

Program IRUG14	Moderator: Inez van der Werf
Day 1	Moderator for questions: Suzan de Groot
Wednesday, June 2, 2021 <i>Times in CET</i>	
14.00-14.30	Welcome <i>Susan Lammers, Director Cultural Heritage Agency of the Netherlands (RCE)</i> <i>Boris Pretzel, IRUG Regional Chair Europe, IRUG Board Member</i> <i>Suzan de Groot (RCE), Conference Committee Chair, IRUG Board Member</i>
14.30-15.10	Keynote speaker Standoff mid-Infrared emissive imaging spectroscopy to map artists' materials in paintings <i>John Delaney, National Gallery of Art, Washington</i>
15.10-15.15	5 min break
15.15-15.40	ORPI20 – Approaches to explore early 20th century SOPs in historic paint outs with Raman spectroscopy <i>Rika Pause, Inez van der Werf, Klaas Jan van den Berg</i>
15.40-16.05	Comprehensive IR data analysis methods for the study of paint degradation processes <i>Joen Hermans</i>
16.05-16.15	10 min break
16.15-16.40	Characterisation of lime-based paints by micro-Raman and external reflection FTIR spectroscopies <i>Simi Mangani, Gianluca Pastorelli</i>
16.40-17.05	IR and Raman spectroscopy for the restoration of artworks <i>Barbara Bravo, Kevin Hellemans, Thermo Fisher Scientific</i>
17.05-17.30	The characterization of multi-layered paint chips by means of FT-IR ATR imaging as essential process in art restoration science <i>Jo d'Herde, PerkinElmer</i>
17.30-17.35	5 min break
17.35-18.00	The hidden secrets beyond a box. ARCAer PROJECT - Conservation and analytical study of antique ensembles of reliquaries <i>Carolina Barata, Alexandre Pais, Ana Manhita, Ana Margarida Cardoso, Cristina Dias, Diana Cunha, Margarida Nunes, Nuno Camarneiro, Teresa Ferreira</i>
18.00-18.25	Raman, FTIR and SEM mapping of Paul Gauguin's Poèmes Barbares <i>K. Eremin, G. Rayner, A. McClelland, T. Cavanaugh, K. Smith, M. Walton</i>
18.25	End day 1

Program IRUG14 Moderator: Suzan de Groot
Day 2 Moderator for questions: Inez van der Werf
Thursday,
June 3, 2021
Times in CET

14.00-14.25 **The use of polyethylene in conservation and object storage: a spectroscopic investigation into the chemistry of polymer additives**
Barbara Stuart, Sharon Wong, Karina Palmer, Rosemary Goodall, Alice Cannon, Cancy Chu, Alice Beale, Fran Zilio, Petronella Nel, Holly Jones-Amin and Paul Thomas

14.25-14.50 **In situ identification of plastics: evaluation, comparison and application of external and diffuse reflectance FTIR accessories**
Eva Mariasole Angelin, Susana França de Sá, Marcello Picollo

14.50-14.55 5 min break

14.55-15.20 **Preservation of collections: FTIR for testing suitability of self-sealing polyethylene bags for long-term storage and for damage assessment of objects, in particular archeological bone**
Marianne Odlyha, Chloe Pearce, Arminel Fennelly, David Thickett, Perry Higgs, Genoveva Burca, Laurent Bozec

15.20-15.45 **Project plastics: the role of FTIR in the development of the Plastic Identification Tool**
Olivia van Rooijen, Carien van Aubel, Suzan de Groot, Henk van Keulen

15.50-16.00 10 min break

16.00-16.40 Poster session

The identification of organic dyes in painting by μ FTIR and μ Raman- spectroscopies
Valentinovna Burtseva, Irina Alexandrovna Balakhnina

A discovery of methylene blue in a pictorial art: case study of Portrait of Nicholas Roerich by Svyatoslav Roerich
Ekaterina Morozova, Irina Grigorieva, Irina Kuznetsova

Tracing the line: Investigating Hans Bellmer's white drawings using Raman and transmission FTIR spectroscopies
Abed Haddad, Chris McGlinchey, Laura Neufeld

Pigment identification in frescoes of the church Santa Maria Maggiore in Sovana
Meropi Katsantoni, Theodore Ganetsos, Tina Romantzi, Carmela Crescenzi, Foteini Stringari

Evaluation of the condition of cellulose nitrate book bindings by spectroscopic methods
Vítězslav Knotek, Petra Vávrová, Nikola Šipošová, Radka Kalousková, Jitka Neoralová

Pictorial materials in the mural decoration of a Thracian tomb near Ruen, Bulgaria, identified by the application of combined spectral methods
Denitsa Y. Yancheva, Doroteya T. Gyurdjiiska-Ivanova

16.40-17.05 **Pigments from the legacy of Arnold Böcklin and Edvard Munch studied by synchrotron far-infrared spectroscopy**
Ljiljana Puskar, Irina Sandu, Ulrich Schade, Hartmut Kutzke

- 17.05-17.30 **A technical study of Chagall's painting materials: the synergistic use of Raman and FTIR spectroscopy**
Inez van der Werf, Suzan de Groot, Henk van Keulen, Madeleine Bisschoff, Meta Chavannes, Klaas Jan van den Berg
- 17.30-17.40 10 min break
- 17.40-18.05 **Geranium lake pigment: structure and changes during ageing**
Victoria Beltran, Andrea Marchetti, Karolien De Wael
- 18.05-18.30 **Mansfieldite ($\text{AlAsO}_4 \cdot 2\text{H}_2\text{O}$): A new white pigment in Himalayan artwork**
Gregory Smith, Claire Hoevel, Patrick Cavanagh, Gregory Druschel
- 18.30 End of day 2

Program IRUG14	Moderator: Thea van Oosten
Day 3	Moderator for questions: Suzan de Groot
Friday, June 4, 2021 <i>Times in CET</i>	
14.00-14.25	IRUG spectral database: Spectral search feature & tutorial <i>Beth A. Price, Suzanne Q. Lomax, Boris Pretzel, Jeff Levi, Charles Davis, Fred Pease, Gabe Richards</i>
14.25-14.50	New perspectives for Molecular Spectroscopy. The definitive approach for chemical imaging <i>Diego Sali, Bruker</i>
14.50-15.15	High performance micro-Raman spectroscopy in a portable platform Andrew King, Renishaw
15.15-15.20	5 min break
15.20-15.45	Tibetan book covers: An investigation of the materials and techniques <i>Thorsten Allscher, Simon Mindermann</i>
16.45-16.10	Characterization of materials in manuscripts by ER-FTIR – strengths and weaknesses of the non-invasive technique <i>Wilfried Vetter, Federica Cappa, Manfred Schreiner</i>
16.10-16.20	10 min break
16.20-16.45	Advanced vibrational spectroscopy methods for heritage science <i>Claudia Conti, Alessandra Botteon, Chiara Colombo, Marco Realini, Anna Piccirillo, Francesca Casadio, Jennifer Park, Marc Walton, Stephanie Zaleski, Pavel Matousek</i>
17.45-17.10	Vibrational spectroscopies for the conservation of silver <i>David Thickett, Boris Pretzel</i>
17.10-17.35	From spruce resin to castoreum: Identification of organic residues on ancient projectile weapons <i>Kate Helwig, Jennifer Poulin, Valery Monahan, Christian Thomas</i>
17.35-17.40	5 min break
17.40-18.05	Near infrared-shortwave infrared fiber optic reflectance spectroscopy as an early warning sensor for glass deterioration <i>Lynn B. Brostoff, Stephanie Zaleski, Carol Lynn Ward-Bamford, Nicholas Kivi, Andrew C. Buechele, Isabelle S. Muller, Murray H. Loew, Fenella G. France</i>
18.05-18.30	Submicron simultaneous non-contact IR+Raman microscopy – A new paradigm in vibrational spectroscopy <i>Mustafa Kansiz, PhotoThermal Spectroscopy</i>
18.30-18.45	Closing
18.45	End of conference