

Research Interests

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My research interests include properties and durability of “concrete” as a construction material, with a special focus on the significance of chemical interactions within the cementitious materials on the consequences of durability problems in concrete.

My first project is on the investigation of the progress of “Carbonation” and “Alkali-Aggregate Reactions” in concrete, made with Cyprus’ local concrete materials and exposed to Cyprus environmental conditions. These investigations are mainly carried out with meso-scale civil engineering laboratory experiments.

My second project involves the use of artificial neural networks for the intelligent prediction of concrete performance; mainly in the aspects of concrete’s compressive strength and concrete’s carbonation depth progress.

My third project is on a special type of concrete- “Self-Compacting Concrete” which is emerging in North Cyprus in the last years. The setting time, permeability, flow and strength properties of self-compacting concrete made with Cyprus materials are investigated with meso-scale civil engineering laboratory experiments.