

Akira Wada, Dr. of Engineering

PROFESSOR EMERITUS
EXPERT EARTHQUAKE ENGINEERING SPECIALIST
TOKYO INSTITUTE OF TECHNOLOGY

Dr. Akira Wada, recipient of the 2011 Fazlur R. Khan Lifetime Achievement Medal and Professor Emeritus of the Tokyo Institute of Technology, is considered to be a Japan's leading expert in structural engineering with a specific focus on seismic structural design, seismic isolation and damping structures. Dr. Wada's contributions to the field of science and technology and connections in Japanese academic and government circles make him uniquely qualified to lead and consult on a wide variety of projects.

Since becoming Professor at the Tokyo Institute of Technology in 1989, Dr. Wada has held a number of important positions, including serving as President of ANCER and chairing the CTBUH Japan Chapter since its formation in 2010. In 2014, he was elected President of the Japan Seismic Isolation Association. He also has served as President of the Architectural Institute of Japan (AIJ, 2011.6-2013.5), Member of Science Council of Japan (SCJ, 2005.10-), Representative Director of Japan Academic Network for Disaster Reduction (JANET-DR, 2016.1-).

Dr. Wada is very active in disaster risk reduction efforts and, from his spot in the Executive Committee of the Academic Society Liaison Association, spearheaded the release of a paper, "Joint Statement of 30 Disaster-Related Academic Societies of Japan: Global sharing of the findings from the past Great Earthquake in Japan, 2011 March 11" to deepen global awareness of how to best mitigate earthquake disasters worldwide.

"Few men have contributed so greatly to the understanding and development of tall building structures in seismically active regions, and his recent election as the new president of the AIJ is a testament to the significant influence of his career," Professor Sang Dae Kim, CTBUH Chairman of Korea University, said of Dr. Wada when elected to that position.

FIELD OF EXPERTISE

Structural Engineer at Nikken Sekkei LTD. (1970.4-1981.12)

Associate Professor at Tokyo Institute of Technology (1982.1-1989.10)

Professor at Tokyo Institute of Technology (1989.11-2011.3)

Visiting Professor, Massachusetts Institute of Technology (1991.4-1991.7)

Specially Invited Expert at Guangzhou University, China (2017.8-)



ACADEMIC TITLE:
Professor Emeritus

UNIVERSITY EDUCATION:
Tokyo Institute of Technology

INSTITUTION / ORGANIZATION:
Tokyo Institute of Technology

PERSONAL INFORMATION:
Date of birth and place:
January 11, 1946 Okayama, Japan
Languages: Japanese, English

MAILING ADDRESS:
1-521 Oookurayama 4-5, Kohoku-ku
Yokohama 222-0037, Japan

JAPAN E-MAIL ADDRESS:
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WEBSITE:
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MAJOR PROJECTS

Seismic Design:

- Shinjuku Sumitomo Building
- Shinjuku Nissei-Sumitomo Building
- Roppongi Hills
- Toranomon Hills
- Seismic retrofitting of the prime minister's residence
- Seismic retrofitting of the head office buildings of Bank of Japan
- Restoring of Kumamoto Castle damaged by 2016 Kumamoto Earthquake

Structural Design – Tokyo Institute of Technology

- Centennial Hall
- Twin 20 Story Steel Buildings for Graduate School using seismic isolation system
- Various Seismic Retrofit Projects in Tokyo Institute of Technology using new concept of installing pin supported walls to three old 11-story frame structures.

RESEARCH EXPERIENCE

Eccentric Brace System for Ductile Steel Building Structures (1970, Nikken Sekkei Ltd., structural tests and analysis)

New Space Structural System (1975-1980, Nikken Sekkei Ltd. and Nippon Steel Cooperation, structural design, tests and analysis)

Buckling Restrained Bracing System (1978- now, Tokyo Institute of Technology and Nippon Steel Cooperation, basic concept, structural design and tests)

Damage Controlled Structures for Earthquake Prone Countries (1990-now, Tokyo Institute of Technology and MIT, basic concept and actual structural applications to many buildings)

Seismic Isolation Technology (1982-now, Nikken Sekkei Ltd., Tokyo Institute of Technology and Architectural Institute of Japan, basic concept and structural Design)

MAJOR PUBLICATIONS

Mission, Goals and Social Responsibility of Structural Engineers, Architectural Institute of Japan, (2010)

Earthquake Engineering from Engineering Seismology to Performance-Based Engineering, Co-Authors are Bozorgnia Y., Bertero V.V., CRC Press. (2004)

Design Guidelines for Seismic Isolated Building Structures 3rd Edition, Architectural Institute of Japan (2001 chaired by myself)

Text book for Structural Mechanics and Design for High School Students and University Students, Jikkyou Publish, (1999)

Many structural design guide line books published by Architectural Institute of Japan

Japanese Society of Steel Construction and the Japan Society of Seismic Isolation (1980-now)

AWARDS

Fazlur R. Khan Lifetime Achievement Medal of CTBUH (Council on Tall Buildings and Urban Habitat) (2011.11)

Special Award of Japanese Society of Steel Construction (2006.11)

The Prize of Architectural Institute of Japan for Engineering (2003.5)

The Prize of Architectural Institute of Japan for Research Thesis (1995.5)