

## Introduction

The event has been jointly organized by the Chemical Association of Lombardy, as mandatory of the Consiglio Nazionale dei Chimici, together with the European Association for Chemical and Molecular Sciences (EuCheMS) which is acting for 45 Chemical Societies belonging to 35 Countries.

The purpose is to become acquainted with the role that Chemists and Chemistry play in agriculture, water processes, feeding and energy, amazing opportunity to raise awareness to the importance of chemical sciences in society.

With these objectives in mind six conferences and one summarizing session will take place during EXPO 2015.

They will be devoted to:

- the production of bio-based fuels by means of processes of transformation of different types of lignin;
- the need to protect the available fertile soils from degradation processes and to preserve the basis for food production for future generations;
- the possible contamination of basic food and drinks with the most important organic, inorganic and organometallic persistent toxicants;
- the reduction of CO<sub>2</sub> emissions by means of the development of efficient batteries, super capacitors and fuel cells;
- the careful management of fresh water that is un-replaceable for life;
- the role of chemistry in order to understand what makes food pleasant and how the food is transformed during the cooking procedure.

It should be underlined that such events will provide an important forum of exchange of ideas between scientists, young researchers and the general public, ideal opportunity to spread the power of chemical science by its right use.

**Sergio Facchetti**  
*Scientific Coordinator*

## Programme

**MONDAY, MAY 11<sup>th</sup>, 2015 | 15.00/16.30**

Location: **Palazzo delle Stelline**

Chairman: *Sergio Facchetti*

**Towards a Circular Economy?  
Catalysis for the Production of Biomass-Based  
Building Blocks**

*Bert M. Weckhuysen*

**THURSDAY, JUNE 11<sup>th</sup>, 2015 | 11.00/12.30**

Location: **EU Pavilion** - EXPO Area

Chairman: *Sergio Facchetti*

**Where food begins: the role of soils for food  
security and food safety**

*Luca Montanarella*

**TUESDAY, JUNE 23<sup>rd</sup>, 2015 | 11.00/12.30**

Location: **EU Pavilion** - EXPO Area

Chairman: *Sergio Facchetti*

**Problems of Chemical Safety of Foods and Drinks**

*Valery S. Petrosyan*

**TUESDAY, JULY 7<sup>th</sup>, 2015 | 11.00/12.30**

Location: **EU Pavilion** - EXPO Area

Chairman: *Sergio Facchetti*

**Following Function in Real Time: New Spectroscopic  
and Diffraction Methods for Studying Structure  
and Dynamics in Batteries and Superconductors**

*Claire Grey*

**WEDNESDAY, SEPTEMBER 2<sup>nd</sup>, 2015 | 11.00/12.30**

Location: **EU Pavilion** - EXPO Area

Chairman: *Sergio Facchetti*

**Water basis for life**

*Fritz H. Frimmel*

**TUESDAY, SEPTEMBER 29<sup>th</sup>, 2015 | 11.00/12.30**

Location: **EU Pavilion** - EXPO Area

Chairman: *Sergio Facchetti*

**Molecular secrets of the Italian gastronomy**

*Rosangela Marchelli*

**FRIDAY, OCTOBER 2<sup>nd</sup>, 2015 | 16.00/18.30**

Location: **Italy Pavilion** - EXPO Area

CLOSING SESSION

**The chemist towards Europe and the World**

Chairman: *Armando Zingales*

**Food allergens and new food**

*Rosangela Marchelli*

**The water problem in Europe**

*Fritz H. Frimmel*

**Summarizing Outcomes of the International  
Conferences**

*Sergio Facchetti*

### CHAIRMEN AND SPEAKERS

**Claire Grey**  
Department of Chemistry,  
University of Cambridge,  
Cambridge (UK)  
Department of Chemistry,  
Stony Brook, (USA)

**Fritz H. Frimmel**  
Professor of  
Water-Chemistry  
Karlsruhe Institut  
for Technology (KIT),  
Karlsruhe (Germany)

**Luca Montanarella**  
European  
Commission  
Intergovernmental  
Technical Panel on Soil  
(ITPS), DG JRC, Ispra (VA)

**Valery S. Petrosyan**  
Research Center  
"Ecology and Health"  
Department of Chemistry,  
Moscow State University  
(Russian Federation)

**Sergio Facchetti**  
Consigliere CNC  
Consigliere EuCheMS

**Rosangela Marchelli**  
Dipartimento di Chimica  
Organica ed Industriale  
Università di Parma (Italy)

**Bert M. Weckhuysen**  
Debye Institute  
for Nanomaterials Sciences  
Utrecht University  
(The Netherlands)

## General information

### CONFERENCES VENUES

**Monday, May 11<sup>th</sup>, 2015**

Palazzo delle Stelline  
Corso Magenta, 61 - Milan City Centre

**How to reach the Conference Venue**

MM2 (Underground Green Line) - Cadorna - Triennale Stop

**Thursday, June 11<sup>th</sup>**

**Tuesday, June 23<sup>rd</sup>**

**Tuesday, July 7<sup>th</sup>**

**Wednesday, September 2<sup>nd</sup>,**

**Tuesday September 29<sup>th</sup>, 2015**

EU Pavilion - EXPO AREA - Milan

**Friday, October 2<sup>nd</sup>, 2015**

Italy Pavilion - EXPO AREA - Milan

**How to reach the Conference Venues**

The Exhibition Area of EXPO2015 is located a few kilometres from the City Centre in the North-West Area of Milan.

MM1 (Underground Red Line), Rho Fiera Milano Stop (about 30 minutes from the Duomo Square).

From the Underground Stop, through a pedestrian footbridge, you can reach the Fiorenza West Access

### CONTINUOUS PROFESSIONAL EDUCATION

The attendance at each International Conference will give to all the Chemists the opportunity to obtain N. 2 Professional Credits.

### PRESIDENT

**David J. Cole Hamilton**  
Presidente EuCheMS

### SCIENTIFIC COORDINATOR

**Sergio Facchetti**  
Consigliere EuCheMS e CNC

### SCIENTIFIC BOARD

**David J. Cole Hamilton**  
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**Nineta H. Majcen**

Segretario Generale  
EuCheMS

**Emiliano Miriani**

Presidente Ordine  
Interprovinciale dei Chimici  
della Lombardia

**Armando Zingales**

Presidente CNC

### REQUESTED PATRONAGES

EXPO 2015  
Regione Lombardia  
Città Metropolitana Milano  
Confindustria  
Federchimica  
Università degli Studi di Milano  
Dipartimento di Chimica  
Università degli Studi  
dell'Insubria  
Rete Professioni Tecniche  
Ministero dell'Ambiente  
Ministero delle Politiche  
Agricole  
Ministero della Salute

### PRESS AGENCY

**Segni&Suoni**  
Via San Francesco, 10,  
Recanati  
Tel. 071 7570901  
info@segniesuoni.it  
www.segniesuoni.it

### ORGANISING SECRETARIAT

**Promeeting**  
Via Angelo da Orvieto, 36  
05018 Orvieto (TR) - Italy  
Tel. +39 0763 344890  
info@promeeting.it  
www.promeeting.it

### WEBSITE

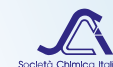
www.expo2015.chimici.it

### THANKS TO

 **Agilent Technologies**



MILANO 2015



Società Chimica Italiana



CONSIGLIO NAZIONALE DEI CHIMICI  
PESCO LAVORO DELLA GESTIONE



ORDINE INTERPROVINCIALE  
DEI CHIMICI DELLA LOMBARDIA



EuCheMS

## INTERNATIONAL CONFERENCES EXPO 2015 MILAN

## THE CHEMIST TOWARDS EUROPE AND THE WORLD

