

SEVENTH BIENNIAL GATHERING OF THE INFRARED AND RAMAN USER'S GROUP

Tuesday, March 28th 2006

The Museum of Modern Art

OPENING SESSION

- 1:30 PM Welcoming remarks from IRUG 7 hosts
- 1:45 Welcoming remarks from IRUG Chairpersons: Marcello Picollo, Boris Pretzel, Beth Price
- 1:50 Introduction to IRUG: Beth Price & Boris Pretzel

ORAL PRESENTATIONS

Session chair Chris McGlinchey

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2:20-2:40	The Use of FTIR to Detect Organic Materials in Wall Paintings: a Comparative Study <i>F. Pique, E. Fiorin, C. Miliani, A. Nevin, F. Rosi, G. Verri</i>	1
2:45- 3:05	Identification of Previous Conservation Treatments used on the Wall Paintings from the Egyptian Tomb of Nebamun <i>ca</i> 1400BC <i>J. Parker, E. Miller</i>	5
3:10 – 3:30	Coffee Break	
3:30- 3:50	Combined FTIR and Raman Approaches to the investigation of 19 th Century Pastel Technology: Mary Cassatt's Pastels <i>F. Casadio T. L. Weis, J.K. Weller</i>	8
3:55 – 4:15	Damage Assessment in Model and Historical Tapestries by Fourier Transform Infrared Spectroscopy (ATR-FTIR) <i>M. Odlyha, C. Theodorakopoulos, and R. Campana</i>	10
4:15 - 5:00	Discussion	
5:00 – 6:30	Tours of MoMA Conservation Department (sign up required!)	

Please make sure that you have signed up for tours of the facilities at MoMA, the Metropolitan Museum of Art or the Conservation Center at the Institute of Fine Art. The tours at the Conservation Center and the Metropolitan will be on Friday morning and coincide with the Poster Session at NYU. See IRUG hosts for further details.

If you have any special dietary requirements or have an interest in any specific cuisine please let us know and we will provide you with some recommendations.

Wednesday, March 29th 2006

Advancing technologies, morning session chair Marco Leona

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9:00	Introductory remarks from session chair	
9:15 – 9:35	The Analytical Toolbox: Using IR Spectroscopy and Microscopy (OM & ESEM/EDS) Techniques to Monitor Paint Surface/Near-Surface Chemistry and Associated Residues from Environmental Exposures <i>K.Adamson, E. Nagy</i>	12
9:40 – 10:00	Mid-IR Fiber-optic Reflectance Spectroscopy versus Traditional IR Spectroscopic Techniques: Comparative Tests on their Application to the Analysis of Prints and Mock Paintings <i>S. Porcinai, M. Picollo, M. Tsukada, A. Vila, A. Miquel, C. Sistach, R. Tauler, N. Ferrer and J.F. García.</i>	15
10:05 – 10:25	The Near Infrared Analysis of Wood Objects <i>K.J. Smith</i>	17
10:30 – 10:55	Coffee	
11:00 – 11:20	Examination of Natural Dyes on Different Substrates by Means of SERS Spectroscopy <i>M.V. Cañamares, S. Sanchez-Cortes and J.V. Garcia-Ramos</i>	19
11:25 – 11:45	Use of Commercial Software to Create FTIR, EDXRF, and Raman Spectral Databases to Assist in Pigment Identifications <i>G.Hall, J. Tinklenberg, J. Shin</i>	21
11:50-12:10	Raman Spectroscopy in Art and Archaeology: some Pitfalls <i>D. de Faria, H.G.M. Edwards</i>	24
12:15 – 12:30	IRUG Award for Career Achievement in Infrared and Raman Spectroscopy	

LUNCH

Advancing technologies, afternoon session chair Karen Trentelman

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1:30	Introductory remarks from afternoon session chair	
1:45 – 2:05	Characterization of Painting Materials by Micro-FTIR Measurements with Traditional and Synchrotron Source <i>L. Toniolo, A. Sansonetti, L. E. Depero, R. Pedrazzani, I. Viola, E. Pantos, M. Tobin</i>	27
2:10 – 2:30	Using Fiber-optic Infrared Spectroscopy from Mid to Near Infrared to Assess Non-invasively the Polychromy Composition of Easel Paintings <i>C. Miliani, F. Rosi, C. Ricci, A. Sassolini, B.G. Brunetti, A.Sgamellotti</i>	29
2:35 – 2:55	The Flexible Opto-Mechanical Arm for FTIR Analysis of Samples Outside the Sample Compartment <i>M.Milosevic, V.Milosevic, L.Padron, J.Wang, C.McGlinchey</i>	32
3:00 – 3:25	Coffee	
3:30 – 3:50	Study of the Effect of Different Environmental Factors in the aging of Synthetic Varnishes by FT-RAMAN, FTIR and Impedance analysis <i>A. Cavicchioli, D.L.A. de Faria</i>	34
3:55 – 4:15	FTIR Analysis of Protective Coatings <i>D.Thickett, N. Luxford</i>	38
4:30 – 5:30	Panel Discussion: Does existing IR and Raman technology meet all of conservation's needs? <i>Panelists TBA</i>	
6:00 – 7:30	IRUG Reviewers meeting (11 West 53 rd , Room 10A)	
7:30 – 9:00	IRUG Executive Board Meeting (11 West 53 rd , Room 10A)	

Thursday, March 30th 2006

Applied research, session chair R. Scott Williams

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9:00 – 9:10	Opening remarks from session chair	
9:15 – 9:35	The Whitening of Oil Paint Films Containing Bone Black: a Combined Study of Specular Reflection FTIR Imaging and SEM-EDX <i>A. van Loon, J.Boon</i>	39
9:40 – 10:00	Copper Carboxylates in Oil Paintings on Copper Supports at the Detroit Institute of Arts <i>G. Gates, K. Muir, L. Stodulski, A. Ackerman</i>	40
10:05 – 10:25	The Characterization of Degraded, Oxalate-rich Surface Layers on Paintings <i>K. Sutherland, B. Price, A. Lins</i>	41
10:30 – 10:25	Coffee	
11:00 – 11:20	FTIR and UV-VIS Emission Microspectroscopy, in Dialog with 12th Century Portuguese Manuscript Illuminations <i>A. Claro, A.Miranda, F.Pina, M.J. Melo, C. Casanova</i>	43
11:25 – 11:45	The Determination of Artistic Hands in the 17 th C. Manuscript <i>Historia General del Perú</i> by Martín de Murúa <i>K. Trentelman, N. Turner, E.Phipps</i>	47
11:50 – 12:10	Composition of Printing Inks on Stamps using FTIR Spectroscopy <i>N. Ferrer, A.Vila</i>	49

Applied research, afternoon session chair Marcello Picollo

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1:30	Opening remarks from session chair	
1:45 – 2:05	Polyurethane Rubbers and Pratt Chairs <i>T. van Oosten, K.Kessler</i>	50
2:10 – 2:30	Vinyl paints in Portuguese Modern Art (1960-90): a FTIR study <i>M.J. Melo, J.L. Ferreira, A.M Ramos, M.J. Avila</i>	57
2:35 – 2:55	Man Made Fibers: Research into the degradation of Polypropylene fibres in modern wall tapestries <i>S.de Groot T.B. van Oosten</i>	61
3:00 – 3:25	Coffee	
3:30 – 3:50	Raman and SEM Study of Pigments from Frescos of Roman Age in the Thamusida Site (Rabat, Morocco) <i>D. Damiani E. Gliozzo, F. Cavari, I. Memmi</i>	69
3:55 – 4:15	A Combination of FT-IR, FT-Raman and GC-MS Techniques for the Identification of Pastes from an Archaeological Site at Beagle Channel, Tierra del Fuego, Argentina <i>M. Maier D. Fiore, D. L. A. de Faria, S. D. Parera</i>	71
4:20 – 4:40	A study of the Marble Low Relief “Deposizione di Cristo” by Benedetto Antelami in the Parma Cathedral <i>D. Bersani, P.P. Lottici, A. Casoli, E. Campani, C. Miliani, I. Borgia, B.G. Brunetti</i>	72
5:00 – 5:45	Panel Discussion: when are the fundamental limitations of vibrational spectroscopy insufficient for the analysis of artist’s materials? <i>Panelists TBA</i>	
6:00 – 6:15	Expanding the Infrared and Raman Users Group Spectral Database through online submissions <i>T. Lasseter Clare, B.Pretzel, B.Price, K.Ehrman</i>	97
6:15 – 6:30	IRUG Business meeting	
6:30 – 8:00	Reception for IRUG attendees, friends and sponsors in the Agnes Gund Sculpture Garden Lobby.	

Friday, March 31st 2006 9:30 – 1:00PM

POSTER SESSION

New York University Institute of Fine Art
The James B. Duke House
1 East 78th street (corner of 5th Avenue)

PLEASE SHOW YOUR IRUG 7 BADGE TO SECURITY TO GAIN ADMITTANCE

Posters will be available for viewing from 9:30 AM until 1:00 PM. Authors have been asked to be available for 20 minutes per hour unless otherwise noted.

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1	Raman and FT-IR Identification of Pigments in Roman Wall Painting Fragments Found in Parma (Italy) <i>P. Baraldi, D. Bersani, P. P. Lottici, M. Berzioli, L. Mantovani</i>	74
2	A Mural Painting by Estrela Faria, a FTIR Study of a Vinyl Synthetic Medium <i>J.L. Ferreira, M.J. Melo, A.M. Ramos</i>	75
3	Red Lake Pigments in Old Master Paintings: What can FTIR Spectroscopy Tell Us? <i>Catherine Higgitt</i>	77
4	Analytical Investigations of Wall Paintings from Mogao Grottoes <i>H. Khanjian, M. Schilling, J. Mazurek, D. Carson</i>	81
5	NIR-FT Raman and SEM Analyses of Cross Sections from Wall Paintings at Lumby Church, Denmark from 15 th century <i>F. Kuvvetli, E. Kendix, N. Kalsbeek, O. F.Nielsen</i>	83
6	Examination of Degradation Behavior of Book Binding Leather Using FT-IR Spectroscopy <i>Y. Ichihara, Y. Matsuda</i>	84
7	Application of a Self-built Cell for In-situ IRRAS Investigations of Non-transparent Materials <i>C. Kleber, M. Schreiner</i>	85
8	Combining Raman Spectroscopy with Multivariate Calibration: A Quantitative Approach to Natural Organic Binding Media <i>S. Mädler, S. Thiele, C. Herm</i>	87
9	Combined Raman and FTIR study on Thecotrichite and Related Efflorescence <i>A. Schönemann, H. Kutzke, B. Lendl, G. Eggert</i>	88
10	Micro-Raman Spectroscopy Characterization of Della Robbia Glazes <i>M. Sendova, V. Zhelyaskov, M. Scalera, C. Gulliford</i>	94
11	Spanish (CSIC) Thematic Network of Cultural Heritage: The IR and Raman Group <i>C. Domingo, J.V. García-Ramos, S. Sánchez-Cortés, M.V. Cañamares</i>	95