

SPERA 2008 Program

MONDAY 24 NOVEMBER		
SESSION 1 : Environmental Studies 1		
9.00am	Opening	
9.20	Katsumi Hirose	Anthropogenic Radionuclides In The Central South Pacific: Results Of The SHOTS Project
10.00	<i>Coffee Break</i>	
10.20	Cath Hughes	Movement Of A Tritium Plume In Shallow Groundwater At A Legacy Low Level Radioactive Waste Disposal Site In Eastern Australia Over Four Decades
10.40	Stephen Long	The Radioactive Content Of Some Australian Drinking Waters
11.00	Jane McLeish	Study Of Groundwater Discharge Into River Systems Using Radon-222 As A Tracer
SESSION 2 : Radon		
11.20	Tracy Wright	Improvements To ARPANSA's Radon Measurement Facilities And A Comparison Between Radon Measurement Instrumentation
11.40	Marcia Pires de Campos	Radon Levels In An Experimental House Constructed With Phosphogypsum Plates
12.00	Rick Tinker	Development Of A Energy Discriminate CR-39 Nuclear Track Etch Dosimeter For Radon-220 Measurements
12.20pm	<i>Lunch</i>	
SESSION 3 : TENORM		
1.40	Lucio Leonardo	Assessment Of Atmospheric Pollution In The Vicinity Of A Cassiterite Process Industry Using Lichen Canoparmelia Texana
2.20	Andrew Esparon	Determination Of An Analogue Site For Ranger Uranium Mine To Extrapolate Pre-Mining Gamma Dose Rates
2.40	Alison Frostick	Spatiotemporal Assessment Of Sediments From Magela Creek, Northern Australia To Evaluate The Impacts Of Uranium Mining
3.00	<i>Coffee Break</i>	
3.20	Mirna.Seleghim	Radioecological Monitoring Of The Impact Of Effluents From A Nuclear Facility Being Decommissioned In The Antas River Hydrographic Basin In The State Of Minas Gerais, Brazil
3.40	Afkar.Al-Farsi	Presence Of ²²⁷ Ac And Other Naturally Occurring Radionuclides In Oil And Gas Pipe Scales, Sludge And Sediment In The Sultanate Of Oman

4.00 □ 5.00 : POSTER SESSION		
1	Michelle Campos	Spatial And Temporal Variation Of Fluctuations Of ACIDITHIOBACILLUS Ssp. In Effluents Of Uranium Mine, Caldas - MG.
2	Marcia Pires de Campos	External Exposure Due To Phosphogypsum Plates Used As Building Material
3	Petr Kovar	Calibration And Verification Of Noble Gases Monitors In Nuclear Facilities.

4	Alison Frostick	Investigating Potential Natural Analogues For Ranger Uranium Mine
5	Rosli Mahat	Variations In Indoor Radon Concentration In Malaysia
6	Byung-Uck Chang	Evaluation Of The Radioactivity Levels In Several TENORM Industries In South Korea
7	Sandra Damatto	Trace Elements In Sediments From Ponds In Pantanal, Mato Grosso Do Sul, Brasil
8	Paulo Sergio Cardoso da Silva	Determination Of Elementary Basal Levels In Sediments Of Baixada Santista, São Paulo, Brazil
9	Ashraf Khater	Technologically Enhanced Pb-210 And Po-210 In Iron And Steel Industry
10	Ashraf Khater	Effects Of Soil Properties On Natural Radionuclides Concentration In Arid Environment: A Case Study
11	Adir Janete Godoy dos Santos	Natural Radionuclide From Soil In A Landfill Area Investigation
12	Andrew Esparon	Visual Gamma - Gamma Spectrometry Analysis Software

TUESDAY 25 NOVEMBER

SESSION 4 : Dose Assessments

9.00am		
9.20	Neil Whitehead	Nuclear Forensics - New Approaches
9.40	Ashraf Khater	Radiological Assessment Of Narghile Smoking: Radioactivity Levels And Dose Assessment
10.00	<i>Coffee Break</i>	
10.20	Peter Medley	Derivation Of Regional Concentration Factors For Radium In Bush Passionfruit (<i>Passiflora Foetida</i>) From The Alligator Rivers Region, Northern Territory, Australia
10.40	Jessica Veliscek Carolan	I-131 Discharges To The Marine Environment And Uptake By Algae In Sydney, Australia
11.00	John Twining	Method Development For Tritium Measurements And Initial Evaluation Of Tritium Data For Tree Transpirate From A Legacy Waste Site In Eastern Australia
11.20	Andreas Bollhofer	A Study Of Radium Bioaccumulation In Freshwater Mussels, <i>Velesunio Angasi</i> , In The Magela Creek Catchment, Northern Territory, Australia
11.40	Andreas Bollhofer	An Ingestion Dose Assessment For Aboriginal Inhabitants Downstream Of Ranger Uranium Mine In The Northern Territory Of Australia
12.00pm	<i>Lunch</i>	

SESSION 5 : Methods and Instrumentation

1.20	Paul Martin	Matrix reference materials: preparation, characterization and use
2.00	Jennifer Harrison	Rapid Determination Of Uranium, Thorium, Plutonium, Americium And Strontium Activities In Water, Soil And Vegetation.
2.20	Liesel Hardege	Sequential Injection Chromatography In The Development Of Automated Radiochemical Separations
2.40	Sandra Sdraulig	An Improved And Rapid Radiochemical Method For The Determination Of Polonium-210 In Urine
3.00	<i>Coffee Break</i>	

3.20	Graeme McDonnell	Advances In Portable Radiation Monitoring And Measuring Instruments
3.40	Gordon McOrist	Density Correction - A Better Method For Difficult Samples
4.00	Jiri Suran	Metrological Assurance Of Radioactive Discharges Monitoring Systems In Czech Npps
4.20	Daniella Fiero	Low-Level Gamma-Spectrometry By Using Compton Suppression □ Testing The Performance Of Two Systems At The ANSTO Low Level Radiochemistry Laboratory.

WEDNESDAY 26 NOVEMBER

SESSION 6 : Environmental Studies 2

9.20 am	Timothy Payne	Applicability Of Surface Area Normalised Distribution Coefficients (K _a) In Interpreting Measurements Of Radionuclide Sorption
10.00	<i>Coffee Break</i>	
10.20	Paulo Sergio Cardoso da Silva	Radiological Study In Caves Of Southwest Brazil
10.40	Sandra Damatto	⁷ Be And ²¹⁰ Pb Concentrations In Air, Rain Water And Soil In São Paulo, Sp -Brazil
11.00	Atun Zawadzki	Comparison Of Be-7 Analysis Using Two Gamma Spectrometry Systems And Software Packages
12.20pm	<i>Lunch</i>	
1.20	Spera Meeting	
3.00	<i>Coffee Break</i>	
3.20 □ 4.20	Spera Meeting	
7:00	Conference Dinner	International Antarctic Centre

THURSDAY 27 NOVEMBER

SESSION 7 : Radioactivity in Soil

9.20 am	Paulina Schuller	Use Of Fallout Radionuclides To Evaluate The Effectiveness Of Changes In Tillage Systems For Reducing Soil Erosion On Agricultural Land
10.00	<i>Coffee Break</i>	
10.20	Jerry C Ritchie	Using Cesium-137 To Study Soil Redistribution In Guam And Hawaii
10.40	Ana Navas	Patterns Of Spatial Distribution Of Natural And Artificial Radionuclides In Soils At Catchment Scale (South Central Pyrenees)
11.00	Hannah Leckie	Negligible Soil Erosion At Balmoral Station, Mackenzie Basin Over The Last 60 Years: An Assessment Based On ¹³⁷ Cs And Kawakawa Tephra
11.20	Wee Teck Hoo	Using Plutonium As A Probe Of Change In Erosion Processes?
12.00pm	<i>Lunch</i>	

SESSION 8 : Radioactivity in Sediments		
1.20	Stephen Tims	From The River To The Sea - Using Fallout Plutonium To Investigate Erosion And Sediment Transport
2.00	Gary Hancock	Fallout Plutonium As A Chronometer In Australian Sediments
2.20	Rajeev Lal	Analysis Of Pacific Ocean Floor Sediments By The Method Of Neutron Activation
2.40	Shaoming Pan	¹³⁷ Cs And Plutonium In Sediment From The Yangtze River Estuary, P.R. China
3.00	Closing Remarks	
3.20	<i>Coffee Break</i>	