

# 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

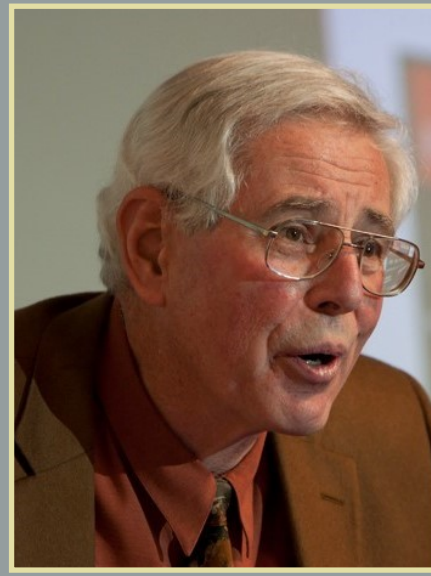
1917 - 2003

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

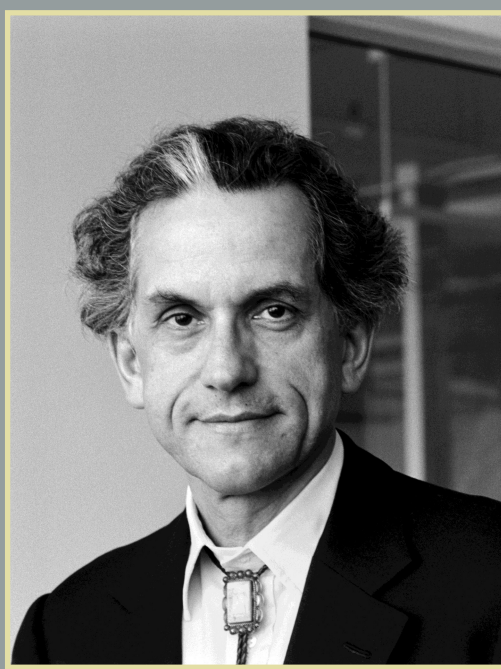


### Tom O'Rourke

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

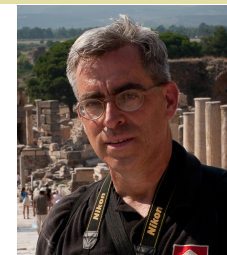
Duke University, Durham, NC

*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 Ashtabula 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 Slide 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

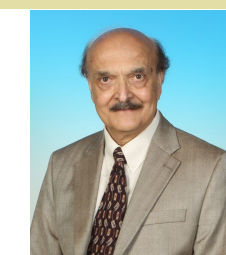


**SawTeen See**  
President, See Robertson Structural Engineers, LLC, New York, NY  
*Some Long-Span and Some Tall Buildings*  
March 29, 2019



**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

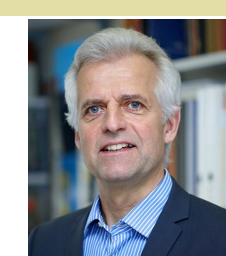


**Robert Sinn**  
Principal, Thornton Tomasetti, Chicago, IL  
*From Bilbao to Jeddah: An Engineer's Journey*  
March 23, 2018



**Yoizo 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

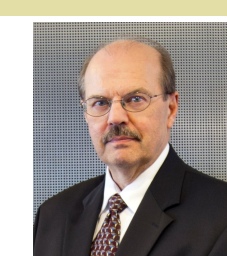
### SPEAKERS - 2017



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

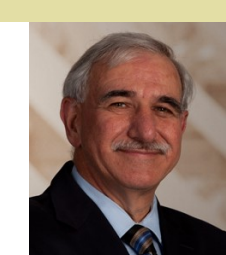


**Lawrence G. Griffis**  
Senior Principal/Senior Consultant, Walter P. Moore and Associates, Inc., Austin, TX  
*Design and Construction of Cowboys Stadium*  
March 31, 2017

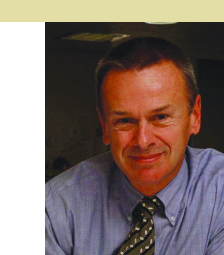


**Peter A. Weismantle**  
Director of Supertall Building Technology, Adrian Smith + Gordon Gill Architecture, Chicago, IL  
*Architectural Technical Design of the New Generation of Supertall Buildings*  
April 21, 2017

### 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 Principal/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

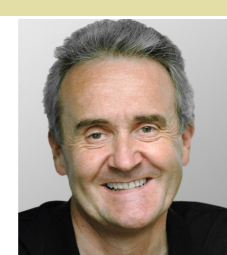
### SPEAKERS - 2015



**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

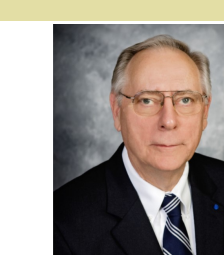


**Charles H. Thornton**  
Chairman, Charles H. Thornton & Company, LLC, New York, NY  
*Renaissance, Rebirth and Disruptive Innovation*  
April 19, 2014

### SPEAKERS - 2013



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

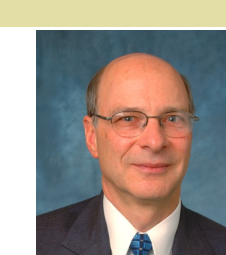


**John M. Kulicki**  
Chairman/CEO, Modjeski and Masters Inc., Mechanicsburg, PA  
*Observations on AASHTO Bridge Design*  
March 22, 2013

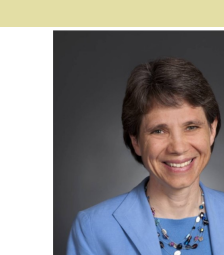


**Alfredo H-S. Ang**  
Research Professor, University of California, Irvine, CA  
*Minimizing the Effects of Uncertainties in Developing Reliability-Based Design Criteria*  
April 19, 2013

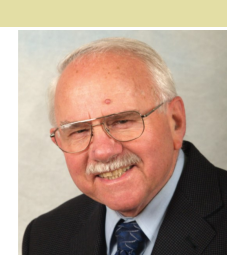
### SPEAKERS - 2012



**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

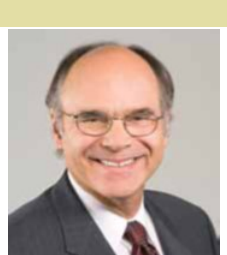


**Ted V. Galambos**  
Professor Emeritus, Structural Engineering, University of Minnesota, Minneapolis, MN  
*The Safety of Bridges*  
April 20, 2012

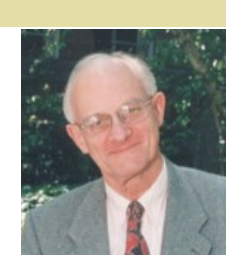
### SPEAKERS - 2011



**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

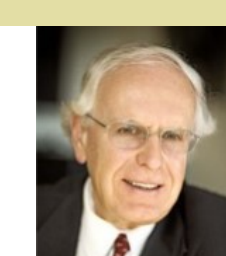


**David Billington**  
Gordon Y. S. Wu Professor of Engineering, Princeton University, Princeton, NJ  
*Personal and Professional Recollections of Fazlur Khan*  
September 9, 2011

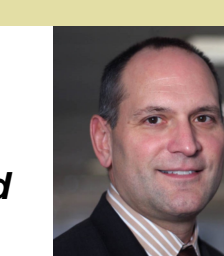


**Masayoshi Nakashima**  
Professor, Kyoto University, Disaster Prevention, Research Institute, Kyoto, Japan  
*Safeguarding Quality of Life: The Role of Large-Scale Testing*  
September 23, 2011

### 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

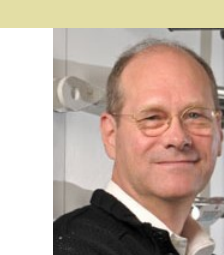


**John E. Breen**  
Professor/Nasser I. Al-Rashid Chair in Civil Engineering, The University of Texas, Austin, TX  
*The ABC's of Bridge Building: Affordable, Beautiful, Constructible, Durable*  
April 16, 2010

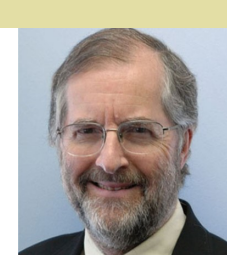
### SPEAKERS - 2009



**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

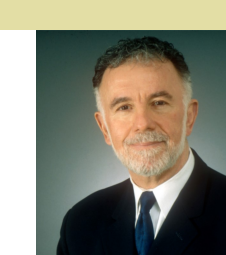


**William F. Baker**  
Partner, Skidmore, Owings & Merrill, Chicago & London  
*Engineering the World's Tallest: Burj Dubai*  
March 20, 2009

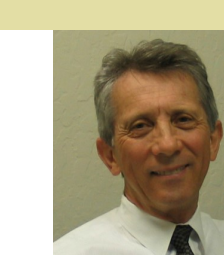


**Bruce R. Ellingwood**  
Distinguished Professor & Raymond Allen Jones Chair, Georgia Institute of Technology, Atlanta, GA  
*Abnormal Loads & Progressive Collapse – Assessment & Mitigation of Risk*  
April 17, 2009

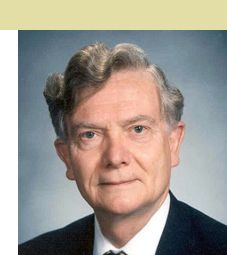
### SPEAKERS - 2008



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