

2020 FAZLUR RAHMAN KHAN DISTINGUISHED LECTURE SERIES

*The Fazlur Rahman Khan Distinguished Lecture Series honors Dr. Fazlur Rahman Khan's
legacy of excellence in structural engineering and architecture*

Initiated and Organized by PROFESSOR DAN M. FRANGOPOL

The Fazlur Rahman Khan Endowed Chair of Structural Engineering and Architecture
Department of Civil and Environmental Engineering, ATLSS Engineering Research Center, Lehigh University
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1st Lecture: JON PICKARD, Principal, Pickard Chilton, New Haven, CT

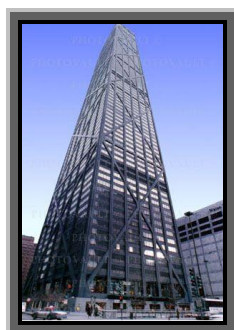
"Gracing the Sky, Enriching the City"
Friday, February 28, 2020 – 4:30 pm

2nd Lecture: PHILIP GOULD, Senior Professor, Washington University, St. Louis, MO

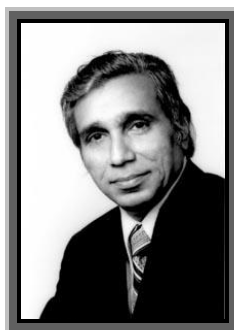
"From Slide Rule to FEA: Some Stops Along the Way"

3rd Lecture: GREGORY DEIERLEIN, John A. Blume Professor in the School of Engineering, Stanford University, Stanford, CA
"From Performance-Based Earthquake Engineering to Functional Recovery and Resilience"
Friday, April 17, 2020 – 4:30 pm

<http://www.lehigh.edu/frkseries>



John Hancock Center



Fazlur Rahman Khan



Sears Tower

In step with the abounding vitality of the time, structural engineer **FAZLUR RAHMAN KHAN** (1929 — 1982) ushered in a renaissance in skyscraper construction during the second half of the 20th century. Fazlur Khan was a pragmatic visionary: the series of progressive ideas that he brought forth for efficient high-rise construction in the 1960s and '70s were validated in his own work, notably his efficient designs for Chicago's 100-story John Hancock Center and 110-story Sears Tower (the tallest building in the United States since its completion in 1974). One of the foremost structural engineers of the 20th century, Fazlur Khan epitomized both structural engineering achievement and creative collaborative effort between architect and engineer. Only when architectural design is grounded in structural realities, he believed — thus celebrating architecture's nature as a constructive art rooted in the earth — can "the resulting aesthetics ... have a transcendental value and quality." His ideas for these sky-scraping towers offered more than economic construction and iconic architectural images; they gave people the opportunity to work and live "in the sky." Hancock Center residents thrive on the wide expanse of sky and lake before them, the stunning quiet in the heart of the city, and the intimacy with nature at such heights: the rising sun, the moon and stars, the migrating flocks of birds. Fazlur Khan was always clear about the purpose of architecture. His characteristic statement to an editor in 1971, having just been selected Construction's Man of the Year by *Engineering News-Record*, is commemorated in a plaque in Onterie Center (446 E. Ontario, Chicago): **"The technical man must not be lost in his own technology. He must be able to appreciate life; and life is art, drama, music, and most importantly, people."**

DAN M. FRANGOPOL came to Lehigh University in August 2006 from the University of Colorado at Boulder where he taught since 1983. He received his doctorate in applied sciences from the University of Liège, Belgium. A Distinguished Member of ASCE, a Foreign Member of the Academy of Europe, a Foreign Member of the Royal Academy of Belgium for Science and the Arts, and an Honorary Member of the Romanian Academy, Prof. Frangopol holds four honorary doctorates from the Polytechnic University of Milan, Italy, the University of Liège, Belgium, the Technical University of Civil Engineering, Bucharest, Romania, and the Technical University of Iasi, Romania. Before joining the University of Colorado, he worked for four years in structural design with A. Lipski Consulting Engineers in Brussels, Belgium. Frangopol is an experienced researcher and consultant to industry and government agencies both nationally and abroad. His main areas of expertise are structural reliability, structural optimization, bridge engineering, and life-cycle analysis, design, maintenance and management of structures and infrastructures. Frangopol is the Founding President of the *International Association for Bridge Maintenance and Safety* (IABMAS) and the *International Association for Life-Cycle Civil Engineering* (IALCCE). He is an Honorary Professor at 12 universities including Hong Kong Polytechnic, Tongji, Southeast, Tianjin, Harbin, Dalian, and Chang'an Universities, and the recipient of several awards and honors including the 2016 ASCE OPAL Leadership Award for Education, the 2016 Ang Award, the ASCE Lehigh Valley Section's 2016 Civil Engineer of the Year, the 2014 and 2001 Croes Medal, the 2012 Wellington Prize, the 2007 Howard Award, the 2006 T. Y. Lin Medal, the 2006 Munro Prize, the 2006 IABSE OPAC Award, the 2005 Newmark Medal, the 2004 Kajima Research Award, the 2003 Moisseiff Award, and the 2001 IASSAR Research Prize. Frangopol is also the Founding Editor-in-Chief of *Structure and Infrastructure Engineering* an international peer-reviewed journal included in the Science Citation Index.



1 PDH will be awarded to eligible attendees for each lecture

Please contact the Khan Chair office at 610-758-6123 or Email: infrk@lehigh.edu with any questions.

Location: Whitaker Laboratory, Lehigh University
5 East Packer Avenue, Room 303 (Street Level), Bethlehem, PA