Drexel University
Civil, Architectural, and Environmental Engineering Department

Presents Guest Speaker:

Anil K. Kar, Ph.D., P.E., F.ASCE

Monday, April 6th at 4:30pm
Papadakis Integrated Sciences Building (PISB) 112
Drexel University
33rd and Chestnut Streets, Philadelphia, PA

Dr. Kar will speak about his award-winning invention, the **PSWC-Bar**, a steel reinforcing bar, used to transform concrete into useful reinforced concrete. PSWC-bar has a plain surface and a deformed axis to give it a gentle wave-type configuration. The PSWC-Bar has the capacity to enhance the life span of concrete structures, and to impart great ductility and energy absorbing capacities, without having to incur any additional cost. Tests have shown that PSWC-bar makes reinforced concrete structures much more ductile. There is also a greater increase in the energy absorbing capacities, thereby making the PSWC-bar ideal for earthquake resistant structures. The use of PSWC-bars also increases the load carrying capacities of concrete beams and columns.

Dr. Kar will be visiting the United States from India to receive the American Society of Civil Engineer's Henry L. Michel Award for Industry Advancement of Research. Dr. Kar has over fifty years' experience in engineering management, research, analysis and design for structural systems, engineering for nuclear power plant facilities in different countries, industrial and other projects, weapon design, missile impact, warheads and explosion, shock and vibration, structural rehabilitation and enhancement of life span of concrete structures and also holds several Indian and International patents. Dr. Kar is also the developer of Permakar Technology for structural rehabilitation, waterproofing systems and protection of structures against corrosive elements; the Kar Formulae, used worldwide in weapon design and protective design for missile impact; and co-developer of the Kar-Okazaki method for the analysis of non-linear systems.

If questions contact: Dr. Abi Aghayere at abi@drexel.edu or Dr. Ahmad Hamid at hamidaa@drexel.edu

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