



**22nd ICCE
11th ECRICE**



Università "La Sapienza", Rome, Italy

15 – 20 July 2012

The Conference is jointly organized by **IUPAC**, Committee on Chemical Education and **EuChemS** Division of Chemical Education. It is hosted by **SCI** (Italian Chemical Society).

The conference logo

Our logo is inspired to the famous layout, designed by **Michelangelo**, of *Piazza del Campidoglio* where Rome's City Hall is located. Red and yellow are the official colors of Italy's capital.

The venue

The *University of Rome "La Sapienza"* is the oldest and the largest of the three state universities located in Rome. Its main campus, where the Conference will take place, is centrally located and within walking distance from major points of interest and from *Stazione Termini*, Rome's central railway station.

Many hotels, of different categories, are in the area.

Several air-conditioned lecture halls of different sizes are available at the Department of Chemistry or other nearby buildings. Depending on attendance, plenary lectures might be held in the University's *Aula Magna*.

Lunches will be served in the University *mensa* (cafeteria).

The program

Plenary and keynote lectures are scheduled in the morning whereas parallel sessions and workshops will usually take place in the afternoon. One half-day excursion, probably including the social dinner, is planned.

Plenary lectures

Vincenzo Balzani, Italy, "From molecules to molecular machines"

Vincenzo Barone, Italy, "Realistic Molecular Computations and Visualization Tools for Education"

Brian Coppola, USA, "Use and Usefulness of Resources: A Way of Understanding Student Engagement"

Harold Kroto, UK, "The challenge of teaching general chemistry"

Avi Hofstein, Israel, "Learning in and from chemistry laboratories: Research and practice"

Peter Mahaffy, Canada and **Ilka Parchmann**, Germany : "Where do we go from here?"

Mansoor Niaz, Venezuela, "Stimulating and reflecting over the history of chemistry to facilitate change"

Norman Reid, UK, "Some Research Keys to Successful Chemistry Education"

Alexander Renkl, Germany, "Active Learning: On Sensible and Less Sensible Conceptions of 'Active' and Their Instructional Implications"

Bassam Shakhshiri, (ACS) USA Viktor Obendrauf Demonstration Lecture: "Communicating Chemistry via demonstrations"

Keynote lectures

Melanie Cooper, USA, "Chemistry, Life, the Universe and Everything"

Hans-Dieter Barke, Germany, "Structure of matter - diagnosis of misconceptions and challenge"

Odilla Finlayson, Ireland, "... .."

Silvija Markic, Germany, "Linguistic heterogeneity: challenge for modern chemistry education"

Maria Sheehan, Ireland, "Using ideas from research to change practice in the chemistry classroom"

Parallel sessions and Workshops

Monday 16th Communicating chemistry

Parallel sessions

1.1 IYC 2011

1.2 PROFILES project

1.3 Similarities and differences in teaching and learning Science and Chemistry in some Latin American, European and Asian countries

1.4 History and Philosophy of chemistry in teaching fundamental concepts

1.5 Promoting the Globalization in Chemical Education

Workshops

1.1 Publishing in chemistry education journals

Tuesday 17th Didactics of Third level chemistry

Parallel sessions

2.1 Problem solving in Chemistry: Skill development and assessment

2.2 Applications of Systemic Approach to Teaching and Learning in Chemistry [SATLC]"

2.3 Chemistry and Civil Society

Workshops

2.1 Meeting Chemistry and Climate Literacy Learning Outcomes in Introductory University Chemistry

2.2 An exploration of molecular shape through mathematical beading

--- Thematic session EC2E2N

Wednesday 18th ICT and multimedia in teaching chemistry

Parallel sessions

3.1 The new educational software in chemistry and science education and ways of improving chemistry education with computers

3.2 Inquiry-Based Student- Centred Instruction

Workshops

3.1 2nd Workshop on Computational Chemistry and Chemical Education

Thursday 19th Didactics of Second level Chemistry

Parallel sessions

4.1 Pre-service training of chemistry teachers

4.2 In-service training of chemistry teachers

4.3 PCK and chemistry teaching

Workshops

4.1 Low cost demonstrations for teachers

4.2 Interplay of Language and Visualization in Chemistry Teaching

--- Review of EC2E2N activities

Friday 20th Laboratory work in teaching chemistry

Parallel sessions

5.1 Building active learning environments

Workshops

5.1 Using experiments/demos in Chemical Education as a motivation tool

5.2 Innovative chemical experiments: from research forefront to laboratory teaching

5.3 Educational experiment using commercial batteries

5.4 Chemistry Demonstration Workshop

Important dates

Abstract Submission Deadline	January 08, 2012
Notification of the Acceptance of Abstracts	February 28, 2012
Early Bird Deadline (for Conference Fee Payment)	March 31, 2012
Proceedings Paper Submission Deadline (Special Issue of "Chimica nella Scuola")	June 30, 2012

Conference fees (Euros)

	Early Registration before March 31, 2012	Regular Registration April 1 - June 15, 2012	On site Registration
Students and Teachers (with Proof of Status)	200	230	270
Teachers 1 day fee	75	100	125
Regular	300	350	400
Members of Chemical Societies	280	330	380
Developing Countries	200	230	270
Accompanying person	150	200	250

The website

www.iccecrice2012.org

It will be released on the occasion of the CCE Puerto Rico meeting.

In addition to program updates, general information and other news, it will contain procedures for registration, abstracts submission and accommodation reservations.

How to reach us

Rome *Leonardo da Vinci* International Airport in Fiumicino is connected to most European and overseas capitals by direct flights. Several low cost airlines also fly to *Ciampino*, the second airport in Rome. Both airports are conveniently connected to *Stazione Termini* by frequent train and/or bus lines.

Organization

Chairman of the Conference: *Prof. Luigi Campanella*

International Advisory Committee: *all members of IUPAC CCE and EuCheMS Div. Chem. Ed* are kindly invited to join this committee.

Scientific committee

Paola Ambroggi

Liberato Cardellini

Peter Childs

Michele A. Floriano

Morton Hoffman

Peter G. Mahaffy

Ilka Parchmann

Antonella Rossi

Local organizin committee

Mario Beccari

Franco Calascibetta

Gabriele Favero

Andrea Macchia

Giuliano Moretti

Manuela Mostacci

Mariano Venanzi

4 July 2011

prof. Michele A. Floriano

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