Awareness activities and direct involvement of fishermen and acquafarmers in collecting marine waste and used nets are essential to make this important sector more sustainable. Virtuous experiences of recycling and experimentation of new less impacting materials are already active and planned, they have to be promoted and expanded. Effective cross-border and cross sector cooperation in the implementation of existing policies and exchanging best practices could help to act at the Mediterranean scale. The conference will deliver practical case studies, experiences and policies to take stock of the situation at European and Mediterranean level.

Section Chairs

Stefano Ciafani, President of Legambiente
Cristina Fossi, University of Siena
Fabio Fava, University of Bologna & President of the Scientific Committee of Ecomondo

Programme

10.00 *Introduction by the Chairs*
Life Muscles, overview of the new project – Legambiente

10.20 *Technical experiences*
Cristina Panti, University of Siena
Loris Pietrelli, scientific committee of Legambiente
Andrea Di Stefano/Flavia Novamont
Alessio Bonaldo, University of Bologna
Croazia (TBC)
Anastasia Xaritou, iSea
Dr. Amel - Tunisian project on biomaterial with (TBC)
Carlo Franzosini, Miramare Marine Protected Area
Sana Ben Ismail, INSTM Tunisia

12.30-13.30 *Round table*
MiPAF (TBC)
Christos Ioakeimidis, UnepMap
Stefano Ciafani, Legambiente
Angelo Salsi, Commissione Europea - Capo Unità CINEA LIFE Environment (Nature & Circular Economy)
Eraldo Rambaldi, AMA

13.00 Discussion and Closure (by the chairs)

10:00 - 13:30

Ecomondo Digital Platform

BLUE GROWTH
Ecomondo Event

Marine litter and aquaculture: studies, experiences and policies to take stock of the situation at Mediterranean level - SESSION WITH STREAMING IN ITALIAN LANGUAGE

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13.00 Discussion and Closure (by the chairs)

10:00 - 13:30

Ecomondo Digital Platform

BEACON CONFERENCES
Ecomondo Event

The Italian Circular Economy Stakeholders Platform initiatives within the CEAP - SESSION WITH STREAMING IN ENGLISH LANGUAGE

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, ENEA and ICESP

The European Circular Economy Action Plan published on March 2020 is one of the main building blocks of the European Green Deal. It calls for action on legislative and non-legislative measures targeting those areas with more potential of bringing real added value at the EU level. High relevance is given to multistakeholder and intersectoral hubs, as key to finding winning solutions for closing the loop along value chain and inside the cities and the territory. The network governance can power the circular economy by strengthening the positive forces in society, fostering dialogue and synergic relations and facilitating inter-sectorial interactions among all the actors which are involved in the CE transition. Within this frame, the Italian Circular Economy Stakeholder Platform, operating since May 2018 as national mirror of the ECESP and counting on more than 250 multi sectoral participating organizations, has recently reorganized its working groups answering to the 2020 CEAP and to the emerging priorities the priorities for a post-COVID-19 recovery, identified by ICESP community at the end of 2020. Moreover, since multidisciplinary approach and dissemination of good practices (GP) can inspire the transition towards circular economy, ICESP collected more than 180 Italian GPs through WGs meetings and consultations, with open access on www.icesp.it. These are monitored and analysed in terms of replicability, maturity, impact quantification for both the value chain and the territorial approach. The conference will be the occasion for giving a glance on ICESP ongoing activities, good practices and perspectives in line with European initiatives.

Section Chairs

Roberto Morabito, Director of ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) Department for Sustainability and ICESP (Italian Circular Economy Stakeholder Platform) President
Fernanda Panvini, ENEL (Italian multinational manufacturer and distributor of electricity and gas*)* and ICESP Coordination Committee representative

Programme

10.00 Introduction by the Chairs

10.20-10.40 *Circular Economy Action Plan*
Paola Migliorini, European Commission DG Environment, Unit B1 – Sustainable Production, Products and Consumption

10.40-11.00 *The work of ECESP and leadership group on "network and governance"*
Ladeja Godina Košir, Chair of the Coordination Group of the European Circular Economy Stakeholder Platform (ECESP)

11.00-11.20 The role of standardisation for the circular transition
Elena Mocchio, Head of Innovation and development Unit, UNI – Italian Standardisation Body

11.20-11.30 ICESP and circular economy transition in Italy
Grazia Barberio, ENEA and ICESP Technical coordinator

11.30-13.00 **ICESP Multidisciplinary approach and good practices**

ICESP GOOD PRACTICES
Ilaria Giannoccaro, POLIBA (Bari Polytechnic University) and ICESP WG6 co-coordinator

CIRCULAR VALUE CHAINS

Circular Economy Action Plan and Italian Good Practices in the main significant value chains from ICESP WG4:

Eleonora Rizzuto (LVMH), coordinator of textile group
Marco Piana (AIPE), Construction & Demolition (C&D) and plastics groups
Daniela Fontana (COMAU), Electric mobility
Elena Bosi (Emilia-Romagna Region), coordinator of agrifood group

CIRCULAR CITIES AND TERRITORY

Circular Economy Action Plan and Italian Good Practices in territories implemented by institutions, enterprises and citizens
Giulia Lucertini, IUAV (Venice University of Architecture) and ICESP WG5 co-coordinator

13.00-13.30 Discussion and Closure by the Chairs

10:00 - 13:30

Diotallevi 2 Room South Hall

BEACON CONFERENCES
Ecomondo Event

The Italian Circular Economy Stakeholders Platform initiatives within the CEAP - ITALIAN LANGUAGE SESSION

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, ENEA and ICESP

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Fernanda Panvini, ENEL (Italian multinational manufacturer and distributor of electricity and gas*)* and ICESP Coordination Committee representative

Section Chairs

Roberto Morabito, Director of ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) Department for Sustainability and ICESP (Italian Circular Economy Stakeholder Platform) President
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13.00-13.30 Discussion and Closure by the Chairs

11:00 - 12:00

Ravezzi 2 South Hall

CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
Ecomondo Event

Language: Italian

12:00 - 13:00

Noce Room A6 Pav

OTHER PROPOSALS
Workshop

Language: Italian

14:00 - 16:15

Ravezzi 1 Room South Hall

BIOREMEDIATION AND SITE REQUALIFICATION
Ecomondo event

Electrobioremediation

Language: English

Organized by: Ecomondo Scientific Technical Committee and H2020 project Electra

Bioremediation offers low impact approaches to clean polluted soils, sediments, groundwater or wastewater. Yet in the environment, electron flow typically limits degradation, and it is difficult to control. Electro-microbiology can overcome this major hurdle. Microorganisms interacting with solid- state electron donors or acceptors can be deployed within many different matrices, for different pollutants and using diverse technological approaches minimizing or eliminating energy and/or chemical needs. This workshop will highlight the capacity of bio-electrochemical processes to tackle water pollution, such as nitrate in drinking water resources, pharmaceutical residues in wastewater and chlorinated compounds in groundwater.

Section Chairs

Nicolas Kalogerakis, Technical University of Crete
Ilaria Pietrini, ENI SpA, TEAMB – Environmental and Biological Laboratories. Research & Technological Innovation

Programme

14.00 Welcome, ELECTRA Dissemination Manager

14.05-14.10 *The ELECTRA project - an EU-China initiative for enhancing bioelectro-chemical systems in bioremediation*
Philippe Corvini, FHNW, ELECTRA Project Coordinator

14.10-14.20 *The ELECTRA technologies approaches: a portfolio of innovative solutions for pollution challenges*
Korneel Rabaey, Ghent University, ELECTRA Scientific Project Coordinator

14.20-14.40 *Performance and application cases of METLAND electroactive biofilters to eliminate organic micro-pollutants in municipal wastewater*
Abraham Esteve Núñez, Metfilter S.L.

14.40-15.00 *Fluidized-bed and fixed-bed BES reactors for nitrate-polluted groundwater bioremediation*
Sebastià Puig, University of Girona

15.00-15.20 *Treating CAH contaminated groundwater with a Sequential Bioelectro-chemical Groundwater Circulation Well (GCW) Process: from the lab to the field.*
Marco Zeppilli, Sapienza University Rome; Marcel Alesi, IEG Technologie GmbH

15.20-15.40 *Technology benchmarking under environmental and economic aspects*
Christoph Hugi, FHNW

15.40-16.15 Discussion and Closure (by the chairs)

14:30 - 16:30

Ecomondo Digital Platform

BLUE GROWTH
Ecomondo Event

The green transition: a route between safety, research, innovation in energy sector

Language: Italian

Organized by: Ecomondo Technical Scientific Committee, Energy and Climate Department of the Ministry of Ecological Transition, CLYPEA Innovation Network for Future Energy

The CLYPEA network, strongly supported by the Italian Ministry of Economic Development – DGS UNMIG, comprises from 2014 the best actors in the scene of offshore safety in mining activity. In these last years, the Network has evolved following the logic of transition from traditional to renewable energy, asserting itself as an innovation hub able to explore some of the research topics most challenging in energy field. The workshop will outline a route for the Green Transition between safety, research, innovation in energy sector, through the activities carried out by the experts of the CLYPEA Network and constant debate with the Institutions, according to current criteria of efficiency, effectiveness and return in knowledge value.

Section Chair

Energy and Climate Department of the Italian Ministry for the Ecological Transition

Programme

14.00-14.10 Introduction by the Chair

14.10-15.10 *H&RA Lacinia Project: offshore safety in mining activities, a cooperation example between ex-perts and Institutions*
Chairperson: Daniela Di Bucci, Italian Department of Civil Protection

Will take part:
Francesca Colucci, Research Energy System, RSE
Andrea Argnani, Institute of Marine Sciences - National Research Council ISMAR-CNR
Andrea Prota, Seismic and Structural Engineering University Laboratories Network, RELUIS
Fabio Germagnoli, EUCENTRE Foundation European Centre of Education and Research in Seismic Engineering;
Irene Molinari, National Institute of Geophysics and Volcanology, INGV
Alberto Armigliato, University of Bologna

15.10-15.50 Safety for energy Infrastructure as a key role for transition
Chairperson: Ezio Mesini, President of the Offshore Committee

Will take part:
Cmdt Daniele Panebianco, Italian Navy
Andrea Carpignano, Turin Polytechnic

15.50-16.00 Discussion and conclusion by the Chair
Energy and Climate Department of the Italian Ministry for the Ecological Transition
CLYPEA, Italian Ministry of Economic Development

14:30 - 16:30

Gemini Room C3 Pav.

WASTE MANAGEMENT AND VALORIZATION
Ecomondo Event

Language: Italian

14:30 - 17:30

Neri 1 Room South Hall

OTHER PROPOSALS
Workshop

Language: Italian