



**Final Meeting of COST Action D29 on  
Sustainable/Green Chemistry and Chemical Technology**

**Co-Chairmen**

**István T. Horváth**  
*Eötvös University  
Budapest, Hungary*

**Roger Sheldon**  
*Delft University of Technology  
Delft, The Netherlands*

**June 29-30, 2007  
Delft University of Technology  
Delft, The Netherlands**

## Friday, June 29

*Aula, Delft University of Technology*

### **Introductory Remarks** **13:00 – 13:30**

István T. Horváth, Eötvös University, Hungary  
Roger Sheldon, Delft University of Technology, The Netherlands

### **Session 1** **13:30 – 15:30**

Discussion Leader: Roger Sheldon, Delft University of Technology, The Netherlands

**13:30 – 14:00**      **Applications of Soluble Polymers in Organometallic Catalysis**  
Frédéric Lamaty  
Université de Montpellier, France

**14:00 – 14:30**      **Application of Ionic Liquids in Organic Electrochemistry and Bioelectrochemistry**  
Andrew Doherty  
Queen's University of Belfast, Northern Ireland

**14:30 – 15:00**      **Reactivity of Ruthenium-Arene Containing Organometallic Oxides**  
Richard Villanneau  
Université Pierre et Marie Curie - Paris 6, France

**15:00 – 15:30**      **New Fluorous Media and Processes for Cleaner and Safer Chemistry**  
Benoit Crousse  
Faculty of Pharmacy, BioCIS, France

**Break** **15:30 – 16:00**

### **Session 2** **16:00 – 18:00**

Discussion Leader: István T. Horváth, Eötvös University, Hungary

**16:00 – 16:30**      **New PEG-based Supports and Synthetic Applications**  
Gian Maria Bonora  
University of Trieste, Italy

**16:30 – 17:00**      **New Trends and Perspectives in AOP's Application: Integration of Management Systems**  
Jaime Gimenez  
Barcelona, Spain

**17:00 – 17:30**      **Selective Hydrogenations and Oxidations of Organic Substrates**  
Luca Gonsalvi  
ICCOM-CNR, Florence, Italy

**17:30 – 18:00**      **Overview on Pro-Design Principles of the Environmentally Sustainable Products**  
Petri Peltonen  
TKK Lahit Center, Finland

**Dinner** **19:00 – 21:30**

## **Saturday, June 30**

**Biotechnology Building, Julianalaan 67, Delft**

**Session 3** **8:30 – 10:30**  
Discussion Leader: Pietro Tundo, Università Ca' Foscari di Venezia, Italy

**8:30 – 9:00**      **Synthesis of dmPTA and Its Complex [RuClCp(HdmoPTA)(PPh<sub>3</sub>)] (CF<sub>3</sub>SO<sub>3</sub>) (dmPTA = N,N'-dimethyl-1,3,5-triaza-7-phospha-adamantane; HdmoPTA = 3,7-H-3,7-dimethyl-1,3,7-triaza-5-phosphabicyclo[3.3.1]nonane)**  
Antonio Romerosa  
Universidad de Almería, Spain

**9:00 – 9:30**      **Development of New Electrode Materials and Electrocatalysts in Green Electrochemistry**  
Christopher Brett  
University of Coimbra, Portugal

**9:30 – 10:00**      **Feruloyl Esterases as a Tool for Chemoenzymatic Reactions**  
Christina Vafiadi  
National Technical University of Athens, Greece

**10:00 – 10:30**      **The Use of Fluorous Phase for Halogenations with Molecular Halogens and Polyvalent Iodine Halides**  
Jernej Iskra  
Jozef Stefan Institute, Ljubljana, Slovenia

**Break** **10:30 – 11:00**

**Session 4** **11:00 – 12:30**  
Discussion Leader: Javier Caldentey, COST Office, Belgium

**11:00 – 11:30**      **Electrochemistry and Reactivity of Linear Chains Composed of Ruthenium and Osmium Carbonyl Bipyridine Units**  
Frantisek Hartl  
University of Amsterdam, The Netherlands

**11:30 – 12:00**      **Oxidative photocatalysis: Design and characterization of inorganic materials for selective reactions**  
A. Maldotti, University of Ferrara, Italy

- 12:00 – 12:30**      **Electronic Spectra of Osmium and Ruthenium Complexes Containing Diimines: a DFT and TD-DFT Study**  
Maria Jose Calhorda, University of Lisbon, Portugal
- Lunch**      **12:30 – 13:30**
- Session 5**      **13:30 – 15:30**  
Discussion Leader: Matyn Polliakoff, University of Nottingham, United Kingdom
- 13:30 – 14:00**      **Organic-Inorganic Hybrid Polyoxometalates as New Catalysts for Sustainable Oxidations**  
Mauro Carraro  
University of Padova, Italy
- 14:00 – 14:30**      **Hemicellulose from Soft-wood: Extraction and Modification for Novel Applications**  
Henrik Stalbrand  
Lund University, Sweden
- 14:30 – 15:00**      **Mechanism of Polyoxometallate Photocatalysis: Some Recent Results**  
Charles Tanielian  
Ecole Européenne de Chimie Polymères et Matériaux de Strasbourg, France
- 15:00 – 15:30**      **Overview of the Actions of COST Action D29**  
István T. Horváth  
Eötvös University, Budapest, Hungary
- Session 6 – WG Posters with Coffee**      **15:30 – 17:00**
- Liquid-Phase Organic Synthesis Supported on Soluble Polymers (WG-0005/03)**  
Frédéric Lamaty  
Université de Montpellier, France
- Green Organic Electrochemistry (WG-0006/03)**  
Jean-Yves Nédélec  
Université Paris 12, France
- Production and Functionalization of Hemicelluloses for Sustainable Advanced Products (WG-0008/03)**  
Henrik Stalbrand  
Lund University, Sweden
- Green Chemistry through Aqueous Organometallic Chemistry (WG-0009/03)**  
Ferenc Joó  
University of Debrecen, Debrecen, Hungary
- Making photocatalysis useful for synthesis (WG-0010/03)**  
Angelo Albini  
University of Pavia, Italy

**New Fluorous Media and Processes for Cleaner and Safer Chemistry (WG-0011/04)**

Benoit Crousse

Faculty of Pharmacy, BioCIS, France

**Synthesis and Catalytic Activity of Carbonyl Containing Linear Chain  
Transition Metal Compounds (WG-0012/04)**

Matti Haukka

University of Joensuu, Finland

**Chiral ionic liquids and IL-like ligands in asymmetric transformations (WG-0015/04)**

Cedric Fischmeister,

**Novel Sustainable Metal Catalysed Oxidations with H<sub>2</sub>O<sub>2</sub> and O<sub>2</sub> (WG-0016/04)**

Valeria Conte

University of Roma Tor Vergata, Italy

**COST Action D29 in Action**

István T. Horváth

Eötvös University, Budapest, Hungary

**Round-table Discussion** **17:00 – 18:00**

Discussion Leader: István T. Horváth, Eötvös University, Budapest, Hungary

**Closing Remarks** **18:00 – 18:15**

Roger Sheldon, Delft University of Technology, Budapest, The Netherlands

István T. Horváth, Eötvös University, Budapest, Hungary

**Dinner** **19:00 – 21:00**

**Sunday, July 1**

**Biotechnology Building, Julianalaan 67, Delft**

**8<sup>th</sup> Management Committee meeting** **9:00 – 12:00**

**Daft Agenda**

1. Welcome to participants and adoption of the Agenda
2. Approval of the Minutes of the 7<sup>th</sup> MC meeting held in Leipzig
3. Conclusions from the evaluation of the Action and the Working Group projects
4. Report from the Science Officer
  - News from the COST Office
  - General information from the COST Chemistry
5. WG meetings and STSMs - Final report from the Chair
6. Publications, final report and evaluation reports
7. Any other business

**Lunch** **12:00 – 13:00**