

Program: Part 1

Dec. 14 (Wed.)

09:00-17:00 Registration

Session 1: Plenary – Opening Ceremony and Keynote addresses -

Chairperson: Teruyuki Kato (ERI, Japan)

09:30-09:35 Opening Address
Shuhei Okubo (ERI, Director, Japan)

09:35-09:45 Opening Remarks
Teruyuki Kato (ERI, Japan)

(Intermission)

09:50-10:40 [P1-1-1] Keynote Lecture:
The Next Giant Sumatran Megathrust Earthquake: From Science to Human Welfare
Kerry Sieh (USA)

10:40-11:30 [P1-1-2] Keynote Lecture:
Tsunamis –Their Coastal Effects and Defense Works—
Nobuo Shuto (Nippon University, Japan)

(lunch time) 11:30-13:00

Session 2-1: Mechanism and future probability of the 2004 Giant Earthquake and Tsunami in Indian Ocean

Chairperson: Kenji Satake,

13:00-13:15 [P1-2-1-1] Tsunami hazard and vulnerability along the Myanmar coast
Kenji Satake, Than Tin Aung, Yuki Sawai, Yukinobu Okamura, Kyaw Soe Wing, Win Swe, Chit Swe, Tint Lwin Swe, Soe Thura Tun, Maung Maung Soe, Thant Zin Oo, and Saw Htwe Zaw

13:15- 13:30 [P1-2-1-2] Coseismic uplift of the Andaman Islands associated with the Sumatra-Andaman Earthquake of 2004 and the recurrence history of gigantic earthquakes
Hajime Kayanne, Yasutaka Ikeda, Tomoo Echigo, Masanobu Shishikura and

- Takanobu Kamataki
- 13:30-13:45 [P1-2-1-3] Ongoing efforts to understand the style of deformation and the seismic/tsunami history of the Andaman-Nicobar region C. P. Rajendran and Kusala Rajendran
- 13:45-14:00 [P1-2-1-4] Coseismic Land-level changes caused by 26 December, 2004 Sumatra earthquake in Andaman and Nicobar Islands, India
Javed N. Malik and C.V.R. Murty
- 14:00-14:15 [P1-2-1-5] Macroseismic, tsunami surveys and GPS monitoring in Andaman and Nicobar Islands in the aftermath of the Great Mw9.0 earthquake of 26th December 2004 – a brief appraisal
Ashish Kumar Ghosh Roy, Prasun Jana, Sandeep Bardhan, Shaikh Rezaul Basir, Tapan Ghosh, Thiruvalluvar Saranathan Giritharan, Pranab Chakraborty and Dulal Chandra Ghosh
- 14:15-14:30 [P1-2-1-6] Earthquake Disaster Mitigation Initiatives in Myanmar
Than Myint
- 14:30-14:45 [P1-2-1-7] Current Situation on Modern and Paleo-seismology in Myanmar
Than Myint and Win Swe
- 14:45-15:00 [P1-2-1-8] Characteristics of Post-seismic relaxation in Andaman-Nicobar region from continuous GPS measurements
C. D. Reddy, Sanjay K Prajapati, Teruyuki Kato
- (coffee break: 15:00-15:15)
- 15:15-15:30 [P1-2-1-9] Kinematics of the 2004 Great Sumatra Earthquake from Static Co-seismic GPS Offsets
Paramesh Banerjee, Roland Burgmann and Fred Pollitz
- 15:30-15:45 [P1-2-1-10] Crustal deformation associated with the 2004 Sumatra earthquake from GPS observation
Agustan, Irwan Meilano, Yasaku Oota, Takeo Ito, Fumiaki Kimata, Dudy Darmawan, Heri Andreas, Hasannudin Z. Abidin, Mipi A. Kusuma, Didik Sugiyanto, Takao Tabei
- 15:45-16:00 [P1-2-1-11] Postseismic deformation of 2004 Sumatra earthquake from continuous GPS observation in Aceh
Didik Sugiyanto, Yasaku Ohta, Irwan Meilano, Takeo Ito, Fumiaki Kimata and Takao Tabei
- 16:00-16:15 [P1-2-1-12] Seismological Activities, Tsunami Effect and Prevention in Myanmar
San Hla Thaw, Tun Lwin, Win Swe and Myint Soe
- 16:15-16:30 [P1-2-1-13] The rupture process of 2004 Sumatra-Andaman Earthquake viewing

- from the data obtained by the strainmeters of JMA
Yasuhiro Yoshida and Hidemi Ito
- 16:30-16:45 [P1-2-1-14] Changes in seismicity associated with the Sumatra earthquake and their implications for the stress state
Masajiro Imoto, Shozo Matsumura, Shin'ichi Noguchi and Sachiko Tanaka
- 16:45-17:00 [P1-2-1-15] Mechanism of the 2004 great Sumatra-Andaman earthquake estimated from tsunami waveforms
Yuichiro Tanioka, Sin-Iti Iwasaki, Yoshinobu Tsuji, Yuichi Nishimura, Hiroyuki Matsumoto, Syusaku Inoue, Yuichi Namegaya, and Yudhicara
- 17:00-17:15 [P1-2-1-16] Development of Indonesia Permanent Sea Level Monitoring Network For Supporting Indian Ocean Tsunami Warning System
Parluhutan Maurung
- 17:20-17:50 Press Briefing

(Reception: 18:00-20:00 : DVD and Puppet play show introduced by Mikio Satomura)

Session 2-2 (Joint): Human resource program for the education and outreach and Restoration program and urban design

Chairperson: Hirokazu Iemura,

- 13:00-13:15 [P1-2-2-1] Report on the Post-Tsunami Reconstruction Condition in Sri Lanka affected by 2004 Sumatra Tsunami
Osamu Murao, Hideaki Nakazato, and Nihal Rupasinghe
- 13:15-13:30 [P1-2-2-2] Post Tsunami Construction, Rehabilitation & Restoration Program in Sri Lanka
Nihal Rupasinghe and A A Virajh Dias
- 13:30-13:45 [P1-2-2-3] Identification of tsunami wave loads based on damage assessment of road structures in Sri Lanka due to the 2004 Giant Earthquake and Tsunami in the Indian Ocean
Gaku Shoji, and Yoichiro Mori
- 13:45-14:00 [P1-2-2-4] Damage of Infrastructures Caused by December 2004 Great Earthquake and Tsunami in Aceh Region Indonesia
Agussalim
- 14:00-14:15 [P1-2-2-5] Tsunami Questionnaires and Bridge Damage Surveys in Banda Aceh for City Restoration Planning and Urban Design
Hirokazu Iemura, Yoshikazu Takahashi, Pariatmono Sukamdo, Mulyo Harris

- Pradono, and Rudi Kurniawan
- 14:15-14:30 [P1-2-2-6] The Challenge of Rehabilitation and Reconstruction of Banda Aceh City
Taufiq Saidi and Elysa Wulandary, MT
- 14:30-14:45 [P1-2-2-7] Damage and Restoration of Lifeline in Thailand due to the 2004 Giant Earthquake and Tsunami in the Indian Ocean
Shiro Takada, Yasuko Kuwata and Arun Pieta
- (coffee break: 14:45-15:00)
- Chairperson: Koshun Yamaoka,
- 15:00-15:15 [P1-2-2-8] Human Resource Program for Education and Outreach Agenda: Possibilities in India and Sri Lanka
Hirotsune Kimura
- 15:15-15:30 [P1-2-2-9] Restoration and Urban Design in relation to Habaraduwa Township in Galle District : A Sociological Perspective
Imaduwa V. Edirisinghe
- 15:30-15:45 [P1-2-2-10] Community Base Action in costal forest rehabilitation in Tsunami effected area of Aceh Province, Indonesia
Helmi Thomin
- 15:45-16:00 [P1-2-2-11] Sustaining Community Outreach Programmes : Learning from past experiences
Manu Gupta, Anshu Sharma, Suman Nag and Manisha Munjal
- 16:00-16:15 [P1-2-2-12] Establishment Plan of Aceh Heritage Tsunami Estate (AHTE)
Hasanudin Z. Abidin
- 16:15-16:30 [P1-2-2-13] Tsunami Risk Awareness in the Affected Communities
Tetsushi Kurita
- 16:30-16:45 [P1-2-2-14] Strengthening Communities Through Partnership – The ADRRN Model
Aishah Mohd Amin
- 16:45-17:00 [P1-2-2-15] Education on the Earthquake Disaster Reduction for International Students in Japan
Koshun Yamaoka, Keiji Doi and Satoru Suhara

(Reception: 18:00-20:00 : DVD and Puppet play show introduced by Mikio Satomura)

Session 2-3 : Effective tsunami warning system and mitigation

Chairperson: Fumihiko Imamura,

- 13:00-13:15 [P1-2-3-1] Field Investigation of the 2004 Indian ocean tsunami on the affected coast
Fumihiko Imamura, Shunichi Koshimura, Kazuo Goto, Hideaki Yanagisawa and Yoko Iwabuchi
- 13:15-13:30 [P1-2-3-2] Jawa-Sumatran Tsunamis, their Modeling, and Mitigation
Hamzah Latief, Safwan Hadi, Haris Sunendar, Aditya R. Gusman, and Fumihiko Imamura
- 13:30-13:45 [P1-2-3-4] Sedimentation from the December 26th 2004 South Asia tsunami in northern Sumatra, Indonesia
Andrew Lathrop Moore, Yuichi Nishimura, Takanobu Kamataki and Guy Gelfenbaum
- 13:45-14:00 [P1-2-3-5] Comparing the Tsunamis of 2004 and 2005 in West Sumatra, Indonesia
Jose C. Borrero, Bruce Jaffe, Brian McAdoo, Gegar Prasetya and members of the International Tsunami Survey Team (ITST)
- 14:00-14:15 [P1-2-3-6] Tsunami warning system in Japan
Shin'ya Tsukada
- 14:15-14:30 [P1-2-3-7] Effect of earthquake rupture mechanism on tsunami generation and propagation –Toward examination of a possible tsunami warning system applicable to M9 earthquakes –
Kenji Hirata
- 14:30-14:45 [P1-2-3-8] Offshore Tsunami Monitoring Network Design using GPS Buoys and Coastal on-site Sensors
Toshihiko Nagai
- 14:45-15:00 [P1-2-3-9] Proposal for Tsunami Study Program by KORDI
Sok Kuh Kang, Sung-Dae Kim, and Hee Do Ahn
- (coffee break: 15:00-15:15)
- 15:15-15:30 [P1-2-3-10] Development of the nationwide tsunami information network in the central and south pacific ocean in Mexico
José Miguel Montoya Rodriguez and Toshihiko Nagai
- 15:30-15:45 [P1-2-3-11] Current Status of Indonesian Tsunami Early Warning Systems
Pariatmono and Santosa Y. Warsono

15:45-16:00 [P1-2-3-12] Tsunami Damage to Oil Storage Facilities in Aceh Province, Sumatra,
Indonesia
Yozo Goto

(Reception: 18:00-20:00 : DVD and Puppet play show introduced by Mikio Satomura)

Poster [P1-p-1] Learning tsunami disasters through the puppet play "The Fire of
Inamura (Rice Sheaves)"
Tadashi Kojima, Mikio Satomura , Kunio Ozawa and Waniko

Poster [P1-p-2] The seismic gap south off Sumatra and active period of the seismicity
along the plate boundary between India-Australian and Eurasian plates
Yuzo Ishikawa

Dec. 15 (Thu.)

9:00-14:00 Registration

Session 3: Plenary – interdisciplinary presentations –

- 9:00-9:15 [P1-3-0-1] Sea bottom shattered by the Sumatra-Andaman Earthquake of 26th December 2004
Wonn Soh, Yusuf S. Djajadihardja, Yudi Anantasena, Kohsaku Arai, Eiichiro Araki, Safri Burhanuddin, Toshiya Fujiwara, Nugroho D. Hananto, Kenji Hirata, Hananto Kurnio, Hideaki Machiyama, Badrul K. Mustafa, Christian Müller, Leonardo Seeber, Kiyoshi Suyehiro and Kazuki Watanabe
- 9:15-9:30 [P1-3-0-2] Understanding the nature of giant earthquakes and tsunamis in Sumatra-Andaman to restore and establish safer cities around the Indian Ocean
Danny Hilman Natawidjaja, Kerry Sieh, Richard Briggs, Mohammed Chlieh, Jean-Philippe Avouac, Jehuda Bock, Linnette Prawirodirdjo, Robert McCaffrey, Cecep Subarya, John Galetzka, and Bambang W. Suwargadi
- 9:30-9:45 [P1-3-0-3] The 2004 Indian Ocean tsunami along the Indian coast: Observed sea levels, run-ups, extent of source region, and future plans
S.S.C. Sheno
- 9:45-10:00 [P1-3-0-4] Learning from the 2004 Indian Ocean tsunami – Buildings damage and clues for tsunami resistant design
Panitan Lukkunaprasit and Anat Ruangrassamee
- (coffee break: 10:00-10:30)

Session 3-1: Mechanism of the 2004 Giant Earthquake and Tsunami in Indian Ocean

Chair Person: Kenji Satake (AIST., Japan)

- 10:30-10:45 [P1-3-1-1] Changes in Geomagnetic Transfer Functions: Pre and Post Sumatra earthquake
P B V Subba Rao and C D Reddy
- 10:45-11:30 Discussion

Session 3-2 (Joint): Human resource program for the education and outreach and Restoration program and urban design

Chairperson: Koshun Yamaoka (ERI, Japan)/Hirokazu Iemura(Kyoto Univ., Japan)

- 10:30-10:45 [P1-3-2-1] Gender and Socioeconomic Analysis of Alleviating and Preventing
Tsunami Affected Society: A Case Study from Sri Lanka and India
Hisae Nakanishi
- 10:45-11:00 [P1-3-2-2] Mitigation of tsunami impact on lifelines
C. Scawthorn
- 11:00-11:30 Discussion

Session 3-3 : Effective tsunami warning system and mitigation

Chairperson: Fumihiko Imamura (Tohoku University)

- 10:30-10:45 [P1-2-3-3] Forecasting of tsunami amplitudes by the Neuro-genetic algorithm
Seree Supharatid
- 10:45-11:30 Discussion

(lunch time: 11:30-13:00)

Session 4 : Plenary – session summary and action plan toward future

Chairperson: Eisuke Fujita (NIED, Japan)

- 13:00-13:15 Kenji Satake (AIST, Japan) Summary of Subgroup and discussion
- 13:15-13:30 Koshun Yamaoka (ERI, Japan) Summary of Subgroup and discussion
- 13:30-13:45 Fumihiko Imamura (Tohoku Univ., Japan) Summary of Subgroup and discussion
- 13:45-14:00 Hirokazu Iemura (Kyoto Univ., Japan) Summary of Subgroup and discussion
- (14:00-14:15 Coffee Break)
- 14:15-15:55 Free discussion and adoption of action plan
- 15:55-16:00 Closing address Teruyuki Kato (ERI, Japan)

Announcement for the International Symposium by Fujita

(16:00 Adjournment of the Workshop)

16:05-16:35 Press Briefing