

CONFERENCE PROGRAM

DAY 1 – MONDAY, 28TH JUNE

8:30 – 9:00	REGISTRATION
9:00 – 9:15	OPENING ADDRESS BRIAN LASSIG <i>Assistant Director Research & Collections, Australian Museum, Sydney</i> ROBERT ARMSTRONG <i>University of Sydney, Sydney, Australia</i>
9:15 – 10:05	KEYNOTE LECTURE – PETER VANDENABEELE <i>Ghent University, Ghent, Belgium</i> Raman Spectroscopy in Archaemetry

10:05 – 10:30 Morning Tea – Assemble Posters

PLANETOLOGY	CHAIRPERSON: HOWELL EDWARDS
10:30 – 11:10	PLENARY LECTURE – SHIV SHARMA <i>University of Hawaii, Hawaii, USA</i> Remote-Raman Study of Minerals under Supercritical CO ₂ and High Temperatures Relevant to Venus Exploration
11:10 – 11:40	INVITED LECTURE – ALIAN WANG <i>Washington University, St Louis, USA</i> Ferric Sulfates on Mars; Mission Observations and Laboratory Investigations Using Raman Spectroscopy
11:40 – 12:00	CONTRIBUTED LECTURE – PABLO SOBRON <i>Washington University, St Louis, USA</i> Defining Laser Power Requirements for Heat-Sensitive Samples for the Raman Instrument on ExoMars Mission
12:00 – 12:20	CONTRIBUTED LECTURE – FERNANDO RULL <i>Universidad de Valladolid, Valladolid, Spain</i> Analysis of Arctic Ices by Remote Raman Spectroscopy

12:20 – 13:20 Lunch

MINERALOGY I	CHAIRPERSON: FERNANDO RULL
13:20 - 14:00	PLENARY LECTURE – JAN JEHLIČKA <i>Charles University, Prague, Czech Republic</i> Critical Evaluation of a Handheld Raman Spectrometer with Near infrared (785 nm) Excitation for Field Identification of Minerals
14:00 - 14:20	CONTRIBUTED LECTURE – CHRISTIAN BURLET <i>Geological Survey of Belgium, Brussels, Belgium</i> Raman spectrometry as a tool to characterise cobalt secondary ore: the TRACE project
14:20 - 14:40	CONTRIBUTED LECTURE – SILMARILLY BAHFENNE <i>Queensland University of Technology, Brisbane, Australia</i> Single crystal Raman spectroscopy of natural leiteite ZnAs ₂ O ₄ and in comparison with the synthesised mineral
14:40 - 15:00	CONTRIBUTED LECTURE – JING YANG <i>Queensland University of Technology, Brisbane, Australia</i> Transition of chromium oxyhydroxide to chromium oxide nanoplates - a Raman spectroscopic study

15:00 – 15:30 Afternoon Tea

HIGH PRESSURE & TEMPERATURE	CHAIRPERSON: SHIV SHARMA
15:30 – 16:00	INVITED LECTURE – JEAN DUBESSY <i>CNRS, France</i> Raman spectroscopy in capillary cells to 400 °C and 2 kbar applied to geochemistry
16:00 – 16:20	CONTRIBUTED LECTURE – ANDREY KORSAKOV <i>Institute of Geology and Mineralogy, Russia</i> Raman-based geobarometry of Ultra-High Pressure metamorphic rocks
16:20 – 14:40	CONTRIBUTED LECTURE – SEETHARAMA PRASAD <i>National Geophysical Research Institute, Hyderabad, India</i> Revisiting α - β ransition in quartz: <i>In-situ</i> Raman studies
16:40 – 17:00	EXHIBITOR – QUYEN NGUYEN <i>HORIBA Scientific, Villeneuve d'Ascq, France</i> Raman spectroscopy for geological application

17:15 – 18:15 Welcome Reception – Minerals Room – Australian Museum

DAY 2 – TUESDAY, 29TH JUNE

ARCHEAOLGY	CHAIRPERSON: PETER VANDENABEELE
9:00 – 9:40	PLENARY LECTURE – HOWELL EDWARDS <i>University of Bradford, Bradford, UK</i> Raman Spectroscopic Analysis of Archaeological Artefacts: The Illumination of Ancient Mysteries
9:40 – 10:00	CONTRIBUTED LECTURE – LINDA PRINSLOO <i>University of Pretoria, Pretoria, South Africa</i> Recreating a Stone Age artist's "paint box"
10:00 – 10:20	CONTRIBUTED LECTURE – ANNELIEN DENECKERE <i>Ghent University, Ghent, Belgium</i> Raman spectroscopy, supplemented with two other techniques, as tool to gather information about the mediaeval manuscript 'Liber Floridus
10:20 – 10:40	CONTRIBUTED LECTURE – NICOLETA VORNICU <i>Metropolitan Center of Research T.A.B.O.R, Romania</i> Raman Spectrometry in Cultural Heritage

10:40 – 11:00 Morning Tea

INSTRUMENTATION	CHAIRPERSON: ANDREY KORSAKOV
11:10 – 11:30	EXHIBITOR – KOMAN TAM <i>Bruker Optics Division, Australia</i> Raman Instrumentation and Accessories for Geoscience and related Applications
11:30 – 11:50	EXHIBITOR – SHAWN LEE <i>WITec GmbH, Germany</i> Confocal Raman Imaging in GeoSciences: A Technical Overview
11:50 – 12:10	EXHIBITOR – DEREK HUXLEY <i>Warsash Scientific Pty Ltd, Australia</i> New Raman imaging techniques for mineral analysis and state-of-the-art portable Raman spectrometers
12:10 – 12:30	EXHIBITOR – FERDINAND VON STEIN <i>Thermo Fisher Scientific, Australia</i> Raman Microscopy Simplified

12:30 – 13:30 Lunch

GLASSES	CHAIRPERSON: JEAN DUBESSY
13:30 – 14:10	PLENARY LECTURE – LUDOVIC BELLOT-GURLET <i>University Pierre et Marie Curie, Paris, France</i> Si-O glasses and Fe-O nano-structured phases in cultural heritage materials: insight from Raman procedures
14:10 – 14:30	CONTRIBUTED LECTURE – ELIZABETH CARTER <i>The University of Sydney, Sydney, Australia</i> Raman Spectroscopy of Fulgurites
14:30 – 14:50	CONTRIBUTED LECTURE – SARAH KELLOWAY <i>The University of Sydney, Sydney, Australia</i> Raman Mapping of Australian Colonial Glazes

14:50 – 15:45 Afternoon Tea & Poster Session

15:45 – 17:00	ARCHAEOLOGICAL ROUNDTABLE DISCUSSION Led by Prof. Howel Edwards (Bradford, UK), Prof. Peter Vandanebeebe (Ghent University, Belgium) and Dr Robin Torrence (Australian Museum)
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DAY 3 – WEDNESDAY, 30TH JUNE

9:00 – 19:30 Field trip to the Blue Mountains and Jenolan Caves

DAY 4 – THURSDAY, 1ST JULY

MINERALOGY II	CHAIRPERSON: JAN JEHLIČKA
9:00 – 9:40	PLENARY LECTURE – FERNANDO RULL <i>Universidad de Valladolid, Valladolid, Spain</i> The Raman spectrometer for ExoMars mission: instrument definition and operation scenario
9:40 – 10:00	CONTRIBUTED LECTURE – THOMAS DORFER <i>Institute of Physical Chemistry, Jena, Germany</i> Improving Calibration of Raman Spectra using Chemometric Approaches

10:00 – 10:30 Morning Tea

ENVIRONMENTAL	CHAIRPERSON: CRAIG MARSHALL
10:30 – 11:10	PLENARY LECTURE – JOHN BRIER <i>Woods Hole Oceanographic Institution, Massachusetts, USA</i> Opportunities and Challenges for the Application of Raman Spectroscopy in Deep-Sea Hydrothermal Systems
11:10 – 11:40	INVITED LECTURE – RAY FROST <i>Queensland University of Technology, Brisbane, Australia</i> Raman spectroscopy of hydrotalcites formed from the seawater neutralisation process.
11:40 – 12:10	CONTRIBUTED LECTURE – IRANTZU MARTINEZ-ARKARZO <i>University of the Basque Country, Leioa, Spain</i> High-latitude beachrock: Evidences in coastal areas close to the Bilbao River Estuary (Northern Spain)

12:10 – 13:10 Lunch

ASTROBIOLOGY	CHAIRPERSON: JOHN BRIER
13:10 - 13:30	CONTRIBUTED LECTURE – PETR VITEK <i>Charles University, Prague, Czech Republic</i> Raman spectroscopic identification of microbial pigments in evaporitic matrices
13:30 - 13:50	CONTRIBUTED LECTURE – FREDERICK FOUCHER <i>Centre de Biophysique Moleculaire, Orleans Cedex, France</i> Raman Analysis of an Artificial Sedimentary Meteorite: the STONE 6 Experiment
13:50 - 14:10	CONTRIBUTED LECTURE – ADAM CULKA <i>Charles University, Prague, Czech Republic</i> Possibility of the detection of biomarkers in evaporite matrices using portable Raman instrument under Alpine conditions
14:10 - 14:30	CONTRIBUTED LECTURE – CRAIG MARSHALL <i>Kansas University, Kansas, USA</i> Considerations for the collection of Raman spectra of potential Martian Biosignatures

14:30 – 15:00 Afternoon Tea

CARBONACEOUS MATERIALS/ FORENSICS	CHAIRPERSON: LORE KIEFERT
15:00 - 15:40	PLENARY LECTURE – CRAIG MARSHALL <i>Kansas University, Kansas, USA</i> Reevaluation of the source of organic carbon in the 3.5 Ga Apex chert dyke: implications for the earliest evidence of life on Earth
15:40 - 16:00	CONTRIBUTED LECTURE – KYM WATLING <i>Southern Cross University, Lismore, Australia</i> Raman, Infrared and XPS Interrogation of the Internal Composition of Bamboo Phytoliths
16:00 - 16:20	CONTRIBUTED LECTURE – ESAM ALI <i>Bradford University, Bradford, UK</i> Interrogation of Drugs of Abuse and Explosives in a Forensic Context: Raman Spectroscopic Applications
16:20 - 16:40	CONTRIBUTED LECTURE – PETR VITEK <i>Charles University, Prague, Czech Republic</i> Evaluation of portable Raman instrumentation for the identification of b-carotene and mellitic acid in two-component mixtures with halite

19:00 – 23:00 Conference Dinner – Australian Maritime Museum, Darling Harbour

DAY 5 – FRIDAY, 2ND JULY

GEMMOLOGY/ INCLUSIONS	CHAIRPERSON: LUDOVIC BELLOT-GURLET
9:30 - 10:10	PLENARY LECTURE – LORE KIEFERT <i>Gübelin Gem Lab, Lucerne, Switzerland</i> The Raman Spectrometer - an indispensable tool for the research gemmologist

10:10 – 10:40 Morning Tea

10:40 – 11:00	PLENARY LECTURE – LARRY BARRON <i>Australian Museum & UNSW, Sydney, Australia</i> Raman Spectra of NSW Diamonds Promotes Research, Conservation and Commercial Applications
11:00 – 11:20	CONTRIBUTED LECTURE – TERENCE MERNAGH <i>GeoScience Australia, Canberra, Australia</i> Uncovering the secrets of fluid and melt inclusions with the Raman microprobe
11:20 – 11:40	CONTRIBUTED LECTURE – MIKHAIL MOROZOV <i>Saint Petersburg Mining Institute, St Petersburg, Russia</i> Analysis of Micro-Sized Mineral Inclusions in the "Blue Quartz"; by Means of Raman Mapping
11:40 – 12:00	Closing Remarks
12:00 – 13:00	Lunch