

Short Course on:

## Seismic Design of Earth and Rock Fill Dams, 15-17 March 2016



## Topics:

1. Performance of earth & rock fill dams during earthquakes
2. Earthquakes and their characteristics
3. Earthquake design ground motion parameters
4. Seismic Hazard Analysis
5. Fundamentals of Liquefaction
6. Evaluation of Liquefaction
7. Seismic stability and deformation analysis
8. Defensive Dam Design
9. Soil Improvement for remediation of seismic hazard

### INSTRUCTOR:

**Dr. Ir. Hendra Jitno, MASC., CPEng., RPEQ, FIEAust.**

#### Instructor short-bio:

Born: Majalengka, West Java, Indonesia.  
Education: Ir (Structural Engineering), ITB, 1983; MASC., Ph.D. (Geotechnical Engineering), University of British Columbia, 1990, 1995.

Dr Jitno is an expert in geotechnical earthquake engineering with particular interest in liquefaction, seismic response of earth structures, seismic safety evaluation of dams and seismic risk of infrastructures.

He obtained his PhD at the University of British Columbia on liquefaction-induced deformation of geotechnical structures under the guidance of Prof Peter Byrne, the author of widely used UBCSAND model for effective stress dynamic analysis of liquefiable soils.

He has over 30 years of national and international practical experience as an academic (ITB), contractor (PT PP), consulting engineer (URS) and owner geotechnical/dam engineer of major mining companies (Rio Tinto and Barrick Gold) in different variety of challenging dam projects at many parts of the world in SE Asia, Australia, Africa, North and South America.

He is a registered professional engineer in Queensland, Australia and Fellow of the Institution of Engineers Australia. He is currently adjunct Associate Professor at the Institute of Technology Bandung and a committee member of HATTI, Indonesian Geotechnical Society.

### Why we offer the course

Indonesia is highly earthquake active region with many large dams and is currently building many more dams. We need truly local dam engineers who understand the appropriate knowledge to design, construct and operate these dams.

### Who should attend

Geotechnical, structural and dam engineers, dam owners, building and transportation officials, contractors, and consultants.

### Aim

To improve earthquake engineering practice in Indonesia through detailed review and discussion of state-of-the-art procedures applied by prominent engineers to evaluate and mitigate liquefaction hazard particularly for earth and rock fill dams.

### Venue

Savoy Homann Bidakara Hotel (4stars),  
Jalan Asia Afrika No. 112, Bandung.  
For participants who need accommodation, please contact Fani Gania at +62-813 9533 3832 for special rates.

<http://www.savoyhomann-hotel.com/>

### Dates and time

Date: 15,16 and 17 March 2016  
Time: 8:30-16:30

### Number of participants

To be effective, the number of seat is limited to 30 participants.

The course instruction is **Bahasa Indonesia** but the materials are presented in English. Certificate of attendance will be given in soft copy.

### Registration Fees

#### BEFORE 1 March 2016:

- Non HATTI/KNIBB member: Rp 3,250,000.00
- HATTI/KNIBB member\*): Rp 3,000,000.00

#### AFTER 1 March 2016:

- Non HATTI/KNIBB member: Rp 3,750,000.00
- HATTI/KNIBB Member\*): Rp 3,500,000.00

- The fee includes lunch, 2 coffee breaks and hard copy of the course materials.
- Refund is only permitted before 1<sup>st</sup> of March 2016 with 50% administration fee.
- Regretfully, no refund is permitted after 1<sup>st</sup> of March 2016, but it can be used as a credit for any future short course. Also, the change of participant name is permitted.
- You can apply for HATTI member and then register for the short course at the member price. Use this link to download the registration form:

<http://hatti.or.id/seranggota.php?m=2>

- or contact us to get the form at the number below.
- To apply for KNIBB\*\*) member, please go to [www.knibb-inacold.com](http://www.knibb-inacold.com).

### Register on line

Register on line at  
<http://goo.gl/forms/Nd1bJaUBba>

Or if you have a problem to register online, please send the completed form (attached) by email to [geotek.training@gmail.com](mailto:geotek.training@gmail.com)

Any other queries, please call this number:  
+62821 2740 0951

\*) Paid 2016 HATTI annual membership fee.

\*\*)KNIBB (Komite Nasional Bendungan Besar)