



2013-2014 1st ChIR edition in Faro, Portugal



2014-2015 2nd ChIR edition in Barcelona, Spain



2015-2016 3rd ChIR edition in Bologna, Italy

What is EMMC-ChIR?

The EMMC ChIR - Erasmus Mundus Master in Chemical Innovation and Regulation - provides professionals with all the tools and knowledge needed from the scientific, the regulatory and the economic point of view to manage the risks of chemicals responsibly and to meet responsibilities over chemical legislation worldwide.

It covers the five fields essential to chemical regulation:

- **Design** of chemical products
- **Industrial** implementation of chemical processes
- **Marketing** of chemical substances and social perception of the risk of chemicals
- **Assessment** of risks, including toxicological and environmental assessment
- **International regulations** related to the use of chemical products

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Erasmus Mundus Master Course in
Chemical Innovation and Regulation

*Innovation and
responsibility for a
sustainable chemical
industry*

2nd ChIR Symposium

6th July 2016

Università di Bologna
Complesso Belmeloro
Via Belmeloro 14
Palazzina B, aula P



Innovation and responsibility for a sustainable chemical industry

2nd ChIR Symposium, 6 July 2016

9.15 **Welcome**
Proff. Emilio Tagliavini, Luca Prodi, Isabel Cavaco

Chairperson Dr. Walter Cabri

9.45 **Eurartesim: an overview on drug quality aspects for malaria treatment**
Dr. Elena Badaloni – Sigma Tau

10.30 **Development of an iron oxide nanoparticle-activated carbon adsorbent for water treatment of common human pharmaceutical chemicals**
Miguel Antonio Brion

10.50 **Investigating the biodegradation of some emerging pollutants of pharmaceutical origins by bacteria communities**
Donadlben Neba

11.10 **Coffee break**

Chairperson Prof. Claudio Trombini

11.30 **PLANET, PEOPLE, PROSPERITY – The three dimensions of chemical industry sustainability**
Dr. Cosimo Franco – Endura

12.15 **Bio-based surfactants from itaconic and fumaric acids and the study of their (eco)- toxicity and biodegradability**
Mireia Broch Gösser

12.35 **Coal fuel gas cleaning process for small scaled gasifier and trace elements extraction from its ash: compliance to REACH regulation**
Bazarsad Narmandakh

12.55 **Lunch**

Chairpersons Proff. Daniel Sainz, Marco Lombardo

14.10 **The impact of the international regulations on the sustainability of Active Pharmaceutical Ingredients from natural sources**
Dr. Gabriele Fontana- Indena

14.55 **Principles of GMP in pharmaceutical industry**
Dr.ssa Katerina Vengel - Galenicum

15.40 **Photocatalytic stereoselective reactions promoted by Aluminum complexes: a synthesis of Lyrica**
Hagos Tesfay Kidanu

16.00 **Risk to patient safety from laboratory errors and delays**
Wei Wang

16.20 **Purification and characterization of bioactive compounds from microalgae: a value-addition to biodiesel production**
Asnake Gudisa Ede

16.40 **Coffee break**

Chairperson Prof. Paola Galletti

17.00 **How to prevent fires, explosions and releases? Measurements, approaches and techniques for the process safety in the chemical industry**
Dr. Matteo Pori – BASF

17.45 **Development and optimization of chemical and biological processes for the treatment of sulphate rich and heavy metal bearing wastewater from Acid Mine Drainage (AMD) using Sulphate Reducing Bacteria (SRB)**
Anucha Chukwuka Bethel

18.05 **Extending the crystal engineering toolkit: solid solutions from homologous molecules**
Angelo Kenneth S. Romasanta

18.25 **Exploitation of pineapple waste derivatives and microalgae for bioremediation of herbicide contaminated waters**
Paola Blair Vaquez

18.45 **Closing remarks**