



UL FGG  
Graduate Seminar 122



Slovenian Association for  
Earthquake Engineering



## VABILO

Vljudno vas vabimo na predavanje, ki ga bo imel  
**v četrtek 13. 9. 2018 ob 13:00**  
v svečani dvorani na FGG, Jamova 2

**prof. dr. Toshimi Kabeyasawa**

iz

**Earthquake Research Institute  
The University of Tokyo**

z naslovom

**Seismic Tests, Analyses and Evaluation of Reinforced Concrete Buildings/  
Preizkušanje, analiza in ovrednotenje armiranobetonskih stavb pri potresnem  
vplivu**

Povzetek predavanja v angleškem jeziku s slikovnim gradivom ter življenjepis predavatelja sta priložena v nadaljevanju.

Predstojnik doktorskega  
študija na UL FGG  
prof. dr. Krištof Oštir

Predsednik Slovenskega  
društva za potresno inženirstvo  
prof. dr. Roko Žarnić

Predsednik Inženirske  
zbornice Slovenije  
mag. Črtomir Remec

## PERSONAL CAREER

Toshimi KABEYASAWA

Professor  
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Toshimi Kabeyasawa is professor of Earthquake Research Institute at University of Tokyo, Tokyo, Japan. His research interests include analysis and design of reinforced concrete buildings subjected to earthquake actions, laboratory, shake table and field tests on structural components and systems, soil-structure interaction and seismic retrofit. He is the editor in chief and a co-author for several design guidelines published from AIJ and JBDPA. He served as PI on the first full-scale test of six-story reinforced concrete building at E-Defense in 2006. He is a former chairman of disaster committee in AIJ, and has served as a chairman or a member of significant professional or academic committees in MLIT, MEXT, MITI, BRI, NIED, RIEF, AIJ, BCJ, JBDPA, and local governments in Japan.

**EDUCATION:** Bachelor of Engineering, The University of Tokyo, 1976  
Master of Engineering, The University of Tokyo, 1978  
Doctor of Engineering Thesis, The University of Tokyo, 1985

**MAJOR SUBJECT:** Earthquake Engineering, Building Structure, Reinforced Concrete

**MAJOR AREA OF EXPERIENCE:**

1978-1980 Engineer, Taisei Corporation  
1981-1982 Research Associate, The University of Tokyo  
1982-1989 Research Associate, Yokohama National University  
1989-1995 Associate Professor, Yokohama National University  
1996- Professor, ERI, The University of Tokyo

**SYNERGISTIC ACTIVITIES:**

He served as a chairman or member of significant professional or academic committees in MLIT, MEXT, MITI, BRI, NIED, RIEF, AIJ, BCJ, JBDPA, JSSI, JEES, GBRC and local governments in Japan, including in these ten years:  
AIJ, Disaster Investigation Committee, Head, 2014-2017  
AIJ, Reinforced Concrete Steering Committee, Chair, 2009-2013  
JBDPA, Evaluation Committee on Seismic Retrofit Technologies, Chair, 2005-present  
JBDPA, Committee on Seismic Evaluation Standard for RC Buildings, Chair, 2007-present  
Nikkei BP Technology Award, Construction Division, April 2008  
NIED, RC Building Committee of Dai-Dai-Toku Project, Chair, 2002-2007  
NIED, Research WG on the next-generation high seismic performance concrete structures (for ten-story tests), Chair, 2015-present

# Seismic Tests, Analyses and Evaluation of Reinforced Concrete Buildings

## Summary:

Objectives, methods and main findings from recent field surveys and laboratory tests in Japan are high-lighted and interpreted for seismic design and performance evaluation of reinforced concrete buildings with analytical models and design practices, from which possible improvements in the future are indicated, such as: (1) Seismic damage survey and lessons from recent earthquakes in Japan, mainly from the 2016 Kumamoto earthquake, (2) Static loading tests on three-dimensional frame assemblies at large-scale structural testing laboratory at Building Research Institute from 2010 to 2014 and also at Tokyo Metropolitan University from 2017, (3) Shake table tests at E-Defense on three-story school building in 2006 and ten-story building with sliding bases in 2015 and 2018, and (4) Hydraulic tests of scaled buildings to collapse at large-scale tsunami physical simulator, from 2014 to 2016, with/without floating wreckage under continuous tsunami wave.

