

Dr. Paraskevi Pouli
Principal Application Scientist
Photonics for Heritage Science Group
Institute of Electronic Structure and Laser

Dr. Paraskevi Pouli is a [Principal Application Scientist at IESL-FORTH](#), member of the [Photonics for Heritage Science group](#), in charge of developing novel laser technologies for restoration of art and antiquities. She holds a degree in Physics from the Aristotle University of Thessaloniki, Greece and a Ph.D. in Physics from Loughborough University, UK. Her PhD thesis, entitled “Laser cleaning studies on stonework and polychromed surfaces”, was supervised by Prof. D. C. Emmony.

She joined IESL-FORTH in 2000 and her principal research interests concentrate on the investigation of laser ablation mechanisms pertinent to Cultural Heritage (CH) materials and the development of laser-cleaning methodologies for addressing real, and diverse, restoration problems. The understanding of side-effects emerging upon laser ablation (e.g. laser induced discoloration-yellowing of marble, darkening of pigments) and the optimization and monitoring of the cleaning process are among her research priorities. She has been actively involved in a number of EU (H2020-[IPERION-HS](#), H2020-[HERACLES](#), H2020-IPERION-CH, FP7-CHARISMA, FP5-PROMET, etc.) and nationally (CALLOS, KRIPIS-POLITEIA I and II, LASTOR, MOBILART, CRINNO-II etc.) funded research projects. Over the past decade she has been participating in EU and national initiatives on the development of E-RIHS and [E-RIHS.gr](#) Research Infrastructures focused in the field of Heritage Science.

Dr Pouli’s research has been published in over [60 scientific articles](#) (6 invited) in peer reviewed journals and conference proceedings while she has presenting her work at major international conferences and relevant workshops (10 invited talks). She has supervised several undergraduate and graduate students in the context of their research thesis projects (8 diploma, 5 MSc). Since 2009 she has been a member of the International scientific committee of the [LACONA](#) Conference series, while she has also been actively contributing in the organization of several other conferences. Since 2012 she coordinates the “[OPTO-CH](#)” summer school at IESL-FORTH.

In 2001 Dr Pouli undertook, on behalf of IESL-FORTH, the scientific coordination of the laser-cleaning projects on the Athens Acropolis. The outcomes of this collaboration have been a prototype laser system and a novel laser cleaning methodology especially developed in order to ensure the removal of thick pollution accumulations in a controlled and safe way for both the object and the operator. In this context the Acropolis Museum and IESL-FORTH have been awarded the 2012 Keck Award by the International Institute for Conservation of Historic and Artistic Works (IIC) for their collaboration regarding the “[Laser rejuvenation of Caryatids opens to the public at the Acropolis Museum: a link between ancient and modern Greece](#)”.