Extending the Life of Concrete Structures:
Institutional Activities and Innovative Technologies
by Prof. Antonio Nanni

Abstract
Extending the life of concrete structures has become a worldwide goal and has created an industry of its own. This presentation first covers how technical organizations in North America are responding to the need of creating standards and allowing for the acceptance of innovation in concrete repair. The second part of the presentation is devoted to a new emerging class of repair systems named fabric-reinforced cementitious matrix (FRCM). FRCM composites are suitable for strengthening concrete and masonry structures and are an alternative to traditional techniques (FRP, steel-plate bonding, section enlargement, etc.). Made of one or more layers dry fiber open mesh/s embedded in cement-based matrix, FRCM composites have the potential of becoming a new staple for the repair industry as demonstrated by laboratory experimentation and a number of field applications.

About the Speaker
Prof. Tony Nanni is a structural engineer interested in construction materials, their structural performance, and field application. His interests are in the field of civil infrastructure sustainability and renewal. In the past 28 years, he has obtained experience in concrete and advanced composites based systems as the principal investigator of projects sponsored by federal and state agencies, and private industry. Over the course of this time, his constant efforts in materials research have impacted the work of several ACI committees such as 325, 437, 440, 544, 549 and 562. Prof. Nanni has served in the Executive Committee of ASCE Materials Division and is the Editor-in-Chief of the ASCE Journal of Materials in Civil Engineering and serves on the editorial board of other technical Journals. He has advised over 60 graduate students pursuing MSc and PhD degrees, and published over 175 and 300 papers in refereed journals and conference proceedings, respectively. Tony has maintained a balance between academic and practical experience and has received several awards including the ASCE 2012 Henry L. Michel Award for Industry Advancement of Research, and the Engineering News-Record Award of Excellence for 1997, (Top 25 Newsmakers in Construction). He is a registered PE in Italy, FL, PA, MO, and OK.

All Interested Are Welcome
Please register online at http://www.polyu.edu.hk/fce/events/20130502_lecture/
For enquiries, please contact Miss Joyce Wong at Tel: 2766-5038 | Email: joyce.wong@polyu.edu.hk

Fee: Free of Charge
1) An attendance certificate will be issued to each registered participant.
2) Priority will be given to current members of the Alumni Associations under the Faculty of Construction and Environment. Please send a copy of your membership card to joyce.wong@polyu.edu.hk for verification.
3) Applicants (including members of Alumni Associations) with confirmed registration who fail to turn up may be put on lower priority in the registration for the future faculty lectures.

By registering for the lecture, you are taken to agree to the following terms and conditions:
1) There may be delays in both beginning and finishing the lecture (including the Q & A time). The Faculty will only distribute certificates to participants after the completion of the whole lecture as signified by the presentation of a souvenir to the speaker. Certificates of attendance will only be provided to participants if they attend the whole lecture.
2) Certificates of attendance will not be provided to participants who are late for 10 minutes or longer, or leave before the lecture is finished.
3) The Faculty reserves the right of final decision in any disputes over the issuance of certificates of attendance.