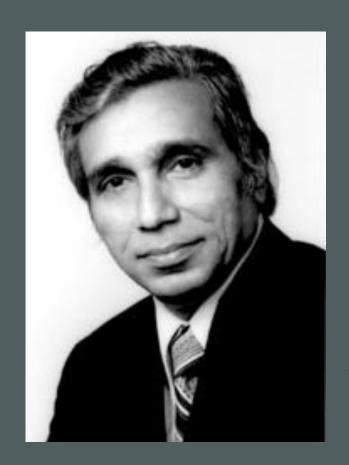
## The Fazlur Rahman Khan Distinguished Lecture Series

## Honoring a legacy in structural engineering and architecture

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.

**SPEAKERS - 2023** 

**SPEAKERS - 2021** 

P. Benson Shing
Professor, Department of Structural Engineering
University of California, San Diego, CA

of the New Discipline of Civionics

**SPEAKERS - 2019** 

April 15, 2021 (virtual event)

October 22, 2020 (virtual event)

Understanding the Seismic Perfomance of

Edgar B. and Hedwig M. Olson

Next Generation Urban

Lyles School of Civil Engineering,

Distinguished Professor of Civil Engr,

Purdue University, West Lafayette, IN

ransportation, Urban Living, and



Jerome P. Lynch

Vinik Dean of Engineering,

Duke University, Durham, NC

through Cyberphysical Systems

**Richard Sause** 

## 2024 SPEAKERS



Armen Der Kiureghian

Taisei Professor of Civil Engineering Emeritus University of California, Berkeley **President Emeritus American University of Armenia** (affiliate of University of California)

Challenges in Future Development of Structural Reliability Methods

February 2, 2024



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



rofessor Emeritus from the U.S. Military Academy

ehigh Valley Section, American Society of Civil

Civil Engineering Professionalism

JSMA) at West Point, NY; Current President of the

The Ashtabula Bridge Disaster and the Advent of

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



Adrian D. Smith Adrian Smith + Gordon Gill Architecture Supertall Towers + Green Cities



/litsuyoshi Akiyama rofessor and Chair of the Department of Civil & Environmental ngineering, Waseda University, Tokyo, Japan ncreasing the Resilience of Highway Bridges Under Multiple Hazards Including Earthquake, Tsunami, Corrosion and Climate Change

Phillip L. Gould

Distinguished Adjunct Professor,

From Slide Rule to FEA:

St.Louis University and Senior Professor,

Washington University, St. Louis, MO

Some Highlights Along the Way October 27, 2021

Anne S. Kiremidjian

Doerr School of Sustainability,

Stanford University, Stanford, CA

Time-Dependent Earthquake Risk

Assessment Modeling with Life-Cycle

The C. L. Peck, Class of 1906 Professor in

Engineering, Dept Civil Engr and Stanford



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

Professor of Structural Engineering; Director, Advanced Technology for Large Structural Systems

Physical Infrastructure & Energy, Lehigh University,

Performance of Steel Building Structures

(ATLSS) Center; Director, Institute for Cyber

A Research Perspective on Seismic

Fitzpatrick Family University Distinguished Professor of

Engr, Professor of Civil and Environmental Engineering,

Elevating the Performance of the Built Environment

Professor of Electrical and Computer Engineering,



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

Jon Pickard

Surendra P. Shah

Eugen Brühwiler

James R. Harris

**David Scott** 

February 18, 2011

**Richard Tomasetti** 

Mark Sarkisian

Thornton Tomasetti, Inc., New York, NY

Extreme Engineering

Principal, Pickard Chilton, New Haven, CT

Gracing the Sky, Enriching the City

February 18, 2022



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



SPEAKERS - 2020 Emeritus Professor, University of Manitoba, Winnipeg, Manitoba, Canada Intelligent Sensing for Innovative Structures: Development



Karl H. Frank

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

Consultant and Professor Emeritus, University of Texas at Austin,

The Role of Quality Control in Some Notable Bridge



P. W. Horn Professor of Civil Engineering, Texas Tech University, **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

**SPEAKERS - 2018** 



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



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



Northwestern University, Evanston, IL Sustainability in Concrete Construction Based on Nanotechnology



**SPEAKERS - 2017** Senior Principal/Senior Consultant, Walter P. Moore and Associates,

**SPEAKERS - 2016** 

**SPEAKERS - 2015** 

**SPEAKERS - 2014** 

SPEAKERS - 2013

**SPEAKERS - 2012** 

**SPEAKERS - 2011** 

March 23, 2012

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



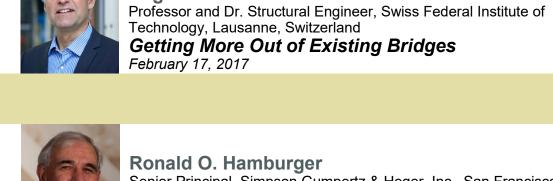


**Ahsan Kareem** 

Robert M. Moran Professor **NatHaz Modeling Laboratory** University of Notre Dame, Notre Dame, IN

Swaying Skyscrapers: Unveiling the Dance Between Wind and Tall Buildings Through the Ages

March 6, 2024



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



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



University, Hong Kong, China

Structural Use of FRP Composites in Construction: Past Achievements and Future Opportunities

Chair Professor of Structural Engineering, The Hong Kong Polytechnic



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



**Peter Marti** 

**Charles H. Thornton** 

Professor of Structural Engineering, ETH Zurich, Zurich, Switzerland Science and Art of Structural Engineering



Principal, J.R. Harris & Company, Denver, CO The Evolution of Building Design to Resist **Earthquakes** 



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



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



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

Practice Leader, Arup, Americas Building, New



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



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



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



**Chris D. Poland** 

Francisco, CA

April 8, 2011

Communities

Chairman & CEO, Degenkolb Engineers, San

**Building Disaster Resilient** 

Robert L. Parker, Sr. Professor in Engineering and Chair, Department of Civil, Architectural, and Environmental Engineering, University of Texas Opportunities and Challenges for *Infrastructure Monitoring* 



Gordon Y.S. Wu Professor of Engineering,

Princeton University, Princeton, NJ

Personal and Professional

September 9, 2011

Recollections of Fazlur Khan

Ted V. Galambos Professor Emeritus, Structural Engineering, University of Minnesota, The Safety of Bridges

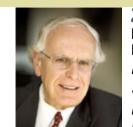


Mark G. Stewart

Distinguished Professor of Civil Engineering School of Civil and Environmental Engineering University of Technology Sydney New South Wales, 2007, Australia

Risk-Based Thinking for Extreme Events: What Do Terrorism and Climate Change Have in Common?

May 2, 2024



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



Ron Klemencic President, Magnusson Klemencic Associates, Seattle, WA

**OUTRAGEOUS!** 

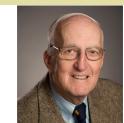
March 19, 2010

**SPEAKERS - 2010** 

**SPEAKERS - 2009** 

**SPEAKERS - 2008** 

**SPEAKERS - 2007** 



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

**Bruce R. Ellingwood**Distinguished Professor & Raymond Allen Jones Chair, Georgia Institute of Technology, Atlanta, GA

Abnormal Loads & Progressive Collapse –

Assessment & Mitigation of Risk

September 23, 2011

Masayoshi Nakashima

Professor, Kyoto University, Disaster

Role of Large-Scale Testing

Prevention, Research Institute, Kyoto, Japan

Safeguarding Quality of Life: The



The Architect and the Structural Engineer – Partners February 20, 2009

Engineering of Major Architecture, Then and Now

Partner, Skidmore, Owings & Merrill, San Francisco, CA



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



Past-President and CEO, Weidlinger Associates, Inc., New York, NY Structural Design for Security—Past Accomplishments and Future Directions



Professor Emeritus of Civil Engineering, Lehigh University, Bethlehem, Overcoming Barriers to Durable Steel Bridge





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

http://www.lehigh.edu/~dmf206

## Fazlur Rahman Khan Endowed Chair of Structural Engineering and Architecture

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.