

The 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation 2011 (GEDMAR 2011)

Combined with

The 5th International Conference on Geotechnical and Highway Engineering

Geotechnical and Highway Engineering Practical Applications - Challenges & Opportunities at the Future

<http://reliability.geoengineer.org/GEDMAR2011/>

Semarang, Central Java, Indonesia
18-20 May 2011

UNDER THE AUSPICES OF :



TC-39, TC-4 and TC-3 of ISSMGE

International Society for Soil Mechanics and Geotechnical Engineering

Organized by :



The Joint Working Group on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (JWG-DMR)



Diponegoro University
Indonesia



Ministry of Public Works of
the Republic of Indonesia



Indonesian Road
Development Association (IRDA)

Supporting Organizations :

- Centre for Soft Ground Engineering (CSGE), National University of Singapore, Singapore
- School of Engineering and Information Technology, the University of New South Wales, Australian Defence Force Academy, Australia
- Centre for Geotechnics and Railway Engineering; SMART Infrastructure, University of Wollongong, Australia
- Geotechnical Research Institute, Hohai University, China
- Disaster Prevention Research Institute, Kyoto University, Japan
- Eurasian National University, Kazakhstan
- Centre for Infrastructure, Sustainable Transportation and Urban Planning (CISTUP), Indian Institute of Science, Bangalore - India
- The Asian Center for Soil Improvement and Geosynthetics (ACSIG), Asian Institute of Technology, Bangkok – Thailand
- Centre for Infrastructure Systems, NTU, Singapore
- University Tun Hussein Onn (UTHM), Malaysia
- Indonesian Society for Geotechnical Engineering (ISGE)



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Introduction

Disaster Mitigation and Rehabilitation has increasingly become one of the major concerns of geotechnical Engineers and engineering geologist.

The 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation is held every three years by one of the national geotechnical societies supporting the Joint Working Group on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR).

The first GEDMAR conference was successfully held in Singapore in December 2005. The second GEDMAR conference was held in Nanjing, China, in May 2008. The Joint Working Group on Geotechnical Engineering for Disaster Mitigation and Rehabilitation, Diponegoro University Indonesia, and Ministry of Public Works of the Republic of Indonesia are jointly organizing the Third International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR 2011) in May 2011 in Semarang (The Heart of Javanese culture and Education, one of historic cities in Indonesia) in conjunction with the 5th International Conference on Geotechnical and Highway Engineering. The conference is supported by ISSMGE TC-39, TC-4, TC-3, and other international organizations. This conference will provide an excellent opportunity for Engineers, Professionals, Academicians, Researchers, Construction equipment and Materials manufactures Suppliers and Government officials to present and exchange the latest developments and case histories related to geotechnical and highway engineering for Disaster Prevention, Mitigation and Rehabilitation as well as other disciplines related to the theme of the conference **and one-day International Symposium on recent advances in geotechnical engineering to mark Prof. Hideki Ohta 40 years contributions for the research and development in soil mechanics and geotechnical engineering will also be organized by the conference organizing committee and TC-39 on 17 May 2011, one day before the conference. Participants of the conference are welcome to participate the symposium.**

Conference Theme

“ Geotechnical and Highway Engineering Practical Applications - Challenges & Opportunities at the Future ”

Sub Themes may include but not limited to :

1. Case histories on recent and post natural disaster (earthquake, tsunami, landslides, etc)
2. Mechanisms of natural and coastal disasters (Soil Dynamics, liquefaction, geological and environmental factors, earth quake analysis and modeling, sub aerial and submarine landslides, seismic ground motion, etc)
3. Disaster Mitigation and Rehabilitation techniques (Difficult soils, ground treatment, design against earthquake and other natural disaster, coastal protection, application of natural and synthetic fabrics for preservation of environment including the use of innovative barrier materials for landslides and new fabrics erosion control and others, etc)
4. Risk analysis and geohazard prediction (risk, mapping, consequence evaluation, reliability analysis, etc)
5. Innovations of foundation, rail and highway under extreme condition
6. Soil and Rock Slope Failures and Remedial Measures

Conference Committees

International Advisory Committee

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- Prof. Neil Taylor (Secretary General, ISSMGE, UK)
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National Advisory Committee

Minister of Public Works of the Republic of Indonesia
Rector of Diponegoro University-Indonesia
Dean of Faculty of Engineering, Diponegoro University
President of Indonesian Road Development Association
President of Indonesian Society for Geotechnical Engineering

Conference Steering Committee

Chair of TC-39 of ISSMGE	Geotechnical Engineering For Coastal Disaster Mitigation and Rehabilitation
Chair of TC-4 of ISSMGE	Earth Quake Geotechnical Engineering and Associated Problem
Chair of TC-3 of ISSMGE	Geotechnics of Pavement

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- Prof. Michael C. R. Davies (New Zealand)
- Prof. Farimah Masrouri (France)

Call for Papers

Prospective Authors are invited to submit one page abstract related to the theme of the conference before 30 June 2010. Each Author can submit only one abstract with his/her name as the first author direct to the Organizing Committee.

Keynote Speakers

- Minister of Public Works of the Republic of Indonesia
- Prof. Jean-Louis Briaud, President of ISSMGE, USA and other International Experts in their fields - as Keynote Speakers and Invited Speakers

Language

The Official language is English

Host City

The Conference will be held at Semarang, Central Java – Indonesia

Selection of Abstract

All the submitted abstracts will be reviewed by International Scientific Technical Committee made up of international expert's representative of all the subjects covered by the conference. These papers must be original, previously unpublished work and must not be of any commercial nature. Those whose abstracts are accepted for the conference will be notified to prepare the full paper manuscript. The final manuscripts will be reviewed by international experts appointed by the organizing committee in cooperation with the international scientific technical committee.

Proceedings

The proceedings will be published by Leading International Publisher (including CD-ROM)

Exhibition

Companies are kindly invited to exhibit their products and services. Interested exhibitors can get all necessary information to the Secretariat of the Conference

Registration Fees

Details of registration will be given in Second Announcement. Efforts will be made to keep the fees as low as possible

Accommodations

A variety of Hotel categories at reasonable prices, including budget accommodation will be listed in the Second Announcement and the websites

Technical Visit

And Post Conference Tours

- Technical Visit to Semarang, Yogyakarta
- Post Conference Tours to Semarang City, Borobudur Temple (one great wonder of the world), Prambanan Temple and Karimunjawa Island
- Tour to Bali will be arranged

One-day International Symposium On Recent Advances In Geotechnical Engineering

17 May 2011, Venue: the same as the conference

As one of the highlights of this conference, the conference organizing committee and TC39 will also be organizing this one-day International Symposium to mark Prof Hideki Ohta 40 years' contributions to the research and development in soil mechanics and geotechnical engineering. Prof Ohta is a Professor of Research and Development Initiative at Chuo University, Japan. Before his retirement in 2009, he was a Professor at Tokyo Institute of Technology (TIT). Prof Ohta started his professional career in geotechnical engineering in 1971 at Kyoto University. He has also worked at University of Cambridge, Asian Institute of Technology, and Kanazawa University. He was the Vice President (1999-2001) and the President (2004-2006) for The Japanese Geotechnical Society. He has received many awards including the awards from the Japan Society of Civil Engineers (1971, 2002 & 2004), and the awards from the Japanese Geotechnical Society (1986, 1991, 1999 & 2008). His fields of major research interest include constitutive model of soils, deformation of soft clays, dam engineering and rock slope stability. Prof Ohta is one of the key founders of JWG-DMR and TC39 and has been a sought after keynote and invited speakers at international conferences including conferences in Indonesia.

This symposium brings us the rare opportunity to listen to more than 14 international well established speakers from a number of countries who are particularly invited to this Symposium to present their latest research works and report the recent advances in soil mechanics and geotechnical engineering. More information will be given at a later stage.



About Central Java

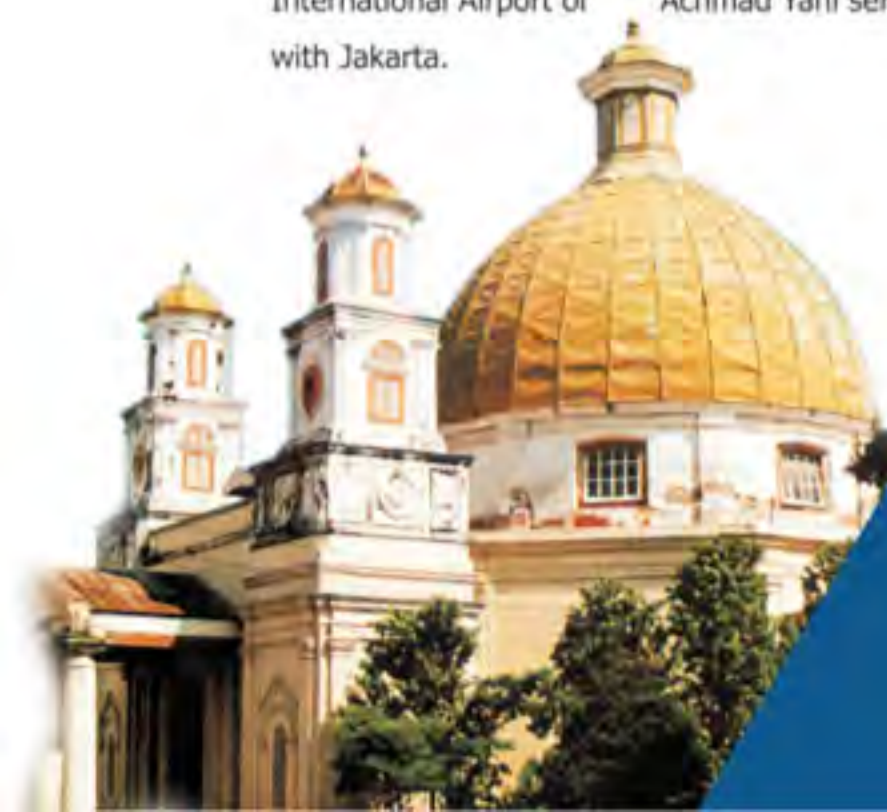
Indonesia has 33 provinces and one of them is central Java, which is located exactly in the center of Java Island. It borders with west java provinces in the western part, while in the eastern part borders with East Java Province. On the Northern side lies the Java Sea, while on the southern sides lies also the Province of Yogyakarta Special Region. The Province of Central Java is roughly 364 Km long, from the west to the east, and 226 Km wide from the north to the south. The land area is about 32,548 square kilometers, which means that is larger than the Netherlands but smaller than Switzerland. Central Java Province has a tropical climate with average temperature between 21°C minimum and 32°C maximum. There are two seasons namely the rainy season which occurs between October to April and the dry season which occurs between April to October.

About Semarang

Semarang, founded in 1547 is geographically divided into two parts. The highland is known as Candi Area, most of which are the residential area, while the lowland is mostly occupied for the centre of commercial activities as well as government and private offices. Semarang is the capital of Central Java Province. The population of Semarang is predominantly Javanese, though with smaller numbers of people from many regions in Indonesia. The city is known for its large ethnically Chinese population. As a result of its large ethnically Chinese population, the city boasts several Chinese temples. These include Sam Poo Kong (Gedung Batu), built in honour of the Chinese Great Admiral Zheng He who visited the area in 1405. Dome Church (Gereja Blenduk), a 1753 Protestant church built by the Dutch, is located in the old town (called "Oudstad"). Tugu Muda (Youth Monument), a monument to heroes of Indonesia's independence struggle, is located in a large roundabout surrounded by famous buildings such as Gedung Lawang Sewu (thousand doors building), Jalan Pemuda, one of the roads leading into the roundabout, is a major shopping street. Besides that, in Semarang, there are also available Masjid Agung (a Mosque) and Vihara Watu Gong (Buddhist). Semarang International Airport of Achmad Yani serves direct flight with Jakarta.

About Yogyakarta

Yogyakarta (some people call it Jogja, Jogjakarta, or Yogya) is a city with outstanding historical and cultural heritage. Yogyakarta was the centre of the Mataram Dynasty (1575-1640), and until now the keraton (the sultan's palace) exists in its real functions. Also, Yogyakarta has numerous thousand-year-old temples as inheritances of the great ancient kingdoms. Here the society lives in peace and has typical Javanese hospitality. An artistic atmosphere is deeply felt in Yogyakarta. Malloboro, as the center of Yogyakarta, is overwhelmed by handicraft from all around the city. Street musicians always ready entertain the visitors of the lesehan food stalls.



About Borobudur Temple



Borobudur is the greatest of all Buddhist in the globe and one of the wonders of the world, Monument in Magelang, Central Java, Indonesia. The monument comprises six square platforms topped by three circular platforms, and is decorated with 2,672 relief panels and 504 Buddha statues. A main dome, located at the center of the top platform, is surrounded by 72 Buddha statues seated inside perforated stupa. Build around the beginning of the 9th century by the Syailandra Dynasty. When Buddhism decreased in Java, Borobudur was abandoned. Only then it was discovered by the British's Raffles in 1814 when he ruled Java.

About Karimunjawa

Karimunjawa Island is a National Marine Park, which is located at the Java Sea of Jepara's sea west. The Nature beauty and Virginity of the Karimunjawa makes the island becomes more famous this lately. The Karimunjawa is group of 27 paradise Islands that conceal various potential of the enchantment of nature beauty, mountain range, white sandy beaches and underwater world. The variety of flora and fauna, includes of its coral reefs has one of a National Marine Park in Indonesia. attractions are possible to do there, bathing, camping, bird watching, banana boating, underwater seeing with the glass boad and that, the traditional ceremony



the Karimunjawa seas's made Karimunjawa as Many tourism such as hiking, sun swimming, snorkeling,

also fishing. Besides of the uniquely Bugis marriage becomes another tourist attraction in Karimunjawa Islands. There is regularly scheduled flight from Semarang International Airport to Karimunjawa. Public-fast ferry departs from Semarang to Karimunjawa every Saturday and return from Karimunjawa to Semarang every Sunday, it takes about 3 hours and departs from Jepara to Karimunjawa every Monday and return from Karimunjawa to Jepara every Tuesday, it takes about one hour from Semarang to Jepara by car. Jepara is centre of gift and souvenir. There are two products for gift or souvenir to buy at Jepara namely woven textile and teak wood carving.



About Prambanan Temple

It consists of three large Hindu Temples. The largest is dedicated for Shiva and has 47 m high. The others are for Brahma and Wisnu on either side. All temples were build by the Sanjaya Dynasty in 9 century. The Prambanan temple lies right across at the border between Klaten Regency (Central Java Province) and Sleman Regency (Yogyakarta Province), exactly at Prambanan sub district about 13 Km west of Klaten on the road to Yogyakarta. It is about 17 Km east of Yogyakarta.



Secretariat

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