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2019 ROCK DYNAMICS SUMMIT IN OKINAWA (2019RDS)

Nago, Okinawa, JAPAN

7-11 May, 2019

Organizers

Japanese Society for Rock Mechanics (JSRM)
JSCE - Rock Dynamics Committee of Japan

Supporters

International Society for Rock Mechanics Rock Engineering (ISRM)
Turkish National Society for Rock Mechanics
The Mining and Materials Processing Institute of Japan

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Gold: JUTEN, RAAK-ESA, OKABE-GREEN EARTH

Silver: TAISEI, MIDAS, NIIMO, OYO

Exhibition only: KAJIMA, SHIMADZU, CERA, OCCA

VENUE

The summit will be held in **Bankoku Shinryokan** on Busena Point, one of the most scenic spots in Okinawa (Japan), surrounded by the beautiful emerald ocean and clear blue sky and hosted 2000 Kyushu-Okinawa G-8 Summit.



WELCOME MESSAGE

We welcome you to the 2019 Rock Dynamics Summit in Okinawa, a specialized conference of the International Society for Rock Mechanics (ISRM) in Nago, Okinawa, Japan.

The *2019 Rock Dynamic Summit in Okinawa* is jointly organized by the Rock Dynamics Committee of Japan (Japan Society of Civil Engineers) and Japanese Society for Rock Mechanics and Rock Engineering (JSRM) and supported by the Turkish National Society for Rock Mechanics and Rock Engineering and the International Society for Rock Mechanics and Rock Engineering (ISRM).

Rock dynamics has wide applications in civil and infrastructural, resources and energy, geological and environmental engineering, geothermal energy, and earthquake hazard management. This topic has become one of the important areas of research and engineering activities in geomechanics and geoenvironmental engineering. The *2019 Rock Dynamic Summit in Okinawa* is organized to address scientific research as well as engineering applications.

On behalf of the organizers of the *2019 Rock Dynamic Summit in Okinawa*, we look forward to meeting you in Nago, Okinawa, where to share and to cooperate, with a common goal to advance rock dynamics in May 7-11, 2019.

Prof. Dr. Ömer AYDAN
Chairman

Prof. Dr. Takashi KYOYA
Co-Chairman

Emeritus Prof. Dr. Toshikazu KAWAMOTO
Honorary Chairman

THEMES

The 2019RDS is a specialized conference of International Society of Rock Mechanics and Rock Engineering (ISRM) and devoted to topics on the dynamic behavior of rock and rock masses and scientific and engineering applications **. The themes include:

- T1 Laboratory tests and Constitutive Modeling
- T2 Techniques for Strong Motions and Rupture of Earth's Crust
- T3 Dynamic Response and Stability of Rock structures
- T4 Induced Seismicity
- T5 Dynamic Simulation of Loading and Excavation
- T6 Blasting and machinery induced vibrations
- T7 Rockburst, Outburst, Impacts
- T8 Nondestructive Testing Using Shock Waves
- T9 Case Histories of Failure Phenomenon in Rock Engineering

SUMMIT PROGRAM

The program of the 2019RDS includes, technical presentations and excursions as well as social events.

Year 2019	May 7	May 8	May 9	May 10	May 11
Morning		Technical Session	Technical Session	Technical Session	Touristic Excursion
Afternoon		Technical Session	Technical Session	Technical Session	
Evening	Welcome Party		Banquet		

KEYNOTE SPEAKERS

Muneo HORI, Professor, Tokyo University, Japan

Application of high performance computing for earthquake hazard and disaster estimation
Şevket DURUCAN, Professor, Imperial College, UK
 Monitoring, assessment and mitigation of rockburst and gas outburst induced seismicity in longwall top coal caving mining

Ismet CANBULAT, Professor, University of New South Wales, Australia

An overview of research into understanding coal burst

Feng DAI, Sichuan University, China

Experimental investigation on the fatigue mechanical properties of intermittent jointed rock under random cyclic uniaxial compression

Katsumi KAMEMURA, Fukada Geological Research Institute, Japan

Seismic Response and Stability of Rock Tunnels - Its History and Problems Today

Reşat ULUSAY, Hacettepe University, Ankara, Turkey

Assessment of complex large slope failure at Kışlaköy Open pit mine, Turkey

Hiroshi OGASAWARA, Professor, Ritsumeikan University, Japan

Spatial variation in stress in seismogenic zones in South African gold mines

Kourosh SHAHRIAR, Amirkabir University of Technology, Tehran, Iran

Dynamic analysis and investigation of vibrations induced by train from the subway station

Conference Venue Location

Technical sessions will be held in the Summit Hall and Ocean Hall-A of Bankoku Shinryoukan (see attached map). **Opening and closing ceremonies** will be held in the Summit Hall. **Poster session** will be held at the west-side salon of the Summit Hall.

Registration and Package Collection

For those registered on-line, package can be collected at the registration desk at the entrance of the Summit Hall. On-site registration can be done at the registration desk.

Welcome Party

Welcome reception is on 7 May June, starting at 6.30 pm at the Sun-set Hall or adjacent garden depending upon the climatic condition. The party is free to all delegates.

Banquet

The Conference Banquet dinner is on 9 May starting at 7.00 pm, at the Summit Hall. Banquet dinner must be booked on-line during registration. Limited banquet tickets may be available on-site with cash purchase.

Lunches

Lunches will be served at the restaurant of the Busena Terrace. It is a self-service restaurant. Lunch tickets are provided to the participants.

Coffee and Tea

Coffee and tea are available during the morning and afternoon breaks at the Summit Hall and Ocean Hall.

EXHIBITION

The exhibition will be held in the Ocean Hall-B (see attached map). The exhibitors are: JUTEN, RAAX-ESA, TAISEI, KAJIMA, OKABE-GREEN EARTH, NIIMO, MIDAS, OYO, SHIMADZU, OKINAWA CONSULTANTS ASSOCIATION, CHIKAKU-BOUSAI ASSOCIATION, OKINAWA JMA, OKINAWA PREFECTURAL GOVERNMENT

EXCURSIONS

EXCURSION A: Southern Course (Shuri Castle, Lunch, Okinawa World, Naha Airport)
EXCURSION B: Northern Course (Churaumi Aquarium, Lunch, Nakijin Castle, Orion Park)

ACCOMPANYING PERSON PROGRAM

May 8: Okinawa Churaumi Aquarium course

May 9: Ryukyu Mura course