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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

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.



INVITATION

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.

Several workshops and conferences have been held since the rock dynamics commission was established in 2008 by the International Society for Rock Mechanics and Rock Engineering (ISRM). Since then, the rock dynamics has become one of the major themes in various regional and international symposia and conferences organized by the ISRM. The *2019 Rock Dynamic Summit in Okinawa* is a Specialized International Conference of ISRM and 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 involves diverse research scopes ranging from earthquake engineering, blasting, impacts, failure as well as the occurrence and prediction of earthquakes. 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 area 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 on Dynamic Responses of Rocks and Rock Masses; Fracturing of Rocks and Associated Strong Motions
- T2 Estimation Procedures and Numerical Techniques of Strong Motions Associated with the Rupture of Earth's Crust and Some Strong Motion
- T3 Dynamic Response and Stability of Rock Foundations, Underground Excavations in Rock, Rock Slopes Dynamic Responses and Stability of Stone Masonry Historical Structures and Monuments
- 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

** Abstracts and papers will be peer-reviewed and published.

ABSTRACT SUBMISSION

Colleagues interested in participating in 2019RDS are cordially invited to submit abstracts on the topics within the scope of the summit. Abstract should be about 400 words, with a title, authors' names, affiliations, and email addresses. The theme number (T1 to T9) should be stated. Abstract should be submitted through the summit website (<http://www.2019rds.org>).

KEY DATES

Abstract submission is extended to: 29 July 2018
 Notification for abstract acceptance: 24 Aug 2018
 Deadline for full paper submission: 12 December 2018
 Notification for full paper acceptance: 25 January 2019

KEYNOTE SPEAKERS

Muneo HORI, Professor, Tokyo University, Japan

Keynote on the use of super-computers in ground motion and ground interaction

Uğur ÖZBAY, Professor, Colorado School of Mines, USA

Keynote on the rockburst

Şevket DURUCAN, Professor, Imperial College, UK

Keynote on Induced Seismicity

Yossef HATZOR, Professor, Ben Gurion University of Negev, Israel

Keynote on Dynamic Response of Archeological Rock Masonry Structures

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

Keynote on outburst in coal mines

Feng DAI, Sichuan University, China

Keynote on Dynamic Test on Rocks

Katsumi KAMEMURA, Fukada Geological Research Institute, Japan

Keynote on Dynamic Stability and Response of Underground Structures in Rock

Nasser KHALILI, Professor, University of New South Wales, Australia

Keynote on the coupled dynamic response of rocks and rock structures

Reşat ULUSAY, Hacettepe University Ankara, Turkey

Keynote on Dynamic Rock Testing Methods

Hiroshi OGASAWARA, Professor, Ritsumeikan University, Japan

Keynote on the stress changes in Earth's crust during earthquakes

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 Technical Excursion
Afternoon		Technical Session	Technical Session	Technical Session	
Evening	Welcome Party		Banquet		