

Stamatoula Papaioannou

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- 🌐 Stamatoula Papaioannou

Birthday: 07/12/1994

WORK EXPERIENCE

- Sep 2018 - Now* Research assistant
N.C.S.R. "DEMOKRITOS" – Institute of Nanoscience and Nanotechnology
AKEISTHAI Research Project: Self-healing and self-sensing nano-composite conservation mortars
- Apr 2018 - Aug 2018* Research assistant
Technological Education Institution of Chalkida - Faculty of Applied Technology - Department of Electrical Engineering - Laboratory of Chemistry and Materials Technology - European Project "I-ThERM"
- Mar 2017 - Sep 2017* TITAN CEMENT SA - Research and Development Department.
Conducting experiments in the framework of diploma thesis:
"Hydration study of sulfoaluminate cement with supplementary cementitious materials"
Evaluation of the raw materials and the hydrated specimens through the techniques: XRD, SEM, XRF, Optical Microscope, Compressive and flexural strength, Blaine-Specific Weight
- Sep 2016 - Oct 2016* Internship
COLGATE-PALMOLIVE COMPANY - Quality Control Department
 - Preparation of Performance Qualification Protocols

EDUCATION

- Sep 2018 - Now* Ph.D. Candidate
N.C.S.R. "DEMOKRITOS" – University of Ioannina, School of Engineering, Department of Materials Science and Engineering
"Development of encapsulated healing agents for the production of self-healing cements"
- Oct 2012 - Oct 2017* M.Eng. in Chemical Engineering (GPA: 7.66/10)
National Technical University of Athens (N.T.U.A)
Direction "Organic Industries – Polymers"
Diploma thesis: "Hydration study of sulfoaluminate cement with supplementary cementitious materials"

CONFERENCE PROCEEDINGS

- [1] Amenta, M., Papaioannou, S., Kilikoglou V., Karatasios, I. Morphological and Chemical Characterization of Self-Healing Products in MgO Concrete, Proceedings of the 3rd RILEM Spring Convention and Conference (RSCC 2020), RILEM Bookseries, vol 34. Springer, DOI: 10.1007/978-3-030-76465-4_30
- [2] Amenta, M., Metaxa, Z. S., Papaioannou, S., Katsiotis, M. S., Gournis, D., Kilikoglou, V., Karatasios, I., Strength recovery of nano-reinforced cement mortars as parameter of self-healing evaluation: a methodological approach, 10th International Conference on Fracture Mechanics of Concrete Structures, France, 2019

- [3] Amenta, M., Papaioannou, S., Katsiotis, M. S., Gournis, D., Kilikoglou, V., Karatasios, I., Autogenic vs. autonomic self-healing process in conservation mortars with crystalline admixture, 5th Historic Conference Mortars, Spain, 2019
- [4] Papaioannou, S., Gournis, D., Euthimiadou, E. K., Kilikoglou, V., Karatasios, I., Controlled synthesis of monodispersed silica particles in micro-scale, for developing self-healing mortars, 12th Hellenic Scientific Conference of Chemical Engineering, Greece, 2019
- [5] Amenta, M., Papaioannou, S., Giannakopoulos, G., Kilikoglou, V., Katsiotis, M. S., Karatasios I., Study of the self-healing mechanism of cementitious mortars with crystalline admixtures, 12th Hellenic Scientific Conference of Chemical Engineering, Greece, 2019
- [6] Pandis, P., Papaioannou, S., Koukou, M., Vrachopoulos, M., Stathopoulos, V., Differential scanning calorimetry based on evaluation of 3D printed PLA for phase change materials encapsulation or as container material of heat storage tanks, Energy Procedia, 2019, 161, pp. 429–437

ARTICLES

- [1] Papaioannou, S., Amenta, M., Kilikoglou, V., Gournis, D., Karatasios, I., Synthesis and integration of cement-based capsules modified with sodium silicate for developing self-healing cements, Construction and Building Materials, 2022, 316, 125803
- [2] Amenta, M., Metaxa, Z. S., Papaioannou, S., Katsiotis, M. S., Kilikoglou V., Kourkoulis S. T., Karatasios, I. Quantitative evaluation of self-healing capacity in cementitious materials, Material Design & Processing Communications, 2020, DOI: 10.1002/mdp2.152
- [3] Litina, C., Bumanis, G., Anglani, A., Dudek, M., Maddalena, R., Amenta, M., Papaioannou, S., Pérez, G., García Calvo, G. L., Asensio, E., Cobos, R. B., Pinto, F. T., Augonis, A., Davies, R., Guerrero, A., Moreno, M. S., Stryzewska, T., Karatasios, I., Tullian, J. M., Antonaci, P., Bajare, D., Al-Tabbaa, A. Evaluation of Methodologies for Assessing Self-Healing Performance of Concrete with Mineral Expansive Agents: An Interlaboratory Study, Materials Vol. 14 (2021). DOI: 10.3390/ma14082024
- [4] Papaioannou, S., Amenta, M., Kilikoglou, V., Gournis, D., Karatasios, I. Critical Aspects in the Development and Integration of Encapsulated Healing Agents in Cement and Concrete, Journal of Advanced Concrete Technology, Vol. 19, 301-320 (2021). DOI: 10.3151/jact.19.301
- [5] P. Pandis, S. Papaioannou, V. Siaperas, A. Terzopoulos, V. Stathopoulos, Evaluation of Zn- and Fe- rich organic coatings for corrosion protection and condensation performance on waste heat recovery surfaces, International Journal of Thermofluid, 2020, 3-4, 100025

POSTERS

- [1] S. Papaioannou, D. Koumpouri, P. Tsakiridis, N. Katsiotis, M. Beazi Katsioti, Study of hydration of sulfoaluminate cements with parallel use of supplementary materials, 12th Hellenic Scientific Conference of Chemical Engineering, Greece 2019

SKILLS

<i>Languages</i>	Greece: Mother Tongue English: Fluent, C2 - Certificate of Proficiency in English, University of Michigan (May 2018)
<i>Computer software</i>	MS Office (MS Word, MS PowerPoint, MS Excel, MS Project, MS Visio, MS Mathematics), ImageJ, SimaPro, Prezi

INTERESTS

Volunteering work (care/hospitality of stray dogs), running, cinema, puzzles