

# 4<sup>th</sup> Japan – Greece Workshop Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage



Source of reference: Shashin Jiho by Tokyo Shahin Jihosha, Oct. 1, 1923

**October 6 (Thu) – 7 (Fri), 2011  
Kobe, Japan**

<http://www.civil.tohoku-gakuin.ac.jp/yoshida/4JGW/>



Kobe Gakuin University

**Organized by :**  
**Earthquake Engineering Committee of Japanese  
Society of Civil Engineers,  
Kobe Gakuin University,  
Technical Chamber of Greece,  
Hellenic Society for Earthquake Engineering,  
and Laboratory of Soil Mechanics of National  
Technological University of Athens**



## Introduction and Objectives

Following the 1995 Kobe Earthquake a close scientific cooperation was initiated between the National Technical University of Athens (NTUA), Greece, and some Japanese institutes. As part of this cooperation a visit to Kobe of 25 graduating students from NTUA has taken place every year starting in 1999. In one of these visits an agreement was reached to organize this joint Japan-Greece Workshop. Starting in 2005, it was held successfully every two years.

The workshop serves as an international meeting at which specialists, governmental officials and professors in earthquake engineering and related fields may exchange ideas on the latest research results and technologies mainly on soil-foundation-structure interaction, seismic behavior of soft soil deposits, performance-based seismic design, lessons learned from recent earthquakes, innovations on seismic protection of structures, and seismic protection of monuments.

Researchers and engineers participated not only from Japan and Greece, but also from Algeria, China, France, USA, UK, India, Italy, and Germany.

The workshop strives to promote innovation, practice and safety in reducing the impact of earthquakes on our society and natural environment. We hope many participants will join this workshop to upgrade their knowledge and contribute for the progress of seismic disaster mitigation.

## Scientific and Organizing Committees

Co-chairperson: H. Okamoto  
G. Gazetas



Secretariat General: T. Tazoh

Organizing Committee:

Y. Goto  
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T. Sato  
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A. Anastasiadis  
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A. Papadimitriou  
N. Klimis  
I. Anastasopoulos  
D. Ptilakis  
C. Chatzigogos  
D. Loukidis  
P. Psaropoulos

## Workshop Topics

- Seismic analysis of shallow, embedded, and deep foundations
- Seismic design of foundations against liquefaction
- Site response of soil deposits
- Soil liquefaction and liquefaction-induced flow
- Remedial measures, repair-retrofit, and health monitoring of foundation-structure systems
- Performance-based design in geotechnical and structural engineering
- Innovations in seismic protection of structures and foundations
- Seismic protection of cultural heritage
- Lessons learned from recent earthquakes

## Invited Lectures

- Prof. M. Hamada (Japan)
- Prof. K. Kawashima (Japan)
- Prof. K. Ptilakis (Greece)
- Prof. S. Lagomarsino (Italy)
- Prof. M. K. Yegian (USA)
- Prof. E. Vintzileou (Greece)



## The 2011 East Japan Earthquake

On March 11<sup>th</sup>, 2011, the East Japan Great Earthquake caused widespread destruction, with about 30,000 lives lost and missing, and more than 300,000 houses destroyed. It caused approximately 25 trillion yen in damage – 4.6% of Japan's GDP.



## About Kobe

Kobe is located in central Japan, forming the Keihanshin metropolitan area with Kyoto and Osaka. As an international port since days of old, the city has a unique style which blends the exotic atmosphere of Japan with over a hundred years of influence by foreign cultures. Fifteen years after the 1995 quake, Kobe has revitalized its communal and business activities, and as of January 2010, it is the sixth-largest city in Japan with a total population of 1,500,000 and more than 670, 000 households.



## Workshop History

- 1<sup>st</sup> workshop: Greece (Athens), Oct. 2005
- 2<sup>nd</sup> workshop: Japan (Tokyo), April 2007
- 3<sup>rd</sup> workshop: Greece (Santorini), Sep. 2009
- 4<sup>th</sup> workshop: Japan (Kobe), Oct. 2011

## To Avoid the Same Tragedy Again

They are the parents and child whose remnants were excavated from the ruins of dwellings built 1645 years ago at the archaeological site of Kourion in Cyprus. The husband reaches his hands to protect his wife and child; his wife is embracing their newborn baby. What had taken their lives is a M8.3 mega-quake focusing near Crete, Greece which hit a huge area on July 21, 365 A.D. Researchers and engineers working on earthquake engineering in the world have to collaborate to avoid the same tragedy again. We are living on a green but earthquake stricken planet.



Source of reference: Megaquake published by Shufu to Seikatsu, March 2010.

## Registration Fee

JPY 20,000  
JPY 10,000 (for students)

## Submission Procedure

Authors are invited to submit abstracts to the Secretariat via email at [tazoh@shimz.co.jp](mailto:tazoh@shimz.co.jp) or [gazetas@ath.forthnet.gr](mailto:gazetas@ath.forthnet.gr) by **May 31, 2011**.

Submissions must include the following contents:

- Author name
- Prefix
- Affiliated organization
- Email Address
- Position
- Paper Title
- Abstract: a very short, one paragraph abstract or some keywords

## Due Dates

Submission of abstracts: **May 31, 2011**  
Notification of acceptance: **June 30, 2011**  
Submission of full paper: **August 15, 2011**

## Secretariat of 4<sup>th</sup> Japan – Greece Workshop

[Japan side]

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