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2nd International Conference

Art&Archaeology2016

Art and Archaeology Strengthened by Measurement Techniques

December 11-14, 2016 / Jerusalem, Israel

Amos Notea
Chairman

Scientific Program

Monday, December 12, 2016

09:00-11:00 Opening Session

Greetings

Advanced Imaging for the Study of Paintings

Austin Nevin, Italy

A Face from the Past: Multidisciplinary Forensic Reconstruction of an Ancient Egyptian Woman

Janet Davey, Jennifer Mann, Gavan Mitchell, Varsha Pilbrow, Ryan Jefferies, Australia

11:00-11:30 Coffee Break

11:30-13:30 Parallel Sessions

Session I: Minerals, Pigments, Dyes

Non Invasive XRF Examination of Paintings' Primings from the Years 1838-1938 - Novel Method Supporting Dating and Authentication of Modern Paintings

Mirosław Wachowiak, Grzegorz Trykowski, Poland

Non-invasive Analysis of the Wall-Paintings from the Domus Dei Bucrani (60 B.C.) in Ostia

David Strivay, Elodie Herens, Thomas Morard, Catherine Defeyt, Belgium

Combined Use of Optical Coherence Tomography and MacroXRF Imaging for Non-invasive Evaluation of Past Alterations in the 17th C. Dutch Painting

Magdalena Iwanicka, Piotr Targowski, Łukasz Ćwikliński, Poland

A New Archaeometric Method for the Fast Non-destructive Identification of Molluskan Purple in Textile Dyeings

Zvi C. Koren, Israel

Analysis of Pink Biopigmentation. Case study: the Refectory of Hurezi Monastery, Romania

Ioana Gomoiu, Roxana Cojoc, Simona Neagu, Madalin Enache, Dan Mohanu, Romania

Session II: Values and Ethics

Authenticity vs. Accessibility. The Borders of Compromise in the Preservation of Auschwitz-Birkenau Site

Anna Łopuska, Poland

Conservator's Examination in Brick Barracks on the Premises of the Former Auschwitz–Birkenau Concentration Camp – Project Presentation

Dorota Białek-Kostecka, Anna Forczek-Sajdak, Poland

Conservation and Public Display of Cultural Heritage: Early Bronze Age Tel Yarmuth in the Contemporary Urban Landscape of Bet Shemesh

Gil Haklay, Omer Shalev, Amir Golani, Avi Mashiah, Israel

Changes in Social and Cultural Values and their Impact on conservation of Cultural Heritage Assets

Irit Amit-Cohen, Israel

The Internet of Invisible (Ancient) Things

Yuval Shafirri, Yael Alef, Israel

13:30-14:30 Lunch & Posters

14:30-16:30 Parallel Sessions

Session III: Organics, Stone, Glass

Resin Analysis of the Yenikapı Byzantine-Era Shipwreck

Recep Karadag, Turkey

Four Hundred Meters Below Sea Level; Micromorphological, Chemical and Physical Characterization of Waterlogged Archaeological Wood Finds from the Dead Sea Shore

Asaf Oron, Nili Liphschitz, Gideon Hadas, Raphael Linker, Israel, Benjamin Held, Robert Blanchette, USA

Old Aqueducts and Sewage Systems of Santafé de Bogotá and Historical Arqueology of the City

Monika Therrien, David Cohen, Mauricio Hoyos, Colombia

The Monumental Ensemble “The Heroes’ Path” in Targu Jiu by Constantin Brancusi – Multiannual Monitoring Program

Roxana Radvan, Laurentiu Angheluta, Alexandru Chelmuș, Lucian Ratoiu, Romania

The Waldglas Project – Combining Instrumental Analyses for the Examination of Post-Excavation Corrosion on Archaeological Glass

Alexandra Jeberien, Olga Emgrund, Germany

Survey with 3D Laser Scanner as a Tool for Knowledge: Analysis of Case Studies

Antonello Pagliuca, Antonella Guida, Antonio Bixio, Italy

Session IV: Iconography

The Real Thing? Polychromy Research Employed in Authenticity Studies of Etruscan Pinakes

Signe Skriver Hedegaard, Cecilie Brøns, Kaare Lund Rasmussen, Denmark

The Techniques and the Decorating of the Siberian Paleolithic Anthropomorphic Figurines

Pavel Volkov, Liudmila Lbova, Russia

Interpretations of Symbols in Rock Engravings and Stone Monuments

Uzi Avner, Israel

Gender, Representation, Status and Dress Code as Reflected on the Mosaics Pavement within the Historical-geographic Area of the Land of Israel towards the End of Late Antiquity

Aliza Steinberg, Israel

The Latest Results of the Archaeological Research of the Early Panticapaeum

Natalya Astashova, Vladimir Tolstikov, Olga Tugusheva, Olga Samar, Russia

Tuesday, December 13, 2016

09:00-11:00 Plenum

Synchrotron Based Techniques Reveal Writing and Ink Composition of Herculaneum Papyri

Vito Mocella, Italy

Material Analysis: Authentication or Forgery Detection?

Ira Rabin, Germany

11:00-11:30 Coffee Break

11:30-13:30 Parallel Sessions

Session V: Authentication: Metals

Keynote: Real or Fake? "Life" and "Death" of Unique Objects in Archaeology

Sariel Shalev, Israel

Two Nails 2400 Years Apart: Metallurgical Comparison of Copper Nails of the Ma'agan Mikhael Ship and its Replica

Deborah Cvikel, Dana Ashkenazi, Alexandra Inberg, Igor Shteiman, Noam Iddan, Yaacov Kahanov, Israel

The Authenticity of a Lead Booklet/Codex from an Antiquity Dealer in Israel

Zvi Greenhut, Irina Segal, Gregory Leitus, Adi Eliyahu-Behar, Yuval Goren, Haggai Misgav, Amir Ganor, Israel

Analysis of Silver Denarii Minted in Poland in the X-XI Centuries

Julio M. Del Hoyo, Marta Matosz, Poland

Some Problems of Metal Artifacts Separation During Conservation Treatments

Helena Kupersmidt, Israel

Session VI: Pottery

Archaeological and Archaeometric Investigations of Islamic and Crusader Pottery in Israel. From: The POMEDOR Project "People, Pottery and Food in the Medieval Eastern Mediterranean

Yona Waksman, France, Edna Stern, Anastasia Shapiro, Israel, Alessandra Pecci, Spain

High-Fired Glazes of Ancient Chinese Ceramics

Weidong Li, P.R.China

The "Miletus Ware" Between Archaeological Excavations and Museum Collections: a Study of Provenance and Production Techniques by a Multi-analytical Approach

Jacques Burlot, Yona Waksman, Anne Bouquillon, Ludovic Bellot-Gurlet, Charlotte Maury, France

Contextualization of Zoomorphic Figurines of the Neolithic of the Southern Levant

Estelle Orrelle, Liora Kolska Horwitz, Israel

The Blues of Glazed-Brick Reliefs of The Ishtar Gate and the Processional Way of Babylon: Compositional Considerations and Provenance

Alexandra Rodler, Signe Skriver Hedegaard, Cecilie Brøns, Denmark, Sabine Klein, Germany

13:30-14:30 Lunch & Posters

14:30-16:30 Session

Session VII: Authentication: Manuscripts

Virtual Unwrapping: Quantitative Distortion Analysis of Flattening Applied to the Scroll from Ein-Gedi

W. Brent Seales, C. Seth Parker, USA, Pnina Shor, Israel

Composition Analysis of Writing Materials in Geniza Fragments

Zina Cohen, France, Germany

Fluorescence-corrected Raman Spectroscopic Analysis of Collagen and Carbon Inks in Historical Parchments

Roman Schuetz, Peter Fratzl, Ira Rabin, Germany, Elisabetta Boaretto, Israel

Deciphering the Remains of Colonel Ilan Ramon's Crew Notebook, Recovered After the Loss of the Space Shuttle Columbia

Sharon Brown, Israel

Wednesday, December 14, 2016

09:00-11:00 Plenum

From Textile to Stucco: ^{14}C Dating of Art
Mark Van Strydonck, Belgium

Ancient Mortars and Binders: Can the Walls Speak?
Gilberto Artioli, Italy

11:00-11:30 Coffee Break

11:30-13:30 Parallel Sessions

Session VIII: Digital Imaging and Sites

Keynote: Interdisciplinary Planning and Scientific Support in the Field of Rehabilitation of the Holy Aedicule of the Holy Sepulchre
Antonia Moropoulou, Greece

The Application of Photogrammetry in Archaeology in the Jerusalem District
Alexander Wiegmann, Israel

Uncovering the Ancient Silk Road from the Dunhuang Manuscripts by Using Satellite Remote Sensing and GIS
Lei Luo, Xinyuan Wang, P.R. China

Digital Photogrammetric Analysis of a Historic Building: The Arches Building in Lod, Israel, a Case Study
Michael Waas, Tsili Giladi, Israel

Iron Corrosion Products on "Bronze Age" Gold and Faience Earrings from Tel Megiddo?! Imaging and Surface Micro-Chemical Analysis for a Composite Object
Hadas Seri, Israel

Session IX: Dating and Archaeometry

Keynote: Application of Fourier Transform Infrared Analysis for Prescreening for Radiocarbon Dating
Elisabetta Boaretto, Israel

A 'Coptic' Tunic of the Egyptian Museum of Turin: Stylistic Attribution and Accelerator Mass Spectrometry Radiocarbon Dating
Martina Ferrari, USA, Italy, Matilde Borla, Lucia Liccioli, Mariaelena Fedi, Paolo Gallo, Italy

The Uncertainty in Dating Ancient Objects with ^{14}C Method. The Failure in Two Historical Cases: The Magdalen Papyrus and the Shroud
Giussepe Nardonj, Italy, Esmeralda Vataj, Albania

ECHO - An Interface for Cultural Heritage Experiments at ELETTRA
Franco Zanini, Alessandra Gianoncelli, Werner Jark, Andrea Lausi, Lucia Mancini, Luca Olivi, Jasper Plaisier, Maurizio Polentarutti, Barbara Rossi, Mirta Sibilina, Nicola Sodini, Lisa Vaccari, Italy

Deciphering the Whole Archaeological Record: the Value of On-Site Analyses
Elisabetta Boaretto, Israel

13:30-14:30 Lunch & Posters

14:30-16:30 Session

Session X: Digital Imaging of Objects

Keynote: First Temple Period Inscriptions: Imaging, Enhancement and Analysis
Arie Shaus, Israel

Reflectance Transformation Imaging and its Use in Negev Rock Art Research
David Eisenberg-Degen, Israel

Digital Analysis of Rock Art From Manot Cave
Avshalom Karasik, Omry Barzilai, Israel HersHKovitz, Ofer Marder, Israel

Reconstructing the Ancestral Inheritance of Costa Rica
Faye OlsGard, USA

3D-Scanning as a New Tool in the Research of Architectural Decoration
Asaf Ben Haim, Israel