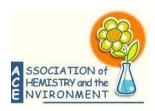
4th European Meeting on Environmental Chemistry

Plymouth, England 10 - 13 December 2003

Scientific Programme





Wednesday 10th December

17:00-19:30 WELCOME DRINKS RECEPTION AND REGISTRATION,

AND ASSEMBLY OF POSTERS

Thursday 11th December

08:45-09:00 WELCOME AND OPENING OF CONFERENCE

09:00-09:40 **KEYNOTE ADDRESS**

Professor Walter Giger

Occurrence and Fate of Antibiotics as Trace Contaminants in Wastewaters, Sewage Sludges and Surface Waters

Page 3

09:40-10:20 ORAL SESSION - Detection and Toxicity of Environmental Organic Contaminants

(Chaired by Prof. W. Giger, Swiss Federal Institute of Environmental Science and

Technology, Switzerland)

1835 - Impedance Measurements as a Tool for the Detection of Endocrine
Disrupting Pollutants

Page 7

Vered Sacks-Granek, Israel

Judith Rishpon, Israel

1846 - Toxicity and characterisation of unresolved complex mixtures of

hydrocarbons

Emma Smith, UK Paul Sutton, UK Steve Rowland, UK Peter Donkin, UK

10:20-10:50 COFFEE BREAK

10:50-12:10 ORAL SESSION - Pollution Remediation

(Chaired by Prof. M. Aresta, University of Bari, Italy)

1821 - Electrochemically Assisted Fenton Reaction for Treatment of Aqueous
Triphenylmethane Dyes Solutions Page 11

Triphenylmethane Dyes SolutionsElodie Guivarch, France
Nihal Oturan, France

Mehmet A Oturan, France

	1866 - Catalytic Destruction of Chlorinated Organics over V ₂ O ₅ /TiO ₂ -Based Catalysts Page 1. S Albonetti, Italy S Augustine, Italy Sonia Blasioli, Italy A Malandra, Italy S Scirè, Italy F Trifirò, Italy
	1753 - Analysis of the use of Collagen Fibrils to Accelerate the Dewatering of Sludge Page 19 Gennaro J Maffia, USA John Davis, USA
	1868 - Crab Carapace: A low-cost Biosorbent for the Removal of Toxic Metals from Aqueous Solutions Page 19 lan Rae, UK Stuart Gibb, UK Shuguang Lu, UK
12:10-13:10	LUNCH
13:10-13:50	VIEWING OF POSTERS AND DISCUSSIONS WITH PRESENTERS
13:50-15:30	ORAL SESSION - Pollutant Cycling in Soils Chaired by Dr E. Lichtfouse, INRA-CMSE, France)
	1764 - Cyclodextrin-Enhanced Solubilization and Removal of Pentachlorophenology
	1839 - The Fate and Behaviour of Veterinary Antibiotics Applied to Soil in Manure Paul Blackwell, UK Paul Kay, UK B Boxall, UK
	1789 - N M R Studies of Interactions between Organic Pollutants and Soil Components: A Mini Review Page 1. Anne-Marie Delort, France Bruno Combourieu, France N Haroune, France P Besse, France Martine Sancelme, UK
	1872 - ³¹ P-NMR Investigations of Phosphate Sorption Reactions in the Soil Stefan Hunger, Germany Donald Sparks, USA Page 2
	1765 - Involvement of Soil Microflora in the Formation of Pesticide Bound Residues Page 2 Marie-Paule Charnay, France Christian Mougin, France Adrien Farrugia, France Enrique Barriuso, France
15:30-16:00	COFFEE BREAK

16:00-17:20	DRAL SESSION - Ecotoxicology Chaired by Prof. S. Rowland, University of Plymouth, UK)	
	879 - New Bioassay to Evaluate Toxicity of Chemical Pollutants us Luminescent Bacteria Vibrio Fischeri Elena Fulladosa, Spain Jean-Claude Murat, France Isabel Villaescusa, Spain	ing the Marine <i>Page 25</i>
	803 - Impact of Styren on Lysosomal Stability in Mussel Blood Cel E Mamaca, France Stéphane Le Floch, France	ls Page 26
	 781 - Monitoring of Selected Steroidal Hormones and Estrogen Ac Chemicals within the ARCEM Project Philipp Hohenblum, Austria O Gans, Austria G Lorbeer, Austria W Moche, Austria S Scharf, Austria 	tive Industrial Page 27
	807 - Risk Assessment for Birds Feeding on Invertebrates in Dipha Rodenticide Baited Areas on Hawaii J J Johnston, USA W C Pitt, USA R T Sugihara, USA J D Eisemann, USA T M Primus, USA	acinone <i>Page</i> 28
17:20-17:25	Presentation of EMEC5 (Prof. M. Aresta, University of Bari, Italy)
17:25-17:30	Presentation of EMEC6 (Dr B. Jovancicevic, University of Belgra	ade, Yugoslavia)
18:00	POSTER DRINKS RECEPTION	
Friday 12th Do	<u>ember</u>	
09:00-09:40	KEYNOTE ADDRESS Professor Ron Beckett Characterisation of Environmental Particles and Macromoleo by Field-Flow Fractionation	cules <i>Page</i> 29
09:40-10:20	DRAL SESSION - Particle Chemistry Chaired by Prof. R. Beckett. Monash University, Australia)	
	900 - Imaging Natural Aquatic Colloids and Particles by Environme Electron Microscopy Paul Redwood, UK Jamie Lead, UK	ental Scanning Page 33
	883 - Phosphate-Carbonate Interactions With Iron Oxides R Rahnemaie, The Netherlands Tjisse Hiemstra, The Netherlands Willem H. van Riemsdijk, The Netherlands	Page 34
10:20-10:50	COFFEE BREAK	
10:50-12:10	DRAL SESSION - Clean Technology Chaired by Dr S. Gibb, Highland Research Institute, Scotland, UK)	

	1917 -	Enhanced Fixation of Carbon Dioxide into Macroalgae used as So Chemicals and Fuels Michele Aresta, Italy E Cecere, Italy A. Dibenedetto' Italy M Narracci, Italy A. Petrocelli, Italy C Perrone, Italy	urce of <i>Page</i> 37
	1880 -	Interaction Between Fungal Inoculant and Pesticide Affects Micro Respiration and Enzyme Activities in Soil Microsms Silvia Fragoeiro, UK Naresh Magan, UK	bial <i>Page</i> 38
	1800 -	Trapping and Immobilization of Toxic Elements (cr, Ni, Cu, Zn) by Pseudomonas SP. During the Alteration of Waste Confinement Matrix Georges Aouad, France Valerie Geoffroy, France Jean-Marie Meyer, France Jean Louis Crovisier, France Peter Stille, France	Page 39
	1910 -	Are Zeolites Capable Of Modifying The Yield Of Marine Micro-Alga Cultures? – A Case Study With <i>Emiliania huxleyi</i> And a Zeolitic-Nature Product Adriano Fachini, Portugal M Teresa S D Vasconcelos, Portugal	e Page 40
12:10-13:10	LUNCH	ł	
13:10-13:50	VIEWIN	NG OF POSTERS AND DISCUSSIONS WITH PRESENTERS	
13:50-15:10		SESSION - Atmospheric Chemistry and Air Pollution ed by Dr C. Collins, Imperial College London, UK)	
	1848 -	Comparison of Collection Substrates for Automated Individual Analysis of Atmospheric Particles by Sem-Eds Marie Choël, France Karine Deboudt, France Pascal Flament, France János Osán, Hungary	Page 43
	1832 -	Nitrous Oxide Decomposition over Copper Doped Mixed Lanthanide Oxides M Morris, Ireland J C Wenger, Ireland Eoin Brennan, Ireland	Page 45
	1801 -	Coadsorption at the Air-Water Interface Likely Explains some Pollutants Transfer to the Atmosphere: Benzene and Lead Case Mustapha Sadiki, France François Quentel, France Catherine Elléouet, France Jean-Pierre Hufuguen, France Jacques Jestin, France Dominique Andrieux, France René Olier, France Mireille Privat, France	Page 46

	1895 -	Combined use of Compound Specific $\delta^{13}{\rm C}$ and δD Stable Isotope Measurements to Aid the Source Apportionment of PAH Mick Cooper, UK C G Sun, UK C E Snape, UK	Page 47			
15:10-15:40	COFFEE BREAK					
15:40-17:20	ORAL SESSION - Water Pollution: Detection and Treatment (Chaired by Dr A-M Delort, CNRS-Universite Blaise Pascal, France)					
	1760 -	Impact of Metal Coagulant (Aluminium or Iron) over UV Disinfection of Storm Flow P Sauvignet, UK G Glasgow, UK B Morrow, UK C White, UK	Page 51			
	1877 -	Dgt as a Tool for the Assessment of Bioavailable Metals in Wastewater Rémy Buzier, France Marie-Hélène Tusseau-Vuillemin, France Jeanne Garric, France Jean-Marie Mouchel, France	Page 52			
	1782 -	Biodegradability Improvement Using Advanced Chemical Oxidation at High Temperature in High Polluted Effluents J Sanz, Spain J Lombraña, Spain F Varona A Urkiaga	Page 53			
	1787 -	Use of Electronic Nose Technology for the Detection of Microbial Chemical and Contaminates in Water Olinda Canhoto, UK Naresh Maga, UK	Page 54			
	1894 -	Distribution of PAH in Baltic Sediments and Water Column Uuve Kirso, Estonia Lia Paalme, Estonia Martin Voll, Estonia	Page 55			
19:00	DEPART BY COACH FROM THE ENTRANCE OF THE MOAT HOUSE HOTEL FOR CONFERENCE DINNER AND DISCO AT KITLEY HOUSE					
Saturday 13th	Decemb	<u>oer</u>				
09:00-10:00	ORAL SESSION - Marine Chemistry and Marine Pollution (Chaired by Prof. P. Worsfold, University of Plymouth, UK)					
	1778 -	Remarkable Changes in the Trace Metal Speciation in Esturaine Sediment caused by Juncus Maritimus Ana Mucha, Portugal Marisa Almeida, Portugal Teresa Vasconcelos, Portugal	Page 59			
	1837 -	Mercury in Suspended Material of Water Ecosystems Yury Fedorov, Russia	Page 60			

	1855 - Biogeochemical Cycling of Dissolved Organic Carbon (DOC) and Dissolved Organic Nitrogen (DON) in the Plym Estuary, Southwest England El-Sayed Badr, UK Eric Achterberg, UK Alan Tappin, UK Steve Hill, UK	Page 61		
10:00-10:30	ORAL PRESENTATION BY ACE YOUNG RESEARCHER OF THE YEAR (20 Davide Vione)	003 winner		
	1806 - Phenol Nitration and Photonitration in Aqueous Solution Davide Vione, Italy Valter Maurino, Italy Claudio Minero, Italy Ezio Pelizzetti, Italy	Page 44		
10:30-11:00	COFFEE BREAK			
11:00-12:20	ORAL SESSION - Analytical Methods in Environmental Science (Chaired by Dr J. Schwarzbauer, Aachen University, Germany)			
	1930 - A Single Injection Screening Method for Tetre-Octa Chlorinated PCDD/F's in Fish and Flyash Matrices using GC-Triple Quadrupole MS/MS Keith Worrall, UK Anthony Newton, UK Ramesh Rao, UK David Wood, UK	Page 65		
	1759 - Optical Sensor for Seven Sulfonamides in Drinking, Ground and Surface Water with Difficult Matrices Jens Tschmelak, Germany Michael Kumpf, Germany Guenther Proll, Germany Guenter Gauglitz, Germany	Page 66		
	1867 - Radiocarbon as an Inverse Tracer of Fossil Fuel-Derived Contaminants in Sediments Helen White, USA Christopher Reddy, USA Timothy Eglinton, USA	Page 67		
	1893 - General Problems Related to the Analysis of Polycyclic Aromatic Hydrocarbons in Water - Experiences of a Proficiency Test Provider Patricia Schubert-Ullrich, Austria Rainer Schuhmacher, Austria Wolfgang Kandler, Austria Rudolf Krska, Austria	Page 68		
12:20	CLOSE OF CONFERENCE			
12:30	LUNCH			