

## Biographical Note



**Pavlina I. Rotonto**  
Specialized Technical Laboratory Staff  
Engineer of Mineral Resources  
Technical University of Crete

### Personal Data

**Name:** Rotonto Pavlina  
**Date and place of birth:** 10 / 06 / 1969, Chania, Crete, Greece  
**Office:** Laboratory of Petrology and Economic Geology,  
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### *Academic Background - Education:*

- 1995: Diploma, Dept. of Mineral Resources Engineering, Technical University of Crete. Diploma Thesis: “Study of the mineralogical composition and the physiochemical and technical characteristics of the concrete and mortar applied in the restoration works of the Knossos Palace and the Jetty of the old harbor of Chania”.
- 2009: M.Sc., Undergraduate Program in Geotechnology and the Environment, Dept. of Mineral Resources Engineering, Technical University of Crete. M.Sc. Diploma Thesis: “Investigation of quality characteristics of the building materials of the monuments Castello Caetani, Villa dei Quintili and Vigna Barberini in Rome”
- 4th Residential Summer School on Conservation Science, EUROPEAN CHEMISTRY AND CHEMICAL ENGINEERING EDUCATION NETWORK, Lifelong Learning / Erasmus /Networks 2009, Aristotle University of Thessaloniki

### *Professional Experience:*

- 02/1995 – 1/03/2017: Researcher, scientific collaborator and assistant, Lab. of Petrology and Economic Geology, Dept. of Mineral Resources Engineering, Technical University of Crete.

- 1/03/2017 - Today: Specialized Technical Laboratory Staff, Lab. of Petrology and Economic Geology, Dept. of Mineral Resources Engineering, Technical University of Crete
- 10/1995 - Today: Member of Technical Chamber of Greece.
- 05/1997 – 08/1997: Scholarship by the Italian Agency for New Technologies - Energy - Environment & Economic Sustainable Development, E.NE.A (Ente per le Nuove Tecnologie, l' Energia e l' Ambiente / Divisione ERG-SIRE DINT / Sistemi Energetici per la Mobilità e l' Habitat): Restoration operations for the conservation – renovation of monuments of the Archaeological Roman Park and exhibits of the National Museum of Rome in the frame of the European Research Programme «P.A.R.C.O». (Determination of original building materials characteristics and deterioration state, investigation of restoration methods criteria, composition of new building materials proposed).
- 09/1998 – 08/1999: Member of the “Scientific Committee for Historical Buildings, Monuments and Landscaping issues” of the Technical Chamber of West Crete, Greece.
- 1998 – Today: Scientific and teaching assistance on the laboratorial courses of “Petrology” and “Technology of Building & Raw Materials” of the School of Mineral Resources Engineering Graduate Program Studies..
- 2011- Today: Scientific and teaching assistance on the laboratorial course of “Mineralogy” of the School of Mineral Resources Engineering Graduate Program Studies.

***Research Scientific Interests and Experience:***

- 1994 – Today: Worked in numerous case studies for restoration – renovation works on monuments and historic buildings of Greece and elsewhere, investigating the nature and the technical characteristics of the building materials, the deterioration state and factors, the operations to be applied as well as the composition of the new building materials proposed.
- Scientific instruments operation (calibration, technical controls, preservation, results evaluation) mainly including climatic chamber for artificial aging, EDXRF, optical microscopes, fluxer automatic machine, flamemeter etc
- Her research interest focus mainly in the conservation of cultural heritage through all aspects of materials study, technologies and methodologies development and investigation.

***Publications:***

- Μαρκόπουλος Θ., Ρεπούσκου Ε., Ροτόντο Π., (1998) : Ορυκτολογική μελέτη των δομικών υλικών των μνημείων CASTELLO DEI CAETANI και VILLA DEI QUINTILI της Αρχαίας Ρωμαϊκής Οδού (Via Appia Antica) στη Ρώμη. Δελτ. Ελλ. Γεωλ. Εταιρ., 32/3, Πρακ. 8<sup>ο</sup> Συνεδρίου 1998, Πάτρα, 29-37.
- Markopoulos T.; Repouskou E. & Rotondo P., (1998): Mineralogical study of building materials from the monuments Castello dei Caetani and Villa dei Quintili on the Ancient Appian Road (Via Appia Antica), Rome. Terra Nostra

98/3, Geo-Berlin '98, 150 Jahre Deutsche Geologische Gesellschaft, 6-9. Oktober 1998, Technische Universität Berlin, Programm und Zusammenfassungen der Tagungsbeiträge.

- Markopoulos T.; Repouskou E. & Rotondo P., (1999): Mineralogical study of building materials from the archeological site Vigna Barberini in Rome. Berichte der Deutschen Mineralogischen Gesellschaft, Beihefte zum European Journal of Mineralogy Vol. 11, p.152, Referate der Vorträge und Poster, 77. Jahrestagung der Deutschen Mineralogischen Gesellschaft im Rahmen der MinWien 1999, vom. August bis. 1. September 1999 in Wien.
- Markopoulos Th.; Perdikatsis V.; Rotondo P.; Manutsoglou E.; Lambrinouidakis V. & Ninis N, (2003): Materials used for coatings in the external perimetric drainage zone of the Gymnasion at the Asklepeion of Epidauros in Greece. Proceedings of International Symposium “Industrial Minerals and Building Stones” IBMS 2003, September 15-18, 2003 Istanbul, pp. 807-814
- Markopoulos Th., Rotondo P., Chrysafaki G., Mousourakis A., Evaluation of mudstone formations from Crete and their suitability for rammed earth and adobe production, International Scientific Conference SGEM, Conference proceedings 1, 2008, p.659-673
- Markopoulos Th., Rotondo P., Chrysafaki G., Mousourakis A., Pantinakis A., Pantzekos P., Measurement of mechanical strength, thermal conductivity and moisture of earth samples from Crete, Greece, containing clay and straw for architectural applications, 1<sup>st</sup> Mediterranean Conference on Earth Architecture, Mediterra 2009, Conference Proceedings vol.1, p.527 -535
- Γ. Τριανταφύλλου, Θ. Μαρκόπουλος, Γ. Αλεβίζος, Π. Ροτόντο, Κ. Λεωνιδάκη, Β. Παπαδοπούλου, Μελέτη κονιαμάτων και επιχρισμάτων για τη συντήρηση και αποκατάσταση του Ι.Ν Γενεσίου της Θεοτόκου στην Κορωνησία του Νομού Άρτας, 6<sup>ο</sup> Συμπόσιο Ελληνικής Αρχαιομετρικής Εταιρίας, 16-18 Μαΐου 2013
- Despina Pentari, Pavlina Rotonto, Irini Kasioti Vonaparti, Determination of Light Rare Earth Elements in Geological Material by Energy Dispersive X-ray Fluorescence Spectroscopy. Evaluation of different calibration methods, 11<sup>th</sup> Aegean Analytical Chemistry Days (AACD 2018) , 25-29 Sept.2018, Chania, Crete
- ***Languages and computer skills:***
  - English (First Certificate και TESPIS Certificate),
  - French (Premier Certificat)
  - MS Windows XP, 7, 10, MS Office