EIRINI TZIVILOGLOU

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Education		
Jan. 13-Sept. 18	Doctoral studies	Delft University of Technology, NL
 PhD thesis title: " Research, design aggregates. PhD project fund that heals itself" 	"Biogenic self-healing mortar: material deve and development of self-healing mortars wi led by European research program (FP7) und	lopment and evaluation at lab scale". th encapsulated bacteria in lightweight ler the name "HEALCON- the concrete
Sept. 07 – Nov. 09	Master of Science	Delft University of Technology, NL
 Specialization: C Master thesis title particles". 	Cementitious materials- Design of concrete st e: "Self-healing in ECC materials with low c	ructures content of different microfibers and micro-
Sept.02 – Sept. 07	Degree in Civil engineering	University of Patras, GR
 Specialization: S Thesis title: "An Professional expensional ex	tructural engineering overview of the Seismic Hazard; Risk and R rience	ehabilitation objectives for Buildings"
Oct. 22 – present	Post-doctoral researcher	NCSR Demokritos, GR
Laboratory research ceramic capsules, N	h on the self-healing capacity of cementitious NSCR Demokritos, Greece.	s composites and historic mortars with
Sep. 21 – Sep. 22	Post-doctoral researcher	Aegean University, GR
Laboratory research Transformation of t Mechanical resp Electrical responanostructures.	h within the frame of Institutional Research I the Aegean Archipelago in Culture and Tour ponse of cementitious materials with carbon nse (e.g. electrical conductivity and impedan	Infrastructure "Interregional Digital ism (e-Aegean CulTour)" nanostructures. ace) of cementitious materials with carbon
Jan. 10 – Sep. 12	"ERGODOMIKI" Design & Constru	ction Company Athens, GR
Design and exeSite supervision	cution of residency buildings. and project budget estimation.	
Oct. 08 – Dec. 08	"IV-GROEP" Engineering office	Papendrecht, NL
 Internship program Project: "High-rise Design and calc Design and calc concrete core of 	in cooperation with TU Delft Dynamic Tower in Dubai" designed by arch culation of wind loads according Eurocode an culation of different "scenarios" for support f the building.	itect David Fisher. nd Dutch National Standards. ting-connecting the rotating floors to the
Laboratory, resea	arch experience and collaborations	
 Laboratory ex Laboratory ESEM-El crystallin Investiga cementiti 	xperience: ry testing of cementitious materials according DAX and FTIR analyses, stereo-microscopy e formations inside the healed cracks, tion of porosity and pore size distribution via ous materials and porous aggregates,	g to European standard codes, for the observation and identification of Mercury Intrusion Porosimetry (MIP) in

Use of oxygen micro-sensors for investigation of existence of bacterial activity in biogenic self-0 healing cementitious materials,

- Designing and development of crack permeability tests in cementitious material for the assessment of healing efficiency in cementitious materials and
- Designing and optimization of methodology/technique to embed biogenic healing agents into lightweight aggregates.
- Member of the RILEM Technical Committee 253 MCI-Micro-organisms-Cementitious Materials Interactions):
 - Co-organize and run a round robin test to examine the reproducibility of suggested laboratory methodology to assess the healing efficiency of mortar samples after cracking and healing treatment.
 - Collaboration with Ghent University (B), Bath University (UK), Northumbria University (UK) and IFSTTAR institute (FR).
 - Participation in the writing State-of-the-art report of the committee (to be published in 2019)
- Lead researcher of two work packages within HEALCON project:
 - Research of non-ureolytic biogenic healing agents and assessment of healing efficiency of mortars at laboratory scale.
 - Close collaboration with consortium members of HEALCON project (i.e. European universities, companies and research institutes).

• Standardization procedure

- Drafting of a standard document indicating a testing protocol for investigating self-healing capacity of mortar specimens.
- Collaboration with Dutch standardization committee (NEN)

Foreign languages

- English: Level C2 (Proficiency)
- German: Level B1 (Basic knowledge)
- Dutch: Level A2 (Basic knowledge)