

ECOMONDO

the platform for green solutions

17^a Fiera Internazionale
del Recupero di Materia ed Energia
e dello Sviluppo Sostenibile

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RIMINI - ITALY
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REFORMAT
IN GREEN

2013 CONFERENCE & SEMINAR PROGRAM (draft updated to 30th August 2013)

Dates, times and rooms are still in part only for informative purposes and may be subject to change according to requirements



In collaborazione con



**Wednesday 6th and Thursday 7th November 2013 Neri Room South Foyer
A Green New Deal for Italy against the economic, social and environmental crisis**

The 2013 General Assembly of the green economy will be held on November 6-7 to launch a “Green New Deal” for Italy. The green economy national council, formed by 61 company organizations, firmly hopes that the Italian Government undertakes the necessary initiatives for tackling the (economic, social and environmental) crises affecting the country.

The 2013 General Assembly will be organized in three sessions:

- **SESSION I, on the morning of 6th November, will be dedicated to “Conditions and proposals for a Green New Deal”, with European and international speakers;**
- **SESSION II, on the afternoon of the 6th** (with qualified speakers and a debate), will be focused on the topic **“Local and regional initiatives for a Green New Deal”;**
- **SESSION III, on the morning of November 7th,** also with qualified speakers and a debate, will address the issue **“Economic and fiscal instruments and measures for a Green New Deal in Italy”.**



ECOMONDO WASTE

WE PROMOTE THE POSSIBILITY OF PUBLICATION FOR ALL SPEAKERS'.

IMPORTANT AND URGENT: Speakers at every one of the conferences in the following program have the possibility of publishing an article on their speech. It can be a 5/6 page article in Italian or English to be included on the DVD of the Ecomondo proceedings (published by Maggioli Editore) or in English in the peer-reviewed international magazine *Environmental Engineering Management Journal*.

Those interested in doing so must prepare the manuscript according to the Authors' Instructions available on the Web site: http://www.ecomondo.com/appuntamenti_eventi/call_for_papers.asp and send it to Dr. Grazia Totaro (grazia.totaro@unibo.it) and "sem.ecomondo@riminifiera.it" within and no later than the dates indicated at the beginning of September 2013.

Wednesday 6th November 2013 2:00-5:00 pm Cedro Room - West Foyer - Hall C7 **Production and recovery of waste from C&D in Italy**

Organized by **Ecomondo CTS (Technical & Scientific Committee)**, **ISPRA (Institute for Environmental Protection & Research)**, **FISE UNIRE (National Union of Recovery Enterprises)** and **ANPAR (Italian Association of Recycled Aggregate Producers)**

The Conference intends giving an insight on the quantities of waste from construction and demolition currently produced and recovered in Italy, a flow of waste on which there are still currently many uncertainties regarding the quota effectively sent to be recycled for the production of quality aggregate. By means of European comparisons and with potential users of this material, it is also intended to identify some fields of application that must be developed as a matter of priority also in Italy to promote the recycling of this type of waste, in compliance with European directions.

Session Chair

TBA

Program

2:00 pm Introduction

Speeches:

Production and recovery of construction and demolition waste: legislative framework, national target and flow analysis – ISPRA

Problems regarding the achievement of the recovery target of C&D waste: the role of recycled aggregate – ANPAR

Recycling C&D waste: European comparisons – FIR (International Recycling Federation)

Technical regulations regarding recycled aggregate – D'Andrea, UNI Roads Commission

Use of recycled aggregate by construction companies – ANCE (Italian National Association of Construction Companies)

Use of recycled aggregate on large projects – ASTALDI (or another important commissioning body)

4:30 pm **Discussion and end of proceedings**

Wednesday 6th November 2013 – 2:00-6:00 pm Air Room Hall D3 **Recovery of organic waste and purification plant sludge**

Organized by **ENEA (Italian National Agency for New Technologies, Energy & Sustainable Economic Development), CNR (National Research Council) - IRSA, AQUASER Srl, ACEA (multi-utility group), Ecomondo CTS**

Call for papers

In municipal waste management, the organic fraction of non-segregated waste is currently the greatest problem no matter what technical choices are adopted (mechanical-biological treatment, thermal treatment). The treatment of organic waste from source-segregated collection is thus becoming increasingly important, and its objective is the completion of the cycle and maximization of the recovery of material and biofuels. Purification plant sludge, on the other hand, is still an unsolved problem, also bearing in mind the situation of backwardness of many purification plants, due to chronic delays in upgrades. Among the effective solutions to this end, there is the combined recovery of purification plant sludge and organic waste in composting plants and anaerobic digestion plants, which, along with agricultural use, was the key element of a series of studies carried out in recent years. The conference compares experiences and solutions drawn up in national and international research projects with those already applied in full-scale plants and is an opportunity to invite stakeholders to network on this issue's key aspects.

SESSION I – Sludge and the organic fraction: heading for new scenarios

Session Chairs

Luciano Piacenti – Head, Industrial Environment Area – ACEA
Fabio Musmeci - ENEA

10:00 am - A new approach to organic waste management: the AQUASER ACEA group model

Alessandro Filippi, Aquaser Srl

10:20 am - Agronomic recovery

Anna Benedetti, CRA (Council for Agricultural Research)

10:40 am - Mixed Composted Soil Amendment: heading for the establishment of standards for quality bio-fertilizer production

Andrea Vannini¹, Silvia Rita Stazi¹, Giovanni Parisi², Simona Castald², MariaPia Aleandri¹, Roberto Read¹
Anna Maria Vettraino¹ and Gabriele Chilosi¹

¹ DIBAF-University of Tuscia-Viterbo, ² Department of Environmental Science - Second University of Naples

SESSION II - From sludge to biosolids

Session Chairs

Franco Cecchi – INCA (Interuniversity National Consortium "Chemistry for the Environment")
Giuseppe Mininni - CNR IRSA

11:20 am - Innovative treatment for the recovery of purification plant sludge drawn up in the FP7 ROUTES project

Giuseppe Mininni, D. Bolzonella, C.M. Braguglia, A. Gallipoli, A. Gianico, G. Mascolo, M. Majone, C. Tomei, CNR [Water Research Institute](#), University of Verona, La Sapienza University

11:40 am - Assessing the use of sludge in agriculture via LCA

G. Barberio, L. Cutaia, ENEA

12 noon - Future concepts of sewage sludge management

T. Vollmeir, A. Catorini - TBF + Partner AG, Consulting Engineers, Agno, Switzerland

12:15 pm - Characterization and utilization of a biosolid from chemical stabilization of municipal sewage sludge

L. Sciubba, L. Cavani, C. Marzadori, C. Ciavatta DipSA - University of Bologna

12:30 pm - Sewage sludge as a resource for phosphorus

J. Ansorg, T. Vollmeier - * TBF + Partner AG, Consulting Engineers, Zurich, Switzerland

12:45 pm – Co-digestion of organic fractions from source-segregated waste and purification plant sludge

Paolo Pavan, David Bolzonella – University of Venice, University of Verona

1:00 pm - **Discussion and end of proceedings**

Wednesday 6th November 2013 2:00-6:00 pm Diotallevi Room 2 South Foyer
SSF: the evolution of SSF regulations

Organized by: **Ecomondo CTS and Italian Heat Technology Committee (CTI)** with the patronage of **ENEA, GSE, MSE, MATTM (Ministry for the Environment and Land & Sea Protection) and RSE (Research on the Energetic System), ASSOAMBIENTE, FEDERAMBIENTE**

SSF – Secondary Solid Fuels – represent the evolution of RDF and could be the key to the re-launch for energy purposes of the parts of municipal and special waste that cannot be conveniently recycled as material. SSF are defined by a solid package of technical regulations established by the CE to favour the sale of these fuels with particular reference to the production of electrical energy (and therefore also thermal energy) and cement manufacture. Among the aspects of interest to the CE, there is also the renewable energy content in SSF in variable percentages (according to the type of original waste), which could contribute considerably to achieving the objectives of Directive 28/09. In Italy, SSF are covered by national legislation and by 2010 Legislative Decree 205 and, in addition, specific provisions have been developed for the application of “End of Waste” procedure and to facilitate the use of SSF in cement plants. In this scenario, the Conference intends providing a precise update of the sector and giving an insight on the problems of interest to SSF manufacturers and users.

Session Chairs

Giovanni Riva – Italian Heat Technology Committee
Giovanni Ciceri – RSE
Pasquale de Stefanis - ENEA

Program

2:00 pm – Introduction by the Chairs. SSF prospects in Italy
2:20 pm - Update on the legislative situation
Sebastiano Serra, MATTM.
3:00 pm - Update on technical regulations
Mattia Merlini, CTI.
3:15 pm - The Operator’s rules and applicative problems
Luca Benedetti, GSE (energy services operator).
3:45 pm – Legal and authorization aspects
Luciano Butti - B&P Avvocati (lawyers) –
4:15 pm - Valentina Cipriano, Federambiente. Producers’ and users’ points of view
4:45 pm - Users’ point of view
Assoambiente and AITEC representatives.

5:30 pm - **Discussion and end of proceedings**

Wednesday 6th November 2013 2:00-6:00 pm Ravezzi Room 2 South Foyer **Waste prevention programs: comparing strategies**

Organized by **Emilia Romagna Region** and **ERVET** (*Emilia Romagna Regional Agency for the Economic Exploitation of the Territory*)

A present-day waste management policy that intends being effective and realistic concentrates its priorities on prevention issues, as required by European institutions. Italian regions respond to this task by means of their prevention Plans or Programs. The conference offers an opportunity for observing the experience already gained in some regions in prevention program development and for networking on some key aspects: identification of strategies and priorities, choice of executive means and monitoring of results.

2:00 pm – Introduction: *Sabrina Freda*, Emilia-Romagna Regional councillor for the Environment and Urban Regeneration

Session Chair

Giuseppe Bortone - Directorate, Environment and Defence of the Land and Coast, Emilia-Romagna Region

2:30 pm - The European and national reference framework for regional Plans and Programs, *Rosanna Antonella Laraia*, Waste service – ISPRA
2:40 pm The National Prevention Program – DG, protection of the land and water resources - MATTM

Regional prevention plans: innovative measures and actions compared

3:00 pm - Emilia-Romagna Region – *Vito Cannariato*, Waste and Site Remediation Service
3:20 pm - Lombardy Region - *Rocco Racciatti*, Directorate, Waste and Remediation Planning
3:40 pm - Marches Region – *Aldo Cingolani*, Land and Environment Service
4:00 pm- Sardinia Region – *Salvatore Pinna* (*) air and land protection Service

4:20 - 5:20 pm **Round table - Action for carrying out prevention measures: comparing players**

Moderator

Enrico Cancila, ERVET SpA

CONAI – *Consortium Representative* - Legambiente - *Stefano Ciafani* - Ferrara Municipality *Rossella Zadro* - Cesena Municipality - *Nicola Baroncini* – Monte San Pietro Municipality - *Barbara Fabbri*.

5:20 - 5:45 pm **Debate and Conclusions**

(*) invited

**Thursday 7th November 2013 9:30 am - 1:00 pm Diotallevi Room 1 South Foyer
Forum – Reducing and preventing food waste: What's the situation?**

Organized by **Ecomondo CTS, European Parliament - agriculture and rural development Commission, Last Minute Market-Waste Watcher- University of Bologna, SWG-Trieste, Department of agri-food Science and Technologies**

From the “Charter for Zero Waste administration” it can be seen that food waste regards the entire agri-food supply chain and affects all countries indistinctly. According to FAO estimates, in developing countries it is located up-stream in the agri-food supply chain (6-11 kg per-capita in 2010) and in industrialized nations is mainly downstream: distribution, catering and household consumptions (95-115 kg per capita). The European Union with 180 kg per capita and Italy with 149 kg per capita are above the average of industrialized countries. In “richer” countries, the preponderant part of food waste occurs at household level. According to an estimate of the European Commission’s DG Environment, 42% of the total waste (76 kg per capita per year) occurs within the four walls of our homes (25% of the total weight of food purchased). At least 60% of this waste could be avoided. In Italy, according to the figures prepared by Last Minute Market and its Waste Watcher observatory, in partnership with SWG, food waste represents 1.19% of the GDP (approximately 18.5 billion euros as far as 2011 was concerned) divided as follows: “just” 0.23% is in the production chain (agriculture), processing (food industry), distribution (large- and small-scale) and (collective) food service, the rest is at household level: 0.96% of the GDP. Throwing away food also means wasting limited natural resources – soil, water, energy, etc. - used to produce, process and distribute the products, then to dispose of the waste, thus having a negative impact not only from an ecological point of view but also from an economic and social point of view. To reduce and prevent food waste, the European Parliament, stimulated by the Last Minute Market, has approved a Resolution: strategies for improving the efficiency of the food supply chain in the EU (2011/2175(INI), establishing specific food waste prevention targets, in the context of the waste prevention targets which member States must achieve within 2014 and taking concrete action to half food waste within 2025. What is the current situation in Europe and in Italy? Data, results and action/projects, comparison of best practices.

Moderator

Daniele Mastrogiacomo – La Repubblica

Program

I. What point is Europe at? From the European resolution to research and development

Paolo De Castro – Chairman, Committee on Agriculture and Rural Development of the European Parliament
The EP resolution for halving food waste by 2025: current situation and prospects
Toine Timmermans - Wageningen University and Coordinator of FUSIONS (Food Use for Social Innovation by Optimising waste prevention)
The European network for the reduction of food waste: action under way and future prospects
Sandra Caldeira - Institute for Health and Consumer Protection, Joint Research Centre, European Commission, ISPRA
What more can Europe do?

II. What point is Italy at? The first results of the survey on household waste with the Waste Watcher Observatory, the launch of the Spreco Zero (Zero Waste) Net network

Andrea Segrè - Chairman Last Minute Market, University of Bologna spin-off

Zero Waste: from vision to action

Stefano Mazzetti – Mayor of Sasso Marconi

Spreco Zero Net: the coordination of the Charter for zero-waste administrations

Maurizio Pessato, Vice chairman SWG - Waste Watcher Observatory Partner

Results of the first national survey on household food waste

Valentina Adornato – Waste Watcher Observatory, Last Minute Market, University of Bologna

The Waste Watcher Observatory as an instrument for analysis and prevention of household waste

III. Successful cases

WRAP, UK (TBC)

Last Minute Market (TBC)

Coop Adriatica (TBC)

CONAD (TBC)

Banco Alimentare (TBC)

Discussion and end of proceedings

Thursday 7th November 2013 10:00 am - 1:30 pm Ravezzi Room 1 South Foyer

Source-segregated waste collection and recycling in Italy

Organized by **Federambiente**

Seventh appointment for an insight on the current situation in source-segregated waste collection in Italy. The annual conference organized by Federambiente in the context of the Ecomondo event intends highlighting, along with experts and those working in the sector, the main elements characterizing the source-segregated waste collection scenario in Italy, also bearing in mind the new normative requisites, which move attention from source-segregated collection of packaging to the recycling of material.

Session Chairs

Gianluca Cencia - Federambiente

Alberto Ferro - Federambiente

Program

10:00 am - Opening of the proceedings

Gianluca Cencia - General Manager, Federambiente

10:10 am - Presentation of the Conference

Alberto Ferro - Coordinator, Federambiente “RD e Riciclo” (*Source-segregated waste collection and Recycling*) work group

10:30 am - Round Table (Speeches by 6 Federambiente member companies)

Moderator: Alberto Ferro

12:15 pm - Debate

12:45 pm - Conclusions

Daniele Fortini - Chairman, Federambiente

1:30 pm - **Discussion and end of proceedings**

Thursday 7th November 2013 2:30-5:00 pm Cedro Room - West Foyer - Hall C7 side

Recycling - a valuable source of raw material

Organized by: **Ecomondo CTS, ENEA, FEDERCHIMICA**

The aim of the conference is to provide an overview of what is being done in Europe and in Italy to face the problem of the recovery and recycling of material, particularly regarding technologies and processes dedicated to various particularly critical types of waste and industrial processing scrap. The potential

stakeholders for this event are representatives of institutions/enterprises/consortia involved in the Critical Raw Material sector, collection and treatment of waste and others.

Session Chair

Claudia Brunori - ENEA

Program

2:30 - Recycling as a strategic approach to completing the "Raw Material" cycle

Claudia Brunori - ENEA

2:50 pm - Natural rubber – Critical aspects for the tyre industry

Marco Nahmias - Pirelli

3:10 pm - Recovering silicon carbide) from waste tyres: the Tygre Project

Sergio Galvagno, Giacinto Cornacchia, Maurizio Coronidi, Sabrina Portofino - ENEA

3:30 - Technology for recovering high added-value metals and rare earths from WEEE

Danilo Fontana, Roberta Guzzinati, Massimiliana Pietrantonio, Stefano Pucciarmati, Giorgia Nadia Torelli - ENEA

3:50 pm - Recovering mixed plastics from WEEE by means of pyrolysis

Lorenzo Cafiero, Riccardo Tuffi - ENEA

4:10 pm - Prospects of development of the recovery of substances from exhausted new-generation accumulators

Cristian Gullino - SIAE (*)

4:30 pm - A new lease of life for photovoltaic panels: The pvrenew project:

Raffaele Muro, Gloria Achilli - Business Improvement Srl; Pierluigi Lagi - Aerlagi Srl; Pasquale Spezzano, Danilo Fontana, Massimiliana Pietrantonio - ENEA

4:50 pm - **Discussion and end of proceedings**

(*) awaiting confirmation

Thursday 7th November 2013 2:30 - 5:30 pm Ravezzi Room 1 South Foyer

Italy's National Register of Environmental Managers - Results achieved and future prospects

Organized by the **National Register of Environmental Managers**

In the complex system regulating waste management, the National Register of Environmental Managers is an important means of qualification of the sector's enterprises, as well as for ensuring transparency, rationalization and streamlining authorization procedure; nowadays it is a solid reference point not only for its members, but also for the entire manufacturing system involved. The Register's current objectives regard administrative simplification and the guarantee of a high level of environmental protection, to pursue by means of the qualification of member enterprises. These objectives inspired the new regulations that will discipline the Register's life in coming years and will have to be the reference point of the executive provisions that are the Register's responsibility. In this context, with the contribution of representatives of trade categories and institutions, the Conference intends offering an opportunity for reflection and debate, in the light of the results achieved, on the future prospects of the Register's activity.

Friday 8th November 2013 9:30 am - 1:00 pm Neri Room 2 South Foyer

Emerging aspects in the waste field. Prevention, recycling material, special waste, waste classification

Organized by **ISPRA, Ecomondo CTS**

Call for papers

The implementation of directive 2008/98/CE is a challenge for Italy, due to the poor performance achieved above all on matters of waste prevention and recycling and considering that the EU classifies recycling in the more general context of sustainable management of resources, inviting member states to identify means and measures to enable to manage waste as a resource within 2020. In this context, there is also the fight against food waste that the European Commission intends carrying out also by means of fixing specific reduction targets to be included in a compulsory manner in prevention plans drawn up as per directive 2008/98/CE. The Forum is an annual appointment for updating on community and national legislation on waste matters and for discussion on the sector's most problematic aspects with the involvement in the debate of all the institutions and interested trade members. As well as the National prevention Program and relative regional programs, the emerging issues to be faced are the European Commission's new regulations on waste classification, European decisions on end of waste criteria, problems connected with the topic of

liberalization, application of the TARES (municipal waste and service tax) and management of special waste. A seminar will follow, providing in-depth coverage of the most important technical aspects of the national discipline.

Participants will include representatives of institutions, local authorities, national associations and the National Register of Environmental Managers.

9:30 am - 1:00 pm General Session

Session Chair

Rosanna Laraia – ISPRA, Rome

Program

10:00-11:00 am Speech by Maurizio Pernice - General Manager MATTM

Rosanna Laraia - ISPRA - Emerging aspects and critical matters in the waste management system

Luciano Morselli - The elements of governing the environment, economy and land together in the Waste Cycle

11:00 am - 1:00 pm ROUND TABLE “THE EMERGING ASPECTS OF THE WASTE SECTOR”

Coordinator: Rosanna Laraia.

Speakers

ISPRA (Bernardo De Bernardinis, President)

ISWA (David Newman, President)

ANCI (Filippo Bernocchi)

ARPA/APPA - Corrado Carrubba, Commissioner ARPA Lazio

FEAD (European Federation of Waste Management and Environmental Services) - Andrea Eleuteri

Confindustria - Prof. Massimo Beccarello, Assistant Director, Confindustria Development, Energy & Environment Policies

Federambiente (Daniele Fortini, Chairman)

FISE Assoambiente (Monica Cerroni, Chairperson)

Italian Waste Management Register (Eugenio Onori, Chairman)

Discussion and end of proceedings by the Chairman of the Environment Commission of the Chamber of Deputies (Ermete Realacci)

Friday 8th November 2013 9:00 am - 2:00 pm Ravezzi Room 2 South Foyer

Waste. The innovative aspects in industrial research and management at various territorial levels

Organized by: **University of Bologna – Rimini campus - Sustainable Waste Management Technological Platform, High Technology Network ER - Regional Energy and Environment Platform, Ecomondo CTS**

Call for papers

The Conference intends providing a reference point for Industrial Research, new management models, experiences and territorial or corporate case studies that are of key importance at strategic national level. From recent investigations on the state of the art at national and wide territorial management level, various uncertainties have been added to those traditionally found in Italy and at the same time the targets called for at EU level, when compared with the most virtuous nations, are increasingly far-off. It is therefore necessary, following some suggestions which we receive, to reduce normative obstacles, follow a timetable for an eco-efficient 2020, renewability of materials and recycling, adoption of instruments for the sustainable validity of processes and cultural-professional training with the results of Industrial Ecology. Transposition of the expected results to the trade world and utility companies is of primary importance.

Session Chairs

Fabrizio Passarini – University of Bologna

Umberto Arena – University of Naples

Program

9:30 - 9:40 am

Introduction

9:40 - 10:10 am

Northern European Waste to energy Plants, Over Capacity or Available Capacity

Bettina Kamuk - ISWA WG on Energy Recovery

10:10 - 10:25 am

Industrial Ecology in Sustainable Integrated Waste Management

Luciano Morselli, Luca Ciacci - University of Bologna CIRI EA

10:25 - 10:40 am

Environmental assessment of the material & energy recovery chain. Case studies.

Umberto Arena – University of Naples

10:40 - 10:55 am

Implementing RD systems in an urban context, comparison of RUW (Residual Urban Waste) treatment options

Enzo Favoino - Monza Park Agricultural School

10:55 - 11:05 am

Cigarette butts: from toxic waste to resource for green ecologic design

Carmine Ciro Lombardi – ENEA

Pietro Puca - Start Cup Campania 2012

Speeches selected among works received following the Call for papers

11:05 - 11:20 am

The Argentalia Method. Technological innovation and management integration in territorial municipal waste management systems.

Architect. Nicola Tucci, Francesco Antonio Fagà (engineer) - Centro Studio D.E.I. Desarrollo Etico Internaciònal.

11:20 - 11:35 am

Unsorted Municipal Waste treatment plant analysis: Emilia-Romagna case study.

C. Sacconi, M. Pellegrini - Industrial Engineering Department (DIN) – University of Bologna

B. Villani, V. Rumberti - Regional Agency for Environmental Protection and Prevention (ARPA)

11:35 - 11:50 am

Waste plastics management in municipalities: logistics and processes in Lombardy (Northern Italy).

Stefania Carcione - BSc student at Palermo University

Placido Alfredo Lanza - DICAM - Palermo University

Giovanni Albetti - SERUSO S.p.A.

Pamela Canzi - C.E.M. Ambiente S.p.A.

Francesco Drago - SERUSO S.p.A.

11:50 am - 12:05 pm

The system for the management of waste produced by ships in the port of Augusta.

Sebastiano Mangiagli – University of Cassino and Southern Lazio, Department of Economics and Law

12:05 - 12:20 pm

Treatment of end of life railway vehicles: critical analysis and application of a method for calculating re-use, recycling and recovery rates.

Lorenzo Berzi, Francesco Del Pero, Massimo Delogu, Marco Pierini, Davide Bonaffini - Department of Industrial Engineering, Ansaldo Breda SpA

12:20 - 12:35 pm

Urban mining: a successful experience of the EU-FP7 HydroWEEE Project.

F. Beolchini, L. Rocchetti - Marche Polytechnic University, DISVA, Ancona

P. Altimari, L. Toro - EcoRecycling spin-off, Civita Castellana (Viterbo)

F. Pagnanelli, E. Mauro Majone, Sapienza University (Rome), Chemistry Department, Rome

B. Kopacek – ISL, Vienna, Austria

B. Ferrari - Relight, Rho (Milan)

I. De Michelis, V. Innocenzi, F. Vegliò – L'Aquila University, Industrial Engineering Department, L'Aquila

12:35 - 12:50 pm

Recycled plastics from AHP (Absorbent Hygiene Products)

A. Passaro, A. Marseglia, R. Gennaro - CETMA

G. Polisenò, N. D'Alessio, M. Somma - FATER S.p.A.

12:50 - 1:05 pm

NIRS techniques: possible applications for rapid classification of matrices emitted by anaerobic digesters.

A. Immovilli, C. Fabbri, S. Piccinini, N. Labartino - C.R.P.A. Lab - Environment and Energy Section (Centro Ricerche Produzioni Animali), Reggio Emilia

1:05 - 1:20 pm

Inertization of chromium liquid waste in inorganic polymers by alkali activation of metakaolin.

Isabella Lancellotti, Chiara Ponzoni, Luisa Barbieri, Cristina Leonelli – University of Modena and Reggio Emilia

1:20 - 1:35 pm

Minimizing the ambient impact of Metal Working Fluids by automatic detection of bacterial contamination.

Marco Grossi, Diego Matteuzzi, Bruno Riccò - Department of Electronic Engineering (DEI), University of Bologna, Department of Pharmaceutical Sciences, University of Bologna.

1:35 - 2:00 pm

Discussion and end of proceedings

Poster Session

W3-1 Experimental tests for the determination of emissions of metals during the heat treatment of samples of crystalline silicon photovoltaic module / Marco Tammaro, Juri Rimauro, Valeria Fiandra, Antonio Salluzzo, ENEA, Italian National Agency for New Technologies, Energy and the Environment

W3-2 Assessing biochar quality by germination tests / A. Buscaroli, D. Fabbri, E. Mancini, C.Torri, A. G. Rombolà, D. Zannoni, CIRI Energia Ambiente Alma Mater Studiorum University of Bologna

W3-3 Tyre recovery with thermodynamic cracking technology / Luciano Morselli, Ivano Vassura, Fabrizio Passarini, University of Bologna, Department of Industrial Chemistry; Alessandro Santini, Gruppo Fiori; Giorgio Pecci, Cracking Energy Machines Ltd, Crawley (England).

W3-4 Motorcycles' end of life: analysis of management scenarios based on the ELV Directive / Filippo Romoli, Lorenzo Berzi, Massimo Delogu, Marco Pierini, Department of Industrial Engineering, University of Florence

W3-5 Use of solid and dense fractions from animal farming sewage as an alternative to silage for the production of biogas / P. Mantovi, C. Fabbri, M. Soldano, S. Piccinini, C.R.P.A. Lab - Environment and Energy Section

W3-6 Prospects of re-use of sludge from dredging work / Cristina Annicchiarico, Micaela Buonocore, Nicola Cardellicchio, Antonella Di Leo, Santina Giandomenico, Lucia Spada, CNR – Institute for Coastal Marine Environment

W3-7 Technical solutions to improve recovery of scrap deriving from treating glass packaging waste/ F. Andreola, L. Barbieri, D. Giuranna, I. Lancellotti, R. Taurino, University of Modena and Reggio Emilia, "Enzo Ferrari" Department of Engineering.

W3-8 Preparation of polyethylene composites coloured with residues from the chemical recycling of glass / Patrizia Primerano, ^a Maria Francesco Milazzo, ^a Anna Maria Visco, ^a Agata Matarazzo^b, a) Department of Electronic Engineering, Chemistry and Industrial Engineering, University of Messina; b) Department of Economy and Enterprise, University of Catania

W3-9 "End of waste" criteria for the suspension of waste classification and the discipline on SSF identified by Italian Ministerial Decree N°. 22 of 14th February 2013 / Francesca Sarli.

W3-10 Exploring urban mines: potential and critical aspects of WEEE management / Luca Ciacci¹, Fabrizio Passarini^{1,2}, Ivano Vassura^{1,2}, Luciano Morselli^{1,2}, ⁱInterdepartmental Industrial Research Centre CIRI Energy and Environment, University of Bologna; ²"Toso Montanari" Department of Industrial Chemistry, University of Bologna

W3-11 Analysis of the behaviour of citizens of the Municipality of Campodimele in source segregated waste collection / Mangiagli Sebastiano, University of Cassino and Southern Lazio, Department of Economics and Law

W3-12 Presentation of the project "Nella pancia o nella terra" (In the stomach or in the Ground) / Gianmaria Gasperi, A.FO.RI.S. Impresa Sociale.

W3-13 Design, realization and monitoring a passive methane oxidation barrier realized on the definitive covering of a landfill for hazardous and non-hazardous waste / Tommaso Pandolfi, Raffaele Isolani, Controlli Sicurezza Ambientale Srl.

W3-14 W.C.M. (World Class Manufacturing) Methods and Instruments. A management system for reducing waste and loss/ Massimiliano Donia, Grazia Trivisonno, Pasquale Mastrangelo, Giuseppe Sirolli, Paride Anecchini

Friday 8th November 2013 2:00 - 6:00 pm Neri Room 1 South Foyer

WEEE FORUM "Implementation of the WEEE Directive: the Italian system faces the new targets"

Organized by: **Ecomondo CTS, ASSORAE (FISE UNIRE) and WEEE Coordination Centre**. Promoted by: **ANCI (National Association of Italian Municipalities), ANIE (Italian National Federation of Electrotechnical and Electronic Companies), ASSOAMBIENTE, CONFCOMMERCIO, FEDERAMBIENTE and FEDERDISTRIBUZIONE**. Realized by: **FISE SERVIZI Srl**

On 13th August 2012, the 2012/19/CE directive on waste electrical and electronic equipment (WEEE) became effective, replacing the previous directives, and must be transposed into national regulations within 14th February 2014. However, while the new collection target in relation to WEEE generated, foreseen for 2019, is at least triple the present one (4 kg per capita), the effective collection in Italy is behind schedule: in a year (from 2011 to 2012), overall figures regarding the “official” system in the context of the Coordination Centre even shows a worrying decrease of 9%. The enactment thus becomes an indispensable element for strengthening Italy’s WEEE system and improving the results achieved. The Forum intends favouring networking and exchange between institutions, supply chain operator organizations, public administrations and visitors attending on the available prospects, hindrances for development and the system’s strong points.

Program

2:00 pm - The Italian WEEE management system considers the prospects offered by the adoption of the 2012/19/CE Directive - WEEE management supervision and Control Committee

2:30 pm - Quantifying WEEE produced: analysis and scenarios in some European nations compared with the situation in Italy – Federico Magalini, United Nations University

Speakers (coordinated by a journalist)

WEEE Coordination Centre

ANIE

ANCI

FEDERAMBIENTE – Paolo Giacomelli, Manager, Technical Service

FISE ASSOAMBIENTE

Representatives of the Distribution chain

ASSORAE (Association of WEEE treatment operators)

5:30 pm - **Discussion and end of proceedings** by the Ministry for the Environment and Land & Sea Protection

Friday 8th November 2013 2:00 - 5:30 pm Neri Room 2 South Foyer

Technical seminar: Emerging aspects of waste management

Organized by **ISPRA, Ecomondo CTS**

Session Chair

Rosanna Laraia – ISPRA, Rome

Program

2:00 pm MATTM – The national prevention program

2:20 pm ANCI: TARES

2:40 pm HERA/FISE: Problems connected with special waste management

3:00 pm Giovanni Riva – CTI: Energy recovery

3:20 pm Regional representative - The critical aspects of granting authorizations

3:40 pm - Riccardo Marchesi - Corintea soc. Coop - The PRE-WASTE webtool: a matrix to help taking the right decisions and following the waste prevention actions

4:00 pm Valeria Frittelloni – ISPRA – Amendments to the Ministerial Decree of 27th September 2010 containing the criteria for

waste’s admissibility to landfills. The main new aspects and critical aspects still unsolved.

4:20 pm - Federica Paglietti – INAIL (Workers Compensation Authority) Waste containing asbestos: problems regarding disposal

4:40 pm - University of Modena and Reggio Emilia - EcoTecnoMat: an instrument for waste management as a resource.

Poster Session

W2 - 1 Evolving aspects of the disposal of waste containing asbestos, Sergio Clarelli – Assoamianto

W2 - 2 Community and national discipline on End of Waste matters: experiences with iron/steel, aluminium and glass and the first applications to SSF (Secondary Solid Fuels), Nicola Gatta, Armando Romaniello – Certiquality

W2 - 3 Polymers modified clays for separating Rare Earths from WEEE, Elena Maria Iannicelli Zubiani; Cinzia Cristiani; Giovanni Dotelli; Paola Gallo Stampino; Irene Bengo; Maurizio Masi - Milan Polytechnic

W2 - 4 Waste re-use and reduction centre: a survey in the Municipality of San Lorenzo in Campo (Pesaro Urbino), Andrea Valentini, Luca Belfiore - Wastelab Studio Associato, AltraLeonia Srl

W2 - 5 The WEEE management system in Europe and in Italy, Mangiagli Sebastiano – University of Cassino and Southern Lazio – Department of Economics and Law

W2 - 6 Ecopaperloop - the role of recycling in the environmental sustainability of cellulose products, Graziano Eliger, Daniele Bussini, Eliana Farotto, Federica Brumen - Innovhub Experimental Stations for industry, Comieco

W2 - 7 New Life from plastics, Mara Granata, Dario Pasquariello, Giovanni Peron - Consorzio Recupero Apparecchiature Elettriche ed Elettroniche (*WEEE recovery consortium*) - Rome

W2 - 8 The production and management technologies of organic waste, Francesca Sarli

W2 - 9 Solid Recovered Fuel (SRF): characterization and first application of national guidelines in a full-scale Roman MBT plant, Francesco Lombardi, Maurizio Franzese, Paola Muraro, Giovanni Fiscon - "Tor Vergata" University of Rome Dept. of Civil Engineering and Computer Science Engineering, ATIA, AMA SpA

W2 - 10 Recycling and recovery of material in the construction material sector as a reference of sustainability. Experiences of application, certification, communication, Marco Mari - Bureau Veritas Italia SpA

5:00 pm Discussion and end of proceedings

BIOWASTE

Thursday 7th November 2013 9:30 - 11:00 am Diotallevi Room 2 South Foyer
Biowaste

EU guest (TBC): EU Biowaste: where are we going?

Cooperation experiences for efficient use of the organic fraction of waste
Vito Pignatelli, Margherita Canditelli, Fabio Musmeci (ENEA).

Organic waste, from the breaking down of BMW to composting and anaerobic digestion, an evolving sector
Rosanna Laraia, ISPRA

The organic waste chain's prospects between European regulations and the Italian national market's dynamics

Massimo Centemero, Stefanie Siebert (European Compost Network).

Thursday 7th November 2013 11:00 am - 1:00 pm Diotallevi Room 2 South Foyer
XV Edition of the National Conference on Composting and Anaerobic Digestion
Organized by **ISPRA** and **CIC** (Italian Composting Association)

We are at the 15th Edition of the National Conference on Composting and Anaerobic Digestion. In recent years, the biowaste collection and treatment scenario has changed radically. The conference will face the various technical, technological, normative and market aspects of the biowaste issue. From figures regarding the collection, discussions will pass on to the innovations in the context of regulations at both Italian and European level; particular attention will be focussed on compostable packaging and End-of-Waste.

Session Chair

David Newman - CIC

Program

11:00 am – Introduction - David Newman, Director CIC

Marco Ricci (CIC-ISWA), presentation of the ISWA paper on Food Waste

E. Favoino, A. Confalonieri, Monza Park Agricultural School, New approaches to biologic treatment of RUW (Residual Urban Waste) from the point of view of the flexibility and recovery of exploitable fractions

Davide Mainero, Walter Giacetti, CIC Technical Committee. The prospects of biomethane in the bio waste cycle

12:30 pm – Bioplastics and organic recycling: the industrial system's point of view. Case studies: M. Versari, Novamont (Italy) and M. Vetere, Natureworks (USA)

Discussion and end of proceedings

Thursday 7th November 2013 2:00 - 4:00 pm Diotallevi Room 2 South Foyer

Biowaste Technical Session

Organized by the **Italian Composting Association's Technical Committee**

Call for papers

The technical session of BIOWASTE intends facing issues regarding various contexts with a technical/scientific approach: from the quality of treated organic matrices to biological treatment processes, technologies and products' exploitation. There will therefore be talk about composting, anaerobic digestion, odour impact, innovative technologies, pre- and post-treatment of various types of biomass, as well as in-depth coverage of topics regarding the exploitation of both compost and biogas. There will be a specific focus in both speech and poster sessions on scientific innovations in the waste biomass sector.

2:00 pm - Introduction: Massimo Centemero, CIC Technical Committee Coordinator

2:10 pm - Comparison and assessment of scenarios of food waste management and treatment from the large-scale distribution sector: analysis of the BMP and decision-making instruments, I. Pecorini, D. Bacchi, L. Burberi, A. Corti, N. Fredducci - DIEF, Department of Industrial Engineering, University of Florence
DIISM, Department of Information Engineering and Mathematics, University of Siena
UNICOOP Firenze SC

2:20 pm – From the sea to the land. Converting posidonia residue into compost. Strategies for eco-sustainable management and re-use in agriculture, Angelo Parente, Francesco F. Montesano – CNR ISPA
Antonella Lomoro, Massimo Guido - Eco-logica Srl

14:30 pm - The error propagation in BMP tests: towards unified criteria on test conditions and elaboration of the data. Mario A. Rosato – Sustainable Technologies SL

2:40 pm - Biomethane production from grape pomace: a technical feasibility study. Stefano Rebecchi, Lorenzo Bertin, Fabio Fava - DICAM, University of Bologna

14:50 pm - Biogas from olive residue and citrus pulp: results of an on-going test in an experimental system. Lorella Rossi, Mariangela Soldano, Sergio Piccinini - Centro Ricerche Produzioni Animali – C.R.P.A. S.p.A. Reggio Emilia

3:00 pm – Greater and more convenient production of biogas with common cane (*Arundo donax* L.). Luca Corno, Fabrizio Adani, Roberto Pilu - Gruppo Ricicla. DiSAA, University of Milan.

3:10 pm - Production of biohydrogen and volatile fatty acids from dephenolized OMWs in a sequential two-step anaerobic process. M. Monti, L. Bertin, A. Scoma, F. Fava.

3:20 pm - Sorbent materials for the cleaning of sewage biogas in high temperature fuel cell plants. Davide Papurello, Andrea Lanzini, Federico Smeacetto, Massimo Santarelli

3:30 pm - WW-SIP - integrated sustainable platform for the treatment of liquid waste. F. Santori, L. Gouveia, A. Malucelli, F. Olmo, F. Magueta - ISRIM SCarl, Terni - Italy, LNEG, Lisbon - Portugal, UMBRA ACQUE S.p.A. Perugia – Italy, CYCLUS id, Seville, Spain, AGUAS DE FIGUEIRA S.A., Figueira da Foz, Portugal

3:45 pm Discussion and end of proceedings

POSTER PRESENTATIONS

W4 - 1 Technical-economic analysis of a pilot biomass co-trigeneration plant in Sicily. Agata Matarazzo - Department of Economics and Business, University of Catania

W4 - 2 Analysis of the bioenergy market in Sicily. Agata Matarazzo - Department of Economics and Business, University of Catania

W4 - 3 The potential of energy from biomass in Sicily. Agata Matarazzo, Carlo Ingrao, Maria Teresa Clasadonte - Department of Economics and Business, University of Catania

W4 - 4 An international network for developing research, technological transfer and dissemination on treatment and upgrading of Mediterranean agro-industrial wastes and effluents. Maurizio Petruccioli, Francesca Santori - Association of Mediterranean Agro-industrial Wastes (IAMAW), c/o ISAFoM-CNR – Perugia (Italy) - Department for Innovation in Biological, Agrofood and Forest systems (DIFAB), University of Tuscia, ISRIM

W4 - 5 Monitorization of compost biodegradation by means of non-invasive non-destructive nuclear magnetic resonance techniques. Alessandra Bonoli, Villiam Bortolotti, Paolo Macini, Marianna Vannini - CIRI Energy and Environment

- W4 - 6** Anaerobic digestion of potato by-products on a pilot-scale plant under thermophilic conditions. Agata Pistis, Carla Asquer, Efsio Antonio Scano
- W4 - 7** Ethanol from fruit waste, barley straw and fibre sorghum. Lorenzo Capecchi, Lorenzo Nissen, Marco Grigatti, Paola Mattarelli, Lorenzo Barbanti - Department of Agricultural Science (DipSA) - University of Bologna
- W4 - 8** Characterisation of Fruit and Vegetable Wastes as a single substrate for anaerobic digestion. Carla Asquer, Agata Pistis, EfsioAntonio Scano
- W4 - 9** Dedicated crops for anaerobic digestion. Giuseppe Di Girolamo, Marco Grigatti, Lorenzo Bertin, Claudio Ciavatta, Lorenzo Barbanti - Department of Agricultural Science (DipSA) - University of Bologna
Department of Civil, Chemical, Environmental and Materials Engineering (DICAM) - University of Bologna
- W4 - 10** A detailed monitoring of an anaerobic digestion plant in Northern Italy. J. Bacenetti, M. Negri, A. Cantore, P. Cantarella, M. Fiala - Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy, University of Milan
- W4 - 11** Production of polyhydroxyalkanoates by employing olive mill wastewater and a pure culture of *Cupriavidus necator*. Gouveia, A. Martinez, Alberto Scoma, Stefano Rebecchi, Lorenzo Bertin, Gerhart Braunegg, Fabio Fava - DICAM, University of Bologna, Institute of Biotechnology & Biochemical Engineering, Technological University of Graz
- W4 - 12** The selection of *Arundo donax* clones as feedstock for anaerobic digestion plants. Mario A. Rosado, Danielle Tribe - Sustainable Technologies SL, Genetic Lab S.R.L.
- W4 - 13** Alternative biomass crops and crop residues for the production of CHB: the effect of moderately intense alkaline treatment. Giuseppe Di Girolamo, Lorenzo Barbanti Claudio Ciavatta, Marco Grigatti, Lorenzo Bertin: Department of Civil, Chemical, Environmental and Materials Engineering (DICAM)
Department of Agricultural Sciences (DipSA)
- W4 - 14** Extraction of natural antioxidants from waste grape marc. Francesco Lanuzza, Fabio Mondello, Giuseppe Micali, Enza Maria Galati and Maria Marcella Tripodo – Department of Economic, Business and Environmental Science and Quantitative Methodologies, Messina University, Department of Pharmaceutical Sciences and Health Products, Messina University, Department of Chemical Science, Messina University.
- W4 - 15** Optimization of biogas production plants. A support tool for the decisions for an optimum digester infeed and maximization of the final profit. Daniele Vigo, Chiara Bordin, Federica Platania
- W4 - 16** Production of Volatile Fatty acids from cheese whey with immobilized cells. Joana M. B. Domingos, Gonzalo A. Martinez, Alberto Scoma, Lorenzo Bertin, Maria A.M. Reis, Fabio Fava - DICAM, University of Bologna, REQUIMTE/CQFB, Chemistry Dpt., FCT, Universidade Nova de Lisboa

Thursday 7th November 2013 4:00 - 6:00 pm Diotallevi Room 2 South Foyer
Proximity composting

Organized by **Ecomondo CTS and ENEA UTTAMB**

The possibility of processing organic scrap at the production site is becoming an important element in the set-up of integrated waste management systems. This possibility can be part of prevention (auto-composting) or in a recycling context, with micro plants at the service of numerous producers. In certain situations, on-site treatment offers possible economic savings. Proximity composting is also known as local or on-site composting, as well as collective composting, community composting and neighbourhood composting. Proximity composting can be carried out with electromechanical machines. These are small plants used to accelerate the organic waste composting process. This event intends providing an updated overview of the situation, following the busy 2012 event, from the point of view of technical, economic and regulation aspects.

Session Chair

Fabio Musmeci - ENEA

Program

4:00 pm - Introduction and short report

4:20 - 4:40 pm - The international situation

Roberto Cavallo - President, E.R.I.C.A.

4:40 - 5:00 pm - The Achab experience in various situations

Paolo Silingardi – Administrator, Achab Comunica

5:00 - 5:20 pm - *Exploitation of the organic fraction for small islands*

Pier Giorgio Landolfo – ENEA

5:20 - 5:40 pm – *The first experiences in l'Aquila*

Leopoldo D'Amico – ASM SpA

5:40 - 6:00 pm - *Federambiente's point of view*
Gianluca Cencia – Federambiente

6:00 pm - Discussion and end of proceedings

WE PROMOTE THE POSSIBILITY OF PUBLICATION FOR ALL SPEAKERS'.

IMPORTANT AND URGENT: Speakers at every one of the conferences in the following program have the possibility of publishing an article on their speech. It can be a 5/6 page article in Italian or English to be included on the DVD of the Ecomondo proceedings (published by Maggioli Editore) or in English in the peer-reviewed international magazine *Environmental Engineering Management Journal*.

Those interested in doing so must prepare the manuscript according to the Authors' Instructions available on the Web site: http://www.ecomondo.com/appuntamenti_eventi/call_for_papers.asp and send it to Dr. Grazia Totaro (grazia.totaro@unibo.it) and "sem.ecomondo@riminifiera.it" within and no later than the dates indicated at the beginning of September 2013.

Wednesday 6th November 9:00 am - 5:00 pm – Oroblu Room hall D3

Test runs of wastewater treatment plants

Coordinated by the University of Brescia "**Purification Plant Management**" Work Group

The test run of a new (wastewater treatment) plant of public interest should always be routine procedure, as a guarantee for users (as well as those financing the work), Management and Control bodies (ARPA, ASL), the authorities that allocate the funds (Regions, AATO ...) and the construction companies themselves. In fact, there is only one case in Italy, to be found in the Veneto Region, in which specific regulations foresee that the granting of authorization to operate a new purification plants depends on the favourable outcome of a test run. However, on one hand it is clear that the aim of a test run (to be carried out along with an administrative one) is to check that under nominal running conditions a specific plant (or sector) guarantees the project's performance in terms of pollutant removal, energy consumption and reagents, on the other, the regulations requiring its application do not state the procedure to be adopted to carry it out. Moreover, it is also obvious that a test run requires operating checks to be carried out, which in the past have represented one of the most qualifying and innovative aspects of the technical culture of wastewater treatment plant managers. In the Work Group's activity in recent years, the topic of operating checks has been taken up and widened, with the precise intention of extending its field of application to test runs of treatment plants. The test methods proposed have been gathered in a Manual, which contains the executive procedure of 30 operating checks. This Study Day will feature presentations, with practical examples, of the procedure proposed by the Work Group for carrying out a test run of a purification plant or a potable water treatment plant. The day also includes two round tables, during which the work carried out and the procedure proposed will be submitted for consideration by those who, in various roles, could be involved in the application of test run procedure.

Program

9:00 am - Registration of Attendees
9:20 am - Welcome addresses
9:30 am - Introduction to the Study Day
Carlo Collivignarelli

SESSION I: Procedure for checking the functionality of purification plants

9:45 am - Intensive monitoring
Roberta Pedrazzani
10:00 am - Mass balances, performance and functionality indices
Alessandro Abbà
10:15 am - Establishing a plant's effective potential

Giorgio Bertanza
10:30 am - Further experimental operating checks on the wastewater line
Maria Cristina Collivignarelli
10:45 am - Further experimental operating checks on the sludge line
Matteo Papa

SESSION II: Procedure for operating checks on potable water treatment plants

11:15 am - Tests on granular filtration and clariflocculation
Sabrina Sorlini
11:30 am - Tests on activated carbon and oxidation/disinfection
Francesca Gialdini
11:45 am - **ROUND TABLE** The utility of functional tests in plant control.
Participants will include representatives of management bodies, ARPA, ASL, Federutility

1:00 pm - LUNCH BREAK

SESSION III: Test run procedure

2:00 pm - Regulations on tests
Vincenzo Riganti
2:15 pm – Proposal for purification plant test run procedure
Giorgio Bertanza
2:30 pm - The case of the plant in Sant'Antonino Ticino (Varese)
Antonio Caniello
2:45 pm - Proposal for potable water treatment plant test run procedure
Sabrina Sorlini
3:00 pm - The case of the Cremona plants
Andrea Guerreschi
3:00 pm - **ROUND TABLE** The need for regulations on test runs for wastewater treatment plants
Participants: representatives of Regions, Provinces, Manufacturing/Construction Companies, Professional Associations, Ministry, Federutility
5:00 pm - End of proceedings

Thursday 7th November 2013 - 10:00 am - 1:30 pm - Oroblu Room Hall D3

Water management during extreme events and sudden contamination

Organized by **CNR-IRSA, Civil Defence Department, Ecomondo CTS**

Call for papers

Climatic changes frequently result in extreme events (droughts and floods) directly connected with the availability of water and management of water-related services. Methods for monitoring the availability of water resources are therefore very important, for the prediction of situations of serious shortage and for assessment of the spread of pollutants and thus the vulnerability of water supply infrastructures, which are the most direct targets during extreme events, or due to the effect of sudden unexpected contamination. The phenomena of flooding of purification plants located in the vicinity of bodies of water are not rare, and result in the consequent emptying of the tanks and irreversible damage to the electrical controls/panels. This conference intends comparing the experiences and ideas of utilities, companies and the research world to suggest solutions, including those of an innovative nature, to very important problems with possible effects on the green economy.

Session Chairs

Silvano Meroi – Director, Office II Hydrogeological and Anthropic Risks of the Department of Civil Defence, Presidency of the Council of Ministers
Michele Vurro - Research Manager, CNR Water Research Institute

Program

10:00 am - Introduction by the Chairs and brief report on the poster presentations
10:10 am - Civil Defence Activities for water emergencies
Silvano Meroi [Department of Civil Defence (Rome)]
10:30 am - Climatic changes and water resources – Scenarios at world and national level
Vincenzo Levizzani, CNR - Institute of Atmospheric Sciences and Climate (Bologna)

Ivan Portoghese, CNR Water Research Institute (Bari)
 10:50 am - Hydrogeological protection following extreme events
 Fausto Guzzetti, Tommaso Moramarco, CNR - Research Institute for Hydrogeological Protection (Perugia)
 11:10 am - Earthquakes and water infrastructures
 Renato Drusiani, Elena Mauro, Federutility (Rome)
 11:30 am - An integrated water service manager's experience in the field following the May 2012 earthquake in Emilia
 Claudio Anzalone, Davide De Battisti, Hera, AIMAG (multiutility)
 11:50 am - Early-warning systems for emergencies
 Elisabetta Preziosi, Emanuele Romano, Stefano Polesello, Water Research Institute – National Research Council – Monterotondo (Rome) and Brugherio (Milan) – Italy.
 12:10 pm - DSS for risk management for infrastructures providing drinking water in the case of calamitous FSevents
 A. Pagano, M. Vurro, R. Giordano, I. Portoghese (CNR-IRSA Bari), U. Fratino, F. Berardi. (Bari Polytechnic)
 A. Duro, F. Campopiano (Department of Civil Defence), G. Fiori, G. Vitucci (Acquedotto Pugliese S.p.A.)
 12:25 pm - Passive systems for protection against flooding
 Giuliano Mortola, Renzo Castello – Experts
 12:40 pm - Bologna - resilient city: the BLUE AP project for the Plan for Adaptation to climatic changes
 Chiara Caranti, Giovanni Fini (Municipality of Bologna, Environment and Energy Sector)
 12:55 pm - Numerical modelling of the sewer system of Rimini: CSOs reduction on the Adriatic Sea
 A. Casadio*, S.S. Cipolla**, M. Maglionico**, P. Martinini* * Hera Spa Rimini, ** DICAM – University of Bologna
1:10 pm - Discussion and end of proceedings

Thursday 7th November 2013 - 2:30 - 6:00 pm - Oroblu Room Hall D3

Rates, regulations, the role of public and private bodies

Organized by the **INCA, Italian Hydraulic Engineering Association, Ecomondo CTS**

Call for papers

Aspects of the quality of the integrated water service provided to the public and relative environmental performance will be discussed and compared. Costs, rates, regulation and control often seem unrelated to the application of criteria connected with environmental performance. The analysis of the rate system of the water supply will consider financing mechanisms, but also the series of incentives that the rates transmit to corporate behaviour in the logic of exceeding a fixed quota of remuneration on invested capital. During the day, invited general speeches will alternate, regarding the rating method, the state of our infrastructures, objectives for upgrading structures and methods able to be used to achieve them with the participation of experts from the Authority for electricity, gas and water supply services, the research world and the manufacturing sector.

Session Chairs

Federico Testa - Chairman, UTILITATIS (research institute)

Franco Cecchi - Chairman INCA, Ecomondo CTS member

Program

2:30 pm - Introduction by the Chairs and brief report on the poster presentations

2:45 pm - Water Authority and regulation

Alberto GROSSI – Member, Italian Regulatory Authority for Electricity and Gas

3:00 pm - Rate method

Lorenzo Bardelli - Italian Regulatory Authority for Electricity and Gas

3:15 pm - Situation of the Italian infrastructure and requirements

Enrico Rolle, Technical Secretary, Ministry for the Environment

3:30 pm - Financing the infrastructures

Giancarlo Corò, University of Venice

3:45 pm - Environmental Decision Support Systems (EDSS): a new paradigm to support the planning of investments for the Integrated Water Service?

Francesco Fatone, University of Verona

4:00 pm - Rates, Taxes, Transfers: the new approach to the European water industry. What about Italy?

Roberto Zocchi, Chair of Commission III "Legislation and Economics of EUREAU"

4:15 pm - What does the future hold for ATOs in the new regulatory context?

Luciano Baggiani*, ANEA

4:30 pm - An open environmental question: the management of rainwater. Rates for users or a tax?

Alessandro Paoletti, Milan Polytechnic

4:45 pm - Regulations for winery wastewater in Valpolicella

Luciano Franchini – Technical Manager, AATO Veronese

5:00 pm - Water Utilities and the Promotion of Sustainable Water Use: an International Insight

Giulia Romano, Nicola Salvati, Andrea Guerrini, Martina Martini, University of Pisa, University of Verona

5:15 pm - Discussion and end of proceedings

*TBC

Thursday 7th November 2013 2:00 - 6:00 pm Diotallevi Room 1 South Foyer

Means for assessing processes' sustainability. Carbon&Water Footprint, LCA, MFA, Multi-criteria Analysis, Social Life Cycle Assessment, Life Cycle Costing

Organized by **Ecomondo CTS, Interdepartmental Center for Industrial Research on Energy and Environment - University of Bologna, IRSA-CNR, INCA**

Call for papers

In the choice of alternative techniques for wastewater purification, contaminated site remediation and waste treatment, the use of means for assessing processes' potential environmental impact is very useful. In recent years, many different approaches have been proposed and discussed in depth in order to establish the effectiveness of the various processes, from the point of view of quantity, not only quality, and the most important consequences on the various environmental sectors. What seems interesting is on one hand the common feature of these methods, which are based on the definition of flows of matter and energy and of the effects produced on the environment during the entire life cycle of the systems analyzed, and on the other their versatility and the possibility of adapting them to suit the various application contexts. The session's proceedings will therefore be focussed on the application of these instruments to various case studies, with the aim of choosing solutions with the lowest environmental impact.

Session Chairs

Fabrizio Passarini - University of Bologna

David Bolzonella - University of Verona

Program

2:00 pm - Introduction by the Chairs and a short report on the poster presentations of Sessions I and II

SESSION I: Water & Carbon footprint: new approaches to Integrated Water Services and their infrastructures

2:20 - 2:35 pm - Luca Antonozzi, Alessandra Bonoli, Sara Zanni: "Life Cycle Assessment (LCA) as a means of comparison between active and passive remediation technologies for waste water and contaminated soil"

2:35 - 2:50 pm - Giuseppe De Angelis, Roberto De Rosa, Anna Giuliani, Salvatore Guadagnuolo, Luca Pucci, Sergio Ulgiati: "LCA of a residential wastewater purification plant "

2:50 - 3:05 pm - Salvatore Plano, M. Maglionico, F. Masi: "Novel methods for lowering Energy and Carbon footprint of Wastewater Treatment Plants whilst respecting discharge limits"

3:05 - 3:20 pm - A. Bonoli, A. Conte, M. Maglionico, I. Stojkov: "Green technologies for water management in urban areas"

3:20 - 3:35 pm - Paolo Beretta, Saint-Gobain PAM: "Respect of sustainable development for water distribution networks and sewer connections: the BLUTOP and TAG systems by Saint-Gobain PAM"

SESSION II: assessment of processes' sustainability: LCA, MFA

3:35 - 3:50 pm - Gianluca Santi, Paola Cossettini, Federico Balzan, eAmbiente S.r.l. "Quantification, reduction and compensation of the emission of greenhouse gases in the Life+ CarboMark project and creation of a local market for trading CO₂ credits"

3:50 - 4:05 pm - Laura Valli, Stefano Pignedoli, Claudio Fabbri: "Does anaerobic digestion reduce the carbon footprint of agrozootechnical production?"

4:05 - 4:20 pm - Simone Pedrazzini, Monica Bianchi, Paolo Epigrafi, Sebastien Humbert: "Communication of LCA results in the semiconductor business-to-business context: user-friendly web-based tool for the case of MEMS"

4:20 - 4:35 pm - Luca Ciacci, Fabrizio Passarini, Ivano Vassura, Luciano Morselli: "The evolution through time of CO₂ emissions associated with Italian aluminium by means of MFA and LCA"

4:35 - 4:50 pm - Olivieri Germana, Francesca Falconi, Umberto Testoni, Paolo Marani: "The LCA (Life Cycle Analysis) of rigid compact polyurethane bodywork: from production to re-use"
4:50 - 5:05 pm - Luca Ruini, Luca Petruccelli, Stefano Rossi, Paola Borla: "Designing sustainable Barilla packaging and integration with the EPD system"
5:05 - 5:20 pm - Marco Soverini: "The contribution of accountants to the growth of enterprises and the development of the economy by means of analysis, accounting and environmental communication services"

5:20 - 5:40 pm - **Discussion and end of proceedings**

POSTER PRESENTATIONS

03 - 1 Massimo Monteleone: "Carbon Footprint" of the agrobiogas chain via LCA for correct re-use of digestate in agriculture"

03 - 2 Aldo Iacomelli, Giuseppe Molinaro, Daniele Villosesi, Luciano Natali, Emanuela Bosica: "The analysis of the carbon footprint of frozen vegetable products"

03 - 3 Daniele Cespi, Fabrizio Passarini, Esmeralda Neri, Ivano Vassura, Luca Ciacci, Fabrizio Cavani: "Analysis of the life cycle of industrial chemical processes: application to the synthesis of acrylonitrile by means of the reaction of ammonoxidation"

03 - 4 Monica Riva: "EPD and LCA critical review. Experiences of application, certification, communication"

03 - 5 Vittoria Bandini, Serena Righi, Alessandro Buscaroli, Diego Marazza, Cristian Torri: "Biorefining of high ligno-cellulosic waste biomass via pyrolysis coupled with anaerobic digestion. An LCA study."

03 - 6 Antonella Lomoro, Massimo Guido, Antonella Zini, Angelo Parente (Eco-logica Srl; CNR-ISPA): "Comparative life cycle analysis for the sustainable management of washed-up posidonia"

03 - 7 Olimpia Martucci: "Water Footprint of a 'water intensive' food product: analysis of the indicators and assessment of the impact"

03 - 8 Agata Matarazzo, Carlo Ingraio, Maria Teresa Clasadonte: "Multi-criteria Decision Analysis Models in Life Cycle Impact Assessment of the Sicilian peach cultivation field"

03 - 9 Monica Nicoletti, Fabrizio Passarini, Elena Bernardi, Luciano Morselli, Alessandra Bonoli, Francesca Cappellaro, Marianna Vannini: "Planning an assessment study of the environmental impact of university structures. Case study: Rimini Campus (University of Bologna)"

03 - 10 Alessandra Bonoli, Francesca Cappellaro: "Environmental assessment of introducing a water fountain within San Leo town"

03 - 11 Luca Pucci, Giuseppe De Angelis, Sergio Ulgiati: "Use of LCA as a support in the planning of an upgrade on the sludge line treatment of a civil wastewater purification plant"

03 - 12 Duccio Brunelli, BBA-Architetti & Partners Srl

EcoValutazione®: Life Cycle approach to eco-sustainable set-ups for the scientific measurement of environmental performance and the mark of eco-sustainability

03 - 13 Petra Scanferla, Consorzio Venezia Ricerche, Marghera-Venice

The analysis of the water footprint of the Veneto region's crops: a comparison between the years 2001 and 2011

Friday 8th November 2013 10:00 am - 1:00 pm Oroblu Room Hall D3

The effect of micropollutants on ecosystems and man's health

Organized by **Italy's Superior Health Institute, CNR, Ecomondo CTS**

Call for papers

The relationships between the environment and health are well known, thanks to numerous studies, which have enabled to acquire important knowledge, and to more than twenty years of discussions on the issue, thanks to Rome's "European Centre for Environment and Health" of the World Health Organization. This knowledge was used to prepare updated modern regulations, aimed at protecting people's health against dangerous exposure, in a context of sustainable development. In the water sector, there is increasing worry for the possible effect of priority substances on the endocrine system, to the point that urban wastewater and its discharge in surface waters can nowadays represent a greater problem than many industrial discharges. This conference will compare the positions of the relative institutional bodies and those operating in the sector who have the responsibility of demanding fulfilment of the obligations set by water framework directive 2000/60. Some contributions by the SETAC (Society of Environmental Toxicology and Chemistry) will discuss case studies on sustainable management of ecosystems.

Session Chair

Loredana Musmeci - Superior Health Institute

Claudio Anzalone - Hera, Forli

Program

10:00 am - Introduction by the Chairs and brief report on the poster presentations

10:10 am - Assessment, management and communication on risk in the context of recent drinking water emergencies in Italy

Luca Lucentini (Superior Health Institute – Rome)

10:30 am - Assessment of risks to health and the environment connected with the presence of perfluorinated compounds in water

Stefano Polesello, L. Marziali, M. Rusconi, F. Stefani, S. Valsecchi and R. Pagnotta (CNR- IRSA Brugherio – Milan)

10:50 am - The need for a national guideline for the re-use of wastewater for irrigation in the light of the new plan for safeguarding European water resources

Eleonora Beccaloni¹, Mario Carere¹, Luca Lucentini¹, Giorgio Pineschi² (¹ISS – Rome, ²Ministry for the Environment & Land and Sea Protection)

11:10 am - The influence of contamination of bodies of water on ecosystem services

Anna Barra Caracciolo (CNR- IRSA, Montelibretti – Rome)

11:30 am - The road to sustainable wastewater management: the Venice model as an example of multidiscipline integration

Cristina Nasci (Thetis SpA, Venice).

11:45 am - Emerging contaminants in water intended for drinking: monitoring carried out in the HERA area

Claudio Anzalone (HERA Forli)

12 noon - Micropollutants and purification of civil wastewater: the Swiss approach

P. Foa, U. Ballabio* (TBF + Partner AG, Consulting Engineers, Strada Regina 70, 6982 Agno, Switzerland)

12.15 pm - Environmental Quality Criteria for the water in animal food producing systems: a matter of food safety and food security

Francesco Paolo Serpe¹, Mauro Esposito¹, Cecilia Testa², Stefania Cavallo³, Eugenio Chiaravalle⁴, Maria Cristina Manca⁵ and Gianfranco Brambilla^{6,1} (Istituto Zooprofilattico Sperimentale del Mezzogiorno, Portici (Naples); ²Istituto Zooprofilattico Sperimentale della Sardegna, Sassari; ³Regional Observatory for Food Safety, Portici (Naples); ⁴Istituto Zooprofilattico Sperimentale di Puglia e Basilicata, Foggia; ⁵Campania Regional Agency for Environmental Protection, Naples; [Superior Health Institute](#), Rome. (Istituto Zooprofilattico Sperimentale is an institute carrying out prevention, control and research activity in animal health and welfare, food safety and environmental protection)

12:30 pm - The Bifidal Products Regulation BPR 528/2012 assessment of combination effects and endocrine disruptor

Angela Sacchi, Ana Paya Perez (European Commission - Joint Research Centre, Institute for Health and Consumer Protection, ISPRA (Varese, Italy)

12:45 pm - The possible role of endocrine disruptors in causing illnesses that alter a population's state of health: an analysis by ISDE-FVG (International Society of Doctors for the Environment - Friuli Venezia Giulia branch)

Dario Bossi, Mariano CherubinI ISDE-FVG

1:00 pm - Environmental monitoring of an area of disposal in the sea of material dredged from the port of Ancona (Adriatic Sea)

Alessio Gomiero¹, A. M. de Biasi², E. Punzo¹, A. Santelli¹, P. Strafella¹, A. Spagnolo¹, G. Fabi¹ (¹CNR – Institute of Marine Sciences, ² Interuniversity Centre of Biology Marine and Applied Ecology (CIBM), Leghorn, Italy)

1:15 pm - Discussion and end of proceedings

POSTER PRESENTATIONS

O4 - 1 Structure of the microbial communities and their variation in contaminated ecosystems

Martina Di Lenola, Anna Barra Caracciolo, Francesca Falconi, Gian Luigi Garbini, Paola Grenni – Water Research Institute (IRSA-CNR)

O4 - 2 Integrated approach to the analysis of ecosystems at environmental risk: the case of the Ginestreto landfill (Sogliano al Rubicone)

Roberto Mazzeo¹, Francesco Nannoni², Giuseppe Protano², Riccardo Santolini¹ - ¹ Department of Earth, Life and Environmental Sciences (DiSTeVA), “Carlo Bo” University of Urbino, Italy ³ Department of Environment, Earth and Physical Sciences, University of Siena, Italy.

O4 - 3 The activities of the “Chemical Monitoring” European work group: objectives achieved and future development

Mario Carere*, Stefano Polesello**, Maria Belli***, Chiara Maggi***, Fiorella Aste**** - *Superior Health Institute, Department of Environment and Primary Prevention **IRSA-CNR***ISPRA****Ministry for the Environment and Land & Sea Protection

O4 - 4 Assessment of the effects induced by ocean's acidification on the benthonic model E. Crassus micro organism and on cloroficea D. tertiocteta algae

A. Gomiero 1,2, A. Dagnino1, S. Sforzini1, G. Fabi2, A Viarengo1 – 1 Department of Science and Technological Innovation – “A. Avogadro” University of Eastern Piedmont. 2CNR – Institute of Marine Sciences

O4 - 5 Assessment of the systemic and cutaneous absorption of chemical preservatives in domestic animals due to indoor pollution.

Andrea Sergianpietri Cristiano Pedersini - (International Society of Doctors for the Environment (ISDE) - Friuli Venezia Giulia branch

Friday 8th November 2013 - 2:00 - 6:00 pm – Oroblu Room Hall D3

Round table: Tender mechanism and qualification of enterprises in the water resource protection and management sector

Organized by **Ecomondo CTS along with the Ministry of Infrastructure, Ministry of Economic Development and the Ministry for the Environment**

In the public works sector, the Albo Nazionale dei Costruttori (Italian national register of constructors) listed those with the necessary professional requisites for works with a value of over 75 million liras (for lower sums, it was sufficient to be registered with the chamber of commerce). Following the moralistic tendency regarding the “*mani pulite*” corruption inquiries in the nineties, in January 2000, DPR 25 N° 34 was issued, containing the institution of the qualification system for those carrying out public works, which enacted Article 8 of Law N° 109 of 11th February 1994. Executors must be qualified considering that for sums of less than €150,000 it is necessary to be able to demonstrate having carried out works similar to those involved in the tender and for works for a higher sum it is necessary to have an SOA certificate issued by special certifying bodies. } The declaration is issued according to the nature of the works and the relative sums. It seems time for a revision of this qualification system, adopted in the regulations on tenders (DPR 207/2010), considering the complexities of many works for systems intended for the purification of wastewater, for the realization of which a generic qualification for works for conventional (OS 22) potable water treatment/purification works seems no longer sufficient. This round table therefore intends comparing the requirements of the manufacturing world and contracting administrations' obligations with the common aim of ensuring that the works carried out represent the state of the art in the sector's techniques.

Participants: Maurizio Pernice (Ministry for the Environment and Land & Sea Protection) and representatives of the Ministry of Infrastructure, Ministry of Economic Development, the authority for the supervision of public contracts for works, a representative of Confindustria/ANIMA, a representative of a multi-utility, a representative of the SOA certifying body and Pierluigi Gianforte (expert in the sector).



media partner



ECOMONDO RECLAIM EXPO

WE PROMOTE THE POSSIBILITY OF PUBLICATION FOR ALL SPEAKERS’.

IMPORTANT AND URGENT: Speakers at every one of the conferences in the following program have the possibility of publishing an article on their speech. It can be a 5/6 page article in Italian or English to be included on the DVD of the Ecomondo proceedings (published by Maggioli Editore) or in English in the peer-reviewed international magazine *Environmental Engineering Management Journal*.

Those interested in doing so must prepare the manuscript according to the Authors’ Instructions available on the Web site: http://www.ecomondo.com/appuntamenti_eventi/call_for_papers.asp and send it to Dr. Grazia Totaro (grazia.totaro@unibo.it) and "sem.ecomondo@riminifiera.it" within and no later than the dates indicated at the beginning of September 2013.

Thursday 7th and Friday 8th November 2013 Reclaim Expo Room Hall C1 Reclaim Expo 2013

Organized by **Ecomondo CTS, European Federation of Biotechnology, SusChem Italy, Sustainable Development Foundation**

Call for papers

As has become an established tradition since the 2008 edition, ECOMONDO will once again host RECLAIM EXPO, the Italian exhibition on the reclamation/remediation of contaminated sites, which will continue to be the reference point for considerations on experiences under way at national and international level, involving all the subjects involved, from the system to institution (Ministries, Regions, Institutions, National and Regional Scientific Agencies) to the network of enterprises, which in turn includes the “pollutant” subjects, the companies working in the sector and potential investors for the development of new economic activities. The general reference overview of these considerations will be the clear evidence of how sustainable management of “remediation” can and must make an important contribution to the development of a “green economy”, where remediation not only enables to reclaim important portions of the country from an environmental point of view, but also to recover their full economic use. Since these areas are currently often under-used but to a large extent still feature infrastructures, their full re-conversion to new “green economy” activities will allow them to be managed in a fully eco-compatible manner, at the same time safeguarding equivalent portions of land of higher environmental quality. It is also already obvious how, for these objectives to be achieved, the convergence of all the elements that contribute to defining the remediation strategy of each contaminated site is necessary, from the normative and procedural aspects to the technological and economic ones, aspects that have sometimes represented reciprocal obstacles. For this reason, RECLAIM EXPO 2013 will feature an open structure with thematic sessions during which all the topic will be covered together, without prior distinction between normative, technological and economic aspects. For each thematic session, an ample introductory speech is foreseen, which will be available on the Ecomondo Web site well in advance and will be used as a discussion platform on the various aspects, to which contributions by the various subjects and industry members will be added on the basis of a call for papers. During selection, preference will be given to those focussed on a “problem solving” point of view, particularly if they are focussed on case studies from enterprises and market players. As is also the tradition with RECLAIM EXPO, some speeches are foreseen on the most advanced experiences at international level.

Thursday 7th November

Session Chairs (Sessions 1 and 2):

Luca Montanarella (European Commission) and Alessandro Bratti Environment, Territory and Public Works Commission, Chamber of Deputies (TBC)

2:00 - 2:20 pm – Introduction by the Chairs.

SESSION I - Remediation in the context of the “green economy”: sustainability and re-conversion, program agreements and administrative and technical procedure.

2:20 - 2:40 pm - Introductory speech: Maurizio Pernice - General Manager MATTM

2:40 - 3:00 pm SIN of Venice - Porto Marghera - Program Agreement for the simplification of remediation procedure and Application Protocols. P. Campaci, Veneto Region

3:00 - 3:20 pm Title TBA N. Di Nuzzo – Lombardy Region

3:20 - 3:40 pm The remediation of a polluted industrial site as a connecting element between development and protection of natural areas P. Milano (1) M. Guido (1), A. Lomoro (1), V. Turturro (2) [(1) ECO-logica Srl, (2) Municipality of Giovinazzo (Bari)]

3:40 - 4:00 pm Engineering and an integrated approach to the management of remediation of complex productive networks M. Cutini, R. Ballesio, A. Bezzi, G. Delfino [SEQUAS]

4:00 - 4:30 pm Debate with the participation of the public

SESSION II - Assessment of hygiene-health risk and its validation: models and direct measures

4:30 - 4:50 pm - Introductory speech: Loredana Musmeci, Superior Health Institute, and Paolo Pittiglio, INAIL

4:50 - 5:10 pm Analysis of some chemical-physical parameters of pollutants useful for the application of health-environmental risk analysis” S. Berardi(1), A. Ledda (1), G. Grillo (2) [(1) INAIL, (2)]

5:10 - 5:30 pm Check of emissions due to soil gas in open and confined environments in contaminated sites S. Berardi(1), E. Bemporad(1), E. Beccaloni(2), F. Scaini(2), M. Greggio(3), G. Formenton (4) [(1) INAIL, (2) ISS, (3) AULSS 12 Veneziana, (4) ARPAV]

5:30 - 6:00 pm Debate with the participation of the public

Friday 8th November (morning)

Session Chair: Luciano Guerrieri, Assoport (session 3)

SESSION III - Sediments and surface water: the integration of reclaiming and protection

10:00 - 10:20 am - Introduction by the Chair and a short report on the poster presentations of Session III:

10:20 - 10:40 am - Introductory speech: Emanuele Zanotto, Ambiente Srl (TBC)

10:40 - 11:00 am - Invited speaker: Sustainable remediation from oil spills in marine environments, the experience from FP7 European Research Nicolas Kalogerakis, Technical University of Crete (TUC) (**simultaneous translation?**)

11:00 - 11:20 am - Integrated technologies for sediment treatment C. Sacconi (1). M. Pellegrini (1) A. Bianchini (1), D. Vanni(2) and G. Preda (2) [(1) University of Bologna (2) Trevi SpA]

11:20 - 11:40 am - Graphene Plus: reusable eco-innovative sorbent for oil spills clean-up and polluted water treatment A. Pola(1), G. Cesareo(1), G. Tartari (2) [(1)Directa Plus SpA, (2) IRSA-CNR]

11:40 am - 12 noon Impact of biogenic Pd nanoparticles on the microbial reductive dechlorination in a marine sediment of the Venice lagoon A. Nuzzo(1), B. Hosseinkhani (2), N. Boon (2), G. Zanaroli(1), F. Fava (1). [a]University of Bologna(DICAM),b) Gent University (LabMET)]

12.00 - 12.20 pm Innovative remediation processes for contaminated marine sediments due to dredging. C Annicchiarico, M. Buonocore, N. Cardellicchio, A. Di Leo, S. Giandomenico, L. Spada, CNR – Institute for Coastal Environment

12:20 - 12:50 pm Debate with the participation of the public

Poster Session:

RE - 1 Biostimulation of microbial reductive dechlorination of polychlorinated biphenyls in marine sediments of the Venice Lagoon. A. Nuzzo, Y. Andria, G. Zanaroli, F. Fava University of Bologna (DICAM),

RE - 2 Biodegradation of polychlorinated biphenyls in co-contaminated sediments: changes in metal partitioning R. Guerra (1), T. Combi (1), G. Zanaroli (2), A. Nuzzo (2), F. Fava (2) [(1) University of Bologna (CIRSA), (2) University of Bologna (DICAM)]

Session Chair (Sessions 4 and 5): Gian Pietro Beretta, University of Milan

Session IV: Soil, backfill, waste and work for implementation of safety measures

2:00 - 2:10 pm - Introduction by the Chair and a short report on the poster presentations of Sessions IV & V:

2:10 - 2:30 pm - Introductory speech: Luca Raffaelli - expert in soil and backfill, contaminated or not, for excavation or not: characterization and management of materials in remediated areas.

2:30 - 2:50 pm - The definitive project for the work for implementing permanent safety measures at the asbestos-contaminated ex-Fibronit site in Bari. C Tedesi and M. Beretta – ST&A Srl – Milan

2:50 - 3:10 pm - Emergency safety measures for a plant protection product factory site under sequestration involved in a fire. A. Lomoro(1), M. Guido (1) R. Sciacqua (1), Carlo Ronzino (2) [(1) Eco-logica srl, (2) Municipality of Adelfia, Bari].

3:10 - 3:30 pm - Drawing up the definitive project for implementing safety measures for the “Cascina Gazzera” site, a waste (acid mud) disposal site in the municipality of Cerro al Lambro (Milano) and Works Management activity.
C. Tedesi, S. Stoppa [ST&A Srl – Milan]

3:30 - 3:50 pm - Work for implementing safety measures of a contaminated site: removal of the main source and simultaneous study and localized reclamation of the water table by means of bioremediation with micro diffused oxygen. C. Ferruzzi [Greenholding]

3:50 - 4:10 pm - Debate with the participation of the public

SESSION V - Underground water: protection from hygiene/health risks and/or safeguarding resources

4:10 - 4:30 pm - Introductory speech: Mauro Majone, Sapienza University (Rome)

4:30 - 4:50 pm - Combined chemical-physical/biological processes for the removal of residual sources of DNAPL: from experimentation to the pilot scale M. Petrangeli Papini (1), M. Majone (1), M. Baric (1), L. Pierro (1), M.Sagliaschi (2), L. Alifano (2), E. Alesi (3), E. Bartsch (3) [(1) Rome Sapienza University, (2) (Fenice SpA), (3) IEG GmbH;

4:50 - 5.10 pm - Development of an attached-growth process for the bioremediation of trichloroethylene- and 1,1,2,2-tetrachloroethane-contaminated groundwater A. Rosato, D. Frascari, G. Bucchi, F. Doria, N. Tavanaie, R. Ciavarelli, D. Pinelli, S. Fraraccio, G. Zanaroli and F. Fava University of Bologna

5:10 - 5:30 pm - A new bioelectrochemical process without the addition of amendments for the on-site bioremediation of water tables contaminated by chlorinated solvents, R. Verdini (1), F. De Tora (1), M. Zeppilli (1), F. Aulenta (2), S. Rossetti (2), M. Majone (1) [(1) Rome Sapienza University, (2) IRSA-CNR]

5:30 - 6:00 pm - Debate with the participation of the public

GREEN PROCUREMENT

Friday 8th November 2013 - 10:00 am - 5:00 pm Noce Room Hall A6

Green public procurement

Organized by: **Ecomondo CTS, Ministry for the Environment and Land & Sea Protection - ERVET - Rete Cartesio**

In line with proposals at European level, in particular Communications on Sustainable Consumption and production [COM (2008) 397] and on GPP [COM (2008) 400], in 2008 the Ministries for the Environment, Economic Development and Economy & Finance adopted the Action Plan for environmental sustainability in procurement by the public administration (PAN GPP). Executing the GPP National Action Plan, with successive decrees, the Ministry for the Environment adopted the minimum environmental criteria (MEC) regarding products and services commonly procured by public administrations. The use of these criteria enables to achieve significant results in the reduction of pollutant emissions and efficient use of resources. This conference is organized in two sessions: morning and afternoon. The former, of a general nature, will host speeches on MEC regarding some strategic issues, such as those regarding the use of energy and the agri-food sector. Some experiences will also be presented regarding the utility sector and, lastly, the topic of social sustainability aspects in public tenders will be considered. The second session will host presentations of the principle GPP experiences and opportunities offered by e-commerce as a means for purchasing ecological products, also bearing in mind the entry into force of the regulations regarding the spending review, and the central purchasing bodies. The possible innovations that the proposals of the new COM (2011) 896 Directive will very probably bring in coming years in matters of public tenders will also be taken into consideration: contracting authorities will be asked to assess the economic costs of the supplies and services over their entire life cycle (life cycle costing), not only at the purchasing stage.

Session Chair

Riccardo Rifici

Environmental Certification and green public procurement Section of the DG Environmental Assessment of the Italian Ministry for the Environment

First session (morning): General issues

Program

10:00 am - Introduction by the Chair.

10:15 - 10:30 am Introduction: "Public procurement as an instrument of the policy for sustainable production and consumption (European policy, national policy, initiatives and experiences, work in progress)".

Riccardo Rifici, Manager, Environmental Certification and green public procurement Section of the DG Environmental Assessment of the Italian Ministry for the Environment

10:30 - 11:00 am - "The topic of energy consumption: MEC on energy services for buildings and public lighting apparatus".

Fausta Finzi, ENEA, collaborator of the green procurement work group of the Ministry for the Environment – Battistini, Hera SpA

11:00 - 11:20 am - "Confindustria's contribution to the definition of MEC. The case of building cleaning services"

Giuseppe Gherardelli – FISE (Federation of Service Companies)-Confindustria

11:20 - 11:40 am "Agriculture and sustainability: Application of MEC to collective food service/catering services".

Silvano Falocco, Ecosistemi srl

11:40 am - 12 noon - "How to consider the social aspects of public tenders"

Simone Ricotta, ARPA Toscana
12 - 12:45 pm Discussion

Second Session - Comparing regional experiences and the incidence of e-commerce on GPP

Session Chair

Enrico Cancila, Rete Cartesio

Program

2:00 - 2:15 pm - Public market and enterprises' competitiveness - Fabio Iraldo, IEFE Bocconi

2:15 - 3:00 pm – The strategic approach to GPP regional plans:

Emilia-Romagna Region – Patrizia Bianconi, Directorate, Environment and Defence of the Land and Coast,
Liguria Region

Sardinia Region - Gianluca Cocco, Service environmental sustainability, impact assessment, informative
environmental systems

3:00 - 3:45 pm - Central procurement bodies, e-commerce and cost analysis (LCC):

Intercenter-ER regional agency for the development of electronic markets - Alessandra Boni, DG Intercenter,
Emilia-Romagna Region

Lombardy Region ARCA (Regional Procurement Agency) (*)

3:45 - 4:00 pm - GPP and competition: opportunities and critical aspects for the organization and enterprise
system – Lidia Capparelli, PA Procurement Directorate CONSIP (*)

4:00 – 5:00 pm - Companies and contracting authorities face to face

5:00 pm - Conclusions

(*) invited



CONVERSION OF CHEMISTRY & SUSTAINABLE CHEMISTRY

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Those interested in doing so must prepare the manuscript according to the Authors' Instructions available on the Web site: http://www.ecomondo.com/appuntamenti_eventi/call_for_papers.asp and send it to Dr. Grazia Totaro (grazia.totaro@unibo.it) and "sem.ecomondo@riminifera.it" within and no later than the dates indicated at the beginning of September 2013.

Wednesday 6th November 2013 2:30-4:00 pm Diotallevi Room 1 South Foyer

Bioplastics: a Case Study of Bioeconomy in Italy

Organized by **Novamont, Green Chemistry Cluster, Ecomondo CTS**

The conference "Bioplastics: A case study of Bioeconomy in Italy" is the important conclusive event of a cycle of meetings aimed at promoting the book with the same title published by Kyoto Club in 2013.

The book, a preview presentation of which was held at European Parliament in Brussels in March for the most important national and European institutions, will illustrate Italy's experience in regulating the diffusion of disposable plastic bags, and by means of this show how Italy was a pioneer in establishing a strategy able to give a new boost to its innovation potential and develop the bioeconomy sector. By means of the presentation of the "case study" of compostable bioplastics, the conference intends showing that the efficiency of the resource is not only a strategic requirement for Europe, but also a real opportunity from an economic point of view, able to safeguard the environment and at the same time re-launch growth and create new employment opportunities. In Italy, the intensification through the years of investments and R&D activity in the bioplastics sector, along with the implementation of adequate environmental policies in key sectors such as source-segregated waste collection, has enabled to create a network of collaborations between the stakeholders of the entire cycle, from agriculture to waste management, and thus promote new development models. In this context, long-sighted "market pull" measures also came into play, encouraging the manufacture and use of biodegradable products from renewable raw materials, boosting the already important investments in innovative technologies and biorefineries and creating positive results for the entire society in terms of waste reduction, higher quality of the fractions collected, introduction of criteria of sustainability in the what the population decides to consume, lower environmental risks. Downstream of the conference, a voluntary pact will also be signed by the stakeholders involved, in various ways, in the cycle and the management of organic waste, confirming how this is nowadays unanimously considered as a resource in environmental, economic and social terms and as far as the cooperative commitment under way in Italy is concerned.

CHAIR: Ministry for the Environment and Land & Sea Protection

2:30 pm Speech by a representative of the Ministry for the Environment

2:45 pm Speech by a representative of the DG Research and Innovation of the European Commission

3:00 pm Speech by a representative of the DG Environment of the European Commission

3:15 pm Speech by a representative of the DG Enterprise and Industry of the European Commission

3:30 pm Speech by a representative of the French Ministry for Economic Development

3:45 pm Speech by a representative of the Association Chimie du Végétal

4:00 pm Francesco Ferrante (Vice-president Kyoto Club and ex Italian Senator)

4:15 pm Catia Bastioli (President, Kyoto Club)

4:30 pm Conclusions and signature of the voluntary pact

Thursday 7th November 2013 - 10:00 am - 1:00 pm – D1 Room Hall D1

1st Conference on Sustainable Chemistry

Organized by **Federchimica, SusChem Italy, Green Chemistry Cluster, Ecomondo CTS**

Sustainability is currently a topic of great interest. The chemical industry world is also heading for greater sustainability regarding both the products and processes that have a low impact on Safety, Health and the Environment, along the entire life cycle.

In fact, things often begin with an analysis of the pushes for legislation and the market requests that aim at development or at product and process improvement, but in many cases, even in this period of great crisis, companies launch research and innovation activities to improve and increase sustainability.

This event intends facing many aspects of sustainable chemistry, to enable to find points for consideration for collaboration, also with the world of public research, for innovative joint projects and to offer enterprises points for reflecting on the development of their activities as far as responsible product management is concerned.

Session Chair

Fulvio Uggeri - Bracco Imaging SpA

Program

10:00 am - Sustainable Chemistry – a concept as well as the standards
Cefic (TBC)

10:20 am - Sustainable Chemistry and the activities of Federchimica
Dania Della Giovanna (Federchimica)

10:35 am - Responsible product management
Giuseppe Abello (Federchimica)

10:50 am - Q & A session

11:05 am - Sustainability in pharma industries, last fad or true opportunity
Fulvio Uggeri (Bracco Imaging S.p.A.)

11:25 am - The sustainability of products in the binder dispersion industry
Marco Cerra (Vinavil S.p.A.)

11:45 am - Chemical Technical Solutions for a sustainable world
Dow Italia Srl (TBC)

12:05 pm - Reclaiming contaminated sites: examples of the application of pure oxygen for the removal of pollutants in groundwater

Giorgio Bissolotti (SIAD S.p.A.)

12:25 pm - Q & A session

12:45 pm - **Discussion and end of proceedings**

Thursday 7th November 2013 - 2:00 - 6:00 pm – D1 Room Hall D1

3rd Conference Biorefineries: an Italian reply to the challenges of the Green Economy

Organized by **MISE, MIUR, Green Chemistry Cluster, SusChem Italy, Federchimica, Ecomondo CTS**

The conference re-proposes the topic of biorefineries faced in previous years by means of the presentation of industrial case studies and creation of networks, which show how it is really possible to follow new paths for the chemical industry's development in Italy. Biorefineries form an industrial sector undergoing rapid technological evolution and the first examples of the step-up from the prototype and pilot project stage to industrial scale are being activated, aimed at increasingly larger production outputs.

In the light of the recent developments of important research and industrial innovation initiatives and the start-up of important initiatives of the European Commission, the intention is to present an insight on the Italian situation in the green chemistry sector presenting, alongside the agenda and prospects of the Italian bioeconomy, the experiences of the main players of the green chemistry industry in the various stages of the value chain of bio-based products.

Session Chairs

Andrea Bianchi - Ministry for Economic Development

Raffaele Liberali - Ministry of Education, University and Research

Program

2:00 - 2:20 pm - Bioeconomy prospects in Italy - Introduction by the Chairs

2:20 - 2:50 pm - Biobased economy and its opportunities for the Chemical Industry

Christian Patermann, State Government of North-Rhine Westphalia, Germany, & Former Director EU Commission

2:50 - 3:15 pm - The "Green Chemistry" Cluster

Chairman of the Cluster

3:15 - 3:40 pm - The chemical approach to bioeconomy opportunities

Daniele Ferrari, Versalis

3:40 - 4:05 pm - Bioeconomy in action: the Italian case study

Catia Bastioli, Novamont SpA

4:05 - 4:30 pm - Second generation bioethanol: a prospect of growth for the country

Guido Ghisolfi, Mossi & Ghisolfi SpA

4:30 - 4:55 pm - Green chemistry and environmental protection of the country

Stefano Ciafani, Legambiente

4:55 - 5:20 pm - Applications of biobased products to consumer goods and the biobased product market

Maura Latini COOP (TBC)

5:20 - 6:00 pm - **Discussion and end of proceedings**

WE PROMOTE THE POSSIBILITY OF PUBLICATION FOR ALL SPEAKERS'.

IMPORTANT AND URGENT: Speakers at every one of the conferences in the following program have the possibility of publishing an article on their speech. It can be a 5/6 page article in Italian or English to be included on the DVD of the Ecomondo proceedings (published by Maggioli Editore) or in English in the peer-reviewed international magazine *Environmental Engineering Management Journal*.

Those interested in doing so must prepare the manuscript according to the Authors' Instructions available on the Web site: http://www.ecomondo.com/appuntamenti_eventi/call_for_papers.asp and send it to Dr. Grazia Totaro (grazia.totaro@unibo.it) and "sem.ecomondo@riminifiera.it" within and no later than the dates indicated at the beginning of September 2013.

Thursday 7th November 2013 - 9:00 am - 6:00 pm – Air Room Hall D3

Odorous emissions: regulations, impact, control and technical solutions

Organized by **Ecomondo CTS, Italian Chemical Society, Division of Environmental Chemistry and Cultural Assets, ISPRA, AssoArpa, ISS**

Call for papers

Great attention is paid to the topic of monitoring, control and assessment of odour impact caused by the various industrial facilities in any given area, as is confirmed by the great feedback from public administrations, research bodies, companies and the public regarding opportunities for networking, such as seminars, workshops, etc... The setting up of a national technical board to draw up guidelines on this matter has brought into focus the state of the art regarding methods for monitoring, control and forecasting and the normative approach in an international and national context, particularly regarding jurisprudential guidelines implemented to settle disputes on this matter. The work of the technical board will continue with the assessment of the technical monitoring solutions, considered at the first stage to test their reliability in order to create the necessary consent in the community of institutional experts. This check will be carried out by means of testing activity on the various methods in the field. The proceedings of the odours session will thus be focussed on the issue of sampling protocols, monitoring technologies and the need for them to be appropriately integrated, without overlooking the aspect connected with the reduction and abatement of odour pollutants.

9:00 - 9:50 am - Opening of conference and introduction to the topic - Rosanna Laraia - ISPRA, Gianluigi de Gennaro - University of Bari

SESSION I: Modelling studies

Session Chairmen Luciano Morselli - Bologna University, Gaetano Settimo – Superior Health Institute

9:50 - 10:05 am - *The use of modelling in estimating odour impact*, Elisabetta Angelino - ARPA Lombardy

10:05 - 10:20 am - *Assessing odour impact in the industrial zone of Narni*, Laura Capelli - Milan Polytechnic

10:20 - 10:35 am - *Breeding farms subject to Integrated Environmental and odour Authorization: an approach to the problem*– LOD Udine

10:35 - 10:50 - *Prediction modelling for estimating odour impact throughout the country*, Angelo Riccio – "Parthenope" University of Naples

10:50 - 11:05 am - *Application of a Lagrangian particle model for the dispersion of odours to exceed the limits of Calpuff*, Alberto Pittarello - Osmotech Srl Pavia

11:05 - 11:20 am - *Data-driven dispersion models: an exploration under way*, Maurizio Favaron - University of Milan

11:20 - 11:30 am - Discussion on the session's speeches

11:30 - 11:45 am - Coffee break

SESSION II: The human nose in the field...

Session Chairs Fabrizio Passarini - University of Bologna, Magda Brattoli - University of Bari

11:45 am - 12 noon - *Odour assessment in the field according to VDI 3940: advantages and critical aspects*, Maurizio Benzo - Osmotech Srl Pavia

12 noon - 12:15 pm - *Odour impact assessment in the field: the plume method*, Lidia Eusebio - Milan Polytechnic

12:15 - 12:30 pm - *Advantages and limitations of a portable olfactometer for measuring odour concentration in the field*, Michele Benzo – Osmotech Srl Pavia

12:30 - 12:45 pm - *Synthetic indices of odour impact a social survey: a proposal*, Silvia Maltagliati - ARPA Toscana

12:45 - 1:00 pm - *A direct line with the population: systems for the digitizing reports*, Lucrezia de Gennaro, Lenviros Srl Bari

1:00 - 1:10 pm - Discussion on the session's speeches

1:10 - 2:30 pm - Lunch break

SESSION III: Application cases

Session Chairs: Pierluigi Barbieri – University of Trieste, Laura Capelli – Milan Polytechnic

2:30 - 2:45 pm - *The law on matters of troublesome odour emissions*, Michela Simongini – ARPA Toscana

2:45 - 3:00 pm - *Odour emissions from breeding farms*, Laura Valli - Centro Ricerche Produzioni Animali - C.R.P.A. SpA - Reggio Emilia

3:00 - 3:15 pm - *State of the art in odour emission monitoring carried out by ARPAB in Val d'Agri*, Bruno Bove - ARPA Basilicata

3:15 - 3:30 pm - *Olfactometric and sensor measures in proximity of industrial plants in the Province of Trieste*, Pierluigi Barbieri – University of Trieste

3:30 - 3:45 pm - *Mitigation of biogas emissions by means of the use of biofilter covers: study for the characterization of the filtering media with on-site laboratory tests*, Isabella Pecorini - University of Florence

3:45 - 4:00 pm - *The control of wastewater purification plant odours*, Tiziano Zarra - University of Salerno

4:00 - 4:10 pm - Discussion on the session's speeches

4:10 - 5:00 pm - Poster session - **Session Chair:** Maurizio Benzo - Osmotech srl

5:00 - 6:00 pm - Think tank: suggestions for the national technical board

POSTER PRESENTATION

A1 - 1 A novel approach for odour regulation based on “buffer zone” criterion Magda Brattoli, Gianluigi de Gennaro, Giorgio Assennato, Massimo Blonda, Roberto Giua

A1 - 2 Designing and realizing an instrument for dynamic olfactometry Sergio Cozzutto, Gianpiero Barbieri, Pierluigi Barbieri, Magda Brattoli, Gianluigi de Gennaro, Roberto Gaita, Gigi Cobelli, Lucrezia de Gennaro

A1 - 3 Electronic nose for continuous measurement of odour concentration in emissions: instrument development, training and application Licinia Dentoni, Lidia Eusebio, Laura Capelli, Selena Sironi, Massimiliano Il Grande, Andrea Nicola Rossi, Marco Remondini

A1 - 4 Application of complex methods for characterization and assessment of the odour measured round an industrial plant for crude oil treatment G. Anzilotta, G. Basile, B. Bove, O. D'Onofrio, A. Palma.

A1 - 5 Drawing up odour monitoring and control plans for premises subject to AIA: case study Silvia Rivilli, Nicola Pettarin, Alberto Tonino, Riccardo Snidar, Arianna Sgevano, Damiano Bernardi

A1 - 6 Assessment of the olfactory impact caused by a landfill in the Province of Taranto on the surrounding environment and exposed population. Valerio Rosito, Damiano Calabrò, Francesco Catucci, Salvatore Ficocelli, Roberto Giua, Maria Mantovan, Manuela Miceli, Angela Morabito, Maria Spartera, Annalisa Tanzarella.

Friday 8th November 2013 - 10:00 am - 1:30 pm – Air Room Hall D3

Air quality in indoor environments: Italian experiences, control and prevention

Organized by the **Superior Health Institute**

Call for papers

In recent years, attention has been focussed also in Italy on indoor air pollution and the results obtained are producing the scientific and technological basis that is contributing to the definition of air quality in indoor

environments. The interest in the new way of designing houses, working on the structural, organization and energy efficiency aspects, is definitely to be appreciated, but the phenomena that led to a worsening of the quality of indoor air have often been underestimated. The Seminar intends highlighting the problems existing in indoor environments and what is being done at normative and technical level to establish the parameters that contribute to the quality of air in indoor environments, analyzing the future prospects.

Session Chairs

Gaetano Settimo, Superior Health Institute
Gianluigi de Gennaro University of Bari

Program

10:00 - 10:10 am - Introduction by the Chairs.

10:10 - 10:25 am - Indoor air quality and kiddies' health.

Annamaria de Martino - DG Prevention, Ministry of Health

10:25 - 10:40 am - Safeguarding man's health: indoor environments and guide values bearing in mind the current national and community orientation.

Gaetano Settimo, Superior Health Institute.

10:40 - 10:55 - Hygienists' role in the prevention of risks connecting with living in Italy: current situation and prospects.

Daniela Dalessandro, University of Rome

10:55 - 11:10 am - The chemical industry's undertaking for the quality of indoor air.

Alessandra Pellegrini, Federchimica.

11:10 - 11:25 am - Energy saving in building and indoor pollution: cooperation and antagonism.

Silvia Brini, Arianna Lepore and Roberto Caselli, ISPRA (Institute for Environmental Protection and Research).

11:25 - 11:40 am - New instruments for the monitoring and control of air quality and comfort in indoor environments. The experience of the FP7 EU Cetieb project.

Gian Marco Revel, Marco Arnesano, Filippo Pietroni, Marches Polytechnic University, Jürgen Frick, Manuela Reichert, Materials Testing Institute, University of Stuttgart, Germany, Markus Krüger, TTI GmbH-TGU Smartmote, Germany, Katrin Schmitt, Jochen Huber, Fraunhofer Institute for Physical Measurement Techniques, Germany, Martin Ebermann, InfraTec GmbH, Germany, Luc Pockelé, R.E.D. Srl, Italy, Ariane Khanlou, Antonia Ekonomakou, S&B Industrial Minerals S.A., Greece, Johann Balau, SCHWENK Putztechnik GmbH & Co. KG, Germany, Carmine Pascale, Francesco De Falco, Consorzio TRE, Italy, Roberto Landò, Umberto Battista, STAM Srl, Italy, Jay Stuart Delap & Waller Ecoco Limited, Ireland.

11:40 - 11:55 am - Hygienic-health indicators of indoor wellness for project assessment: case studies.

Stefano Capolongo, Maddalena Buffoli, Department ABC, Milan Polytechnic, Alessandra Oppio, Department DASTU, Milan Polytechnic, Michele Barletta, Milan Local Health Board.

11:55 am - 12:30 pm - The emission of volatile organic compounds from construction materials and automotive components: the results of experiences carried out

Giombattista Traina Istituto Giordano S.p.A.

12:10 - 12:25 pm - Assessing the air quality in homes fitted with biomass-fuelled heating systems.

Annalisa Marzocca, Gianluigi de Gennaro, Paolo Rosario Dambruoso, Alessia Di Gilio, Valerio Di Palma, Maria Tutino, University of Bari.

12:25 - 12:40 pm - Use of electronic cigarettes and deodorants in indoor environments.

Werner Tirlir EcoResearch Bolzano, Gaetano Settimo, Superior Health Institute.

12:40 - 1:30 pm - Discussion on the speeches and brief report on the poster presentations

Session Posters:

A2 - 1 Leather production: indoor indicators for bating phase odour impact. Alice Dall'Ara ENEA UTTMATF Faenza

A2 - 2 The realization of a system for indoor air purification and deodorization: case study. Riccardo Snidar, Alan Tonon, Astrid Pellizzon, Labiotest Srl, Udine, Silvia Rivilli, LOD Srl, Udine, Annamaria Zoppini, Stefano Amalfitano, IRSA – CNR, Rome.

A2 - 3 Car commuters' personal exposure to ultrafine particles. Giorgio Cattani, Alessandro Di Menno di Bucchianico, Institute for Environmental Protection & Research-ISPRA, Marco Inglessis, Superior Health Institute.

A2 - 4 Outdoor/indoor particle infiltration factor in residential buildings and its relation with urban air quality. Alessandro Di Menno di Bucchianico, Giorgio Cattani, Institute for Environmental Protection & Research - ISPRA, Marco Inglessis, Superior Health Institute.

A2 - 5 Assessment of the sources of Ultrafine Particulate in residential indoor environments. Pasquale Avino, Maurizio Manigrasso, DIPIA (*Department of Production Plants and Anthropic Settlements*), INAIL Research sector, Rome

Friday 8th November 2013 - 2:00 - 5:30 pm – Air Room Hall D3

The status of knowledge in the light of accumulated experience: development models and control and prevention policies

Organized by the **Superior Health Institute**

Call for papers

A quarter of a century after the publication of the first WHO Air quality guidelines, 2013 has been proclaimed “European Year of Air”.

This conference intends providing an opportunity for meeting and networking on the knowledge acquired in recent years on the various issues of atmospheric pollution (control activities, monitoring techniques, special networks, monitoring networks in urban and industrial areas with specific pollution problems, etc.), trying to provide an overview of the experiences and highlighting the objective difficulties and critical points that emerged. The results of projects and research carried out through the years in various Italian regions will be of considerable interest.

The space dedicated to the discussion of the reports and the posters will be an important moment for participants to network on the researches’ different formats and methods.

Session Chairs

Giovanni Marsili, Superior Health Institute

Francesco Lombardi - Tor Vergata University Rome

Program

2:00 - 2:15 pm - Introduction by the Chairs

2:15 - 2:30 pm - The normative evolution on air quality and future prospects.

Fabio Romeo - Ministry for the Environment and Land & Sea Protection

2:30 - 2:45 pm - For a story of atmospheric pollution in Italy.

Mario Cirillo, Institute for Environmental Protection & Research-ISPRA.

2:00 - 3:00 pm - The evolution of the trend in the concentration of particulate material in Italy's Lombardy region.

Michele Giugliano, Milan Polytechnic DIAR - Environmental Engineering Dept

3:00 - 3:15 pm - From 2005 to 2012: the quality of the air in Apulia's urban areas.

Giorgio Assennato, Roberto Giua, Lorenzo Angiuli, Livia Trizio, ARPA Puglia, Gianluigi de Gennaro, Annamaria Demarinis Liotile, Paolo Rosario Dambruoso, Bari's Aldo Moro University.

3:15 - 3:30 pm - The role of fine and ultrafine fractions of PM in air quality assessment in a metropolitan area.

Pasquale Avino, Maurizio Manigrasso, DIPIA, INAIL Research sector, Rome

3:30 - 3:45 pm - Study of the sources of atmospheric pollution and the primary and secondary PM 2.5 components in the area around a new-generation thermal power station. Francesco Lollobrigida, Antonella Pannocchia, Fabio Pittarello, Annalisa Bruno,

ARPA Piedmont - Department of Turin, Roberta De Maria, Anna Maria Gaffodio, Valeria Garbero, Francesca Bissardella, Stefania Ghigo, ARPA Piedmont - Prediction System Department, Stefano Buratto, ARPA Piedmont - Area Funzionale Tecnica.

3:45 - 4:00 pm - Persistent organic pollutant (POP) levels emerging and not regulated in environment air.

Vittorio Esposito, Annamaria Maffei, Salvatore Ficocelli, Valerio Rosito, Micaela Menegotto, Roberto Giua, Maria Spartera, Massimo Blonda, Giorgio Assennato, ARPA Apulia.

4:00 - 4:15 pm - Example of Air Quality Monitoring: Plan for the Environmental Surveillance of the Biomass plant in Bando D'Argenta (Ferrara) by San Marco Bioenergie.

Valentina Zangrando, Roberta Caenaro StudioSMA Srl, Manuela Panfili, Simona Gabrielli Eco Chimica Romana, Massimiliano Viglietti, Simone Tonon San Marco Bioenergie SpA.

4:15 - 4:30 pm - The support of modelling of pollutant and odour dispersion in drawing up the Town Planning project of the Zona Industriale Udinese (Udine's Industrial Zone).

Silvia Rivilli, Nicola Pettarin, Riccardo Snidar, LOD Srl, Udine, Alan Valentino, Bruna Flora ZIU, Udine.

4:30 - 4:45 pm - Using CO2MPARE in Emilia Romagna: CO2 Model for Operational Programme Assessment in EU Regions; improved carbon management with EU Regional Policy.

Paolo Cagnoli, Michele Sansoni, Luca Vignoli, ARPA Emilia Romagna, Regional Thematic Centre for Energy and Complex Environmental Assessments.

4:45 - 5:30 pm - Discussion on the speeches and brief report on the poster presentations

Session Posters:

A3 - 1 Contribution to the knowledge of air quality in a highly industrialized site (Taranto city), by biomonitoring techniques. Cristina Annicchiarico, Micaela Buonocore, Nicola Cardellicchio, Antonella Di Leo, Santina Giandomenico, Lucia Spada, CNR – Institute for Coastal Marine Environment, Taranto

A3 - 2 Source apportionment study based on selective wind direction sampling. Elisa Venturini, Ivano Vassura, Fabrizio Passarini and Luciano Morselli, Departmental Centre for Industry Research “Energy and Environment”, University of Bologna, Rimini (Italy), “Toso Montanari” Department of Industrial Chemistry, University of Bologna, Bologna (Italy).

A3 - 3 Monitoring atmospheric pollution by fine particles. Francesco Tripicchio, Francesco Lamonaca, Francesco Nastro, Alfonso Nastro, University of Calabria, Arcavacata di Rende (Cosenza), Monica Vasile, Ovidius University of Costanta, Romania.

A3 - 4 GAIA-Urban forestation from scientific research to on-site application.

Rita Baraldi, Raffaella Gueze, Ibimet-CNR Bologna.

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**Wednesday 6th November 2013 12 noon – 1:00 pm Agora Sustainable City Room Hall B7-D7
Smart Cities/ Smart Communities. Innovative solutions for Smart Cities**

Organized by: **Partnership for a Master Degree Course in Technological Innovation and Design for Urban Systems and the Territory, eAmbiente and Ecomondo CTS**

If a City is intended as being a System of Systems (housing, transport, services, culture, energy, safety/security, environment, etc.), Smart Cities can be intended as the integration network between them, backed up by a reciprocal flow of information supported by the ICT resources. The development of projects and research initiatives in this context aims at providing services for the population and enterprises in a transparent perspective, the involvement of numerous players, active informed participation in decision-making procedure, eco-development and democracy, particularly as far as the new methods of interaction and cooperation between the Public Administration and sectors of the communities are concerned. The Smart Cities / Smart Communities context is also a context featuring strong boosts based on EU actions originating from Europe 2020, from the European and national Digital Agenda as well as from a series of calls promoted by MIUR, which attribute these initiatives a strategic role for the Country's development.

**Wednesday 6th November 2013 2:00 - 5:00 pm Agora Sustainable City Room Hall B7-D7
Concrete policies for development**

Organized by: **ANCI, the National Association of Italian local Agenda 21 groups, eAmbiente and Ecomondo CTS**

Abbiamo scelto 10 progetti realizzati in città italiane grazie ad idee innovative premiate da finanziamenti Nazionali (Kyoto o altro) ed Europei (EIE, LIFE, Interreg, ecc.). Le tematiche sono collegate alla sostenibilità economica del progetto e degli indicatori ambientali conseguenti nonché al risvolto sociale sui cittadini della città.

SI RIVOLGE A: Enti Locali, Comuni, sindaci, assessori
PRESIDENTE DI SESSIONE: LUISE
MODERATORE: TBC

PROGRAMMA

14.00 Saluti Iniziali

Gabriella Chiellino - Coordinamento Scientifico di Città Sostenibile
AB di Città Sostenibile

Andrea Orlando* - Ministro dell'Ambiente e della Tutela del Territorio e del Mare

Emanuele Burgin – Coordinamento Agende 21 Locali Italiane

XXX – ANCI

Le città presentano le proprie politiche per lo sviluppo:

Bari
Bologna
Milano
Trieste
Venezia

15.30 GRUPPI DI LAVORO - AGENDA

I sindaci o i rappresentanti delle città accreditate al convegno si organizzano in gruppi di lavoro per definire delle linee guida relative a un'agenda da presentare in sede ministeriale.

Tali linee guida hanno come obiettivi i temi relativi a: Smart City, Politiche di adattamento, Risparmio ed efficienza energetica (Social Housing, finanziamenti ai privati, etc.) e Lavoro (greenjobs, etc.)

16.30 CONCLUSIONI

Relazioni dei rappresentanti dei GdL

Thursday 7th November 2013 9:15 -11:15 am Agorà Sustainable City Room Hall B7-D7 "Smart Waste" project presentation

Organized by **ANCI** in collaboration with **Ancitel Energia e Ambiente**, **CNR**, the **National Association of Italian local Agenda 21 groups**, **eAmbiente** and **Ecomondo CTS**

9:15 am Welcome speeches

Gabriella Chiellino - Scientific Coordination of Sustainable City
AB of Sustainable City

9:30 am Smart Waste Project Seminar*

The Smart Waste project was conceived to meet the requirements of local authorities in the urban sanitation sector and implement innovations introduced by the waste Directive to Legislative Decree 152/2006 on the issue of overall assessment of the environmental impact caused by urban waste management activities. The project foresees the implementation of the Observatory of Local Authorities on source-segregated waste collection by realizing and putting at municipalities' disposal application software with reserved Web access, containing indicators, data, information and useful instruments for the analysis of overall impact of waste management (calculation of emissions, % recycled, collection quality, revenue from consortia system, disposal costs, etc.). The experimental stage has already been launched in the municipalities of Perugia, Sassari, Prato and Chieti and is about to be launched in other municipalities (Salerno, Reggio Emilia, ...).

The project's primary objectives are therefore:

- to contribute to the cities' degree of "smartness" by means of the adoption of IT facilities that are more advanced and innovative than the current ones, with a view to giving decision-makers support to make the waste management system more efficient and ensure it a lower impact;
- to combine the objectives of eco-sustainability already part of Smart Cities with the new objective introduced by Directive 2008/98/CE to Italian environmental regulations.

The meeting will host the presentation of the results of the project that Ancitel Energia e Ambiente has launched in an experimental form in 2013 with some municipalities to test the Smart Waste software.

Program:

9:15 am - Welcome speeches

Gabriella Chiellino - Scientific Coordination of Città Sostenibile
AB of Sustainable City

9.30 am Introduction

Filippo Bernocchi, ANCI Energy and Waste Delegate

Smart Waste project presentation

Francesco Sicilia, Technical Director, Ancitel Energia e Ambiente -

The opportunity for Municipalities

Councillor for the Environment, Municipality of

Thursday 7th November 2013 11:15 -1:15 am Agorà Sustainable City Room Hall B7-D7

Sustainable cities: the real smart cities

Organized by: **ANCI** in collaboration with **CNR, ANCITEL Ambiente e Energia, eAmbiente and Ecomondo, the National Association of Italian local Agenda 21 groups and Ecomondo CTS**

Saluti Introduttivi

Gabriella Chiellino - Coordinamento Scientifico di Città Sostenibile
AB di Città Sostenibile

11:00 Esempi di città che hanno realizzato interventi su Energia, Mobilità e Rifiuti.

Sono invitate a intervenire le città di:

Cagliari

Genova

Monza

Padova

Piacenza

Torino

Trento

12:45 DISCUSSIONE E CHIUSURA DEI LAVORI

Thursday 7th November 2013 11:15 am - 1:00 pm Girasole Room - East Foyer – Hall D7 side D7

Waste management in Smart Cities - The Wasteless in Chianti project compared with the best national and European experiences

Promoted by the **PROVINCE OF FLORENCE** and **PROGETTO LIFE+ WASTE-LESS IN CHIANTI PARTNERS**, in collaboration with the **NATIONAL ASSOCIATION OF ITALIAN LOCAL AGENDA 21 GROUPS, AB Sustainable City, eAmbiente and Ecomondo**

11.00 REGISTRAZIONE PARTECIPANTI

11.15 SALUTI DI BENVENUTO

DANIELA LUISE–Direttore del Coordinamento Agende 21 Locali Italiane

Introduce e coordina

GENNARO GILIBERTI –Responsabile Direzione Ambiente e Gestione Rifiuti, Provincia di Firenze

11.30 CHIANTI WASTE LESS: UNA STRATEGIA INTEGRATA PER LA GESTIONE “SMART” DEI RIFIUTI
ORSOLA BOLOGNANI

Ambiente Italia

11.45 PARTNERSHIP PUBBLICO-PRIVATO PER LA RIDUZIONE DEI RIFIUTI: L'ESPERIENZA DEL LIFE+ NO.WASTE

GIOVANNI FERRARI, Comune di Reggio Emilia

SILVIO FEDRIZZI, Comune di Trento

12.00 RIDUZIONE DEI RIFIUTI E MODELLI “SMART” DI RACCOLTA

DUCCIO BIANCHI

Ambiente Italia

12.20 CHIANTI WASTE LESS: SISTEMI DI RACCOLTA A CONTROLLO DEGLI ACCESSI

DOMENICO SCAMARDELLA

Dirigente Direzione Pianificazione e Gestione Servizi - Quadrifoglio

12.40 RACCOLTA PORTA A PORTA E TARIFFAZIONE PUNTUALE NELL'AREA DELLA VAL D'ELSA

ALESSIO ARRIGHI

Dirigente servizi operativi - Publiambiente

13.00 BUONE PRATICHE DI GESTIONE “SMART” DEI RIFIUTI IN EUROPA

ACR+ Association of Cities and Regions for Recycling and Sustainable Resource Management

13.20 CONCLUSIONI

RENZO CRESCIOLI – Assessore all'Ambiente della Provincia di Firenze

Thursday 7th November 2013 2:00 - 4:00 pm Girasole Room - East Foyer – Hall D7 side
The Covenant CapaCITY project

Organized by: **Municipality of Padua, Sogesca, eAmbiente and Ecomondo**

The Covenant Capacity project regards the “Development of competence and capacity (Capacity building) of local organizations to promote Local Action on Climate and Energy – from planning to monitoring” and is a 3-year project, co-financed by the Intelligent Energy Europe program. It began in June 2011 and will end in May 2014.

The project's main objective is assistance to contribute to developing PAES (*Action Plans for Sustainable Energy*) in Europe – starting from the motivational phase, then, through planning and implementation, to monitoring and assessment. The project's objectives are realized by means of three main activities:

An easy training program offered to Local Organizations (the bodies' administrators and officials)

A “teach the teacher” program to extend the support provided, also inviting the representatives of associations, networks of local authorities and energy agencies to work with the local authorities

The program provides active support to selected cities in 15 Nations – by means of a process that step by step leads to establishing Local Action for the Climate and Energy of each situation.

Thursday 7th November 2013 2:00 -5:00 am Agora Sustainable City Room Hall B7-D7

Really efficient realizations. How to live well, saving: the choices for a city

Organized by: **AB Sustainable City, eAmbiente, Ecomondo and partners**

Above all, our cities must be sustainable, i.e. lasting through time. Sustainability means: adopting responsive buildings that bear witness to energy efficiency and analyze the quality of the environment, thanks to sensors that measure the quality of the air and the environment; using intelligent facades for the buildings; not constructing from scratch, but redesigning cities beginning from the edges; teaching people how to use new technologies, changing their day-to-day habits, holding technological training sessions... for town planners, public employees and the population. We shall therefore talk about the case studies carried out

PRESIDENTE DI SESSIONE: CORRADI

Programma

14.00 Introduzione:

Ministero delle Infrastrutture – Sottosegretario/Direttrice (Costanza Pera)

FATTIBILITÀ DEGLI INTERVENTI

(Corradi CECODHAS)

FINANZIABILITÀ

Conto termico e le sue evoluzioni

I prestiti: Cassa Depositi e Prestiti

Strumenti finanziari europei per l'efficienza – Mendini

Fondo per abitare – Sergio Urbani

ABILAB (Centro Ricerca)

Ministero Coesione e sviluppo Territoriale - Fondi infrastrutturali 2014-2020

BCC

CONTRATTI EPC

AGESI: simulazione interventi per la riqualificazione energetica – Direttore Albonico

Ulteriori interventi:

AZIENDE E CASI CONCRETI

FEDERCASA

ENEA

FER

MATERIALI

17:00 Discussione e Chiusura dei lavori

Friday 8th November 2013 10:00 am - 12:30 pm Agora Sustainable City Room Hall B7-D7

Smart Cities: transport / mobility

Organized by: **AB Sustainable City, eAmbiente, Ecomondo and partners**

The European Commission is very clear: transport depends to a large extent on imported petroleum. While many sectors have achieved a reduction in CO₂ emissions, as far as transport is concerned, the percentage has constantly increased. Within 2050, we will have to have considerably reduced these CO₂ emissions, also beginning to fight traffic and environmental pollution. To achieve European targets, which foresee the reduction of CO₂ emission by 80% within 2050 compared to 1990, the consumption of petroleum in the transport sector must be reduced by 70% compared to current figures: this will result in a real revolution as far as fuel and how we travel are concerned. Discussions on this issue are therefore indispensable and shall be held with all the subjects involved in this change - both institutional and private, such as Fiat.

PRESIDENTE DI SESSIONE: Baroni

Programma

10.00 Introduzione:

Baroni, Orecchini

Commissione CO₂ e mobilità: CE (Relatore convegno su Roma)*

Commissione Mobilità (Fondazione Sviluppo Sostenibile): azioni per la mobilità (Chiellino)

Applicazioni a metano (NGV SYSTEM ITALIA, FIAT)

Trasporto pubblico (TRENITALIA/ITALO, Municipalizzata)*

Regione Emilia-Romagna - Fabio Formentin. dirigente del Servizio Mobilità Urbana e Trasporto Locale*

ICT piattaforme (e3city)

Esempio Città e buona gestione (2 esempi)*

12:30 Discussione e Chiusura dei lavori

Friday 8th November 2013 2:00 - 5:00 pm Agorà Sustainable City Room Hall B7-D7

Monitoring platform and innovative sustainability in cities

Organized by: **AB Sustainable City, eAmbiente, Ecomondo and partners**

How can environmental indicators really be controlled in cities? Must the role of Italian and foreign Environmental Protection Agencies be updated on the use of advanced control hubs? What is the role of private enterprises and individual citizens in monitoring abnormal conditions and environmental pollution? These are the innovations for our Smart Cities, as we head towards a real quality of life in our cities. These will be discussed with top advisors responsible for the development of these solutions for indoor and outdoor environments.

Programma

14.00 Introduzione:

Phil Taylor

Massimo Carraro

“Come risparmiare in controllo e monitoraggio delle Città”

Arpa Veneto – Progetto RESMIA*

ISPRA - Indicatori ambientali

ENEL HOLDING

Saturday 9th November 2013 (times TBA) Agorà Room Sustainable City Hall B7-D7

Growth, creativity and cohesion: nourishing the planet, energy for life. Waste Charter Campaign

Organized by: **AB Sustainable City, eAmbiente, Ecomondo and partners**

At Sustainable City, this conference will present the Zero Waste Charter to confront a number of mayors and good practices adopted for waste prevention: large, medium and small cities. The project that began in Padua last May (Forum of the 1000 mayors), in collaboration with Trieste Next, and continued in Trieste in September (Selection of 100 good practices), ends in November 2013, above all to consider and make concrete proposals aimed at the evolution of the “Charter” including water, energy, waste and mobility, as well as food.

SI RIVOLGE A: Sindaci, assessori, stakeholder, giornalisti ambientali, scuole e università, cittadini.

PRESIDENTE DI SESSIONE: Andrea Segre

Programma

Rappresentante EXPO 2015 – Digital City

SCUOLE E UNIVERSITA': Master Smart Cities – Di Prinzio

IMMIGRAZIONE - SOCIAL HOUSING - CORRADI

ACER - MATRICE DI SOSTENIBILITA' SOCIALE, L'AGENZIA PER L'AFFITTO

ALIMENTARE: KM 0



(with simultaneous English-Italian translation)

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Those interested in doing so must prepare the manuscript according to the Authors' Instructions available on the Web site: http://www.ecomondo.com/appuntamenti_eventi/call_for_papers.asp and send it to Dr. Grazia Totaro (grazia.totaro@unibo.it) and "sem.ecomondo@riminifiera.it" within and no later than the dates indicated at the beginning of September 2013.

Friday 8th November 2013 10:00 am - 2:00 pm Neri Room 1 South Foyer
European instruments and strategies supporting ecoinnovation
Organized by **Ecomondo CTS**

The new Europe Framework programme for Research and Innovation, called Horizon 2020, will begin on 1st January 2014 and will finance research and innovation until 2020, with an expected overall budget of approximately 80 billion euros. It will provide consortia formed by research boards and enterprises, particularly SME, the necessary means for realizing their projects and innovating, encouraging international cooperation and excellence, with the aim of favouring intelligent, sustainable and inclusive growth in Europe. In the meantime, a number of new initiatives such as public-private partnerships (PPP), Entrepreneurship and Innovation Programmes (EIP), 'Knowledge Innovation Communities' (KIC), etc. are working on promoting research, innovation and training, as well as new competition with the direct involvement of private enterprises. This opening conference intends presenting an insight on what is being done in Europe on the research and innovation front in the context of the issues covered by Ecomondo.

Session Chairs

Antonio Tajani/Silvia Bartolini, European Commission TBC
Christian Patermann - State Government of North-Rhine Westphalia, Germany
Raffaele Liberali - MIUR

Program

10:00-10.10 am - Introduction
10.10 - 10.35 am - Horizon 2020: objectives, instruments, contents and expectations
Antonio Di Giulio, DG Research and Innovation, European Commission
10:35 - 11:00 am- Key Enabling Technologies and EC strategies for boosting Green Economy in Europe
Antonio Tajani/Silvia Bartolini, European Commission TBC
11:00 - 11:25 am . Tools and strategies for promoting Industrial innovation and symbiosis, new industrial value chains in EU and member states
Reinhard Buescher, DG Enterprise and Industry, European Commission (to be invited) TBC
11.25-11.45 am Clusters and Horizon 2020-Italia: objectives, instruments, contents and expectations
Raffaele Liberali - MIUR
11.45-12.00 New tools (PPP, EIP, KIC, JPI, etc) supporting Research, Innovation and Education/Training in Europe in the field of green and biobased economy
Verdiana Bandini, Università di Bologna
12.00-12.20pm. The 'Green Chemistry' Cluster and Biobased PPP BRIDGE as drivers for EU and Italy's biobased economy
Catia Bastioli, Novamont & Board PPP BRIDGE

12:20 - 12:40 pm - The SPIRE Public Private Partnership: objectives and opportunities in R&D and innovation.

Loredana Ghinea, A.SPIRE

12:40 - 13:00 pm - The European Innovation Partnership on Water: objectives and opportunities in R&D and innovation.

Roberto Farina, ENEA

1:00 - 1:20 pm - The European Innovation Partnership on Raw Materials: objectives and opportunities in R&D and innovation.

Dario Della Sala, ENEA

1:20 - 1:40 pm - The Climate Change Knowledge and Innovation Community (Climate-KIC): objectives and opportunities in R&D, innovation and training

Arianna Cecchi, ASTER, Bologna

1:35 pm - Discussion and conclusion

Friday 8th November 2013 2:30 - 6:00 pm Diotallevi Room 1 South Foyer

The European framework and Italian position in the context of European strategy on RAW MATERIALS

Organized by: **Ecomondo CTS and ENEA**

European action in the sector of non-energy and non-food raw materials is based on the European Parliament's resolution P7_TA(2011)0364, which attributes the question the same importance as that of energy raw materials and asks community institutions for a continental action plan running until 2050. The first large-scale action which acknowledges these requests is the European Innovation Partnership on Raw Materials (EIP-RAWMAT) (COM(2012)82), which includes a start-up stage (2012) and an operational stage (2012-2020). EIP-RAWMAT features a vast series of actions which also include the increase of recycling and recovery, as well as research for substitute materials. These ambitious objectives have been preceded for several years by a series of preparatory actions, including the action of European coordination of the sector's research (ERA-MIN). The launch by the European Institute of Innovation and Technology of a Knowledge Innovation Community (KIC) on the topic of the critical situation of the procurement of non-energy and non-food raw materials is awaited for the end of this year and could lead to the creation of one of the network's hubs in Italy. The event intends representing strategies at European level and the state of the art of what is happening in Italy as a consequence of the European scenario.

Session Chairs

Roberto Morabito – ENEA

Marco Vittori - ENEA

Program

2:30 pm - Presentation of the conference – Session Chairs

2:40 pm - Opening of the proceedings

Franco Terlizze, DG Mineral Resources MiSE

3:00 pm - Europe and raw materials: the Italian innovation system responds.

Dario Della Sala, ENEA

3:20 pm - The contribution of the Raw Materials Laboratory to the identification of minerals that are strategic/critical for the national policy

Angelo Di Gregorio, Milan Bicocca University

3:40 pm - Round Table on Recycling and replacement of raw materials in industrial sectors.

Participants:

Nicoletta Amodio - Confindustria

Daniilo Bonato, ReMedia - High Level Steering Group EIP- Raw Materials

Giovanni Corbetta, ECOPNEUS

Marco Falzetti, CSM - Alliance4Materials

Roberto Morabito, ENEA

Marco Vittori - ENEA

Discussion

5:30 pm - Conclusions

Andrea Bianchi, DG Industrial Policies and Competitiveness MiSE

Friday 8th November 2013 2:00 - 6:00 pm Ravezzi Room 1 South Foyer

“FOOD SUSTAINABILITY”: How can a KIC on the “Food for the Future” theme be a driver for boosting the European Bio-Based and Green Economy?

Organized by **Ecomondo CTS and University of Bologna**

There is the need and opportunity for the European food sector to strengthen competitiveness and job formation by building technological and business leadership in valorisation of waste and by-products and using it to create new and more sustainable resource efficient value chains, thereby unlocking the potential of waste and by products from the Food sector also into cross-talking industrial sectors (ingredients, feed, biochemicals, biomaterials, biofuels, bioenergy). Innovation in sustainable food production, energy recovery and production from renewables will result in a significantly increased usable output and will deliver a huge economic advantage by reducing costs and environmental impact. Within the context of a possible Food4Future KIC, Foodbest consortium (www.foodbest.eu) aims at turning global challenges within Food Sustainability into concrete business opportunities. In the following Session, the scenario food industry will have to address to ensure a sustainable food value chain will be discussed, and linked within the potentialities and challenges that a possible Food4Future KIC will make available.

Chairs

Giuseppe Conti - University of Bologna

Achille Franchini - University of Bologna

Program

2:00 pm Opening. Dario Braga – Pro Rector for Research, University of Bologna

2:15 pm - The EIT Vision of the future EU: the potential for a KIC on the theme “Food For The Future”

Giuseppe Conti - University of Bologna

2:30 pm - Why can a KIC in the Food sector be profitable for the European Bioeconomy?

Marco Baccanti - President of the Research and Innovation Commission of Confindustria Emilia Romagna

2:45 pm - Foodbest consortium: creating opportunities to tackle Food Sustainability challenges

Alessia Di Sandro - University of Bologna

3:00 pm - Creating new value chains based on waste and by-products

Lene Lange (AAU, Denmark)

3:15 pm - Synergy between European KIC on the theme Food for the Future and national technological clusters on Food and Green Chemistry: new value chain based on the valorisation of food bio-wastes

Giovanni Sorlini (INALCA)

3:30 pm - How can innovation and entrepreneurship boost Food Sustainability? Maurizio Sobrero - University of Bologna

3:45 - 4:45 pm - Round table - “Italian Industrial Foodbest consortium: how are we promoting global innovation for a sustainable food and bio-based industry?” Moderator: Marco Baccanti - President of the Research and Innovation Commission of Confindustria Emilia Romagna

Amadori, Bauli, Camst, Caviro, Electrolux, Eridania, Federalimentare, Granarolo, ICA, Inalca, Laboratori Archa, MD’Esrl, Parco Tecnologico Padano, Unicredit, Whirlpool, CNR-ISPAs, ENEA, University of Bologna, University of Milan, University of Parma.

4:45 pm - Question and answer session - Moderator: Achille Franchini - University of Bologna

5:15 - 5:30 pm - Maurizio Sobrero - University of Bologna - “Wrap-up and closure”.

Friday 8th November 2013 2:00 - 6:00 pm Diotallevi Room 2 South Foyer

Initiatives by the European Water Supply and Sanitation Technology Platform (WssTP) and the European Innovation Partnership on Water (EIP-Water) to favour the competitiveness of the European water industry

Organized by **ENEA, CNR – Water Research Institute, Ecomondo CTS**

The European Innovation Partnership (EIP) on Water is an initiative launched in 2012 by the European Commission to create cooperation between the world of research and enterprises. The objective is to make European industry competitive, with particular regard to SMEs, also involving the bodies and authorities responsible for governing water. The initiative's key point is the identification, by means of Action Groups, of the causes that limit the spread of innovative solutions and techniques and the means that enable to reduce their application times in real situations, to improve the life quality of European citizens and restore the leadership of our enterprises working on the world water market.

Session Chair

Roberto Farina - ENEA, Bologna

Program

2:00 pm - Introduction by the Chairs and brief report on the poster presentations

2:20 pm - The European Innovation Partnership on Water:

Robert Schröder, European Commission, DG Environment Unit D1 - Protection of water resources

2.40 pm - Action Groups' aims and activities

Roberto Farina (ENEA Bologna)

3:00 pm - European research on water as a driver for economic development. Joint Programming Initiative "Water Challenges for a Changing World"

Giuseppina Monacelli (JRC – ISPRA)

3:20 pm - Pilot program in urban areas

Nicola Bazzurro (AMGA Foundation)

3:40 pm - The activity of the European technological platform on water

Antonio Loporto (CNR-IRSA Bari)

4:00 pm - The role of local bodies and regions in the EIP for sustainable management of water resources

Umberto Fratino (Bari Polytechnic)

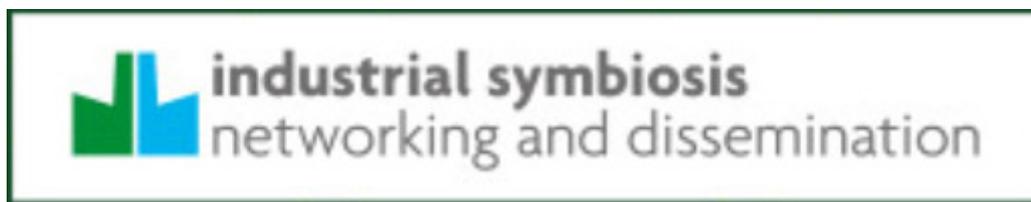
4:20 pm - A case of the application of a partnership between industry and research: the European AQUAKNIGHT project

Marco Fantozzi (Studio Marco Fantozzi)

4:40 pm - The experiences of a large Italian enterprise

Roberto Zocchi (Eureau and ACEA Group)

Discussion and end of proceedings



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Thursday 7th November 2013 10:00 am - 1:00 pm Abete Room - West Foyer - Hall A7 side
Technological innovation by means of the LIFE projects: comparing the best experiences
Organized by **Ecomondo CTS, DICEA (Department of Civil and Environmental Engineering), University of Florence**

The LIFE program is the main instrument of the European Community for financing projects and initiatives in favour of the environment and for nature preservation. Launched in 1992, to date it has enabled to realize approximately 3,000 projects distributed between the European Union's member nations, contributing to maintaining the environmental heritage by allocating approximately 2 billion euros.

With this in mind, the Department of **Department of Civil and Environmental Engineering of the University of Florence**, with the collaboration of the *Utilitatis pro acque energia ambiente* foundation, Physis environmental engineering design company and the Chemical and Environmental Engineering Laboratory of the University of Girona, has launched a LIFE project entitled "SHOWW - puShing aHead with field implementatiOn of best fitting WasteWater treatment and management solutions" with the objective of promoting the LIFE projects regarding the treatment and management of wastewater and, in particular, divulging those that are most replicable on a wide scale.

In this sense, the workshop has the essential task of favouring the diffusion of some innovative LIFE solutions of particular scientific e technical interest among those working in the sector.

Friday 8th November 2013 9:30 am - 1:30 pm Diotallevi Room 2 South Foyer
The experiences and state of the art of industrial symbiosis in Italy
Organized by: **Ecomondo CTS and ENEA**
Call for papers

Following the first conference on industrial symbiosis organized by ENEA at the last edition of Ecomondo, the objective of this session is to gather the experiences of cases that have been or are being realized, in order to highlight technical-scientific implications as well as procedure and administrative ones, with particular reference to Italy. The term industrial symbiosis is intended as being the exchange of resources between two or more different industries, intending "resources" as not only those of a material nature (by-products or waste), but also waste energy, services and expertise. This is a strategy for closing resource

cycles and optimizing their use in the context of an adequate territorial economic revenue. There are many implications resulting from the effective realization of industrial symbiosis programs which can regard the possible productive uses of waste and by-products, processes of exploitation and transformation of by-products and waste with a view to re-using them, instruments and data banks, technical-administrative procedure and regulations.

Session Chairs

Laura Cutaia – ENEA

Vito Albino – Bari Polytechnic

Program

9.30 am - Introduction

9:40 - 10:00 am - Industrial Symbiosis: delivering green growth to the economy

Rachel Lombardi, International Synergies Ltd.

10:00 - 10:20 am - The experience of the Regional Industrial Symbiosis Platform in Sicily

Laura Cutaia, ENEA – Environmental Technologies Technical Unit

10:20 - 10:40 am - Industrial Symbiosis in Sicily

Representative of Confindustria Sicily

10:40 - 11:00 am - Relations between Industrial Symbiosis and Ecologically Equipped Areas

Enrico Cancila – Alessandro Bosso, ERVET – Rete Cartesio

11:00 - 11:10 am - Comments and introduction to the speech session

11:10 - 11:25 am - Industrial symbiosis and productive areas. A European experience starting with the MED project

Marino Cavallo, Province of Bologna

11:25 - 11:40 am - Characteristics, potential and limits of the development of industrial symbiosis in existing local productive systems. Analysis of three Italian contexts

Raffaella Taddeo, Alberto Simboli, Anna Morgante, Department of Economics, "G. d'Annunzio" University of Chieti-Pescara

11:40 - 11:55 am - Industrial symbiosis as an opportunity for the development of Italian APEAs (ecologically equipped productive areas)

Antonella Iacondini (1), Fabrizio Passarini (1,2), Ivano Vassura (1,2), Luciano Morselli (1,2), 1.

Interdepartmental Centre for Industrial Research CIRI "Energy and Environment", University of Bologna; 2 "Toso Montanari" Department of Industrial Chemistry, University of Bologna

11:55 am - 12:10 pm - Realizing an eco-sustainable district with zero waste: instructions for use. Life Project "Mo.Re. & Mo.Re."

Simona Bisillo, Marco Gentilini, Nova Consulting srl

12:10 - 12:25 pm - PODEBA: an industrial symbiosis case

Alice Dall'Ara, Laura Billi, ENEA UTTMATF, ARPA ER

12:25 - 12:40 pm - Spremberg case study: exploiting the waste/scrap of the paper manufacturing process at the service of a paper mill

T. Vollmeier, R. Macchi, TBF + Partner AG, Consulting Engineers

12:40 - 12:55 pm - Optimization of networks for the distribution of thermal energy. A mathematical model for decision-making support in the expansion and optimum design of district heating networks

Daniele Vigo, Chiara Bordin, Angelo Gordini, Alma Mater University of Bologna's "Guglielmo Marconi" DEI Department of Electric, Electronic and Information Engineering

12:55 - 1:30 pm - Discussion and end of proceedings

Friday 8th November 2013 2:30 - 6:00 pm Ravezzi 2 Room South Foyer

Italy Germany 2050: The future meets the present

Organized by **FISE UNIRE** and **Goethe-Institut**, with the collaboration of the **Sustainable Development Foundation**

FISE UNIRE and Goethe Institut Italia are partners in a new initiative entitled "Italy Germany 2050: the future meets the present", which intends raising questions on the models of life, consumption and economy to be developed in the two countries to tackle the negative phenomena involving today's society, in particular that of the western world, such as: falling birth rate, ageing population, waste of natural resources, climatic changes, increasing pollution, etc. By means of a series of "face to face" meetings, coordinated by journalists/moderators and open to the public, between political and economic exponents of the two countries, the intention is to ensure in-depth networking between the two cultures – Italian and German – on key topics such as energy, waste, food, living and dwelling. At this appointment, a debate will be held between Edo Ronchi and Jo Leinen on energy in a Green Economy perspective.

Speakers:

Edo Ronchi (Chairman, Sustainable Development Foundation)

Jo Leinen (Member of the European Parliament - Chairman of the Committee for Environment, Public Health and Food Safety)

Moderator:

Filippo Solibello (Radio RAI journalist)

OTHER PROPOSALS

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Thursday 7th November 2013 - 10:30 am - 1:00 pm - Rovere Room Hall C6 1st floor
ANCI-Coreve: presentation of the 2013 Report
by **Ancitel Energia e Ambiente Srl** and **Co.Re.Ve.**

Thursday 7th November 2013 2:30 - 4:30 pm Neri Room 2 South Foyer
The ELV (End of Life Vehicle) chain bearing in mind the renewal of the Agreement of the framework program for ELV management
Organized by: **FISE UNIRE** with the participation of **ADA, AIRA, ASSODEM, FIAT ...**

The achievement of the European targets foreseen by the directive for 2015, the improvement of the quality of plants and the reduction of radiation for export to limit illegal flow abroad are the main problems of the ELV chain. Representatives of the sector will discuss these matters in the light of the work on the amendment of the framework programme Agreement for ELV management and possible normative and operational developments of the Agreement itself.

Program

2:30 pm - Introduction (Chairman, FISE UNIRE)

Speakers

Supervisory Committee for the ELV framework programme agreement

ADA

ASSODEM

Chairman AIRA

FIAT

4:30 pm - **Discussion and end of proceedings**

Thursday 7th November 2013 - 2:00 - 5:30 pm – Noce Room Hall A6
“INAIL for the ‘waste system’: technical aspects and cooperation. Focus on incinerators”

Organized by: **INAIL (Workers Compensation Authority) – Head Office, Prevention and Risk Assessment and Prevention Consultancy**

The framework agreement stipulated in 2010 between INAIL and Federambiente has put the seal on the commitment on behalf of companies and institutions to improve the health and safety conditions of the workers in the environmental service sector. The close collaboration between the three components of the work table (INAIL, companies, trade unions) led to the realization of means useful for forming a concept of safety culture that is not abstract, but immediately useable. However, the undertaking is not over. Margins for improvement and work still to be done are the main topics of this conference, focussed on the proposals of

the new agreement between INAIL and Federambiente and the study of the conditions of health and safety for workers in incineration and waste-to-energy plants.

Moderators

Fabrizio Benedetti [INAIL, Contarp (Technical Consultancy Risk Assessment and Prevention)]

Annalisa Guercio (INAIL, Contarp)

Program

2:00 pm - Introduction by the Chairs

2:20 - 2:40 pm - INAIL – Federambiente agreement: innovations, proposals, projects (by INAIL, Contarp and Federambiente)

2:40 - 3:00 pm - Presentation of the pamphlet “La sicurezza per gli impianti di incenerimento e di termovalorizzazione” (*Safety for incinerator and waster-to-energy plants*) (by INAIL, Contarp)

3:00 - 3:30 pm - Restricted environments in incinerator plants (by INAIL, Contarp)

3:30 - 4:00 pm - Searching for hazardous pollutants in work environments in an incinerator: initial results (by INAIL, Contarp)

4:00 - 4:30 pm - Analysis of accidents in incinerators (by INAIL, Contarp)

4:30 - 5:00 pm - Discussion

Discussion and end of proceedings

Friday 8th November 2013 11:00 am - 1:00 pm Agora H2R South Foyer

Sustainable development award for businesses.

promoted by the **Foundation for Sustainable Development** and **Ecomondo CTS**, with the official recognition of Italy's President.

Friday 8th November 2013 9:00 am - 2:00 pm Gardenia Room - East Foyer - Hall B7 side

The new waste management regime: the service entrusted to Tares

promoted by **CONAI** and **Promo PA**

Free course for municipalities