

**AOGC/IHSS/NOM 2008 TECHNICAL PROGRAM (as at 27 August)**

Day	Time	Theme/Event	Speaker/Author(s)	Title
Monday	9.30-5.00	<b>Writing workshop</b>	Cargill	<i>Writing a scientific paper for publication: strategy and steps</i>
	6.00-10.00	<b>Icebreaker</b>		<b>Registration &amp; cocktail reception</b>
Tuesday	8.15-8.30		McKirdy	<b>Welcome &amp; opening remarks</b>
	8.30-9.05	<b>Natural organic matter in soil</b>	Skjemsted et al	<b>Keynote</b> <i>Soil and charcoal: what we have learned over the past 15 years</i>
	9.05-9.30		Smernik et al	What can the sorption of organic molecules tell us about the nature of organic matter?
	9.30-9.55		Wilson et al	Organic nanomaterials in soils
	9.55-10.20			<b>Morning tea</b>
	10.20-10.45	<b>Present &amp; past environments: molecular &amp; isotopic keys to their reconstruction</b>	Krull et al	Low molecular weight and even over odd <i>n</i> -alkanes in soils, sediments and rocks: where, why and how?
	10.45-11.10		Volkman et al	Lipid and pigment biomarkers for assessing organic matter sources in surface waters and sediments from the Coorong
	11.10-11.35		McKirdy et al	The biogeochemical evolution of the Coorong during the late Holocene: an elemental, isotopic and biomarker perspective
	11.35-12.00		Grice et al	Is perylene a molecular marker of lignin degradation?
	12.00-1.30			<b>Lunch</b>
1.30-1.55		Le Metayer et al	Identification of unreported terrestrial biomarkers widespread in sediments from the Late Rupelian of the Upper Rhine Graben: origin and formation	
1.55-2.20		Brocks & Banfield	Integrating community proteogenomics and lipid biogeochemistry to unravel ancient evolutionary history	
2.20-2.45		Halverson & Hurtgen	Late Neoproterozoic environmental change: glaciation, oxygenation and diversification	
2.45-3.15		Various	Poster presentations	
3.15-3.40			<b>Afternoon tea</b>	
3.40-4.05		Schinteie & Brocks	Ancient life at the extremes: geochemical evidence for Neoproterozoic and Cambrian halophiles	
4.05-4.30		Stalvies et al	An assessment of Mesoproterozoic to Early Cambrian biodiversity using molecular biomarkers in bitumens and kerogens	
4.30-4.55		George et al	Hydrocarbons in solid bitumens and fluid inclusions from the Palaeoproterozoic Oklo natural fission reactors, Gabon	
4.55-5.20		Williford et al	A reassessment of the genetic model for the Palaeoproterozoic McArthur River (HYC) Pb/Zn/Ag deposit of northern Australia based on new molecular and compound-specific isotopic data	
Wednesday	8.30-9.05	<b>Natural organic matter in water</b>	Korshin	<b>Keynote</b> <i>Characterisation of NOM and its interactions with metals by in situ spectroscopic methods: from the Suwannee</i>
	9.05-9.30		White et al	A stable isotopic study of the origins of aquatic natural organic matter
	9.30-9.55		Liu et al	Comparison of photocatalytic degradation of natural organic matter in different surface waters
	9.55-10.20		Lowe et al	Organic characterisation tools for distribution system management
	10.20-11.00			<b>Morning tea</b>
	11.00-11.25		Fabris et al	Molecular weight profile analysis for prediction of source water treatability
11.25-11.50		Osterhus & Azrague	Removal of NOM by an oxidation-biofiltration-membrane (OBM) filtration process	

	11.50–12.15		Dixon et al	MIEX pre-treatment as a means of slowing irreversible fouling in microfiltration
	12.15–12.40		Varcoe et al	Impacts of gypsum application to soils on the character and transport of natural organic matter
	12.40-2.00			<b>Lunch</b>
	2.00-2.35	<b>Environmental pollutants</b>	Rowland	<b>Keynote</b> <i>Pollutants piggyback on plastics</i>
	2.35-3.00		van Leeuwen et al	Removal of coloured compounds sourced from pulp and paper mill effluent from the water phase of Lake Bonney, SE South Australia
	3.00-3.30		Various	Poster presentations
	3.30-4.00			<b>Afternoon tea</b>
	4.00–4.25		Philp et al	Environmental forensics and CSI (compound-specific isotopes)
	4.25–4.50		Woolfenden et al	Hydrocarbons in Antarctic marine sediments: degradation and ecological effects over five years
	4.50–5.15		Greenwood et al	Bioremediation of petroleum hydrocarbon impacted Australian soils
	7.00–7.30	<b>Food &amp; wine of South Australia</b>		<b>Pre-dinner drinks</b>
	7.30–11.00			Williams
<b>Thursday</b>	8.30–9.05	<b>Petroleum geochemistry</b>	Murray	<b>Keynote</b> <i>Geochemistry of natural gas: applications in exploration, appraisal and development</i>
	9.05–9.30		Stalker et al	Geochemical tracers as environmental monitors in CO <sub>2</sub> sequestration
	9.30–9.55		van Aarssen et al	Applications of light aromatic hydrocarbons in crude oils: separating source and maturity
	9.55–10.20			<b>Morning tea</b>
	10.20–10.45		Alexander & Dawson	Molecular evidence for catalysed hydrogen transfer reactions in sediments
	10.45–11.10		Harris et al	Identification through synthesis of a disubstituted C <sub>34</sub> cyclohexane biomarker from the Perth Basin
	11.10–11.35		Sestak et al	Is UV laser ablation a suitable tool for geochemical analysis of organic-rich source materials?
	11.35–12.00		Bray & Anderson	Carboniferous (~320 Ma) amber and resinite recovered from an Illinois coal analysed by pyrolysis-gas chromatography-mass spectrometry
	12.00–1.30			<b>Lunch</b>
	1.30–1.55		Ahmed et al	Characterisation of microbial metabolites as an integral part of microbially enhanced oil recovery (MEOR) studies – some preliminary results
	1.55–2.20		Volk et al.	On-line analyses of single fluid petroleum inclusions using ultrafast laser ablation
	2.20–2.45		Eiserbeck et al	Distribution and stable carbon and hydrogen isotopic composition of angiosperm biomarkers from Tertiary deltaic basins in the Beaufort Sea
	2.45–3.10		Asif et al	Oil-oil correlation in the Upper Indus Basin (Pakistan) based on biomarker distributions and compound-specific $\delta^{13}C$ and
	3.10–3.40			<b>Afternoon tea</b>
	3.40–4.05		Abogililia et al	The application of biomarker distributions and compound specific isotopes to delineate source(s) of hydrocarbons in the East Sirte Basin (Libya)

	4.05–4.30	Boreham	Bight Basin marine potential source rocks: a local expression of the Late Cretaceous oceanic anoxic event (OAE2)
	4.30–4.40	Kagi	<b>Presentation of student best paper &amp; poster awards</b>
	4.40–4.50	McKirdy	
	4.50		<b>Conference closes</b>
<b>Tuesday–Thursday</b>		<b>Posters</b>	
		Allpike et al	Hydrous pyrolysis as a NOM characterisation tool
		Brocks & Hope	Contamination-free biomarker analysis of shales using oxidative microwave digestion
		Bryce et al	High-precision elemental analyser-isotope ratio-mass spectrometry analysis of methane-CO <sub>2</sub> mixtures
		Chung et al	Application of a Ce(IV)/Ce(III)-based mediated electrochemical oxidation process for pesticide destruction
		Coffey et al	The palaeontology and stratigraphy of the 2.7 Ga Tumbiana Formation, Pilbara Craton, Western Australia
		Fuentes et al	In-situ maceral analysis in a suite of coals and oil shales using laser microprobe pyrolysis – gas chromatography – mass spectrometry
		Gong et al	Method developments for molecular and isotopic analyses of gases trapped in fluid inclusions
		Hallmann et al	Molecular signature and significance of the terminal Neoproterozoic Acraman impact event
		Jones et al	The preservation of microbial lipids in modern acid-saline precipitated ferricretes: implications for the search for life on Mars
		Kookana et al	Impacts of high strength winery wastewater reuse on soil microbiological health
		Kumar et al	Winery wastewater quality differences across small, medium and large scale wineries
		Laurenson et al	Cation dynamics in vineyard soils irrigated with recycled water
		Liu et al	Applying total scanning fluorescence and principal component analysis to characterise reservoir and fluid inclusion oils from three basins in China and Australia
		Lu et al	Sorption of atrazine on to NOM coated nanoparticles
		Maslen et al	Significance of crocetane in Devonian source-rocks and crude oils from the Duvernay Formation and Bakken Shale
		Mee et al	Atypical 'sapropel events' in three shallow Coorong lakes: manifestations of rapid Holocene climate change?
		Nabbefeld et al	Significance of global isotopic trends (C, H, S) across the Permian/Triassic boundary
		Pillai et al	Studies on process parameters of chlorine dioxide production as disinfectant for water purification in food industry
		Ross et al	Development of chemical sensing technologies for the detection of dissolved hydrocarbons within water
		Shanmugan et al	Managing metal(loid) mobilization in acid sulphate soils using liming materials
		Siddiqui et al	Trophic changes recorded in Scotts Creek in the Lower Murray Floodplain, South Australia, over the past 7 ka
		Vitzthum von Eckstaedt et al	Partitioning and photo-oxidation experiments of Australian crude oils in seawater
		Williford et al	Records of coral symbiosis preserved in skeletal organic matter
		Yan et al	Natural organic matter removal in a typical North China water plant: targets and techniques
		Zink et al	Paleofloral- and maturity-related changes in molecular hydrocarbon distributions along the New Zealand Coal Band, and their applications to oils
		Zou et al	Integrated membrane system for fit-for-purpose water reuse in irrigation
<b>Friday</b>	8.30-5.00	Lemon	<i>The geology, water &amp; wines of the McLaren Vale region</i>
			<b>Post-conference field trip</b>