

# The Fazlur Rahman Khan Distinguished Lecture Series

# 2007

*Honoring a legacy in structural engineering and architecture*

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

# 2017



## 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.



## 2017 SPEAKERS



### 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 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**  
Arup, Americas Building  
Practice Leader  
New York, NY  
**Extreme Engineering**

February 18, 2011



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

April 8, 2011



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

September 9, 2011



**Masayoshi Nakashima**  
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  
C.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.