

ECOMONDO

THE GREEN TECHNOLOGIES EXPO

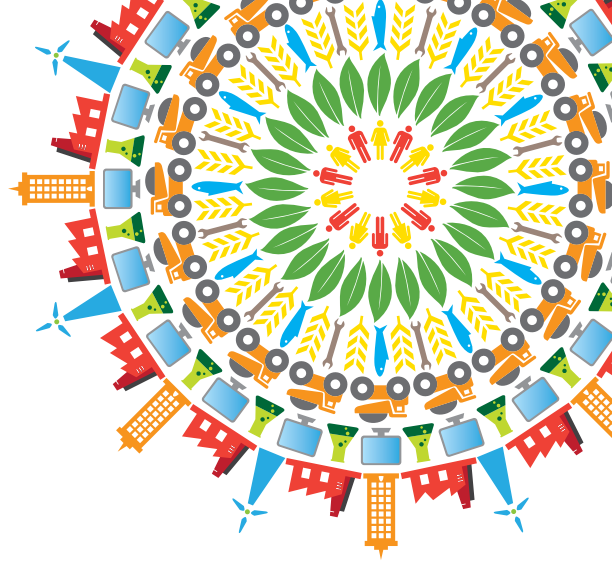
7TH-10TH NOVEMBER 2017

RIMINI ITALY 21ST INTERNATIONAL TRADE FAIR OF MATERIAL
& ENERGY RECOVERY AND SUSTAINABLE DEVELOPMENT

CONTEMPORARY WITH

KEY ENERGY

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PRELIMINARY PROGRAMME ONLY FOR CONFERENCES WITH "CALL FOR SCIENTIFIC PAPERS"

DEADLINE FOR SUBMISSION OF SHORT ABSTRACTS: 30 JUNE 2017

Whoever wishes to submit scientific contributions to conferences with calls for paper may register themselves online at http://en.ecomondo.com/events/program/call_for_papers and submit one or more abstracts (prepared using the template that can be downloaded at the link above), accompanied by the registration form and the specification if a poster or oral presentation is requested, to **the session coordinators mentioned in the programme which follows**, no later than 30 June 2017.

The abstracts presented will be **assessed by the coordinators of the session**. **Abstracts** which are non-compliant in terms of content or format or are submitted after 30 June will not be accepted.

Abstracts accepted for an oral or poster presentation (acceptance will be communicated by 15 July) may become a 5/6-pages article (in Italian or in English) to be published in the Ecomondo conference proceedings, or in English, to be published in the **peer-reviewed Procedia Environmental Science, Engineering and Management** by the end of October 2017. A limited number of accepted abstracts can become full papers to be submitted to the **peer-reviewed Environmental Engineering Management Journal** (IF: 1.3) after Ecomondo 2017 to have all accepted papers out by May 2018.

Those concerned will be required to redact the manuscript in accordance with the instructions for authors (which will be made available on the web page for the programme by the end of June)

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I INTEND TO TAKE PART IN THE FOLLOWING CONVENTION IN THE FOLLOWING FORM:

(complete a form for every paper presented, indicating the convention, the session and the type of presentation)

Some dates, times and rooms are provisional and may be altered to meet requirements that arise

WASTE/TECHNICAL MATERIALS MANAGEMENT AND EXPLOITATION

8 november 9.30-13.30

Ravezzi 2 room South Hall

**Resources from waste:
innovative solutions and
environmental outcomes towards
the implementation of a Circular
Economy**

Oral presentation

Poster session

Send the brief abstract to:

Fabrizio Passarini fabrizio.passarini@unibo.it and sem.ecomondo@iegexpo.it

ORGANIZED BY

University of Bologna – “Energy and Environment” CIRI (Interdepartmental Industrial Research Centre), Environmental and Cultural Heritage Chemical Division of the SCI (Italian Chemical Association), Ecomondo Technical Scientific Committee

Resources contained in the so-called “urban mines” will be increasingly important in the next years. The knowledge of material stocks and flows throughout value chains, the comparison of different scenarios of waste valorization, data collection and integration are needful tools to outline present situation and envisage possible future scenarios, comparing them from a life cycle perspective.

Surveys and studies about environmental implications of different waste treatments, proposal of new methods of collection and management, implementation of platforms for the exchange of resources, application of industrial ecology approaches and practices of industrial symbiosis, will constitute the scope of this meeting, that will highlight possible advantage from integration of best practices and technologies. The seminar will be open to oral presentations and posters.

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WASTE/TECHNICAL MATERIALS MANAGEMENT AND EXPLOITATION

8 november 14.00-18.00

Ravezzi 2 room South Hall

**Applied researches
to enhance waste valorization;
possible integration
with Industry 4.0**

Oral presentation

Poster session

Send the brief abstract to:

Fabrizio Passarini fabrizio.passarini@unibo.it and sem.ecomondo@iegexpo.it

ORGANIZED BY

University of Bologna – “Energy and Environment” CIRI (Interdepartmental Industrial Research Centre), Environmental and Cultural Heritage Chemical Division of the SCI (Italian Chemical Association), Ecomondo Technical Scientific Committee

According to the pronouncement of the EU Parliament's environment committee in January 2017, ambiguous targets have to be included in the European Commission proposal on waste management, reaching 70% by 2030 for waste recycling and preparing for re-use (80% for packaging materials), while landfilling should be limited to 5%. Also for industrial waste, an increasing efficiency in valorization is required. A major effort will then be required to reach these objectives; in this context, a fundamental role will be played by applied research and industrial innovation.

A considerable boost to innovation will be given by Industry 4.0 tools and strategies, promoting the integration among processes and systems, and those among enterprises and infrastructures, in line with the “Circular Economy” concept. The advantages that could arise from the implementation of these innovations, factors which could promote industrial applications, challenges and elements of success, will be the topics on which companies, researchers, local authorities and other stakeholders will be invited to confront, through oral and poster presentations.

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BIOWASTE MANAGEMENT AND EXPLOITATION

9 november 14.00-18.00

Ravezzi 2 Room South Hall

**19TH Edition of the National
Conference on Composting
and Anaerobic digestion.**

TECHNICAL SESSION: BIOWASTE

Oral presentation

Poster session

Send the brief abstract to:

Massimo Centemero centemero@compost.it and sem.ecomondo@iegexpo.it

By

Technical Committee of the Italian Composting and Biogas Association

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WATER CYCLE MANAGEMENT AND EXPLOITATION

7 november 14.00-18.00

Global Water Expo Room

Emerging pollutants in drinking water: regulatory aspects, technological solutions for control and management experiences

Oral presentation

Poster session

Send the brief abstract to:

ingsan@unibs.it; sabrina.sorlini@unibs.it; and sem.ecomondo@iegexpo.it

ORGANIZED BY

"Waste Water Treatment System Management" Working Group of the University of Brescia and Ecomondo Technical Scientific Committee

Contaminants of Emerging Concern (CEC) in drinking water are pollutants for which health and environmental hazards are not well known and regulatory limits have not been defined yet (perfluoroalkyl, cyanobacteria, pathogens, new disinfecting by-products, pharmaceutical compounds, pesticides, etc.). For most of these pollutants there are no reliable technologies applicable to drinking water treatment plants, and the interest of scientific research in this area is addressed to identify effective and technically / economically manageable treatment solutions. The aim of this seminar is to present an updated picture on this issue through the analysis of the regulatory aspects at both national and international level, of the potential risks to health and the environment and of the established and innovative solutions for their removal in drinking water systems. Wide space will be given to illustrating research and management experiences of treatment systems, also selected through "call for paper".

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WATER CYCLE MANAGEMENT AND EXPLOITATION

8 november 10.00-14.00

Global Water Expo Room

Smart water monitoring for basin management. European ICT based solutions for smart water quality monitoring and basin management: the Horizon2020 intcatch innovation action in Lake Garda

Poster session

Send the brief abstract to:

Francesco Fatone f.fatone@univpm.it and sem.ecomondo@iegexpo.it

ORGANIZED BY

EU-H2020 IntCatch Consortium; University of Verona; Italian Higher Institute for Health (ISS); Marche Polytechnic University; Azienda Gardesana Servizi; Legambiente; IWA Italia, UTILITALIA; EIP Water (TBC); WssTP (TBC); Italian Ministry of Environment (TBC); ICT4WATER Cluster (TBC), Ecomondo Technical Scientific Committee

Current water quality monitoring programs are very costly, requires large numbers of samples to deliver 'certainties', data is always historic, little effort is available on Investigations and Surveillance monitoring and so fail to assess effectively 'diffuse' pollution - urban and rural. In addition, current water quality monitoring programs are led by "regulators" and citizens are not empowered. On the other hand, digital technologies and innovative sensors and tools can deliver smart water monitoring solutions and actively engage citizens and NGOs for the benefit of the society. This strategy will then raise awareness and support the decisions for the lake and river basin management, the planning, operation and maintenance of water infrastructure. Starting from the Horizon2020 IntCatch Innovation Action, the workshop will present how real time data can be measured and processed to facilitate sustainable water quality management by community groups and NGOs using a clouds data linked to a decision support system and eco-innovative technologies.

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WATER CYCLE MANAGEMENT AND EXPLOITATION

8 november 14.00-18.00

Global Water Expo Room

Desalination and alternative water resources, water reuse and multiple use to reduce the water footprint at city or basin scale

Poster Session

Send the brief abstract to:

Francesco Fatone f.fatone@univpm.it e sem.ecomondo@iegexpo.it

ORGANIZED BY

Marche Polytechnic University, University of Verona, IRSA-CNR, Utilitalia, Confagricoltura, Italian Higher Institute for Health (ISS), EU WssTP, IWA Italia and Ecomondo Technical Scientific Committee

Water scarcity is already a serious problem in 11% of the EU territory and it is expected that the territory facing water scarcity problems will grow to 30% in 2030. Apart from the availability of water, our water quality will also be affected as a result of seawater intrusion in coastal aquifers, faster dissolved oxygen depletion because of higher water temperatures, and higher content of pollutants that flow into water bodies following extreme rain events. Water-smart society of the future needs to reduce its impact on our natural water. The availability of "multiple waters" to complement fresh water sources is the key enabling strategy towards this target and the delivery of the circular economy in the water sector. The workshop will present and raise awareness about EU and national strategies like the Innovation Deal to address water reuse from municipal wastewater treatment, the seawater desalination, the water efficiency and reuse in buildings and other ready-to-market on-site and decentralized solutions.

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MONITORING & CONTROL

7 november 14.30-18.00

Monitoring & Control Room

Odour Emissions: from abatement technologies to new control strategies

Oral presentation

Poster session

Send the brief abstract to:

Gianluigi De Gennaro gianluigi.degennaro@uniba.it e sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Technical Scientific Committee, Institute for Protection and Environmental Research, Italian Chemical Society, Division of Environmental Chemistry and Cultural Heritage, Italian Society of Environmental Medicine

The Ecomondo Odour Emissions conference (at its seventh 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. The conference is directed by the National Technical Table on Odours, coordinated by ISPRA (Institute for Environmental Protection and Research): its members will present a state of the art about monitoring and control methodologies, good practices for the mitigation of phenomenon and national and international regulations. The most relevant Public Research Organization, public administrations, Regional Environmental Agencies and Industries operating on this topic will attend at the meeting, presenting their findings, technologies and case studies.

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MONITORING & CONTROL

8 november 14.30-18.00

Monitoring & Control Room

**The indoor air quality:
the main pollutants, the roles
of springs, building materials,
furnishings and widespread
consumption, mechanical
and natural ventilation,
microclimatic parameters,
legislation, control and prevention**

Oral presentation

Poster session

Send the brief abstract to:

Gaetano Settimo gaetano.settimo@iss.it e sem.ecomondo@iegexpo.it

By

Italian Higher Institute for Health and Ecomondo Technical-Scientific Committee

These last years have been characterized by strong and growing attention from institutions, industry, research, design, consulting, universities, and public opinion about the issues surrounding indoor air quality. The quality of indoor air quality is one of the main problems that the European and national legislator have to face, because of the strong impact on the health of the population. This event is intended to emphasize what is being done both at the legislative and technical level in Italy and in Europe about the indoor environments.

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SITE REMEDIATION AND REQUALIFICATION

9 november 10.00-17.30

Reclaim Expo Room

Reclamation within the framework of the “Circular Economy”

Oral presentation

Poster session

Send the brief abstract to:

Loredana Musmeci musmeci@iss.it; Daniele Cazzuffi daniele.cazzuffi@cesi.it and sem.ecomondo@iegexpo.it

By

Italian Oil Union, Federchimica, Eni, Aidic (Chemical Engineering Italian Association), Ministry of Environment, ISS (Italian Higher Institute for Health), ISPRA (Italian Higher Institute for Environmental Protection and Research), Ecomondo Technical Scientific Committee

Also this year RECLAIM EXPO will offer a meeting point for all stakeholders in the remediation and redevelopment of contaminated sites, from Institutional actors (Ministries, Regions, and national and regional scientific institutions and agencies) to enterprises, also including companies that offer stakeholders services and technologies. Since the first legislation about 20 years ago, we have gained in Italy in-depth experience in the field of contaminated sites and many ones have been remediated and returned to economic use, and especially at a regional scale. However, the remediation actions were often slow and costly, and the demand has increased for a sustainable management of remediation, where the requirements of environmental protection and of health and hygiene safety can be combined with acceptable costs and economic redevelopment of reclaimed areas. In this sense, the remediation of contaminated sites becomes an important part of a development based on Circular Economy principles, allowing to recover services from ecosystems; first of all, through the recovery of remediated land to new productive uses (industrial, but also commercial and residential), so decreasing the request of "virgin" areas of greatest value. It is clear that this approach requires a convergence between all elements that can help to define the remediation strategy (normative, procedural, technological and economical). RECLAIM EXPO will be organized around the theme of sustainability of remediation of contaminated sites in conjunction with their economic redevelopment, also examining the regulatory aspects that can facilitate or not that re-classification. A morning session will gather talks by invitation, focusing on either some cases of excellence or on cases where remediation was late, and by identifying which were positive factors to promote and vice versa which were barriers to be removed. The afternoon session will be devoted to presentations on the same topics, which will be selected by a "call for papers". The selection will be made by the CTS.

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AGRIFOOD, BIOBASED INDUSTRY AND BLUE GROWTH

9 november 9.30-13.00

Sala Biobased Industry

**Innovation in bioeconomy:
technology clusters, national
and international projects**

Oral presentation

Poster session

Send the brief abstract to:

cinzia.tonci@mise.gov.it; Giulia.Gregori@novamont.com; Federica.Mastroianni@novamont.com and sem.ecomondo@iegexpo.it

ORGANIZED BY

CLUSTER SPRING, CLUSTER CLAN and Ecomondo Technical Scientific Committee

National Technological Clusters have been set up by the Italian Ministry for Education, University and Research in the National Research Plan 2015-2020 to create permanent dialogue platforms between public research network and enterprises, focusing on a specific technology and application area of strategic interest. The conference provides some relevant examples of innovation projects implemented in the framework of Italian and EU Clusters directly linked to the bioeconomy as well as their positive impact on a variety of economic sectors.

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