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2nd International Conference

# Art&Archaeology2016

Art and Archaeology Strengthened by Measurement Techniques

December 11-14, 2016 / Crowne Plaza Hotel / Jerusalem, Israel

## 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 Liphshitz, 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: 14C 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*

**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 C14 Method. The Failure in Two Historical Cases: The Magdalen Papyrus and the Shroud**  
*Giussepe Nardoni, 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 Sibilica, 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*