"Properties of Fique Fiber Reinforced Self Compacting Concrete"

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Prof. Delvasto will speak about fique fibers that are common natural fibers grown in Colombia that have potential in concrete materials.

Abstract: In this presentation are presented the results of an experimental study about the effect of embedding treated fique fiber into a Self-Compacting Concrete matrix. The tried lengths of the fiber were 10 and 20 mm. The fiber was previously treated with Lime and Sodium Silicate. The main conclusions were: It is possible the obtention of SCC with available materials. The treatment of the fiber improves the behavior of SCC reinforced with it. Wetting-Drying Cycles caused reduction of compressive strength for all the SCC. However, a small addition (0.5%) of treated fique fiber of higher length (20 mm) reduces the loss of strength.

Friday, May 14, 2010
3:00 – 4:00 PM
Room 1518 Hydro Laboratory