

Day/Chairperson	Monday May 4 th , 2009/Keiski	Tuesday, May 5 th , 2009/Mäntylä	Wednesday, May 6 th , 2009/Pehkonen	Thursday, May 7 th , 2009/Peterka	Friday, May 8 th , 2009/Alatalo
09:00 – 09:45 Monday May 4 th at 9.15	Welcome and orientation (Prof R. Keiski, Univ. Oulu, Finland);	Heterogeneous photocatalysis coupled with other purification technologies for the purification of aqueous effluents (Prof. L. Palmisano)	TiO ₂ photocatalysis on the oxidative degradation of organic compounds in water (Prof. P. Pichat, URA at CNRS no. 1385, France)	Hydrogen production and the role of photocatalysis (Prof. K.L. Kovács, University of Szeged, Hungary or Prof. Bouda or NN) (to be confirmed)	Ab initio methods (Prof. R. Car or Prof. K. Laasonen, University of Oulu, Department of Chemistry, Finland or Prof. M. Alatalo, Lappeenranta University of technology, Finland) (to be confirmed)
09:45 – 10:30	Brief introduction to portfolio learning (Lic.Tech. E. Heikkinen, Univ. Oulu, Finland)	Selective heterogeneous photocatalysis by TiO ₂ for green innovative organic syntheses: achievements and challenges. (Prof. L. Palmisano)			
10:30 – 10:45	Coffee	Coffee	Coffee	Coffee	Coffee
10:45 – 11:45	Researcher education and research ethics (Prof. R. Keiski, Univ. Oulu, Finland)	Photocatalysis and sustainability (Prof. R. Keiski, University of Oulu, Finland)	Photocatalytic applications, standardization and testing methods (Dr. F. Peterka, Centre for Nanosurface Engineering Advanced Technology Group Prague, Czech)	Supported TiO ₂ an Fenton Photocatalysis on glass, functional polymer films, non-functional polymer films and non woven-fabrics active for industrial waste water treatment (Dr. John Kiwi, Swiss Federal Institute of Technology, EPFL-ISTE/LBE, Swizerland)	First principles modeling of TiO ₂ surfaces (Prof. A. Selloni, University of Princeton, USA)
11:45 – 13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00 – 14:00	Photocatalysis and preparation of photo-catalysts industrial approach: (Dr. Tuomas Aitasalo, Sachtleben Pigments Oy, Pori Finland)	Aqueous Phase Degradation of Pesticides and Herbicides via TiO ₂ Photocatalysis (Prof. D. Bahnemann, University of Hannover, Germany)	Photocatalytic applications, standardization and testing methods (Dr. F. Peterka, Centre for Nanosurface Engineering Advanced Technology Group Prague, Czech)	TiO ₂ -coated glass for self-cleaning applications (Prof. P. Pichat, URA at CNRS no. 1385, France)	Gold nanostructures on TiO ₂ surfaces (Prof. A. Kiejna, Wroclaw University, Poland)
14:00 – 15:00	Chemical Physics of Nanostructured Semiconductors (Prof. D. Bahnemann, University of Hannover, Germany)		Innovative textile fabrics with self-cleaning and bactericide properties. Photocatalytic and dark processes (Dr. John Kiwi, Swiss Federal Institute of Technology, EPFL-ISTE/LBE, Swizerland)	TiO ₂ -coated glass for self-cleaning applications (Prof. P. Pichat, URA at CNRS no. 1385, France)	Coffee Final discussion (Dr. Peterka, Prof. Alatalo, Prof. Keiski) Instructions for examination and Closing remarks (Prof. Keiski)
15:00 – 15:15	Coffee	Coffee	Coffee	Coffee	
15:15 – 16:00	Preparation of TiO ₂ photocatalysts for controlling of fouling of surfaces (Prof. T. Mäntylä, Tampere University of Technology, Finland)	Light Intensity Distribution in Homogeneous and Heterogeneous Photoreactors (Dr. S. Pehkonen, University of Oulu, CEWIC, Finland)	Portfoliowork in small groups Time for COST Action P19 MC meeting	Discussion on joint FP7 project on photocatalysis (Dr. Peterka, Dr. Pehkonen, Prof. Keiski) All lecturers and participants are invited	
16:30 – 17:00	Discussion (Dr. Peterka)	Discussion (Dr. Peterka)			
17:15 – 19:30	Get Together Party				

19:00 –			Dinner	Trip to... or Oulu Sinfonia: Dahl and wind players, Madetoja hall	

Programme on COST Action Training School 'Environmental Applications of TiO₂ Photocatalysis

University of Oulu, Oulu, Finland, May 4-8,2009

By COST Actions 540, 543 and P19