



Academia Europaea

23rd Annual Conference

Tuesday 20 – Thursday 22 September 2011, Paris

“Chemistry, Sciences, Culture and Society in the making of Europe”

With the support of the Natural Sciences Section, UNESCO

**Location: UNESCO Headquarters,
125 Avenue de Suffren, Paris 75007
(Metro Line 10, Ségur station)**



Chairs :
Michel Che
Cinzia Ferrini
Igor Tkatchenko

Université Pierre et Marie Curie, Paris, France
Università degli Studi di Trieste, Trieste, Italy
Société Chimique de France, Paris, France

Programme

Monday 19 September

Private Academia Europaea committee meetings
Université Pierre et Marie Curie, Zamansky Tower (floor 23, room 23 00),
4 place Jussieu, 75005 Paris (Métro lines 7 and 10, Jussieu station)

09.00-13.00 Meeting of the nomination subcommittee (sections B1-B5 and C1-C5)

10.30-11.00 Coffee break

13.00-14.00 Lunch

14.00-16.00 Meeting of the nomination subcommittee (sections A1-A10)

16.00-16.30 Coffee break

16.30-19.00 Plenary and Nomination committee

20.00-22.00 Dinner for the Nominations Committee

Academia Europaea Section sessions may be organised at various times of the day

Tuesday 20 September

Private Academia Europaea committee meetings
Université Pierre et Marie Curie, Zamansky Tower,
4 place Jussieu, 75005 Paris (Métro lines 7 and 10, Jussieu station)

09.00-11.30 Board meeting (floor 23, room 23 00)

09.00-11.00 Physics and Engineering (B3) Section Meeting (floor 23, room 23 04)

11.30-13.00 Council meeting (Section Chairs and Board Members only)

13.00-14.30 Lunch

23rd Annual Conference begins
UNESCO Headquarters, 125 Avenue de Suffren, 75007 Paris
(Métro line 10, Ségur station)

- 14.00-17.30** Registration
and time to install and view posters (space adjacent to room 11)
- 15.00-16.30** Annual Business meeting (Academia Europaea members only) (room 11)
- 16.30-17.00 Coffee break*
- Academia Europaea Section sessions may also be organised during the afternoon
- 17.00-19.00** Social Sciences Section - Round table discussion (see page 6 for information)
Sciences, Culture and Society: Mobility and Integration
- 17.30-18.00 Transfer to Université Pierre et Marie Curie (ground floor, 4, place Jussieu,
Métro lines 7 and 10, Jussieu station)
- 18.00-19.30** In the footsteps of Pierre and Marie Curie (Minerals collection/Movie/Exhibition/
Historic Chemical Landmarks)

Wednesday 21 September

Opening session of 23rd Annual Conference of the Academia Europaea
UNESCO Headquarters, (room 11), 125 Avenue de Suffren, 75007 Paris
(Métro line 10, Ségur station)

- 09.00-10.30** Introduction to the conference
Welcome from UNESCO
Welcome from the Academia Europaea President, Lars Walløe
- Academia Europaea Awards**
Erasmus Medal - Sponsored by Heinz-Nixdorf Foundation
Burgen Scholarships
Honorary Memberships
- Introduction of new Members of the Academia Europaea
- 10.30-11.00 Coffee break
& Poster sessions*
- 11.00-12.00 The 2011 Heinz-Nixdorf Erasmus Lecture**
Communication Networks and Social Change
Manuel Castells (Universitat Oberta de Catalunya, Barcelona, Spain)
- 12.00-12.45** The Scientific Challenges to Secure a Sustainable Worldwide Energy Supply
for the 21 Century and beyond
Bernard Bigot (Fondation de la Maison de la Chimie, Paris and CEA, Gif-sur-Yvette,
France)
- 12.45-14.00 Lunch
& Poster sessions*

Session 1: Chemistry Challenges

- 14.00-14.30** From Interesting to Useful: the Contribution of Hybrid Porous Solids to the Society
Gérard Férey (Gold medal CNRS, Université de Versailles, France)
- 14.30-15.00** The World of Colours - From Fundamental Science to Energy and Materials
Vivian W.W. Yam (L'Oréal Foundation & UNESCO 2011 Laureate, Hong Kong University, PR China)
- 15.00-15.30** Chemistry and Energy: Bond and Boundary from Oil to Biomass
Sophie Jullian (IFP Energies Nouvelles, Solaize & Rueil-Malmaison, France)
- 15.30-16.00** Discussion
- 16.00-16.30 Coffee break
& Poster sessions*

Session 2: Chemistry and Life

- 16.30-17.00** Louis Pasteur and Chemistry
Maxime Schwartz (Institut Pasteur, Paris, France)
- 17.00-17.30** Aminoacids and Asymmetry of Life
Uwe Meierhenrich (Université Nice-Sophia Antipolis, France)
- 17.30-18.00** Discussion

Session 3: European Challenges

- 18.00-18.30** Research Networks for Global Sustainability
Angeles Rodriguez Pena (President of COST, Brussels, Belgium)
- 18.30-19.00** Informatics at the Crossroads of Academia Europaea
Hermann Maurer (Technische Universität Graz, Austria)
- 19.00-19.30** Discussion
- Evening Free*

Thursday 22 September

UNESCO Headquarters, (room 11), 125 Avenue de Suffren, 75007 Paris
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Session 4: Chemistry & Society

- 09.00-09.30** Fragrance and Perfume
Thierry Audibert (Givaudan Fragrances, Argenteuil, France)
- 09.30-10.00** Champagne Bubbles
Gérard Liger-Belair (Université Reims, Champagne-Ardenne, France)

10.00-10.30 Discussion

*10.30-11.00 Coffee Break
& Experiment (Chemistry of Perfumes) to illustrate session 4*

Session 5: Chemistry, Peace and War

11.00-11.30 Michael Faraday and the Chemistry of War
Frank James (Royal Institution of Great Britain, London, United Kingdom)

11.30-12.00 Chemistry in the News: British Newsreels and Local Television during
the 1950s and 1960s
Sally Horrocks (University of Leicester, United Kingdom)

12.00-12.30 Discussion

*12.30-14.00 Lunch
& Poster sessions*

Session 6: Chemical Metaphors, Analogies and Transformative Codes in Making the Culture of Modern Europe

14.00-14.30 Transforming Matter, Refining the Spirit: Alchemy, Music and Experimental
Philosophy around 1600
Penelope Gouk (Manchester, United Kingdom)

14.30-15.00 Genii, Homunculi and Golden Pots. Chemistry and Poetical Experiments
around 1800
Wolfgang Pross (Munich, Germany)

15.00-15.30 Discussion

15.30-16.00 From Compass to Molecules, what a Wonderful Magnetic World! (with experiments)
Michel Verdaguer (Université Pierre et Marie Curie, Paris, France)

*16.00-16.30 Coffee Break
& Poster sessions*

Session 7: Chemistry between Natural Beauty and Art History

16.30-17.00 The Beauty of Chemical Imaging
Giorgio Paolucci (Sincrotrone Trieste S. C. p. A., Trieste, Italy)

17.00-17.30 Chemical Analysis and Painted Colors: the Mystery of Leonardo's Sfumato
Philippe Walter (Université Pierre et Marie Curie, Paris, France)

17.30-18.00 Discussion

Session 8: Transforming Social Matter : Chemistry and Civilization

- 18.00-18.30** Chemistry and Archaeology – 200 Years of Interaction
Ernst Pernicka (Institut für Ur- und Frühgeschichte und Archäologie des Mittelalters
Eberhard Karls Universität Tübingen, Germany)
- 18.30-19.00** When Physical Chemistry Meets People: Molecular Gastronomy, its Applications in
Education, Technology and Technique (*with practical demonstrations*)
Hervé This (Institut National de Recherches Agronomiques, Paris, France)
- 19.00-19.30** Discussion
- 19.30-19.45 Closing remarks
Lars Walløe (President, Academia Europaea)
- 20.00-23.30 *Banquet*

Academia Europaea Social Sciences Section
Tuesday 20 September 2011, 17.00-19.00,
Room 6, UNESCO HQ, Paris

Round table discussion:
Sciences, Culture and Society: Mobility and Integration

Organiser & Chair of the meeting:
Anne Buttimer (University College Dublin, anne.buttimer@ucd.ie)

Local Organiser & Convenor:
Anne-Marie Guillemard (Paris Descartes Sorbonne, amg@ehess.fr)

Speakers:

Maria Paradiso (University of Sannio, Benevento, paradiso@unisannio.it)
Mobility and North African democratic movements: The role of ICTs

The paper presents a field study carried out at the Italian Lampedusa island in March 2011, focusing on the first station of incoming migrants and aiming at investigating the exposure of migrants to information and communications technologies (ICTs) while still in their North-African countries of origin, and the influence of ICTs on recent democratic movements and mobility. In Lampedusa one can observe a flow of young and secular migrants who demonstrate three distinct profiles of mobility. New ICTs (Internet, facebook, mobile phones, and digital cameras) are shown to constitute factors of integration for migrants in new societies, even for people with low educational qualifications living in disadvantaged and rural areas. Migrants' image of Europe as a 'transparent' society and their search for peer conditions in society should be incorporated in discussions leading to hopefully more unified European policies for mobility and integration, also in collaboration with Mediterranean neighbours.

Peter Nijkamp (VU University, Amsterdam, pnijkamp@feweb.vu.nl)
Strangers on the Move: Advances in Migration Impact Analysis

The paper addresses the need for a quantitative migration impact assessment, and focuses in particular on the international impacts of migrants in a given counters, i.e., trade, tourism and FDI. It will be a mix of a review and recent empirical findings. It concludes that migration contributes significantly to the openness of a country and hence to extensive welfare benefits.

Sture Oberg (Uppsala University, nils.sture.oberg@gmail.com)
Migration and Policy Making in Europe

A short introduction will include an overview of migration flows through the European history. Explanations and disciplinary research on present international flows will be discussed in relation to available information. What do we really know and where are the more important knowledge gaps? Policy measures used to stimulate or restrict international migration flows will be presented, with examples from theoretical literature and debate. A novelty will be a presentation of an early theoretical study, probably the earliest, of the relation between migration and policy measures. This study is not known in the history of migration theory.