IAMON Workshop
Reinforced interfaces between structural members in ancient monuments
10 July 2024, Athens, Greece
Hybrid format: on Zoom (link to be soon available) or at Zografou Campus NTUA
(Multimedia Amphitheater)

Programme of the event

09:30-11:00	**Introduction and in-situ Investigations**
	• Introduction to the IAMON Workshop **Vasiliki Palieraki,** *National Technical University of Athens* • Information from investigation **Manolis Korres,** *National Technical University of Athens* • Quantifying the developing forces of clamps and dowels used for the anastylosis of the N.E. tower of the Aegosthena fortress in W.Attica **Eleni-Eva Toumbakari,** *Ministry of Culture, Ephorate of Antiquities of Western Attica* • Innovative Approaches for Structural Health Monitoring of Restored Elements of Stone Monuments **S. K. Kourkoulis,** E. D. Pasiou, I. Stavrakas, D. Triantis, *National Technical University of Athens* • Digital technologies for the inspection and assessment of historic structures **Vasilis Sarhosis,** *University of Leeds* • Investigation Works of the Structural System of the Hadrian Reservoir in Athens **Chrissy-Elpida Adami,** Alexandros Ranios, Aikaterini Kalouda, *EYDAP*
11:00-11:30	**Coffee break**
11:30-13:30	**Laboratory Investigations**
	• Testing of columns in the Laboratory of Earthquake Engineering, NTUA **Haralampos Mouzakis,** *National Technical University of Athens* • Tracking moving targets from video images **Eleftherios Tournas,** *GEOVISION IKE* • Real Scale Shaking Table tests for the investigation of the influence of the use of vertical connectors between the drums in columns and colonnades **Vasiliki Palieraki,** Eleni Tavouktsi, Konstantinos Arvanitis, Haralampos Mouzakis, *National Technical University of Athens* • Shaking table examination of the Prothyron monument model **Pavao Marović,** Željana Nikolić, *University of Split* • Seismic protection of multi-drum columns with the use of particle dampers **Angeliki Papalou,** *University of Peloponnese*

	• Seismic behaviour of dry-stack masonry structures: results from a recent experimental and numerical campaign **Georgios Vlachakis,** Carla Colombo, Dario Vecchio, Anastasios I. Giouvanidis, Nuno Mendes, Nathanaël Savalle, Paulo B. Lourenço, *University of Minho, ISISE, ARISE* • Seismic Vulnerability Assessment of a Historical Monument **Ozden Saygili,** *AtkinsRealis* • Reliability analysis of ancient columns **Michael Fragkiadakis,** *National Technical University of Athens*
13:30-14:15	**Lunch break**
14:15-16:30	**Numerical investigations**
	• Reduced-scale testing of historical monuments under explosions: application to the Parthenon Ahmad Morsel, Filippo Masi, Panagiotis Kotronis, **Ioannis Stefanou,** *ECN* • Numerical investigation of the seismic response of classical multi-drum and monolithic columns **Stella Karafagka,** Grigorios Tsinidis, Kyriazis Pitilakis, *Aristotle University of Thessaloniki* • Seismic performance evaluation of the Roman Temple of Évora in Portugal **Daniel V. Oliveira,** Paulo B. Lourenço, *University of Minho* • Application of a Tendon System to Protect Classical Columns against Earthquakes **Ioannis N. Psycharis,** Evangelos Avgenakis, Maria-Eleni Dasiou, *National Technical University of Athens* • Can we use the seismic response of free standing monuments to verify Probabilistic Seismic Hazard estimates? **Anastasios Sextos,** *National Technical University of Athens* • The use of Distinct Element Method for the preservation and reconstruction of archaeological free-standing columns **Matteo Salvalaggio,** Jacopo Bonetto, Maria Rosa Valluzzi, *University of Padova* • Modelling drum columns with discrete elements – Practical issues **José V. Lemos,** *LNEC* • Numerical investigation of the role of iron dowels in the stability of multi-drum **Olympia Panagouli,** *University of Thessaly* • Discrete Rigid Block Analysis of The Stone Masonry Temple: Exploring the Effect of Ancient Retrofitting Technique **Bora Pulatsu,** *Carleton University*
16:30-17:00	**Coffee break**
17:00-18:00	**Interactive discussion- Conclusions**