

# SPERA 2010 Program

## TUESDAY 31 AUGUST

	8.45	OPENING ADDRESS
	9.00	Dr C Doering <i>ERISS bush foods and wildlife CR database</i>
Session 1 RADIOACTIVITY IN ECOSYSTEMS	9.30	Mr J Twining <i>Temporal, spatial and biotic variability in transpire tritium near the LFBG and HIFAR: Observations and working hypotheses</i>
	10.00	Mr J Twining <i>Australian inputs into the IAEA EMRAS program: terrestrial animal concentration factors and the LFBG environmental dose assessment scenario</i>
	10.30	REFRESHMENTS
Session 2 RADIOACTIVITY IN ECOSYSTEMS	11.00	Dr C Doering <i>Methodology and models for the for radiological assesment/protection of non-human biota (Dr. Che Doering)</i>
	11.30	L Mokhber-Shahin <i>Uptake and release of radionuclides in wetland plants and soils</i>
	12.00	Ms A Frostick <i>Assessment of stable lead isotopes, radionuclides and trace metals from billabong sediments in the vicinity of a uranium mine</i>
	12.30	Trade Exhibitor Talk - Nucletron
	12.45	LUNCH
Session 3 SOIL EROSION & DEPOSITION	14.30	Prof P Sschuller <i>Radiological measurements and facilities for soil redistribution in Valdivia, Chile</i>
	14.30	Dr S Tims <i>Uranium-236: a potential new tracer for soil erosion?</i>
	15:00	REFRESHMENTS
	15.30	Dr C Doering <i>Analysis of Be-7 data from five Australian IMS radionuclide particulate stations (2001-2009)</i>
	16:00	Mr R Lal <i>Applicability of Pu-239 as a tracer to estimate modern soil loss rates in the wet-dry tropics of nothern Australia</i>
	16.30	END

**WEDNESDAY 1  
SEPTEMBER**

	9.00	Prof S Pan	
			<i>Cs-137 concentrations and the distributions in the soil from the Liadong coastal area of China</i>
<b>Session 4 CONTAMINANT TRANSPORT</b>	9.30	Dr S Chambers	
			<i>Radon-222 observations for atmospheric transport, mixing and pollution studies: a review</i>
	10.00	Ms E Hoffman	
			<i>Reduction in radioactive emissions to air following adsorption of an alkaline LEU Mo-99 separation process by the ANSTO medical isotope production facility</i>
	10.30	REFRESHMENTS	
	11.00	Mr T Loosz	
			<i>A review of Ar-41 and tritium emissions following the decommissioning of Australia's HIFAR research reactor and the introduction of OPAL, Australia's new research reactor</i>
<b>Session 5 CONTAMINANT TRANSPORT</b>	11.30	Mr B Orr	
			<i>Evaluation of radioxenon releases in Australia using atmospheric dispersion modelling tools</i>
	12.00	Dr R Akber	
			<i>Distribution of radioactivity in the land application areas at Ranger uranium mine</i>
	12.30	Trade Exhibitor Talk - ADM Technologies	
	12.45	LUNCH	
	14.00	Mr R Kleinschmidt	
			<i>Identification and impact of radioactive residues associated with water treatment, use and disposal in Australia</i>
	14.30	Miss J Carpenter	
			<i>Modelling exposure pathways from a low level radioactive waste repository</i>
<b>Session 6 IMPACT ASSESSMENT</b>	15:00	REFRESHMENTS	
	15.30	Dr T Payne	
			<i>Assessment of radionuclide distributions at an Australian legacy radioactive</i>
	16.00	END	
	19.00	CONFERENCE DINNER	

## THURSDAY 2 SEPTEMBER

	9.00	Ms L Hardege <i>Automated radiochemical separations for the sequential separation of naturally occurring radionuclides</i>
Session 7 INSTRUMENTATION & METHODOLOGY	9.30	Ms M Cook <i>Gross beta activity analysis with retention of volatile I-131 in various aqueous matrices</i>
	10.00	Ms J McLeish <i>Validating a laboratory developed method in the absence of relevant and reliable certified reference materials</i>
	10.30	REFRESHMENTS
	11.00	Mr P Medley <i>Quality assurance in alpha spectrometric measurement of Ra-226 from co-precipitation with barium sulphate</i>
Session 8 INSTRUMENTATION & METHODOLOGY	11.30	Dr T Payne <i>Ligand effects of uranyl sorption - key processes and models</i>
	12.00	Ms S Sdraulig <i>A rapid method for the determination of Sr-89 and Sr-90 in milk: an ALMERA project</i>
	12.30	Trade Exhibitor Talk - NuScientific
	12.45	LUNCH
	14.00	Mr J S Chae: <i>Plutonium isotopes and Cs-137 in marine surface sediments around the Korean Peninsula</i>  Mrs K Coles: <i>Water sampling methods for measurement of radioactivity in wastewater and recycled water treatment plants</i>  Mr S Mumtaz: <i>Identification of the microbial community in soils used for water disposal at Ranger Uranium Mine</i>
POSTER SESSION		Prof P Schuller: <i>Use of the fingerprinting technique to identify fine sediment sources in forest catchments in South-Central Chile</i>  Dr C Seokwon: <i>I-131 levels in the sewage treatment facility and river</i>  Dr J Trapp: <i>Calibration of a broad energy germanium detector for routine analysis of naturally occurring radioactive materials</i>  Mr D Watson: <i>A comparison of gamma survey instruments for the measurement of background radiation</i>
	15:00	REFRESHMENTS
	15.30	SPERA MEETING
	17.00	END

**FRIDAY 3 SEPTEMBER**

	9.00	Ms D Fierro <i>Environmental radioactivity in building materials for the Environmental Radioactivity Measurement Centre at ANSTO</i>
<b>Session 9</b> INSTRUMENTATION & METHODOLOGY	9.30	Ms E Barnes <i>An investigation of discrepant efficiency measurements</i>
	10.00	Dr A McNamara <i>The determination of the efficiency of a Compton Suppressed High Purity Germanium Detector using Monte Carlo Simulations</i>
	10.30	REFRESHMENTS
<b>Session 10</b> INSTRUMENTATION & METHODOLOGY	11.00	Dr S Long <i>Calibration of an HPGe detector with minimal sources</i>
	11.30	Mr P Chauhan Field Trip Presentation
	12.00	CLOSING ADDRESS
	12.45	LUNCH

CONFERENCE END