Day 2 (2 July)

Room 1

Hazard and risk assessment
Chair: Phil R. Cummins

9:00-9:15 **e90055**

Uncertainty quantification of earthquake-tsunami hazard and risk in Kuroshio Town, Kochi prefecture, Japan using the Nankai-Tonankai megathrust rupture scenarios

Katsuichiro Goda
Department of Earth Sciences, Western University

9:15-9:30 **e90189**

Assessment and prediction of tsunami-induced debris for coastal building design

Yong Wei
University of Washington/CICOES, Seattle, Washington, USA / NOAA Pacific Marine Environmental Laboratory, Seattle, Washington, USA

9:30-9:45 **e90207**

A decade of applying lessons learned to enhance tsunami hazard products in California

Rick Wilson
California Department of Conservation, California Geological Survey

9:45-10:00 **e90191**

Combining tsunami observations and precomputed simulations to forecast tsunamis in New Zealand

Aditya Gusman
Tectonophysics, GNS Science

Sources and uncertainties
Chair: Aditya Gusman

10:15-10:30 **e90168**

Earthquakes and tsunamis caused by low-angle normal faulting in the Banda Sea, Indonesia

Phil R. Cummins
Research School of Earth Sciences, Australian National University / Place, Space and Communities Div., Geoscience Australia / Institut Teknologi Bandung, Bandung, Indonesia

10:30-10:45 **e90119**

Lessons learnt from the comparisons of 14 coseismic slip models of the great 2004 Sumatra-Andaman earthquake

Gui Hu
Guangdong Provincial Key Laboratory of Geodynamics and Geohazards, School of Earth Sciences and Engineering, Sun Yat-sen University, Zhuhai, China

10:45-11:00 **e90095**

Unexpected tsunamis generated by volcanic earthquakes at the submarine Smith Caldera, Japan

Osamu Sandanbata
Earthquake and Tsunami Research Division, National Research Institute for Earth Science and Disaster Resilience, Ibaraki, Japan / Earthquake Research Institute, the University of Tokyo, Tokyo, Japan

11:00-11:15 **e90173**

Probabilistic tsunami inundation assessment of Vanimo, Papua New Guinea: In support of national tsunami guidelines

Kaya Max Wilson
Regional Development/ Hazards, Geoscience Australia, Canberra, Australia

Poster Presentation Viewing

11:30-12:30 **Broadcasted at the venue**

Instrumentation, forecasting and early warning 1
Chair: Bruno Adriano

14:00-14:15 **e90039**

Estimation of tsunami response functions considering bathymetry in the pacific coast of Japan

Takuya Miyashita
Disaster Prevention Research Institute, Kyoto University

14:15-14:30 **e90203**

Feasibility of space-based tsunami early warning system

Masashi Kamogawa
Global Center for Asian and Regional Research, University of Shizuoka

14:30-14:45 **e90234**

25th March 2020 tsunami: Registration and numerical simulation

Andrey Zaytsev
Special Research Bureau for Automation of Marine Researches FEB RAS, Yuzhno-Sakhalinsk, Russia

14:45-15:00 **e90110**

An integrated simulation for estimation of casualties from earthquake and tsunami

Dawn Chenxi Han
Department of Civil and Environmental Engineering, Waseda University

Instrumentation, forecasting and early warning 2
Chair: Takuya Miyashita

15:15-15:30 **e90211**

Deep-learning meets tsunami forecasting: Predicting tsunami inundation features using deep-neural networks

Bruno Adriano
Geoinformatics Unit, RIKEN Center for Advanced Intelligence Project (AIP)

15:30-15:45 **e90133**

Operational use of tsunami source inversion in near-field tsunami warning by JMA

Hiroaki Tsushima
Department of Seismology and Tsunami Research, Meteorological Research Institute, Japan Meteorological Agency

15:45-16:00 **e90206**

Faster than real time tsunami warning with associated hazard uncertainties

Daniel Giles
School of Mathematics and Statistics, University College Dublin, Dublin, Ireland / Department of Statistical Science, University College London, London, United Kingdom

16:00-16:15 **e90096**

Tsunami damage assessment of bridges using single post-event SAR images

Fumio Yamazaki
Disaster Resilience Research Division, National Research Institute for Earth Science and Disaster Resilience

IUGG session
Chair: Diana Greenslade

16:30-16:40 **IUGG session-1**
Report from "Terminology WG"

16:40-16:50 **IUGG session-2**
Report from "Science-based Tsunami Warning WG"

16:50-17:00 **IUGG session-3**
Report from "Tsunami Magnitude WG"

17:00-17:10 **IUGG session-4**
Report from "GNSS Data for Tsunami Warning WG"

17:10-17:20 **IUGG session-5**
Report from "Meteotsunami WG"

17:20-17:30 **IUGG session-6**
Report from "Tsunami Data WG"

Room 2

Experimental methods
Chair: Taro Arikawa

9:00-9:15 **e90012**

Soil instability by tsunami inundation: Effects of an impermeable layer

Harry Yeh
Civil Engineering, OregonState University

9:15-9:30 **e90092**

New system for tsunami experiment using a pump-driven flow method

Rafael Aranguiz
Department of Civil Engineering, UCSC / CIGIDEN

9:30-9:45 **e90057**

Experimental study on effect of coastal dune against tsunami action to seawall

Tetsuya Okutani
Graduate School of Engineering, Kyoto University, Kyoto, Japan

9:45-10:00 **e90043**

Reproducibility of tsunami overflow experiments using Open FOAM

Daisuke Sawabe
Faculty of Civil and Environmental Engineering, University of Waseda, Tokyo, Japan

Interaction with structures
Chair: Taro Arikawa

10:15-10:30 **e90182**

On the flow conditions requiring detailed tree modeling to estimate the tsunami mitigation performance

Reika Nomura
International Research Institute of Disaster Science, Tohoku University

10:30-10:45 **e90142**

Experimental study on statistical characteristics of debris motion with different shapes

Riko Morita
Department of Civil Engineering, Chuo University, Tokyo, Japan

10:45-11:00 **e90152**

ASCE 7-22 updated foundation provisions for tsunami resistant design of structures

Mathew J Francis
Resilient Infrastructure, AECOM Technology Corporation

11:00-11:15 **e90088**

Withdrawal

Poster Presentation Viewing

11:30-12:30 **Broadcasted at the venue**

Tsunami deposits and geological perspectives
Chair: Daisuke Sugawara

14:00-14:15 **e90014**

Micropaleontological record of tsunami uprush and backwash in Holocene lagoon sequence facing the Nankai (Suruga) Trough coast, central Japan

Osamu Fujiwara
Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology

14:15-14:30 **e90159**

Evidence of past tsunamis from mega and large earthquakes in Indian Ocean: Records from the last 8000 years, Andaman Islands India

Javed N Malik
Department of Earth Sciences, Indian Institute of Technology Kanpur / ERI, University of Tokyo. Japan

14:30-14:45 **e90093**

Ainu livelihoods and the 1640 volcanic eruption and tsunami of Mt. Hokkaido-Komagatake

Yukihito Nagaya
Date City Institute of Funkawan Culture, Date, Japan

14:45-15:00 **e90083**

Tohoku-oki's hidden tsunami deposits

Piero Bellanova
Institute for Neotectonics and Natural Hazards, RWTH Aachen University / Institute for Geology and Geochemistry of Petroleum and Coal, RWTH Aachen University

Field surveys
Chair: Ocal Necmioglu

15:15-15:30 **e90157**

Field survey findings of the October 30th, 2020 tsunami along the Turkish coast in the Eastern Aegean

Gozde Guney Dogan
Civil Engineering Department, Middle East Technical University (METU), Ankara, Turkey

15:30-15:45 **e90034**

A fine-tuned pottery typochronology for detailing prehistoric tsunamis: From Sanriku Coast of NE Japan as an example

Mizuho Saitoh
Faculty of Humanities, Kyushu University, Fukuoka, Japan

15:45-16:00 **e90107**

Archaeological survey of the disaster in AD 869 Jōgan Tsunami in Kumanosaku and Sanno sites, in Miyagi, Japan

Junichi Aihara
Department of liberal arts (Archaeology), Tohoku History Museum

16:00-16:15 **e90033**

Tsunami damage evaluation of Utatsu Ohashi bridge

Kenji Kosa
Civil Engineering, Kyushu Institute of Technology

Sources and uncertainties
Chair: Gozde Guney Dogan

16:30-16:45 **e90227**

Landslide induced tsunami hazard at volcanoes – The case of Santorini Island

Ocal Necmioglu
Kandilli Observatory and Earthquake Research Institute, Bogazici University, Istanbul, Turkey

16:45-17:00 **e90048**

Mass instabilities along the Nile deep-sea fan margin and their consequences in the Eastern Mediterranean Sea

Filippo Zaniboni
Department of Physics and Astronomy "Augusto Righi", University of Bologna

17:00-17:15 **e90205**

Probabilistic quantification of tsunami current hazard using statistical emulation

Devaraj Gopinathan
Department of Statistical Science, University College London

17:15-17:30 **e90085**

Tsunami hazards in East Indonesia: Recent progress in earthquake/tsunami resilience and future directions

Mohammad Heidarzadeh
Department of Civil & Environmental Engineering, Brunel University London, Uxbridge, UK