

International Symposium on

Marine Geosciences

- New Observation Data and Interpretation -

Program

Sponsors

*Interchange Association
IEEE Oceanic Engineering Society Japan Chapter*

Date : 2005.9.6 (TUE) ~9.7 (WED)

Venue: JAMSTEC Yokohama Institute for Earth Sciences



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Sept. 6 (TUE)

Opening Address

9:00-9:10 *Hajimu KINOSHITA (JAMSTEC)*

9:10-9:20 *Prof. Shu-Kun HSU (Institute of Geophysics, National Central University, Taiwan.)*

9:20-9:30 *Yasuo TAKASE (Interchange Association)*

Keynotes

9:30-10:00 Geodynamic context of the Taiwan region: similar geodynamic and seismological context between Indonesia-Tibet and Japan-Taiwan

Prof. Shu-Kun HSU

10:00-10:30 Sea-floor crustal deformation observation vessel: Proposed construction for the coming Nankai trough earthquakes

Masataka ANDO

10:30-11:00 Japanese efforts on the real-time monitor of the environmental changes in deep sea using submarine cables

Junzo KASAHARA

Cabled Observatories

11:00-11:20 Evolution of observation technologies in worldwide projects for cabled observatory
Hitoshi MIKADA, Kenichi ASAKAWA, Kyohiko MITSUZAWA, Katsuyoshi KAWAGUCHI, Hiroyuki MATSUMOTO, Eiichiro ARAKI, Tadanori GOTO, Takafumi KASAYA, Tomoki WATANABE, Riyo OTSUKA, and Shigehiko MORITA

11:20-11:40 MARS: A Testbed for US Regional Seafloor Observatory Network.

Katsuyoshi KAWAGUCHI

Lunch

11:40-12:30

12:30-12:50 Passive measurements of electrical potential variations in the Western Pacific and its application to geophysical problems

Hisashi UTADA

Marine Engineering & Frontier Observations – I

- 12:50-13:10 Seafloor geodesy and ocean bottom cable systems
Hiromi FUJIMOTO, Ryota HINO and Toshihiko KANAZAWA
- 13:10-13:30 AUV innovations in mapping and geodetic survey on the seafloor
Akira ASADA and Tamaki URA
- 13:30-13:50 Utilizing Time Reversal Mirror in Underwater Acoustic Communication
Chi-Fang CHEN

Seismological Observation in Taiwan

- 13:50-14:10 Broadband Seismic Array in Taiwan
Kuo-Chang CHEN
- 14:10-14:30 Dense Array Observation for the Near Source Ground Motions and its Implications
for Earthquake Rupture Processes
Bor-Shouh HUANG

Coffee Break

14:30-14:50

- 14:50-15:10 Long-term plate coupling monitoring using ACROSS
Toshiki WATANABE

- 15:10-15:30 Underwater Technology in JAMSTEC
Makoto OHKUSU, Tadahiro HYAKUTOME and Taro AOKI

Discussion

15:30-18:30

Reception

18:30-20:30

Sep.7 (WED)

Long Term Observation

8:45-9:05 Aftershock distribution of the December 26, 2004 Sumatra-Andaman earthquake from ocean bottom seismographic observation

Eiichiro ARAKI, Masanao SHINOHARA, Koichiro OBANA, Tomoaki YAMADA, Yoshiyuki KANEDA, Toshihiko KANAZAWA and Kiyoshi SUYEHIRO

9:05-9:25 Long term ocean bottom gravity measurement at the JAMSTEC Hatsushima Ocean Bottom Observatory

Tomoki WATANABE, Tadanori GOTO, Eiichiro ARAKI, Hitoshi MIKADA, Kyohiko MITSUZAWA and Kenichi ASAKAWA

Marine Engineering & Frontier Observations - II

9:25-9:45 Development of new technologies in Japan for scientific underwater cable network of next generation

Kenichi ASAKAWA , Jun MURAMATSU, Tatsuo TAKADA, Junichi KOJIMA, Toshiyuki TOKURA, Tasuku FUJIEDA, Katsuhiko SHIMIZU, Katsuyoshi KAWAGUCHI and Hitoshi MIKADA

9:45-10:05 Installation and Maintenance of Real-time Seafloor Cabled Observatories

Yuichi SHIRASAKI, Junichi KOJIMA and Katsuyoshi KAWAGUCHI

Earthquake Seismology/Seismogenic Zone

10:05-10:25 Using the OBS and the marine cable connected OBS to study the seismogenic zones between Taiwan and the Ryukyu

Chao-Shing LEE

10:25-10:45 The Patterns and Changes in Seismicity, Focal Mechanism and Crustal Stress before and after the 1999 Chi-Chi, Taiwan, Earthquake

Juen-Shi JIANG

10:45-11:05 Imaging of the lithospheric slabs in the Taiwan collisional zone via the integration of Taiwan and Japan network data

Ban-Yuan KUO

11:05-11:25 Tectonic setting and crustal structures of the southern end of the Ryukyu subduction zone offshore eastern Taiwan

Char-Shine LIU

11:25-11:45 Reappraisal of the arc-arc collision in Taiwan
Tetsuzo SENO and Yoshiaki KAWASAKI

Lunch

11:45-12:35

12:35-12:55 Long-term and short-term rates of horizontal shortening over the Northeast Japan arc
Yasutaka IKEDA

Marine Earth Science

12:55-13:15 Deep drilling, borehole experiments and long term monitoring with "Chikyu"
Hisao ITO

13:15-13:35 Multidisciplinary cabled observatories in JAMSTEC
Kyohiko MITSUZAWA

13:35-13:55 The development of High-resolution Marine Heat Probe and the Data Reduction Technique
Hung-I CHANG

13:55-14:15 Oceanic environment in seas around Taiwan
Sen JAN

Geology/Tectonics

14:15-14:35 Active faults and underwater landslides around the Ryukyu Islands
Takeshi MATSUMOTO, Ryuichi SHINJO, Mamoru NAKAMURA, Masaaki KIMURA, Tomonori ONO and Makoto YASUNO

14:35-14:55 The western part of West Philippine Basin: bathymetric and geochemical aspects on its evolution
Ryuichi SHINJO

Coffee Break

14:55-15:15

15:15-15:35 Electromagnetic survey and monitoring on off-shore large earthquake zones

Tadanori GOTO and Takafumi KASAYA

15:35-15:55 An estimation of the EM-ACROSS signals transmitted from the submarine cable to monitor the conductivity in the Tokai Earthquake region

Takahiro NAKAJIMA, Mineo KUMAZAWA, Hiromichi NAGAO and Junzo KASAHARA

Closing

15:55-16:05

Post meeting

16:05-19:05

Poster

Fast computation algorithm of raypaths and their travel times including later arrivals for a multi layered earth model

Ryuji KUBOTA, Eiichiro NISHIYAMA, Kei MURASE and Junzo KASAHARA



JAMSTEC 横浜研究所周辺地図



JAMSTEC Yokohama Institute for Earth Sciences Access Map

Registration

Setp.6, open at 8:30

Sept.7 open at 8:30