

Oral presentations codes follow previous book of abstracts order, please note that some changes occurred according to speakers' necessities.

I.1 Invited Speaker 1

Monday, 26th 10:00-10:40

**I.1.1
10:00**

INNOVATIVE MATERIALS FOR THE CONSERVATION OF STONE & CONCRETE-BASED CULTURAL HERITAGE

Mosquera M.J., Nanomaterials TEP-243 group. Dto. Química-Física. Facultad de Ciencias. Universidad de Cádiz ~ Cádiz ~ Spain

I.2 Invited Speaker 2

Monday, 26th 14:30-15:10

**I.2.1
14:30**

NANOMATERIALS CONTRIBUTION TO A MORE SUSTAINABLE CONSERVATION OF CULTURAL HERITAGE

Fernandez F., I.E.ME.S.T. Euro-Mediterranean Institute for Science and Technology ~ Palermo ~ Italy

I.3 Invited Speaker 3

Tuesday, 27th 09:00-09:40

**I.3.1
09:00**

SCIENTIFIC ANALYSIS UNDERPINNING THE MULTIDISCIPLINARY PROJECT "THE LEMAN ALBUM: AN ENHANCED FACSIMILE"

Burgio L., Victoria and Albert Museum ~ London ~ United Kingdom

O.1 PIGMENTS

Monday, 26th 10.40-13.10 – Chairman Geert Van der Snickt

- O.1.1**
10:40 **GREEK 16TH CENTURY WALL PAINTING ART: INVESTIGATING THE MATERIALS AND TECHNIQUES OF THE KONTARIS BROTHERS.**
Mastrotheodoros G., NCSR 'Demokritos', INN, Archaeometry Lab ~ Aghia Paraskevi, Attiki ~ Greece
- O.1.2**
11:30 **COMBINATION OF NON-INVASIVE AND MICRO-DESTRUCTIVE METHODS FOR STUDYING DECORATIVE TECHNIQUES AND MATERIALS ON THE BOHEMIAN LATE MEDIEVAL ALTARPIECE**
Dánová H., Institute of Art History, Academy of Sciences of the Czech Republic ~ Prague ~ Czech Republic
- O.1.3**
11:50 **NOVEL APPROACH IN THE STUDY OF EASEL PAINTINGS - NEW CONTRIBUTIONS USING LASER ABLATION-INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY (LA-ICP-MS)**
Valadas S., HERCULES Laboratory ~ Évora ~ Portugal
- O.1.4**
12:10 **NON-DESTRUCTIVE INVESTIGATION OF CULTURAL HERITAGE POLYCHROME STRATIGRAPHIES BY SYNCHROTRON GRAZING INCIDENCE X-RAY DIFFRACTION**
Possenti E., Dipartimento di Scienze della Terra, Università degli Studi di Milano ~ Milano ~ Italy
- O.1.5**
12:30 **THE FADING OF THE YELLOW PAINT IN PICASSO'S FEMME (1907): PHOTOLUMINESCENCE STUDIES**
Ghirardello M., Politecnico di Milano, Physics Department ~ Milano ~ Italy
- O.1.6**
12:50 **THE APPLICATION OF FAR-INFRARED MICROSPECTROSCOPY IN THE ANALYSIS OF ARTISTS' PIGMENTS**
Pasini V., Thermo Fisher Scientific ~ Rodano ~ Italy

O.2 INORGANIC

Monday, 26th 15:10-16:30 – Chairman Barbara Łydźba-Kopczyńska

- O.2.1**
15:10 **APPLICATION OF PHOTOCATALYTIC N-DOPED TiO₂ ON THREE DIFFERENT TYPES OF LIMESTONES**
Fornasini L., Department of Mathematical, Physical and Computer Sciences, University of Parma ~ Parma ~ Italy
- O.2.2**
15:30 **STUDIES ON POTASH-LIME-SILICA GLASS WITH MEDIEVAL COMPOSITION AND THEIR PRESERVATION BY APPLYING SOL-GEL SILICA COATING**
Schreiner M., Academy of Fine Arts ~ Vienna ~ Austria
- O.2.3**
15:50 **A PORTABLE FTIR STUDY OF MORTAR MODEL SAMPLES. COMPARISON AMONG INNOVATIVE AND TRADITIONAL TECHNIQUES.**
Brunello V., Università degli studi dell'Insubria Dipartimento di scienza ed alta tecnologia DISAT ~ Como ~ Italy
- O.2.4**
16:10 **ANALYSIS OF THE HISTORIC AND MONUMENTAL BUILDINGS MORTAR IN THE CENTRAL ITALY DAMAGED BY THE RECENT EARTHQUAKE**
Scognamiglio F., School of Science and Technology, Technologies and Diagnostics for Conservation and Restoration Laboratory, University of Camerino ~ Ascoli Piceno ~ Italy

O.3 DATING

Monday, 26th 17:00-17:40 – Chairman Barbara Łydźba-Kopczyńska

- O.3.1**
17:00 **ELECTROCHEMICAL DATING OF LEADED BRONZE COINS: THE CASE OF MAGNA MATER TEMPLE**
Di Turo F., Sapienza Università di Roma ~ Roma ~ Italy
- O.3.2**
17:20 **INNOVATIONS IN 14C DATING OF MICRO-SAMPLES FROM OILS AND LEAD WHITE PIGMENT IN EASEL PAINTINGS**
Hendriks L., ETHZ ~ Zürich ~ Switzerland

O.4 NON-DESTRUCTIVE AND MOBILE TECHNIQUES

Tuesday, 27th 09:40 - 13:10 – Chairman Manfred Schreiner

- O.4.1**
09:40 MATERIAL COMPOSITION EVALUATION OF HISTORICAL CU-ALLOY AQUAMANILIA BY IN-SITU X-RAY FLUORESCENCE AND LIBS MEASUREMENTS
Del Hoyo Meléndez J.M., National Museum in Krakow ~ Krakow ~ Poland
- O.4.2**
10:00 THE EXPANDED CAPABILITIES OF THE PORTABLE LASER ABLATION SYSTEM FOR ELEMENTAL ANALYSIS
Kradolfer S., Eidgenössische Technische Hochschule Zürich ~ Zürich ~ Switzerland
- O.4.3**
10:20 TO THE UNDERSTANDING OF THE COMPLEX MANUFACTURING OF EGYPTIAN YELLOW COFFINS BY NON-INVASIVE TECHNIQUES
Brunel--Duverger L., Centre de Recherche et de Restauration des Musées de France ~ Paris ~ France
- O.4.4**
10:40 IDENTIFICATION OF BLACK INK USED IN OLD ALGERIAN (KABYLIA REGION) MANUSCRIPTS BY NON DESTRUCTIVE TECHNIQUES
Idjouadiene L., Equipe LuMaNo, Laboratoire de Physico-Chimie des Matériaux et Catalyse, Université de Bejaia ~ Bejaia ~ Algeria
- O.4.9**
11:30 THE JACOPO TINTORETTO “WEDDING FEAST AT CANA”: A MULTI-TECHNIQUE NON-INVASIVE STUDY OF PAINTING MATERIALS
De Ferri L., Department of Philosophy and Cultural Heritage , Ca’ Foscari University of Venice ~ Venice ~ Italy
- O.4.6**
11:50 IDENTIFICATION OF GEMSTONES USING PORTABLE SEQUENTIALLY-SHIFTED EXCITATION RAMAN SPECTROMETER AND RRUFF ONLINE DATABASE: A PROOF OF CONCEPT STUDY
Culka A., Faculty of Science, Charles University ~ Prague ~ Czech Republic
- O.4.7**
12:10 IDENTIFICATION OF ARCHAEOLOGICAL OBJECTS MADE OF ANIMAL HARD TISSUES USING PORTABLE AND LABORATORY VIBRATIONAL SPECTROSCOPIC TECHNIQUES
Melelli A., University of Parma, Department of Chemistry, Life Science and Environmental Sustainability ~ Parma ~ Italy
- O.4.8**
12:30 MACRO X-RAY FLUORESCENCE (MA-XRF) SCANNING AS A NON-INVASIVE TOOL TO STUDY GLAZED CERAMICS: IN SITU CHEMICAL IMAGING ON A MAJOLICA TILE PANEL
Van Der Snickt G., University of Antwerp ~ Antwerp ~ Belgium
- O.6.1**
12:50 NEW PERSPECTIVES FOR MOLECULAR SPECTROSCOPY
Sali D., Bruker Italia S.r.l.~ Milan ~ Italy

O.5 HYPERSPECTRAL, MULTISPECTRAL AND IMAGING TECHNIQUES

Tuesday, 27th 14:30 - 15:50 - Chairman Peter Vandenabeele

- O.5.1**
14:30 **HYPERSPECTRAL IMAGING COMBINED WITH THE CHEMOMETRIC APPROACH IN THE INVESTIGATION OF CULTURAL HERITAGE OBJECTS**
Lydzba--Kopczynska B., University of Wroclaw Faculty of Chemistry Cultural Heritage Research Laboratory ~ Wroclaw ~ Poland
- O.5.2**
14:50 **X-RAY IMAGING FOR CONTEMPORARY ART: "PAOLO E FRANCESCA" BY G. PREVIATI (FERRARA, 1909)**
Impallaria A., Dep. of Physics and Earth Science - University of Ferrara and INFN of Ferrara and Tecnopolo-Teknehub, Ferrara ~ Ferrara ~ Italy
- O.5.3**
15:10 **IMAGING OF VISIBLE FLUORESCENCE INDUCED BY MULTISPECTRAL UV EXCITATION FOR ORGANIC MATERIALS IDENTIFICATION IN WORKS OF ART**
Cavaleri T., Centro Conservazione e Restauro La Venaria Reale ~ Venaria Reale (Turin) ~ Italy
- O.5.4**
15:30 **MULTISPECTRAL IMAGING FOR CULTURAL HERITAGE: DIAGNOSTIC ANALYSIS ON THE "CRUCIFIXION" PANEL PAINTING IN VITERBO (ITALY)**
Colantonio C., Department of Economics, Engineering, Society and Business Organization (DEIm), University of Tuscia ~ Viterbo ~ Italy

O.6 MIDDLE AND FAR EAST

Tuesday, 27th 16:20 - 17:40 – Chairman Armida Sodo

O.6.2
16:20 **NON-INVASIVE NIR-MIR SPECTROSCOPY FOR THE DISCRIMINATION OF ORGANIC DYES AND PIGMENTS IN UKIYO-E PRINTS**

Biron C., Université Bordeaux Montaigne ~ Pessac ~ France

O.6.3
16:40 **COMPARATIVE ANALYSIS OF THE STRATIGRAPHY OF V&A ASIAN LACQUER OBJECTS**

Risdonne V., Victoria and Albert museum ~ London ~ United Kingdom

O.6.4
17:00 **THE MORPHOLOGY AND CRYSTAL STRUCTURES IN PURPLE-GOLD GLAZE OF QING DYNASTY EXCAVATED FROM THE FORBIDDEN CITY**

Wei X., Shanghai Synchrotron Radiation Facility (SSRF), Shanghai Institute of Applied Physics, Chinese Academy of Sciences ~ Shanghai ~ China

O.7 CONTEMPORARY ART

Wednesday 28th 09:00 - 10:40 – Chairman Maria Perla Colombini

O.7.1
09:00 **INVESTIGATING SYNTHETIC POLYMERS IN HERITAGE OBJECTS: THE ROLE OF INNOVATIVE METHODS BASED ON ANALYTICAL PYROLYSIS**

Modugno F., Department of Chemistry and Industrial Chemistry, University of Pisa ~ Pisa ~ Italy

O.7.2
09:20 **UV-VIS-NIR REFLECTANCE SPECTROSCOPY: A REVIEW OF ITS APPLICATION TO THE STUDY OF CONTEMPORARY ART MATERIALS**

Angelin E.M., Department of Conservation and Restoration and LAQV-REQUIMTE Faculty of Science and Technology Universidade NOVA de Lisboa ~ Caparica ~ Portugal

O.7.3
09:40 **NON-INVASIVE ANALYSES FOR THE IDENTIFICATION OF FLUORESCENT, PHOSPHORESCENT AND CONVENTIONAL PIGMENTS IN “BLACK LIGHT ART” PAINTINGS**

Bruni S., Dipartimento di Chimica - Università degli Studi di Milano ~ Milano ~ Italy

O.7.4
10:00 **ALUMINUM-COATED SERS SUBSTRATES FOR THE DETECTION OF DETERIORATION PRODUCTS IN PLASTIC ARTWORKS**

Lazzari M., University of Santiago de Compostela ~ Santiago de Compostela ~ Spain

O.8.3
10:20 **CREATING THE FORGOTTEN AND BIGGEST PICASSO’S ARTISTIC PROJECT IN A NEW VIRTUAL WORLD.**

Oles K., Center for Virtualization and Applied Spatial Technologies, University of South Florida ~ Tampa, FL ~ United States of America

O.8 MUSEUMS AND DATABASES

Thursday 29th 09:00 - 11:00 – Chairman Jan Jehlicka

- O.8.1**
09:20 **OPTIMIZATION OF THE OFF-GASSING ANALYSIS OF COMPLEX MUSEUM OBJECTS. CASE STUDY: THE RUBY SLIPPERS FROM THE WIZARD OF OZ**
Álvarez Martín A., Smithsonian Institution. Museum Conservation Institute. ~Washington ~ United States of America
- O.8.2**
09:40 **TOWARDS A TUSCANY ANCIENT CERAMIC DATABASE: THE “OPEN FABRICS” PROJECT**
Raneri S., University of Pisa, Department of Earth Sciences - Pisa (Italy) ~ Pisa ~ Italy
- O.8.4**
10:00 **A DECISION SUPPORT SYSTEM FOR PREVENTIVE CONSERVATION: FROM MEASUREMENTS TOWARDS DECISION MAKING**
Schalm O., University of Antwerp, Conservation Studies ~ Antwerp ~ Belgium
- O.8.5**
10:20 **THE INTERNATIONAL MULTIDISCIPLINARY CONSERVATION PROJECT OF THE METROPOLITAN CHURCH OF AMFISSA (GREECE): THE MURAL PAINTINGS OF SPYROS PAPALOUKAS**
Tavlaridis G., ~ Rome ~ Italy
- O.8.6**
10:40 **THE INTERDISCIPLINARY IDEAL: THE NETHERLANDS INSTITUTE FOR CONSERVATION+ART+SCIENCE+**
Rous B., Netherlands Institute for Conservation+Art+Science+ ~ Amsterdam ~ Netherlands

O.9 TEXTILE, PAPER, WOOD

Thursday 29th 11:30 - 13:10 – Chairman Simona Raneri

- O.4.5**
11:30 **THE EXEMPLARY CASE OF A REMARKABLY WELL-PRESERVED HISTORICAL MUSICAL INSTRUMENT: THE “TUSCAN” STRADIVARI VIOLIN (1690)**
Invernizzi C., Laboratorio Arvedi di Diagnostica Non Invasiva, CISRiC, Università di Pavia ~ Cremona ~ Italy
- O.9.2**
11:50 **ANALYTICAL EVALUATION OF THE USEFULNESS OF NATURAL STARCHES AS ADHESIVES IN PAPER RESTORATION: KUDZU AS ALTERNATIVE.**
Lama E., Department of Painting, Faculty of Fine Arts, University of the Basque Country UPV/EHU ~ Bilbao ~ Spain
- O.9.3**
12:10 **NOVEL CANVAS WEAVE ANALYSIS OF REMBRANDT’S SAUL AND DAVID AT THE MAURITSHUIS**
Pottasch C., Mauritshuis ~ Den Haag ~ Netherlands
- O.9.4**
12:30 **DUST DEPOSITION AND EVOLUTION ON TEXTILE IN INDOOR CULTURAL HERITAGE**
Uring P., Laboratoire Interuniversitaire des Systèmes Atmosphériques - University Paris Est and Paris Diderot ~ Créteil ~ France
- O.9.5**
12:50 **METHODOLOGY DEVELOPMENT FOR IDENTIFICATION OF NATURAL TEXTILE DYES**
Peets P., University of Tartu, Institute of Chemistry ~ Tartu ~ Estonia

P.01 poster

Tuesday, 27th 17:20 - 18:30

- P.01.1** **“L’AVVENTUROSO (1936) PROJECT”:** FIRST STUDIES FOR THE CHARACTERIZATION OF PRINTING MATERIALS IN COMICS
Merlo C., Laboratorio di Diagnostica Applicata ai Beni Culturali, Scuola di Restauro di Cr.Forma, Corso Giacomo Matteotti 17, 26100 ~ Cremona ~ Italy
- P.01.2** **20TH CENTURY PAINTINGS: A MULTI-ANALYTICAL APPROACH FOR TESTING AUTHENTICITY**
Fiorillo F., Alma Mater Studiorum University of Bologna ~ Ravenna ~ Italy
- P.01.3** **A LADY IS REVEALED**
Ganetsos T., Greece ~ Piraeus ~ Greece
- P.01.4** **ANALYSIS OF PIGMENTS AND INKS IN MOROCCAN ILLUMINATED PAPER MANUSCRIPTS OF 11TH AND 12TH CENTURIES BY ENERGY DISPERSIVE X-RAY FLUORESCENCE (EDXRF)**
Pessanha S., LIBPhys-UNL, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa ~ Lisboa ~ Portugal
- P.01.5** **ANALYSIS OF STRING INSTRUMENT PROTECTIVE LAYERS – NONINVASIVE AND MICRO-INVASIVE METHODS**
Kavkler K., Institute for the Protection of Cultural Heritage of Slovenia ~ Ljubljana ~ Slovenia
- P.01.6** **ANALYSIS OF THE MIDDLE NEOLITHIC TRICHROME POTTERY: CHARACTERIZATION OF THE DECORATION USING XRF AND RAMAN**
Legnaioli S., ALS Laboratory, ICCOM-CNR ~ Pisa ~ Italy
- P.01.7** **ANALYTICAL METHODOLOGY TO EVALUATE THE NON-VISIBLE SOLUBLE SALTS IMPACT IN THE POMPEII HOUSES**
Prieto--Taboada N., University of the Basque Country ~ Leioa ~ Spain
- P.01.8** **APPROACHES FOR THE PROTEIN BINDERS’ DETERMINATION ON EASEL PAINTINGS**
Ooi S.Y., HERCULES Laboratory, Universidade of Évora, Largo Marquês de Marialva 8, 7000-809 Évora, Portugal ~ Évora ~ Portugal
- P.01.9** **ARTIFICIAL IMPREGNATION FOR MODELLING WATERLOGGED WOOD CONTAMINATED WITH IRON SULFIDES**
Monachon M., University of Neuchâtel ~ Neuchâtel ~ Switzerland
- P.01.10** **CALCIUM CARBONATE PASTE: HOW IONS CONTROL MECHANICAL PROPERTIES**
Liberto T., Institut Lumière Matière, Université de Lyon, Université Claude Bernard Lyon 1 ~ Lyon ~ France

P.01.11 CHIARAVALLE CROSS: HISTORICAL AND SCIENTIFIC INSIGHTS DURING THE RESTORATION

Di Martino D., Physics Dept., University Milano Bicocca ~ Milan ~ Italy

P.01.12 CLEANING OF TEXTILE MATERIALS USED FOR SEAL ATTACHMENT

Skrdlantova M., University of Chemistry and Technology Prague ~ Prague ~ Czech Republic

P.01.13 CLIMATIC INDUCED DEFORMATION OF PANEL PAINTINGS: EXPERIMENTAL OBSERVATIONS ON INTERACTION BETWEEN PAINT LAYERS AND THIN WOODEN SUPPORTS

Dionisi-Vici P., Consultant ~ Massa ~ Italy

P.01.14 COLOUR CHANGES OF RETOUCHING PAINTS: MAIMERI RESTAURO VARNISH COLOURS

Legan L., Institute for the Protection of Cultural Heritage of Slovenia, Conservation Centre, Research Institute, Poljanska 40, SI-1000 Ljubljana, Slovenia ~ Ljubljana ~ Slovenia

P.01.15 COMBINED GC-MS AND NMR COMPARISON APPROACH TO THE BINDING MEDIA STUDY

Czarnecka M., University of Wroclaw, Faculty of Chemistry ~ F. Joliot-Curie 14, 50-383 Wroclaw ~ Poland

P.01.16 COMBINED SPECTROSCOPIC ANALYSIS ON THE CORK MASTERPIECE OF THE PANTHEON OF ROME MADE BY ANTONIO CHICHI

Vandenabeele P., Ghent University, Department of Archaeology / Department of Chemistry ~ Ghent ~ Belgium

P.01.17 COMPARISON OF DERIVATIZATION METHODS FOR GC-MS ANALYSIS OF BINDING MATERIALS IN OIL PAINTS

Tammekivi E., University of Tartu, Institute of Chemistry, Ravila 14a, 50411 ~ Tartu ~ Estonia

P.01.18 CONFOCAL MICRO-RAMAN SPECTROSCOPY FOR THE STUDY OF NATURAL FIBRES

Vandenabeele P., Ghent University, Department of Archaeology / Department of Chemistry ~ Ghent ~ Belgium

P.01.19 CONTACTLESS APPROACH TO IDENTIFY BINDERS OF GERMAN AND ITALIAN MODERN PAINTINGS THROUGH PORTABLE VIBRATIONAL SPECTROSCOPY TECHNIQUES

Mancini D., Sorbonne Universités, UPMC Université Paris 6, MONARIS “de la Molécule aux Nano-objets : Réactivité, Interactions et Spectroscopies”, UMR 8233, UPMC-CNRS ~ 75252 Paris ~ France

P.01.20 DETERMINATION OF GILDING THICKNESS USING X- RAY FLUORESCENCE AND MONTE CARLO SIMULATION

Pessanha S., LIBPhys-UNL, Laboratory for Instrumentation, Biomedical Engineering and Radiation Physics, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa ~ Caparica ~ Portugal

P.01.21 DEVELOPMENT OF A METHODOLOGICAL APPROACH FOR IN-SITU ANALYSIS OF MODERN REVERSE PAINTINGS ON GLASS (1905-1955)

Steger S., Bundesanstalt für Materialforschung und -prüfung (BAM) ~ Berlin ~ Germany

P.01.22 DIGITAL MANUFACTURING OF FINE ART REPRODUCTIONS FOR APPEARANCE: CURRENT STATE AND LOOKING AHEAD

Essers T., Delft University of Technology ~ Delft ~ Netherlands

P.01.23 DOUBLE-LOOPED PALSTAVES WITH CASTING JET FROM WESTERN IBERIA. AN ANALYTICAL APPROACH

Brunetti A., Dipartimento di Scienze Politiche, Scienze della Comunicazione e Ingegneria dell'Informazione, Università di Sassari ~ Sassari ~ Italy

P.01.24 EVALUATION OF ICE-DRY BLASTING INVASIVENESS INDUCED ON BRONZE SAMPLES COATED WITH DIFFERENT TYPES OF PATINA

Basile S., Dipartimento di Scienze Chimiche, della Vita e della Sostenibilità Ambientale, Università di Parma ~ Parma ~ Italy

P.01.25 GOAN OR EUROPEAN MANNERISM STYLE OF PRODUCTION? TECHNICAL AND MATERIAL CHARACTERIZATION OF A PAIR OF PAINTINGS FROM 17TH CENTURY

Candeias A., Laboratório HERCULES, Escola de Ciências e Tecnologia, Universidade de Évora, Largo Marquês de Marialva 8, 7000-676 Évora, Portugal/Laboratório José de Figueiredo, Direcção-Geral do Património Cultural (LJF-DGPC), Rua das Janelas Verdes 37, 1249-018 Lisboa

P.01.26 GRAFFITI CHARACTERIZATION PRIOR AN INTERVENTION: IN-SITU RAMAN SPECTROSCOPY AT THE SERVICE OF RESTORATION

Lama E., University of the Basque Country UPV/EHU ~ Bilbao ~ Spain

P.01.27 HISTORICAL AND ARCHEOMETRIC CHARACTERIZATION OF A UNIQUE SIX-COLOUR RELIEF PRINT

Sodo A., Dipartimento di Scienze Università degli Studi Roma Tre ~ Roma ~ Italy

P.01.28 IDENTIFICATION OF NATURAL RESINS BY FTIR-ATR SPECTROSCOPY ON CLEANING SWABS

Pasquini C., Dipartimento di Scienze Matematiche, Fisiche e Informatiche, Università di Parma ~ Parma ~ Italy

P.01.29 IDENTIFICATION OF BLACK PIGMENTS OF THE WORKS OF SZYMON CZECHOWICZ (1689-1775)

Dolezynska--Sewerniak E., Faculty of History Department of the History of Art and Culture Nicolaus Copernicus University in Torun Bojarskiego Street 1 87-100 Torun Poland ~ Torun ~ Poland

P.01.30 IN SITU RAMAN SPECTROSCOPY OF MICROBIAL PIGMENTS FOR THE IDENTIFICATION OF BIOCOLONISATIONS ON ART OBJECTS.

Gennari G., Dipartimento di Scienze Matematiche, Fisiche e Informatiche, Università di Parma ~ Parma ~ Italy

P.01.31 INFLUENCE OF DISINFECTANTS ON NATURAL TEXTILE FIBRES

Drabkova K., University of Chemistry and Technology ~ Prague ~ Czech Republic

P.01.32 INORGANIC-ORGANIC HYBRID COATINGS BASED ON AMIDOAMINE POLYMERS FOR BIOCIDAL ACTIVITY AGAINST CLHORELLA VULGARIS AND SCENEDSMUS ACUTUS ON TRAVERTINE ST

Bergamonti L., Department of Engineering and Architecture, University of Parma ~ Parma ~ Italy

P.01.33 IN-SITU CHARACTERIZATION OF WALL MIRRORS FROM POMPEII BY MEANS OF LIBS AND RAMAN PORTABLE INSTRUMENTS

Prieto--Taboada N., University of the Basque Country ~ Leioa ~ Spain

P.01.34 LOCKED IN A COPPER BOX? THE MYSTERIOUS STORY OF THE GREEN MUMMY OF BOLOGNA

Bridelli M.G., Department of Mathematical, Physical and Computer Sciences - University of Parma ~ Parma ~ Italy

P.01.35 MASS SPECTROMETRY TO INVESTIGATE DEGRADATION PHENOMENA OF MODERN OIL PAINTINGS IN JPI PROJECT: "CMOP-CLEANING OF MODERN OIL PAINT"

Modugno F., Department of Chemistry and Industrial Chemistry, University of Pisa ~ Pisa ~ Italy

P.01.36 MICRO-INVASIVE AND NON-INVASIVE APPROACHES TO DETECT MADDER LAKE IN FINISHING LAYERS OF BOWED STRING INSTRUMENTS

Fiocco G., Laboratorio Arvedi di Diagnostica Non-Invasiva, CISRiC, Università di Pavia, via Bell'Aspa 3, 26100 ~ Cremona ~ Italy

P.01.37 MIXED-MODE SPE FOLLOWED BY GC-MS ANALYSIS TO DETERMINE WATER SOLUBLE ORGANIC COMPOUNDS IN AEROSOL AND HISTORICAL MORTARS AFFECTED BY MARINE ATMOSPHERE

Castro K., Department of Analytical Chemistry, Faculty of Science and Technology, University of the Basque Country UPV/EHU, P.O. Box 644, 48080 Bilbao, Basque Country, Spain ~ Leioa ~ Spain

P.01.38 MUSTIDISCIPLINARY STUDY OF LISBON EARTHQUAKE OF 1755 CANVAS PAINTING BY PORTUGUESE PAINTER JOÃO GLAMA STRÖBERLE

Valadas S., HERCULES Laboratory (Évora University) ~ Évora ~ Portugal

P.01.39 NEW CONSOLIDANTS BASED ON CNC FOR DECAYED WOOD

Basile R., Istituto Euro Mediterraneo di Scienza e Tecnologia ~ Palermo ~ Italy

P.01.40 NON DESTRUCTIVE CHARACTERIZATION STUDY OF PICENES GLASS BEADS

De Ferri L., Department of Philosophy and Cultural Heritage , Ca' Foscari University of Venice Dorsoduro 3484/D, 30123 Venice, Italy ~ Venice ~ Italy

P.01.41 NON-INVASIVE FTIR STUDY ON EXPERIMENTALLY HEATED BONES AND CREMATED HUMAN REMAINS FROM ARCHAEOLOGICAL SITES

Legan L., Institute for the Protection of Cultural Heritage of Slovenia, Conservation Centre, Poljanska cesta 40 ~ SI-1000 Ljubljana ~ Slovenia

P.01.42 NON-INVASIVE SCIENTIFIC ANALYSIS OF DESIGNS FOR WOVEN SILK AT THE VICTORIA AND ALBERT MUSEUM.

Manca R., Scuola di Scienze Matematiche, Fisiche e Naturali, University of Florence, Viale Morgagni n. 40/44, 50134 Florence, Italy. ~ Florence ~ Italy

P.01.43 ON THE FOOTSTEPS OF THE ANCIENT GLASS MAKERS: TOWARD AN EXPERIMENTAL GLASS CLASSIFICATION BY USING RAMAN SIGNATURE BASED ON ROMAN GLASS REPLICAS

Raneri S., University of Pisa, Department of Earth Sciences, Via Santa Maria, 53 56126 - Pisa (Italy) ~ Pisa ~ Italy

- P.01.44** **PIGMENT ANALYSIS AS DATING TOOL: MULTI-ANALYTICAL STUDY OF THE PAINTING FIORI (OIL ON CANVAS, 20TH CENTURY), ALLEGED TO FILIPPO DE PISIS**
Volpe L., Università degli Studi di Ferrara - TekneHub - CIAS ~ Ferrara ~ Italy
- P.01.45** **POLYAMIDOAMINES AS PRESERVATIVES OF RESTORATION ADHESIVES FOR PAPER**
Antonazzo V., Dept. of Chemistry, Life Sciences and Environmental Sustainability, University of Parma ~ Parma ~ Italy
- P.01.46** **PRESERVING THE COLOR OF CONTEMPORARY ART: IDENTIFICATION OF COLORANTS IN PLASTIC MATERIALS**
Angelin E.M., Department of Conservation and Restoration and LAQV-REQUIMTE, Faculty of Science and Technology, Universidade NOVA de Lisboa ~ Campus da Caparica, 2829-516, Caparica, Portugal ~ Portugal
- P.01.47** **PROVENANCE OF THE EUROPEAN GLASS BEADS OF LUMBU (MBANZA KONGO, ANGOLA)**
Vandenabeele P., Archaeometry Research Group, Department of Archaeology, Ghent University, Sint-Pietersnieuwstraat 35, B-9000 Ghent, Belgium ~ Ghent ~ Belgium
- P.01.48** **REACTIVITY OF FATTY AND TERPENIC ACIDS AS A POSSIBLE INTERPRETATION OF DRYING OILS AND NATURAL RESINS INTERACTION IN REAL PAINTINGS.**
Rosciardi V., Università degli Studi di Torino ~ Torino ~ Italy
- P.01.49** **RESEARCH AND MAINTENANCE OF ICONS WITH GILDING AND PUNCTURING KNOWLEDGE OF ANCIENT PAINTING TECHNIQUES IN THE ASPECT OF SUSTAINABLE DEVELOPMENT**
Stepien D., Academy of Fine Arts in Warsaw ~ Warsaw ~ Poland
- P.01.50** **REVEALING THE ANCIENT POLYCHROMY OF TWO ZODIACAL TABLETS (2ND CENTURY AD) USING X-RAY FLUORESCENCE MAPPING**
Pagès--Camagna S., Centre de Recherche et Restauration des Musées de France (C2RMF) / PSL Research University, Chimie ParisTech-CNRS, Institut de Recherche Chimie Paris, UMR8247 ~ Paris ~ France
- P.01.51** **SISSI@ELETTRA: AN INFRARED SYNCHROTRON LIGHT ON CULTURAL HERITAGE**
Stani C., Elettra - Sincrotrone Trieste ~ Trieste ~ Italy
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De Ferri L., Department of Philosophy and Cultural Heritage, Ca' Foscari University of Venice Dorsoduro 3484/D, 30123 Venice, Italy ~ Venice ~ Italy
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Castro K., Department of Analytical Chemistry, Faculty of Science and Technology, University of the Basque Country UPV/EHU, P.O. Box 644, 48080 Bilbao, Basque Country, Spain ~ Leioa ~ Spain

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Badea G.I., National Institute for Biological Sciences, Centre of Bioanalysis, 296 Spl. Independentei Bucharest, 060031, Romania ~ Bucharest ~ Romania
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