

## INTERACT 2006 POSTERS

### ANALYTICAL

**Direct Spectrophotometric Determination of Inorganic Phosphonate, Glyphosate, and its Metabolite Aminomethyl-Phosphonic Acid Using Flow Injection Analysis**

Abdurahman Anod (RMIT University, VIC)

**Improved Traceability for Measurements of the Stable Isotopic Composition of Atmospheric Carbon Dioxide**

Colin Allison (CSIRO Marine & Atmospheric Research, VIC)

**Forensic Analysis of Adhesive Tapes by GCMS, GCIRMS and PCA of Their Oil Component**

Nurhuda Aziz (Curtin University of Technology, WA)

**Analysis of Organotin Using GC-ICP-MS**

Luke Baker (The National Measurement Institute, NSW)

**Determination of an Alternative Probe to Chromate for the Indirect Detection of Inorganic Anions Using Light Emitting Diode Detection**

Peter Balding (Edith Cowan University, WA)

**Reduction of Ash Fouling From Brown Coal Combustion and Gasification**

Pietro Barilla (Latrobe University, VIC)

**Application of Solid-Phase Microextraction Gas Chromatography in Monitoring the Aroma of Black Truffles**

Mary Boyce (Edith Cowan University, WA)

**Extraction of Lipids by Accelerated Solvent Extraction**

Saman Buddhadasa (National Measurement Institute, VIC)

**Investigations into the Mechanism of the Recovery of Erased Characters on Polymers with Eugenol**

Karl Burke (Curtin University of Technology, WA)

**National Measurement Institute (NMI) Assisting the WA Resources Industries**

Oana Chirila (National Measurement Institute, WA)

**Monitoring of Wine Production at Pirramimma**

Shona Clark (Deakin University, VIC)

**Status of Testing and Measurement of Allergen Proteins in Food**

Dean Clarke (National Measurement Institute, VIC)

**The Development and Validation of an Holistic Method for Profiling Methamphetamine Samples**

Hannah Crisp (Curtin University of Technology, WA)

**Separation of Food Grade Antioxidants by Microemulsion Electrokinetic Chromatography**

Vishal Darji (Edith Cowan University, WA)

**Non Destructive Identification of Alterations ;and Additions on Written Documents by Infrared and Raman Microscopy**

Michael Dias (Curtin University of Technology, WA)

**Identification of Controlled Substances by Means of Infrared Attenuated Total Reflectance and Raman Spectroscopy**

Ching Yong Goh (Curtin University of Technology, WA)

**<sup>13</sup>C/<sup>12</sup>C isotope Fractionation of Simazine During Biodegradation**

Kliti Grice (Curtin University of Technology, WA)

**Applications of Capillary Electrophoresis to Forensic Analysis**

Michael Grocott (Curtin University of Technology, WA)

**Analysis of Low Level Bromate in Water**

Anita Gupta (National Measurement Institute, WA)

**Quantitation of Breast Milk by Fourier Transform Infrared Spectrophotometry**

Mark Hackett (Curtin University of Technology, WA)

**Human influence on Holocene Environmental Change in the Yangtze River Delta: a Combined Biomarker,  $\delta D$ ,  $\delta^{13}C$ ,  $^{14}C$ , Pollen and Phytolith Approach**

Erin James (Curtin University of Technology, WA)

**Spectroscopic Investigations of Genipin as a Reagent for the Visualisation of Latent Prints**

Renee Jelly (Deakin University, VIC)

**Applications of Vibrational Spectroscopy to Forensic Analysis**

Alasdair Lee (Curtin University of Technology, WA)

**Arsenic Distribution and Speciation Association With Mining Using Synchrotron-Induced X-ray Absorption Spectroscopy**

Barry Noller (The National Research Centre for Environmental Toxicology, QLD)

**Development and Validation of a selective and Robust LC-MS/MS Method for High Through-Put Quantifying Rizatriptan in Small Plasma Samples: Application to a Clinical Pharmacokinetic Study**

Yaju Pan (School of Pharmacy, Second Military Medical University, PR China)

**Development of a Sensor for Hydrocarbon Detection**

Bobby Pejic (CSIRO Petroleum, WA)

**Monitoring of Pesticide Residues in Food**

Mala Santhakumar (National Measurement Institute, VIC)

**Characterisation of Flavonol Conjugates in Pak Choi (Brassica Rapa L.SSP.Chinensis L.(Hanelt.) CV Sumo) By HPLC UV Diode-ARRAY/ESI MS"**

Victor Craige Trenerry (DPI - Werribee Centre, VIC)

**Identification of Bear Bile Products Using GC-MS and LC-MS**

Robert Trengove (Murdoch University, WA)

**Determination of Iodine Levels in Food by ICPMS**

Stavros Tzardis (National Measurement Institute, VIC)

**Investigations into Decomposition Chemistry and the Estimation of Time Since Death**

Lisa Verbiest (Curtin University of Technology, WA)

**The Comparative Performance of Redox Processes During Flow Analysis of Selenium Species by Atomic Spectrometry**

Wei Hong Wang (University of South Australia)

**Oxide Photocatalysts for Environmental Clean-up**

Zou Zhigan (Ecomaterials & Renewable Energy Research Center, Nanjing University China)

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### ATMOSPHERE

<b>A Re-Evaluation of Nitrous Oxide Emissions From Australian Agro-Ecosystems</b>	Ian Galbally (CSIRO Marine & Atmospheric Research, VIC)
<b>Trends in Near-Surface Ozone at Cape Grim and in the Southern Hemisphere Troposphere</b>	Ian Galbally (CSIRO Marine & Atmospheric Research, VIC)
<b>Levoglucosan as a Biomarker for Wood Smoke Inhalation</b>	Masooma Trout (National Measurement Institute, NSW)
<b>A Biochemical Gas-Senor (Bio-Sniffer) for Formaldehyde Vapor as a Major Volatile Organic Compound</b>	Kohji Mitsubayashi (Tokyo Medical and Dental University, Japan)
<b>An Investigation of Polycyclic Aromatic Hydrocarbons in Perth Metropolitan Ambient Air Using an Accelerated Solvent Extraction Technique</b>	Karyn Pratt (Chemistry Centre (WA))
<b>Pilot Study on Lawn Mower Emissions</b>	Stephen Tapper (Queensland Health Scientific Services)
<b>Direct Quantification of Germination-Active Butenolide Levels in Smoke</b>	Robert Trengove (Murdoch University, WA)

### ECOTOXICOLOGY

<b>Which Indicators? Redefining a New Strategy to Assess Quality of Water Ecosystems in Italy</b>	Antonella Arcangeli (APAT, ITALY)
<b>The Use of SE-75 to Determine Selenium Assimilation Pathways in the Marine Bivalve Anadara Trapezia</b>	Clare Atkinson (University of Wollongong, VIC)
<b>Use of Chemical and Ecotoxicological Approaches to Assess Groundwaters Contaminated with Volatile Organic Compounds</b>	Monique Binet (CSIRO Land and Water, NSW)
<b>Ecological Consequences of Copper Contamination in Macroalgae: Effects on Epifauna and Associated Herbivores</b>	Robert David (School of Biological, Earth and Environmental Sciences University of New South Wales)
<b>Analysis of Estrogens in Dairy Shed Effluent</b>	Jennifer Gadd (University of Canterbury, NZ)
<b>Dioxins in Fish and Prawns From Sydney Harbour NSW Australia: Distribution, Sources and Biology</b>	Therese Manning & Anthony Roach (NSW Department of Environment)
<b>Imposex in Thais Orbita in Perth Coastal Waters, 2005 Survey</b>	Marthe Monique Gagnon (Curtin University of Technology, WA)
<b>Development of Monitoring Techniques to Assess Environmental and Health Risks From Pesticides in the Paddy Field Ecosystem of North-Eastern Thailand</b>	Barry Noller (The National Research Centre for Environmental Toxicology, QLD)
<b>A Study of Termite Foraging Responses With Protective Barrier Systems Containing Bifenthrin</b>	Barry Noller (The National Research Centre for Environmental Toxicology, QLD)
<b>Dietary Uptake of Zinc in Otoliths of Juvenile Pink Snapper (Pagrus Auratus)</b>	Melinda Ranaldi (Curtin University of Technology, WA)
<b>Determination of Endocrine Disrupting Chemicals, Pharmaceuticals and Other Chemicals of Concern in Water by Liquid Chromatography-Tandem Mass Spectrometry</b>	Zdzislaw Edward (Ted) Spadek (Chemistry Centre (WA))
<b>Ecotoxicology of MgSo<sub>4</sub> in Magela Creek, Northern Territory: The Final Chapter</b>	Rick Van Dam (Environmental Research Institute of the Supervising Scientist, NT)
<b>Endocrine Disruption in Male Gambusia Holbrooki Inhabiting Wetlands in the Swan Coastal Plain</b>	Diane Webb (Curtin University of Technology, WA)

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### ELECTROCHEMISTRY

<b>Calixarenes as Potential Ionophores for Thallium Detection</b>	Ryan Chester (Curtin University of Technology, WA)
<b>An Electrochemical Impedance Spectroscopy and Secondary Ion Mass Spectrometry of Solid-Contact Ion-Selective Electrodes</b>	Graeme Clarke (Curtin University of Technology, WA)
<b>Discharge Rate Capabilities of the AgCuO<sub>2</sub> Cathode</b>	Timothy Jones (University of Newcastle, NSW)
<b>Manganese Oxides Prepared Using Ultrasonication and Their Application in Electrochemical Capacitors</b>	Benjamin Jones (University of Newcastle, NSW)
<b>Manganese Oxides for Power Sources Prepared by Hydrothermal Decomposition of Permanganate</b>	Benjamin Jones (University of Newcastle, NSW)
<b>Electrocatalytic Oxidation and Sensitive Detection of Estradiol at a Carbon Nanotube-Modified Electrode Coated by Nickel Macrocylic Complex</b>	Xiaoqiang Liu (Macquarie University, NSW)
<b>Surface and Porosity Characterization of Manganese Dioxide</b>	Aaron Malloy (University of Newcastle, NSW)
<b>Chronoamperometric Characterization of Manganese Dioxide Discharge</b>	Aaron Malloy (University of Newcastle, NSW)
<b>Novel Biosensors Employing Blocked Interface Polymeric Ion-Selective Electrodes</b>	Andrew Ng (Curtin University of Technology, WA)
<b>The Role of the Electronic Conductor in the Self-Discharge of the NiOOH Electrode</b>	Ewen Skipworth (University of Newcastle, NSW)
<b>NiOOH Electrode Stabilization Through the Use of Dopants</b>	Ewen Skipworth (University of Newcastle, NSW)
<b>Electrochemistry of THE I<sup>+</sup>/I<sub>3</sub><sup>-</sup> and SeCN<sup>-</sup>/(SeCN)<sub>3</sub><sup>-</sup> redox couples in Ionic Liquids</b>	Stevanus Sukardi (Monash University / CSIRO Minerals, VIC)
<b>A Combined X-ray Reflectometry/Neutron Reflectometry Study of Water Layers in Solid-Contact Polymeric Ion-Selective Electrodes (ISEs)</b>	Jean-Pierre Veder (Curtin University of Technology, WA)

### ENVIRONMENT

<b>Algal Activity in the Swan and Canning Rivers</b>	Peter Anstis (National Measurement Institute, WA)
<b>Development of Anaerobic Biodegradation Test for Drilling Fluids Under Australian Conditions</b>	Sajida Bakhtyar (Curtin University of Technology, WA)
<b>Low Level Mercury Analyses in Soil, Fish, Fresh and Saline Water</b>	Geoff Firms (National Measurement Institute, WA)
<b>A Simple Method for the Determination of Trace Metal Speciation in Natural Waters</b>	Leigh Hales (CSIRO Land & Water, NSW)
<b>Sorption of Bifenthrin in Soils of N.E. Thailand and its Effect on Invertebrates</b>	Amanda Hasthorpe (The University of Queensland)
<b>Methods for the Determination of Petroleum Hydrocarbon Contamination (TPH/BTEX) in the Environment</b>	Koon-Bay Ho (National Measurement Institute, WA)
<b>Harmful Cyanobacterial Blooms in the Wetlands of the Swan Coastal Plain, Western Australia</b>	Jacob John (Curtin University of Technology, WA)
<b>Factors Affecting Mercury Volatilisation From Solids</b>	Rob Jung (CSIRO Land & Water, NSW)
<b>Determination of Ultra Trace Amounts of Target Organo Phosphorus Pesticides, Carbamates and Atrazine Residues in Water by SPE and LC-MS/MS</b>	Davorka Tucman (Department of Primary Industries Victoria)
<b>Detecting Arsenic in Groundwater Using Portable Digital Voltammeter</b>	Magdalena Wajrak (Edith Cowan University, WA)