

ECOMONDO

THE GREEN TECHNOLOGIES EXPO

22th International trade fair
for material & energy recovery
and sustainable development

Green & Circular Economy

6-9 November 2018

Rimini Italy

IN CONTEMPORARY WITH

KEY ENERGY



PRELIMINARY PROGRAMME ONLY FOR CONFERENCES WITH “CALL FOR SCIENTIFIC PAPERS”

DEADLINE FOR SUBMISSION OF SHORT ABSTRACTS: 6 JULY 2018

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 scientific secretariat** (sem.ecomondo@iegexpo.it), no later than 6 July 2018.

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 6 July will not be accepted.

Abstracts accepted for an oral or poster presentation (acceptance will be communicated by 20 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 2018. 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 2018 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)

Dates, times and rooms are still indicative and may vary according to emerging needs

WASTE MANAGEMENT AND VALORIZATION

7 november 10a.m. - 1.30a.m.

Tiglio Room, A6 pav.

Sustainability evaluation in waste management

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee, Società Chimica Italiana – Divisione CABC, GdL “Gestione e trattamento dei rifiuti”, Rete italiana LC

In line with the suggestions provided by the Circular Economy package, waste management is presently being deeply revised at European level, to improve efficiency and generate more benefits. An essential requirement relies on the considerations about the sustainability, in its different perspectives. The monitoring of environmental effects coming from various waste management practices, the impacts assessment of alternative treatment and recovery scenarios, the consideration of costs and economic feasibility, possible social consequences deriving from the implementation of different solutions, will be the topics of this seminar. The approach and the results of several assessment tools (environmental monitoring, environmental, social and economic LCA, Material Flow Analysis, scenario analysis, and others) will be considered and possibly compared.

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WASTE MANAGEMENT AND VALORIZATION

7 november 2p.m. - 5.30p.m.

Tiglio Room, A6 pav.

Applied researches for the treatment and recovery of solid residues

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee, Società Chimica Italiana – Divisione CABC

In line with the suggestions provided by the Circular Economy package, waste management is presently being deeply revised at European level, to improve efficiency and generate more benefits. An essential requirement relies on the considerations about the sustainability, in its different perspectives. The monitoring of environmental effects coming from various waste management practices, the impacts assessment of alternative treatment and recovery scenarios, the consideration of costs and economic feasibility, possible social consequences deriving from the implementation of different solutions, will be the topics of this seminar. The approach and the results of several assessment tools (environmental monitoring, environmental, social and economic LCA, Material Flow Analysis, scenario analysis, and others) will be considered and possibly compared.

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WASTE MANAGEMENT AND VALORIZATION

6 november 2p.m. - 6p.m.

Ravezzi 1 Room, South Hall

Conference on hazardous waste management

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Utilitalia and Ecomondo Scientific Technical Committee

Although represents only a minor share of the total waste production, hazardous waste is a priority waste stream that may cause negative impacts on human health and the environment if improperly managed. Focusing on (municipal and industrial) hazardous waste, the conference will presents relevant policy and legislation, treatment solutions and technologies in order to promote a debate on constraints and goals of hazardous waste management at European and national level. It will be an opportunity to reflect on Italian collection and treatment infrastructure, permitting practices, data reporting, export and illegal waste disposal.

It will participate the Italian Ministry of the environment, ISPRA (Italian Institute for Environmental Protection and Research), hazardous waste management companies, environmental associations, European organisations and associations of waste management operators.

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WATER MANAGEMENT AND VALORIZATION

8 november 10p.m. - 6p.m.

Global Water Expo Room

**Drinking water: new eu directive,
water safety plans and emerging
challenges**

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee, Utilitalia, Istituto Superiore di Sanità, Università di Brescia

The European Commission is working on a new Drinking Water Directive, reviewing the quality standards, parameters and parametric values recommended for inclusion or exclusion by the World Health Organization. Emerging pollutants (e.g. perfluorinated, endocrine disrupting compounds, chlorate and chlorite) and emerging challenges are considered. The proposal has been published on February 2018 and several open issues are debatable concerning the technical, economic and regulatory impacts of the new directive. The workshop will address these challenges in two stages: 1st dedicated to the governance and regulatory impacts; 2nd related to the technical challenges.

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WATER MANAGEMENT AND VALORIZATION

7 november 9.30p.m. - 1p.m.

Global Water Expo Room

**Sustainable and efficient
management of water in
agriculture: smart irrigation
and water reuse**

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee, Università di Bologna, Università Politecnica delle Marche, ANBI, Confagricoltura, Horizon2020 SWAMP Consortium, Horizon2020 HYDROUSA Consortium

According to the OECD agriculture and farming accounts for around 70% of water used in the world today and also contributes to water pollution from excess nutrients, pesticides and other pollutants. Increased pressure from urbanisation, industrialisation and climate change will provide agriculture with more competition for water resources and climate change could affect water supply and agriculture through changes in the seasonal timing of rainfall and snow pack melt, as well as higher incidence and severity of floods and droughts. Sustainable management of water in agriculture is critical to increase agricultural production, ensure water can be shared with other users and maintain the environmental and social benefits of water systems. Governments and society need to improve the economic efficiency and environmental effectiveness of policies that seek to improve water resource use efficiency and reduce water pollution from agricultural systems. Eco-innovative and digital solutions such as water reuse and smart irrigation can play a major role towards sustainability of the water-energy-carbon-food nexus.

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MONITORING & CONTROL

8 november 9.30p.m. - 1.30p.m.

Monitoring & Control Room

**Indoor Air Quality:
european aand national state
of art aand perspectives**

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee and Italian Institute Superior for Health

The present half-a-day workshop aims to introduce the main ongoing initiatives at EU and national level on the indoor air quality to the interested regulatory bodies and to the stakeholders. The discussion will cover the opportunity to frame the inventoried activities into the research opportunities and the pre-normative and normative contexts.

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BIOREMEDIATION AND SITE REQUALIFICATION

8 november 2.30p.m. - 5.30p.m. / 9 november 9.30a.m. - 1.30p.m.

Reclaim Expo Room

International conference on sustainable source zone remediation

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee

In last 20 years most applied techniques for site remediation have been through soil excavation and land-filling and pump and treat of contaminated plume, which (although effective) are both high cost and poorly sustainable approaches.

Advancements in scientific knowledge and technology innovation make today possible to move on to more sustainable and affordable approaches, which are based on shrinking the remediation area by strictly focusing on the treatment of contamination sources, either primary or secondary and especially long-term sources. In turn, this calls both for the use of advanced characterization tools, which make it possible to well-define and describe source areas, and for advanced remediation techniques, which are especially suitable for accelerating remediation of long-term highly concentrated sources.

Starting from a few examples of highly qualified international speakers, this session will be open to contributions through a call for papers, aiming to collect examples and case studies on emerging and advanced applications in Italy and abroad, especially at pilot- or full-scale.

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BIOECONOMY

9 november 9.30 a.m. - 1 p.m.

Biobased Industry Room

Biorefineries integrated in local areas - successful cases and future developments

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee, Italian Minister of Economic Development and Italian Cluster of Green Chemistry SPRING

As described in the Italian Bioeconomy Strategy, adopted in April 2017, the Italian bio-based industry is a sector in which our country has a clear technology advantage and where important private investments and relevant research projects have been carried out and innovation has given rise to multi-input and multi-product biorefineries. Italian Biorefineries represent real bioeconomy infrastructures and are considered as case studies even at international level. However they are facing many challenges such as the limited and discontinuous availability of sustainable biomass, the need for significant and risky investments for the industrial scale-up, the lack of a regulatory and policy framework boosting the sector, etc. The conference aims to deepen the strengths, priorities and critical issues of the sector through some successful case studies.

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CHAIN PATTERNS FOR THE CIRCULAR ECONOMY

6 november 2 p.m. - 6 p.m.

Biobased Industry Room

**Ecodesign for the efficiency
of the chain**

Oral presentation

Poster session

Send the brief abstract to:

sem.ecomondo@iegexpo.it

ORGANIZED BY

Ecomondo Scientific Technical Committee, Edizioni Ambiente, FISE UniCircular

Ecodesign is one of the most important factor to implement in production chains in order to harmonize the different steps of project, production, recovery and material valorization. That's to say the main patterns of Circular Economy processes. Focus on Packaging and electronic sectors.

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