

Monday 2nd June 2008

9:00 – 9:30	Registration
9:30 – 10:00	Opening

10:00 – 10:30	<u>Ray L. Frost, Jiří Čejka, Godwin Ayoko:</u> Raman spectroscopic study of uranyl phosphate minerals phosphuranylite and yingjiangite
10:30 – 10:50	<u>Andrey V. Korsakov, Kris De Gussem, Maria Perraki, Peter Vandenabeele, Anatoly A. Tomilenko:</u> Can quartz be an ultrahigh-pressure indicator?

10:50 – 11:20	Coffee Break
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11:20 – 11:40	<u>Moroz T., Salikhov D., Belikova G, Puchkov V, Ragozin A, Kagi H:</u> Micro-Raman spectra of ugrandite garnets
11:40 – 12:00	<u>Mark van Zuilen, Aivo Lepland, Pascal Philippot:</u> Carbonaceous matter in a > 3.8 Ga quartz-rich rock on Akilia Island, southern West Greenland

12:00 – 14:00	Lunch
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14:00 – 14:30	<u>Maria Perraki, Andrey V. Korsakov, David C. Smith, Evripidis Mposkos:</u> Raman spectroscopy of “in-situ” and “exotic” diamonds
14:30 – 14:50	<u>Rosemary A Goodall, Bruno David, Peter M. Fredericks:</u> Spectroscopic Analysis of Cave Art from Northern Australia
14:50 – 15:10	<u>Marcel Swaenen and Elżbieta A. Stefaniak, Katleen Van Meel, Anna Worobiec, Rene Van Grieken:</u> Investigation of inclusions within Libyan Desert Glass by Raman microscopy
15:10 – 15:30	<u>Mona Abdel-Ghani, Howell G. M. Edwards, Ben Stern, Rob Janaway:</u> A Comprehensive Study of a 13 th Century Coptic – Byzantine Icon: A Multiple-Techniques Approach

15:30 – 16:00

Coffee Break

16:00 – 16:15

Thomas Dieing, Andrea Jauss, Ute Schmidt, Jan Toporski
(WITec GmbH):

Confocal Raman Imaging in Geosciences

16:15 – 16:30

KPJ Williams (Renishaw plc):

New Imaging techniques in Raman spectroscopy – Defining
new standards for high speed image data acquisition

16:30 – 16:45

Sophie Morel (HORIBA Jobin Yvon):

New mobile Raman microscope for geological and in-situ
measurements

16:45 – 17:00

Juergen Sawatzki, Hanne Hoskens, Matthias Boese, Carolin
Lehner (Bruker Optik GmbH):

Overcoming Experimental Challenges in Raman Spectroscopy
Applied to Art and Archaeology and Earth Sciences

Tuesday 3rd June 2008

9:00 – 9:30	<u>Jürgen Popp, Nicolae Tarcea, Hans Thiele:</u> Raman Spectroscopy for Mars Missions
9:30 – 9:50	<u>Adriana Oancea, Sébastien Facq, Bruno Capoen, Cristian Fosca, Bertrand Chazallon:</u> Structured ice films generated by vapour deposition and analyzed by micro-Raman scattering
9:50 – 10:10	<u>Konstantin S. Smirnov, Daniel Bougeard:</u> Modelling of Aluminosilicates Raman Spectra: Allophane and Imogolite

10:10 – 10:40	Coffee break
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10:40 – 11:10	<u>Jan Jehlička, Petr Vitek, Howell G.M. Edwards, Mike Hargreaves:</u> Application of portable instruments for fast and non-destructive detection of minerals on outcrops
11:10 – 11:30	<u>Katja Petzold:</u> Interpretation of Raman Spectra using TFA-evaluation of paint sample spectra sets
11:30 – 11:50	<u>Nicolae Tarcea, Thomas Dörfer, Michael Schmitt, Martin Hilchenbach, Falko Langenhorst, Rupert Hochleitner, Hans Thiele, Jürgen Popp:</u> Raman spectra processing: device independent spectral libraries

11:50 – 14:00	Lunch
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14:00 – 14:30	<u>Howell G.M. Edwards, Michael D. Hargreaves, Ian J. Scowen and the ExoMars Raman/LIBS Core Science Team:</u> Raman spectroscopy of Mars Analogue Terrestrial Extremophiles from Hot and Cold Deserts: A Biogeological Database for the ExoMars Mission.
14:30 – 14:50	<u>Judith Monnier, Denis Baron, Ludovic Bellot-Gurlet, Delphine Neff, Philippe Dillmann and Ivan Guillot:</u> Phase quantification and imaging of ancient rust scale by Raman spectroscopy. Insight for long term indoor atmospheric corrosion mechanisms

14:50 – 15:10 *Kepa Castro, Juan Manuel Madariaga, Irantzu Martinez-Arkarazo, Alfredo Sarmiento, Maite Maguregui, Manuel Angulo and Luis Angel Fernández:*
Green copper pigments biodegradation in cultural heritage: from malachite to moolooite, thermodynamical modelling and XRF and Raman evidences

15:10 – 15:30 *Elsebeth Kendix, Edith Joseph, Rocco Mazzeo, Vanna Minguzzi, Silvia Prati, Giorgia Sciutto:*
FIR spectroscopic investigation of corrosion products

15:30 – 17:00 *Poster session 1*

Wednesday 4th June 2008

- 9:00 – 9:30 Alian Wang, John J. Freeman, Raymond Arvidson:
Mystery of Martian Kieselite
- 9:30 – 9:50 Kateřina Osterrothov, Jan Jehlika:
Raman spectroscopic identification of usnic acid in
hydrothermal minerals as a potential Martian analogue
- 9:50 – 10:10 Dr. Upendra N. Singh:
Overview of NASA’s laser risk reduction program towards
technology maturation for earth and mars active optical remote
sensing application from space
- 10:10 – 10:30 Craig P. Marshall:
An overview on the Raman spectroscopy of archaean
carbonaceous material
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- 10:30 – 17:00 Excursion
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Thursday 5th June 2008

- 9:00 – 9:30 Andrey V. Korsakov, Aleksandr V. Golovin, Kris De Gussem, Igor S. Sharygin, Peter Vandenabeele:
First finding of burkeite in melt inclusions in olivine from sheared lezrolite xenoliths (Udachnaya kimberlite pipe)
- 9:30 – 9:50 Lutz Nasdala, Dieter Grambole, Jeffrey W. Harris, Manfred Wildner and Wolfgang Hofmeister:
Radiation damage in helium-implanted diamond
- 9:50 – 10:10 Mikhail Ostrooumov:
A Raman, IR and XRD Analysis of the deterioration on historical monuments: case study from Mexico
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- 10:10 – 10:40 Coffee break
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- 10:40 – 11:10 Fernando Rull Perez, Aurelio Sanz Arranz, Francisco García Talavera, Jesus Martinez Frias:
Craters in Mauritania: a preliminary Raman study
- 11:10 – 11:30 Michael D. Hargreaves, Tasnim Munshi, Ian J. Scowen, Howell G. M. Edwards:
Comparison of Near-Infrared laser excitation wavelengths and its influence on the interrogation of seized drugs-of-abuse by Raman Spectroscopy
- 11:30 – 11:50 Alexandra Guedes, Perla Ferrer, A. Carmelo Prieto, Fernando Noronha:
Rapid Identification of ballpoint and gel inks by micro-Raman spectroscopy
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- 11:50 – 14:00 Lunch
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- 14:00 – 14:30 Elizabeth A. Carter, Michael D. Hargreaves, Nina Kononenko, Ian Graham, Howell G. M. Edwards, Brad Swarbrick, Robin Torrence:
Discrimination of Obsidian Sources within the Pacific Region using Raman Spectroscopy
- 14:30 – 14:50 Jan Jehlička, Aneta Šťastná, Richard Přikryl:
Provenancing marbles through Raman spectral characterization of their dispersed carbonaceous matter

14:50 – 15:10

David Smith, Kathleen Billard:

Gemstones incrustated in Mogul jewellery verified by non-destructive Mobile Raman Microscopy

15:10 – 15:30

Peter Vandenabeele, Luc Moens:

Raman Spectroscopy in Archaeometry: Science meets Art and Antiquities

15:30 – 17:00

Poster session 2

Friday 6th June 2008

9:00 – 9:30	<u>David Smith:</u> Raman confirmation of haematite leads to a new (U)HMP indicator paragenesis: haematite + carbon
9:30 – 9:50	<u>Reinhard Kaindl, Udo Haefeker, Peter Tropper:</u> Semi-quantitative Raman-spectroscopic determinations of micro-scale CO ₂ zoning in high-grade metamorphic cordierite
9:50 – 10:10	<u>Sergio Andò, Danilo Bersani, Pietro Vignola, Eduardo Garzanti, Pier Paolo Lottici:</u> Raman spectroscopy as an effective tool for high-resolution heavy-mineral analysis: examples from major Himalayan and Alpine fluvio-deltaic systems

10:10 – 10:40	Coffee break
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10:40 – 11:10	<u>S.K. Sharma, A. K. Misra, P. G. Lucey, R. C. F. Lentz:</u> A Combined Remote Raman and LIBS Instrument for characterizing minerals with 532nm laser excitation
11:10 – 11:30	<u>Yanyan Zhao, Jing Yang, Ray L. Frost:</u> Thermo-Raman spectroscopic study of the transition of α gallium oxyhydroxide to β gallium oxide nanorods
11:30 – 11:50	<u>Zongcheng Ling, Alian Wang, B. L. Jolliff, R. E. Arvidson, Hairui Xia:</u> A new phase of hydrates ferric sulfates, lausnite?

11:50 – 14:00	Lunch
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14:00 – 14:30	<u>Susana E. Jorge Villar, Howell G.M. Edwards:</u> Raman spectroscopy study of extremophile organisms and their relationship with minerals and rocks
14:30 – 14:50	<u>Nadim C. Scherrer, Stefan Zumbuehl, Françoise Delavy, Annette Fritsch, Renate Kuehnen:</u> Organic pigments of the 20 th and 21 st century relevant to artist's paints: FTIR and Raman spectra reference collection

14:50 – 15:20

Coffee break

15:20 – 15:40

Howell G.M. Edwards, Ben Stern, Lucia Burgio, Marion Kite:
Analysis of “fat” deposit on Inuit boots

15:40 – 16:00

Danilo Bersani, Sergio Andò, Pietro Vignola, Gaia Moltifiori,
Iari-Gabriel Marino, Pier Paolo Lottici:
Micro-Raman spectroscopy as a routine tool for garnet analysis

16:00 – 17:00

Closing
