



# School of Graduate Studies and Research

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## **Faculty Research Colloquium**



## **Prof. Moayyad Al-Nasra**

Full Professor of Civil and Infrastructure Engineering Department  
School of Engineering

### ***“Conceptual Approach to Forensic Engineering”***

**3:30-4:30 PM, Wednesday, March 8, 2017**

**Building G, Ground Floor, G103 Conference Room**

#### *Abstract*

Forensic engineering is the art of infusing the principles of the law with the engineering practice. It covers selectively wide range of topics in a process of building bridges connecting the law with engineering. The advanced technology gave boost to the rise of the forensic engineering, lately, by providing advanced tools to investigate failure. This study covers basic concepts of forensic engineering, including the qualifications needed to become a successful forensic engineer, responsibilities of the forensic engineer, and the special code of ethics applied to the forensic engineering practice. Several case studies will be presented focusing on the application of the standard techniques and procedures related to the forensic engineering field. This study presents the forensic engineering form the practical point of view covering the challenges facing the forensic engineer in the present time and in the future. Forensic engineering main objective is to investigate failure and prove professional answers the questions; what happened, and how it happened. Providing solutions and suggestions for improvement could also be one of the major outcomes of the forensic engineering case. In addition to helping the justice system to decide on accidents by determining relevant facts, the forensic engineer can also provide valuable services to insurance companies as well as government agencies.

#### *About the Speaker*

Professor Moayyad Al-Nasra is currently a professor in the civil and infrastructural engineering department at the American University of Ras Al Khaimah, AURAK. Dr. Al-Nasra received his PhD in 1992 from Old Dominion University, Structural Engineering, Virginia, USA. Received several awards for teaching and research in the USA. Dr. Al-Nasra has over 30 years' experience in teaching and civil engineering practice mostly in the USA. He is licensed as professional engineering in the states of West Virginia, North Carolina, and Virginia. He established a successful civil engineering consulting firm, Nasra and Associates, Inc., providing consulting services as well as forensic engineering services. Prof. Al-Nasra authored and coauthored over 70 publications, including books, journal papers, and conference papers. His research interest includes finite element modeling, construction materials, erosion and sedimentation control, and fracture mechanics.