

KRISTALIA MELESSANAKI

Address: Conservator of Archaeological Objects and Works of Art
Institute of Electronic Structure and Laser (IESL)
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PERSONAL INFORMATION

Place of Birth: Heraklion, Crete, Greece

Family Status: married, 1 child

Languages: Greek (Native speaking- Mother tongue) & English (fluently speaking)

EDUCATION

1998 - 20002: Training Scholarship, FORTH –IESL, Laser and Application Division.

- Diagnostics of artworks and archaeological materials (LIBS analysis).
- Laser cleaning of paintings, stones, ceramics, glass, ivory using several types of lasers (Nd:YAG, KrF Eximer Laser).

March 2001: Technological Educational Institution of Athens,

Department of Conservation of Antiquities and Works of Art, Athens, Greece.

Diploma essay: Conservation treatment and suggestions for the display of a child burial covered by a shell of a sea turtle.

RESEARCH INTERESTS

- Investigating laser techniques for the cleaning of cultural heritage objects.
- Evaluation and monitoring of the cleaning interventions using spectroscopic and imaging techniques.
- Lasers, the innovative approach to the analysis and conservation of monochromatic Reinhardt's Black Painting.
- Non-linear imaging microscopy techniques as diagnostic tools for Cultural Heritage studies.
- Laser assisted removal of polymeric over-layers from paintings.
- Use of laser spectroscopic techniques (LIBS: Laser Induced Breakdown Spectroscopy) for analysis on Works of Art and Archaeological Objects.

PATENT

- Restoration of vitreous surfaces using laser technology, application submitted to Patent Cooperation Treaty (PCT) on 15 March 2016 and then to European Patent Office (EPO) on 15 October 2018.

FUNDED RESEARCH PROJECTS

He has been actively participated in several National and EU projects, related to Cultural Heritage namely:

“HELLAS-CH”, “HERACLES”, “IPERION-CH”, “CHARISMA”, “ATHENA”, “PROMET”, “LASTOR”, “MOBiLART”. “LATECA” etc.

WORK EXPERIENCE

2002 –Today: Research scientist at Foundation for Research and Technology Hellas, Institute of Electronic Structure and Laser (IESL-FORTH).

April –May 1998: Conservation training at (internship):

- Monastery of Saint Katherine in Mount Sinai, Egypt,
- Ambetio Institute in Cairo, Egypt.

May, 1996: Training on the conservation of excavated organic materials

COURSE / WORKSHOP ORGANIZATION

2014-2018: OPTO-CH series of training course “Laser technologies in CH analysis, diagnosis and conservation”

July 2012: “Advanced laser-based techniques in art conservation, diagnostics and analysis” a “CHARISMA” project training course and workshop.

February 2005: “Lasers for the Preservation of Cultural Heritage” An educational training course organized by IESL-FORTH in the framework of the EU Marie Curie Early Stage Training (EST) ATHENA (GA: MEST-CT 2004-504067)

TECHNICAL SKILLS

- Conservation techniques of metals, sculpture, pottery, mosaic, glass and organic objects.
- Use of laser spectroscopic techniques (LIBS: Laser Induced Breakdown Spectroscopy, LIF: Laser Induced Fluorescence) for analysis on Works of Art and Archaeological Objects.
- Computer skills: Corel Draw, Adobe Photoshop, Origin 8