

The Fazlur Rahman Khan Distinguished Lecture Series

2007

Honoring a legacy in structural engineering and architecture

2023

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



Fazlur Rahman Khan

1929 - 1982

Fazlur Rahman Khan ushered in a renaissance in skyscraper construction during the second half of the 20th century. Khan was a pragmatic visionary: the series of progressive ideas that he brought forth for efficient high-rise construction in the 1960s and 1970s 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).

His characteristic statement to an editor in 1971, having just been selected Construction's Man of the Year by Engineering News Record, is commemorated on a plaque in Onterie Center, 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."

Lynn S. Beedle

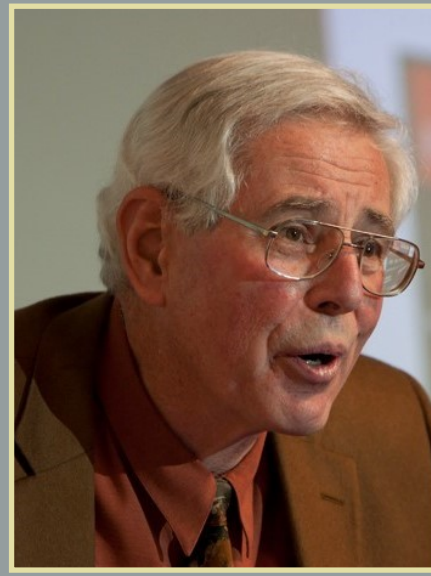
1917 - 2003

In July 1947, Lynn joined Lehigh University as Research Instructor and rose to Full Professor in 10 years. In recognition of his professional and research achievements, he was appointed to a University Distinguished Professorship in 1978.

Following the premature death of Fazlur Khan in 1982, Beedle organized the establishment at Lehigh University of the Fazlur Rahman Khan Endowed Chair.

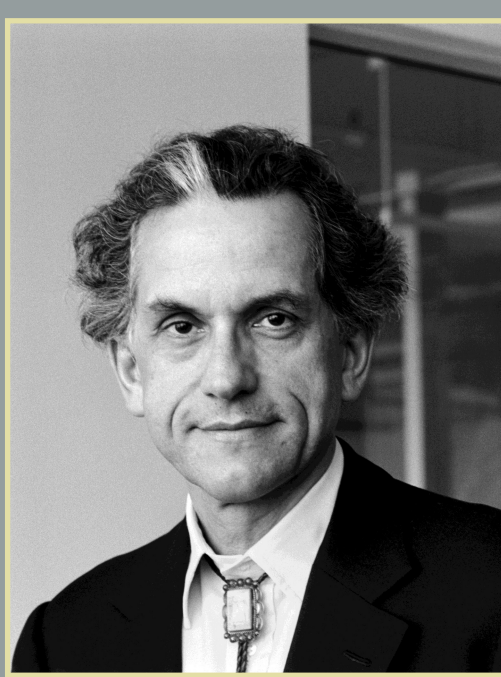


2023 SPEAKERS



Tom O'Rourke

Thomas R Briggs Professor of Engineering Emeritus
School of Civil and Environmental Engineering
Cornell University, Ithaca, NY
Next Generation Hazard Resilient Infrastructure
February 24, 2023



Guy Nordenson

Guy Nordenson and Associates, Partner
Structural Engineers LLP, New York NY;
Professor of Architecture and Structural Engineering,
School of Architecture
Princeton University, Princeton, NJ
Working Structures
March 31, 2023



Kumares C. Sinha

Edgar B. and Hedwig M. Olson Distinguished Professor of Civil Engineering
Lyles School of Civil Engineering
Purdue University, West Lafayette, IN
*Next Generation Urban Transportation,
Urban Living, and the Role of Tall Buildings*
April 28, 2023



Anne S. Kiremidjian

The C. L. Peck, Class of 1906 Professor in Engineering
Department of Civil Engineering and Stanford Doerr School of Sustainability
Stanford University, Stanford, CA
*Time-Dependent Earthquake Risk Assessment
Modeling with Life-Cycle Analysis*
October 27, 2023



Jerome P. Lynch

Vinik Dean of Engineering
Fitzpatrick Family University Distinguished Professor of Engineering
Professor of Civil and Environmental Engineering
Professor of Electrical and Computer Engineering
Duke University, Durham, NC
*Elevating the Performance of the Built Environment
through Cyberphysical Systems*
December 4, 2023

SPEAKERS - 2022



Stephen J. Ressler
Professor Emeritus from the U.S. Military Academy (USMA) at West Point, NY. Current President of the Lehigh Valley Section, American Society of Civil Engineers (ASCE) Bethlehem, PA.
The Ashabula Bridge Disaster and the Advent of Civil Engineering Professionalism
February 18, 2022



Adrian D. Smith
Partner
Adrian Smith + Gordon Gill Architecture
Chicago, IL
Supertall Towers + Green Cities
March 25, 2022



Mitsuyoshi Akiyama
Professor and Chair of the Department of Civil & Environmental Engineering, Waseda University, Tokyo, Japan
Increasing the Resilience of Highway Bridges Under Multiple Hazards Including Earthquake, Tsunami, Corrosion and Climate Change
April 29, 2022



Billie F. Spencer, Jr.
Professor and Endowed Chair of the Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL.
Performance of Dynamically Excited Structures through Optimization and Monitoring
November 18, 2022

SPEAKERS - 2021



Jeanne Gang
Founding Principal and Partner
Studio Gang
Chicago, IL
Crossing Domains
February 18, 2021 (virtual event)



Jack Moehle
Professor of the Graduate School
University of California, Berkeley, CA
Performance-based Seismic Design of Tall Buildings
March 11, 2021 (virtual event)



P. Benson Shing
Professor, Department of Structural Engineering
University of California, San Diego, CA
Understanding the Seismic Performance of Structural Systems through Large-scale Experiments and Computational Simulations
April 15, 2021 (virtual event)



Phillip L. Gould
Distinguished Adjunct Professor,
St. Louis University and Senior Professor,
Washington University, St. Louis, MO
From Side Rule to FEA: Some Highlights Along the Way
October 27, 2021



Richard Sause
Professor of Structural Engineering; Director,
Advanced Technology for Large Structural Systems (ATLSS) Center; Director, Institute for Cyber
Physical Infrastructure & Energy, Lehigh University,
Bethlehem, PA.
A Research Perspective on Seismic Performance of Steel Building Structures
November 17, 2021

SPEAKERS - 2020



Jon Pickard
Principal, Pickard Chilton, New Haven, CT
Gracing the Sky, Enriching the City
February 23, 2020



Aftab A. Mufti
Emeritus Professor, University of Manitoba, Winnipeg, Manitoba, Canada
Intelligent Sensing for Innovative Structures: Development of the New Discipline of Civionics
October 22, 2020 (virtual event)



Gregory Deierlein
John A. Blume Professor, School of Engineering, Stanford University,
Stanford, CA
From Performance-based Engineering to Urban Resilience
November 19, 2020 (virtual event)

SPEAKERS - 2019



Kishor Mehta
P. W. Horn Professor of Civil Engineering, Texas Tech University,
Lubbock, TX
Evolution of Assessment of Wind Speeds in Tornadoes
February 22, 2019

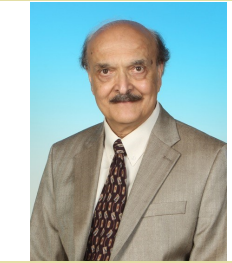


SawTeen See
President, See Robertson Structural Engineers, LLC, New York, NY
Some Long-Span and Some Tall Buildings
March 29, 2019



Karl H. Frank
Consultant and Professor Emeritus, University of Texas at Austin,
Austin, TX
The Role of Quality Control in Some Notable Bridge Problems
April 12, 2019

SPEAKERS - 2018



Surendra P. Shah
Walter P. Murphy Professor of Civil Engineering (Emeritus),
Northwestern University, Evanston, IL
Sustainability in Concrete Construction Based on Nanotechnology
February 23, 2018



Robert Sinn
Principal, Thornton Tomasetti, Chicago, IL
From Bilbao to Jeddah: An Engineer's Journey
March 23, 2018



Yozo Fujino
Distinguished Professor, Institute of Advanced Sciences, Yokohama,
National University — Yokohama, Japan
Lessons Learned from 30 Years of Experience in Dynamics, Monitoring and Control of Bridges
April 13, 2018

SPEAKERS - 2017



Eugen Brühwiler
Professor and Dr. Structural Engineer, Swiss Federal Institute of
Technology, Lausanne, Switzerland
Getting More Out of Existing Bridges
February 17, 2017



Lawrence C. Griffis
Senior Principal/Senior Consultant, Walter P. Moore and Associates,
Inc., Austin, TX
Design and Construction of Cowboys Stadium
March 31, 2017



Peter A. Weismantle
Director of Supertall Building Technology, Adrian Smith + Gordon Gill
Architecture, Chicago, IL
Architectural Technical Design of the New Generation of Supertall Buildings
April 21, 2017

SPEAKERS - 2016



Ronald O. Hamburger
Senior Principal, Simpson Gumpertz & Heger, Inc., San Francisco, CA
Performance-based Design: What, How, When, Why, and Why Not to Use It
March 4, 2016



John Zils
Senior Structural Consultant, Skidmore Owings & Merrill, LLP, Chicago, IL
Lessons Learned
April 15, 2016



Jin-Guang Teng
Chair Professor of Structural Engineering, The Hong Kong Polytechnic
University, Hong Kong, China
Structural Use of FRP Composites in Construction: Past Achievements and Future Opportunities
April 22, 2016

SPEAKERS - 2015



William Pedersen
Founding Design Partner, Kohn Pedersen Fox Associates, New York, NY
Balancing
February 20, 2015



Glenn R. Bell
Chief Executive Officer, Simpson Gumpertz & Heger, Waltham, MA
Structural Engineering at Mid-21st Century: Reengineering Our Roles
March 20, 2015



Peter Marti
Professor of Structural Engineering, ETH Zurich, Zurich, Switzerland
Science and Art of Structural Engineering
April 17, 2015

SPEAKERS - 2014



James R. Harris
Principal, J. R. Harris & Company, Denver, CO
The Evolution of Building Design to Resist Earthquakes
February 15, 2014



Jon D. Magnusson
Senior Principal, Magnusson Klemencic Associates, Seattle, WA
Structure Becoming Architecture: Case Studies of Aesthetics, Form and Efficiency
March 22, 2014



Charles H. Thornton
Chairman, Charles H. Thornton & Company, LLC, New York, NY
Renaissance, Rebirth and Disruptive Innovation
April 19, 2014

SPEAKERS - 2013



R. Shankar Nair
Senior Vice President, exp US Services Inc., Chicago, IL
The Evolution of the Skyscraper
February 15, 2013

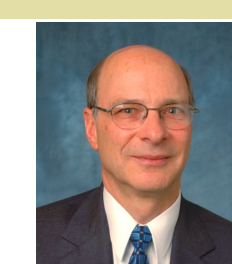


John M. Kulicki
Chairman/CEO, Modjeski and Masters Inc., Mechanicsburg, PA
Observations on AASHTO Bridge Design
March 22, 2013

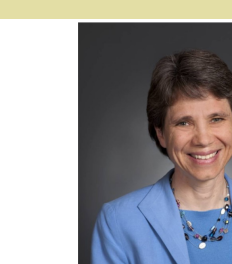


Alfredo H-S. Ang
Research Professor, University of California, Irvine, CA
Minimizing the Effects of Uncertainties in Developing Reliability-Based Design Criteria
April 19, 2013

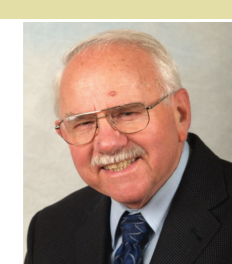
SPEAKERS - 2012



Ross B. Corotis
Denver Business Challenge Professor of Engineering, University of
Colorado at Boulder, Boulder, CO
Natural Hazard Risk: Public Perceptions & Political Perversities
February 17, 2012



Sharon L. Wood
Robert L. Parker, Sr. Professor in Engineering and Chair, Department of
Civil, Architectural, and Environmental Engineering, University of Texas
at Austin, Austin, TX
Opportunities and Challenges for Infrastructure Monitoring
March 23, 2012



Ted V. Galambos
Professor Emeritus, Structural Engineering, University of Minnesota,
Minneapolis, MN
The Safety of Bridges
April 20, 2012

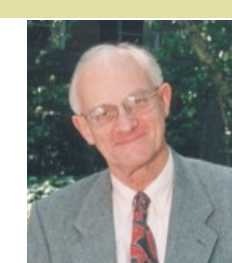
SPEAKERS - 2011



David Scott
Practice Leader, Arup, Americas Building, New
York, NY
Extreme Engineering
February 18, 2011



Chris D. Poland
Chairman & CEO, Degenkolb Engineers, San
Francisco, CA
Building Disaster Resilient Communities
April 8, 2011



David Billington
Gordon Y. S. Wu Professor of Engineering,
Princeton University, Princeton, NJ
Personal and Professional Recollections of Fazlur Khan
September 9, 2011

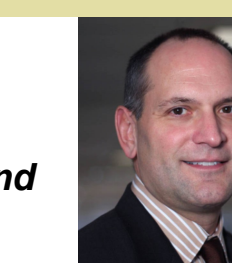


Masayoshi Nakashima
Professor, Kyoto University, Disaster
Prevention, Research Institute, Kyoto, Japan
Safeguarding Quality of Life: The Role of Large-Scale Testing
September 23, 2011

SPEAKERS - 2010



Zdeněk P. Bažant
McCormick Institute & Walter P. Murphy Professor, Northwestern University,
Evanston, IL
Progress Engendered by Collapses of Record Setting Structures: Malpasset Dam, World Trade Center Towers and KB Bridge in Palau
February 26, 2010



Ron Klemencic
President, Magnusson Klemencic Associates, Seattle, WA
OUTRAGEOUS!
March 19, 2010



John E. Breen
Professor/Nasser I. Al-Rashid Chair in Civil Engineering, The University
of Texas, Austin, TX
The ABCD's of Bridge Building: Affordable, Beautiful, Constructible, Durable
April 16, 2010

SPEAKERS - 2009



Leslie E. Robertson
Leslie E. Robertson Associates, R.L.L.P., New York, NY
The Architect and the Structural Engineer — Partners in Design
February 20, 2009

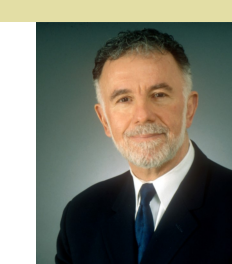


William F. Baker
Partner, Skidmore, Owings & Merrill, Chicago & London
Engineering the World's Tallest: Burj Dubai
March 20, 2009

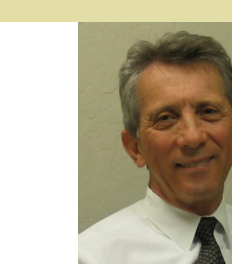


Bruce R. Ellingwood
Distinguished Professor & Raymond Allen Jones Chair, Georgia Institute
of Technology, Atlanta, GA
Abnormal Loads & Progressive Collapse — Assessment & Mitigation of Risk
April 17, 2009

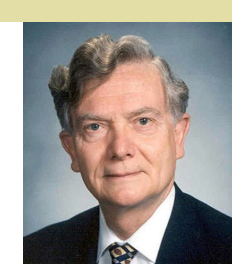
SPEAKERS - 2008



Richard Tomasetti
Thornton Tomasetti, Inc., New York, NY
Engineering of Major Architecture, Then and Now
February 15, 2008



Jeremy Isenberg
Past-President and CEO, Weidinger Associates, Inc., New York, NY
Structural Design for Security—Past Accomplishments and Future Directions
March 14, 2008



John W. Fisher
Professor Emeritus of Civil Engineering, Lehigh University, Bethlehem,
PA
Overcoming Barriers to Durable Steel Bridge Systems
April 18, 2008

SPEAKERS - 2007



Mark Sarkisian
Partner, Skidmore, Owings & Merrill, San Francisco, CA
Khan's Vision
February 9, 2007



Man-Chung Tang
Chairman of the Board, T.Y. Lin International, San Francisco, CA
Why? Why Not? What If?
March 16, 2007



W. Gene Corley
Senior Vice President, CTLGroup, Skokie, IL
Learning from the Attacks on an American Icon - World Trade Center Building: Performance Study
April 20, 2007

Fazlur Rahman Khan Endowed Chair of Structural Engineering and Architecture <http://www.lehigh.edu/~dmf206>

Lehigh University endowed a chair in structural engineering and architecture in Khan's honor and in August 2006 appointed Professor Dan M. Frangopol, an expert in structural reliability, optimization, civil infrastructure systems, and life-cycle engineering, as the university's inaugural holder of the Fazlur Rahman Khan Endowed Chair of Structural Engineering and Architecture. Dr. Frangopol is the initiator and organizer of the Fazlur Rahman Khan Distinguished Lecture Series.