



Training course and workshop
Heraklion, Crete, Greece 18-22 June 2012

Advanced laser-based techniques in art conservation, diagnostics and analysis

Course Program

| Monday 18 June 2012 | | |
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| 9:15- 9:30 | Registration | |
| 9:30-10:00 | Welcoming remarks | |
| 10:00-11:30 | Optics and Lasers; basic aspects | D. Papazoglou IESL-FORTH |
| 11:30-13:00 | Spectroscopy | D. Anglos IESL-FORTH |
| Lunch break | | |
| 14:30-15:30 | Laser Safety | D. Anglos IESL-FORTH |
| 15:30-17:00 | Laser cleaning mechanisms & methodologies | P. Pouli IESL-FORTH |
| 17:00-18:00 | Poster session with 5 min oral presentations | Participants |
| Tuesday 19 June 2012 | | |
| 9:30-11:00 | Elemental analysis - LIBS | V. Detalle LRMH |
| 11:30-13:00 | Steady state and time resolved fluorescence for non-invasive diagnostic purposes: the MOLAB experience | A. Romani U. of Perugia |
| Lunch break | | |
| 14:30-16:00 | Lab Sessions | E. Bernikola, A. Filippidis, D. Giovannacci, C. Hatzigiannakis, O. Kokkinaki, K. Melessanaki, V. Papadakis, P. Pouli, P. Siozos, E. Tsiranidou IESL-FORTH/ LRMH |
| 16:30-18:00 | (LIBS, Raman-LIF, Laser cleaning I, II, OCM, Optical Imaging) | |
| Wednesday 20 June 2012 | | |
| 9:30-11:00 | Optical Coherence Tomography (OCT) | P. Targowski Nicolaus Copernicus University |

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| 11:00-12:30 | Optical Coherence Metrology (OCM) | V. Tornari IESL-FORTH |
| 12:30-13:00 | A transportable system for the in situ recording of colour Denisyuk holograms. Applications in the documentation of Cultural Heritage artefacts | A. Lembessis Hellenic Institute of Holography |
| Lunch break | | |
| 14:30-15:30 | Laser Spectroscopy and THz Imaging | S. Tzortzakis IESL-FORTH |
| 15:30-16:30 | Non-linear Microscopy (NLM) | G. Filippidis IESL-FORTH |
| 16:30- 17:30 | Optical Imaging | V. Papadakis IESL-FORTH |
| Thursday 21 June 2012 | | |
| 9:30-11:00 | Laser Mass Spectrometry | G. Spoto U. of Catania |
| 11:30-13:00 | Combination of electromagnetic and mechanical waves based radiation techniques for the high resolution and fidelity mapping imaging | G. Karagiannis Ormylia Foundation -ADC |
| Lunch break | | |
| 14:30-16:00 | Lab Sessions (LIBS, Raman-LIF, Laser cleaning I, II, OCM, Optical Imaging) | E. Bernikola, A. Filippidis, D. Giovannacci, C. Hatzigiannakis, O. Kokkinaki, K. Melessanaki, V. Papadakis, P. Pouli, P. Siozos, E. Tsiranidou IESL-FORTH/ LRMH |
| 16:30-18:00 | | |
| Friday 22 June 2012 | | |
| 9:30-10:15 | Cleaning sculptures with laser: an overview at the Prado Museum | Sonia Tortajada Prado Museum |
| 10:15- 11:00 | Laser cleaning practices at the Acropolis Museum | C. Vasiliadis The Acropolis Museum |
| 11:00-13:00 | Lab Demos (THz, NLM) | M. Massaouti, G. Tserevelakis IESL-FORTH |
| Lunch break | | |
| 14:00-16:30 | Lab Sessions (LIBS, Raman-LIF, Laser cleaning I, II, OCM, Optical Imaging) | E. Bernikola, A. Filippidis, D. Giovannacci, C. Hatzigiannakis, O. Kokkinaki, K. Melessanaki, V. Papadakis, P. Pouli, P. Siozos, E. Tsiranidou IESL-FORTH/ LRMH |
| 16:30-18:00 | | |
| Closing Event | | |
| 19:00- 19:30 | Securing the Future of our Past: Lasers in Art and Archaeology | C. Fotakis IESL-FORTH |
| 19:30- 20:30 | Restoration and conservation interventions on the Acropolis monuments | V. Eleftheriou, E. Aggelakopoulou The Acropolis Restoration Service |