

# PhD Candidate Nikolaos S. Katsiotis

## National Technical University of Athens (N.T.U.A.)

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## University of Ioannina (U.o.I.)

Laboratory of Mechanical Behaviour & Quality Control of Materials, Concrete Technology & Quality of Structures, Department of Materials Science & Engineering  
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### Research Interests:

- ∞ Cement & Concrete Technology
- ∞ Non-Destructive Techniques & Methods of Testing
- ∞ Building Materials & Sustainable Construction

### Education:

~ PhD Candidate in Chemical Engineering – School of Chemical Engineering, National Technical University of Athens (2008-2013). **PhD Thesis:** *"Examination of the possibilities for the contribution of non-destructive methods of testing in the diagnosis and quality control of building materials with emphasis on sustainable construction"*.

~ Diploma in Mining & Metallurgical Engineering – School of Mining & Metallurgical Engineering, National Technical University of Athens (2001-2006). **Diploma Thesis:** *"Design & Development of innovative products and applications for geopolymerised perlite from Milos island"*. Awarded the *"Thomaidion Award for Best Original Diplomatic Thesis in a thematic field with an inter-scientific subject and interest"* for the year 2006.

### Research Experience:

#### Published papers in International Journals (with peer review):

- Patsikas, N., Katsiotis, N., Pipilikaki, P., Papageorgiou, D., Chaniotakis, E., Beazi-Katsioti, M., "Durability of mortars of white cement against sulfate attack in elevated temperatures", *Construction and Building Materials*, Volume 36, November 2012, Pages 1082-1089
- A. Moropoulou, K. Labropoulos, N. Katsiotis, ***"Assessing the Preservation State and Revealing Plastered Mosaics in Hagia Sophia Using Ground Penetrating Radar"***, *Journal of Materials Science and Engineering*, Volume 2, 2012, p.p. 183-189
- M. Beazi, N. Patsikas, P. Pipilikaki, N. Katsiotis, K. Mikedi, M. Chaniotakis, ***"Delayed Ettringite Formation (DEF) in Mortars of White Cement"***, *Construction and Building Materials*, Volume 25, 2011, p.p. 900–905
- M. Beazi, N. Katsiotis, G. Rouni, D. Bakirgis, M. Loizidou, ***"The effect of bentonite/cement binder mixtures for the stabilized/solidified of sewage sludge containing heavy metals"***, *Cement & Concrete Composites*, Volume 30, 2008, p.p. 1013-1019

#### Refereed Conference Papers (with Proceedings):

- N. Katsiotis, T. Matikas, A. Moropoulou, ***"Investigation of the contribution possibilities of non-destructive methods of testing for the diagnosis and quality control of building materials with emphasis given on sustainable construction"***, SPIE "Smart Structures/NDE", Proceedings Volume 8346 (1) (11-15<sup>th</sup> March 2012, San Diego, USA)
- A. Moropoulou, K. Labropoulos, N. Katsiotis, ***"Application of ground penetrating radar for the assessment of the decay state of Hagia Sophia's mosaics"***, Proceedings of the 5<sup>th</sup> Conference on Emerging Technologies in NDT "Emerging Technologies in Non-Destructive Testing V" (19-21<sup>st</sup> September 2011, Ioannina)