

PROGRAMME, 7-11 October, 2002

INMARTECH2002 Japan Marine Science & Technology Center (JAMSTEC) Yokosuka Japan

Monday 7 October:

Arrival of participants, check-in at the front desk of Yokohama Bay Sheraton Hotel , by yourselves.

17:00~18:30

Registration for INMARTECH2002 with application for Lunch, Banquet, and excursion at the registration desk in front of the Room Nichirin. on 2nd floor.

(Japanese Yen is required, No foreign currency or credit card)

18:30~20:00

*****ICE BREAKER PARTY*****

Yokohama Bay Sheraton Hotel at Room Nichirin

Tuesday 8 October

08:01 Yokohama Station (Limited Express, Keikyu Line) and **08:08**

08:30 Oppama Station

Shuttle service from Oppama Station to JAMSTEC is available at 08:30 and 08:40.

09:00~09:10 WELCOME and OPENING ADDRESS

Mr.Hiroyasu Momma, director of Research Support Department, JAMSTEC

09:10~09:30 History of INMARTECH

Ms.Marieke J Rietveld, Netherlands Institute for Sea Research (NIOZ)

09:30~10:30 Oral Session 1 (General Session)

(2-b) Long term monitoring

Chair: Hans W. Gerber / TFH Berlin

: Koichi Takao / Marine Works Japan Ltd.

- **An approach for Mobile and real-time observation on the seafloor** Katsuyoshi

Kawaguchi / JAMSTEC

- **Abyssal Operation in the Inner Space for Geophysical Observatories and Biotechnology -MODUS (Mobile Docker for Underwater Sciences) for the European Research Projects GEOSTAR, BIODEEP and others** Hans W. Gerber / TFH Berlin

10:30~10:50 Coffee Break

10:50~12:50 Oral Session 2 (General Session)

(2-b) Long-term monitoring

Chair: Hans W. Gerber / TFH Berlin

: Koichi Takao / Marine Works Japan Ltd.

- **Use of sediment profile imagery for the in situ observation of invertebrate infauna** Martin Solan / Ocean Laboratory, University of Aberdeen
- **Deep-Sea current meter moorings : a review of hydrodynamic aspects and design criteria** Anders Tengberg / Goteborg University
- **Operation of TRITON buoy array I. Problems due to human activities** Toru Nakamura / JAMSTEC
- **Operation of TRITON buoy array II. Maintaining, deploying, recovering and repairing of TRITON buoys** Masayuki Fujisaki / Marine Works Japan Ltd.

12:50~13:50 Luncheon

13:50~14:50 Poster Session 1

14:50~15:30 Keynote Speech 1

- **Around the Southern Hemisphere Hydrographic Navigation of R/V MIRAI**

Hiroshi Uchida / JAMSTEC

15:30~17:00 Oral Session 3 (Parallel session)

(1-c) Geophysical Observation Technology

Chair: Char-Shine Liu / National Taiwan University

: Takeshi Matsumoto / Nippon Marine Enterprises Ltd.

- **Multibeam Systems On An Ice Strengthened Vessel** David Blake / British Antarctic Survey
- **Seafloor gravity measurement by use of manned submersibles** Takeshi

Matsumoto / Nippon Marine Enterprises Ltd.

- **Seismic data acquisition for gas hydrate investigation** Char-Shine Liu / Oceanography, National Taiwan University

(1-d) Sampling Technology

Chair: Kazuhiro Kuroki / JAMSTEC

: Motoyuki Miyamoto / Marine Works Japan Ltd.

- **Evaluation of Quality of Sediment Cores : Comparison of Core Samples obtained by the Different Type Cores** Ken Ikehara / Geological Survey of Japan, AIST
- **Conceptual Design Study for a New Long Coring System** James E. Broda / Woods Hole Oceanographic Institution
- **Core Sampling Technology used on scientific drill ships** Kazushi Kuroki / JAMSTEC

17:00~17:20 *Coffee Break*

17:20~18:20 Oral Session 4 (Parallel Session)

(1-c) Geophysical Observation Technology

Chair: Char-Shine Liu / National Taiwan University

: Takeshi Matsumoto / Nippon Marine Enterprises Ltd.

- **Developing new OBS** Makoto Ito / Nippon Marine Enterprises Ltd.
- **Improvement of Air Gun Array's width for a quasi-3D Multi-Channel Seismic Survey by single streamer cable** Shinichi Hosoya / Nippon Marine Enterprises Ltd.

(1-d) Sampling Technology

Chair: Kazushi Kuroki / JAMSTEC

: Motoyuki Miyamoto / Marine Works Japan Ltd.

- **A new way of oceanographic watersampling** S. Ober / Royal Netherlands Institute for Sea Research (NIOZ)
- **Zooplankton Sampling Technology in Southern Africa** Tembaletu Tanci / Marine and Coastal Management

18:20 *Adjourn*

Shuttle service from JAMSTEC back to Oppama station is available at 18:35, 19:05, 19:35, every 30 minutes until 21:05.

Wednesday 9 October

09:00~11:00 Oral Session 5 (General Session)

(2-a) Manned and Unmanned Vehicle

Chair: Edward Cooper / Southampton Oceanography Centre

: Taro Aoki / JAMSTEC

- **United States Deep Submergence National Facility -Alvin, Jason II and ABE**
Barrie Walden / Woods Hole Oceanographic Institution
- **Research on the improvement of propulsion maneuvering system of Shinkai 6500 with experimental thrusters and automatic motion control** Takuya Shimura / JAMSTEC
- **Compact, large capacity lithium iron battery for Shinkai 6500** Shinichi Suzuki / JAMSTEC
- **Borehole Re-Entry / Observatory Deploy ROV "Benkei"** Masanori Kyo / JAMSTEC

11:00~11:20 Coffee Break

11:20~12:00 Keynote Speech 2

- **Unique Applications of ROV's in the Historic Salvage Effort of the F/V EHIME MARU**
Gregg W. Baumann / US. Navy

12:00~13:00 Luncheon

13:00~14:00 Poster Session 2

14:00~16:00 Oral Session 6 (General Session)

(2-a) Manned and Unmanned Vehicle

Chair: Barrie Walden / Woods Hole Oceanographic Institution

: Hiroyasu Momma / JAMSTEC

- **The Deep Sea Research ROVs of the JAMSTEC** Toshinobu Mikagawa / JAMSTEC
- **Preliminary Design and Operational Concept of a Deep-sea Unmanned Underwater Vehicle** Sea-Moon Kim
- **Autosub-Past and Future Activities from an Observers' Viewpoint** Edward Cooper
- **Experiments of an Autonomous Underwater Vehicle "Urashima"** Satoshi

Tsukioka / JAMSTEC

16:00~16:50 Facility Tour (AUV&ROV)

16:50~18:20 Oral Session 7 (Parallel Session)

(1-b) Meteorological Observation Technology

(1-a) Oceanographic Observation Technology

Chair: Shuichi Watanabe / JAMSTEC

: Kimiaki Kudo / Global Ocean Development Inc.

- **On the calibration equation for the estimation of SSC in the coastal sea from remote sensing data** Mohammad Rezwanul Islam / Nagoya Univ.
- **The maintenance and management of Argo floats** Asako Inoue / Marine Works Japan Ltd.
- **Results from a one year deployment of an autonomous profiling system** Christoph Waldman / University of Bremen

(2-c) Ship Operation Technology

Chair: Shinichi Takagawa / JAMSTEC

: Masataka Zaito / Nippon Marine Enterprises Ltd.

- **Handling the 7m AUV Autosub Without the Need for Launching Small Boats** Peter Stevenson / Southampton Oceanography Centre
- **Winch Operations and the CLAM SYSTEM (Cable Logging And Monitoring)** Peter Mason / Southampton Oceanography Centre
- **Operational Results of Transponder Mooring System Recovery using The Rope Rescue System for "Shinkai 6500"** Kikuo Hashimoto / JAMSTEC

18:20 Adjourn

Thursday 10 October

09:00~10:00 Oral Session 8 (Parallel Session)

(1-a) Oceanographic Observation Technology

Chair: Kimiaki Kudo / Global Ocean Development Inc.

: Atsuo Ito / Marine Works Japan Ltd

- **A USB XBT Interface and Client/Server Approach to XBT Data Acquisition** Lindsay Pender / CSIRO Marine Research
- **Accuracy improvement of ADCP mounted on R/V MIRAI** Satoshi Okumura / Global Ocean Development Inc.

(2-c) Ship Operation Technology

Chair: Katsura Shibata / JAMSTEC

: Masataka Zaitu / Nippon Marine Enterprises Ltd.

- **KYT (Training to predict danger)** Kouji Sameshima / Nippon Marine Enterprises Ltd.
- **Ice Navigation** Takaaki Hashimoto / Global Ocean Development Inc.
- **Operation of the Hybrid Anti-Rolling System on Board the R/V MIRAI** Satoshi Ueda / JAMSTEC

10:00~10:20 Coffee Break

10:20~12:20 Oral Session 9 (General Session)

(3) Data Management

Chair: Kazuhiko Sono / JAMSTEC

: Toshio Tsuchiya / AESTO

- **Noises recorded by MCS system on R/V KAIREI and the trial of the noise suppression processing** Tetsuo No / Nippon Marine Enterprises Ltd.
- **Shipboard geological and geophysical observation systems on R/V MIRAI** Kazuhiro Sugiyama / Marine Works Japan Ltd.
- **Feasibility Study of Onboard support on the deep-sea research in JAMSTEC** Toru Kodera / Nippon Marine Enterprises Ltd.
- **Deep sea image processing of JAMSTEC** Jun Naoi / JAMSTEC

12:20~13:20 Luncheon

13:20~14:50 Oral sessions 10 (General session)

(3) Data Management

Chair: Masao Nomoto / JAMSTEC

: Jun Naoi / JAMSTEC

- **Automated real-time eddy flux measurement system on a cruising ship.** Satoshi Takahashi / Okayama Univ.
- **Marine Information and Data Acquisition System** Francisco Hernandez / VLIZ (Vlaams Instituut voor de Zee)
- **Marine Technicians in NME -Supporting scientific activities in the JAMSTEC-** Misumi Aoki / Nippon Marine Enterprises Ltd.

14:50~16:10 Facility tour & Tea ceremony at Kaikyu-an

16:10~16:20 Invitation to INMARTECH2004

Mr. David Blake / British Antarctic Survey

16:20~16:30 Closing address

Mr. Masato Chijiya / Executive Director, JAMSTEC

16:30~

Move to the JAMSTEC
******* Yokohama Institute for Earth Sciences(YES) *******
by a charter bus

17:00~18:00

******* Facility tour of YES *******
Earth Simulator & Earth Science Museum

18:00~20:00

******* *Farewell party* *******
at the guest house of YES

20:00 *Adjourn*

* 15 minutes walk from Yokohama institute to the nearest train station,
Keikyu Sugita Station and JR Shin Sugita Station

Friday 11 October

**Excursion to MeSci
(National museum of emerging science and innovation)
(Draft)**

All transportation is by a JAMSTEC charter bus.

- 8:30** **Yokohama Bay Sheraton Hotel**
Sightseeing around Yokohama bay area by bus
- 9:00** **Osanbashi pier**
- 9:30** **Yokohama China Town**
- 10:20** **Transport from Yamashita Park to MM21 by Sea bass**
- 10:30** **Leave MM21 area to Tokyo**
- 11:40** **Arrive at MeSci**
Luncheon
- 14:00** **Leave MeSci**
- 14:40** **Asakusa Sensoji-temple**
- 16:00** **Leave Asakusa area to the hotel via Akihabara**
- 17:30** **Arrive at Yokohama Bay Sheraton Hotel**
The end of INMARTECH2002

*You can get off the bus and leave the tour if you have certain place to look around,
Such as Akihabara, Asakusa, etc, after visiting MeSci

Poster Session

All the posters will be available at lecture room during the whole period.

Tuesday 8 October

Wednesday 9 October

13:50~14:50

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13:00~14:00

(1-a) Oceanographic Observation Technology

- **Breakage and measure of vessel-mounted ADCP cover** Yasutaka Imai / Global Ocean Development Inc.
- **CTD Operation with Three Systems on R/V MIRAI** Fujio Kobayashi / Marine Works Japan Ltd.

(1-c) Geophysical Observation Technology

- **Multibeam Systems on an Ice Strengthened Vessel.** David Blake / British Antarctic Survey
- **Operation methods of MCS on R/V KAIREI** Takeshi Katayama / Nippon Marine Enterprises Ltd. Marine Science Dept.

(1-d) Sampling Technology

- **Chemical analyses of seawater on R/V MIRAI** Katsunori Sagishima / Marine Works Japan Ltd.
- **Handling and operation of sediment sampling tools on R/V MIRAI and KAIREI** Yutaka Matsuura / Marine Works Japan Ltd.

(2-a) Manned and Unmanned Vehicle

- **Autosub-Past and Future Activities from an Observers' Viewpoint** Edward Cooper / Southampton Oceanography Centre
- **JAMSTEC Deep Tow Systems** Naotaka Togashi / Marine Works Japan Ltd.

(2-b) Long Term monitoring

- **Autonomous Operation of Instruments with Flow-through System onboard VOS** Naohiko Nakajima / VOS Nippon
- **DOBO: Deep Ocean Benthic Observatory** Martin Solan / Ocean Laboratory, University of Aberdeen
- **ROBIO: Robust Biodiversity Lander** Martin Solan / Ocean Laboratory, University of Aberdeen
- **FRESP: In situ Fish Respirometer** Martin Solan / Ocean Laboratory, University of Aberdeen

- **ISIT Lander: Intensified Silicon Intensifying Target camera for observation of bioluminescence** Martin Solan / Ocean Laboratory, University of Aberdeen

(2-c) Ship Operation Technology

- **Oceanographic Ship's Winch Monitoring System** Lindsay R. MacDonald / CSIRO Marine Research
- **Winch Operations and the CLAM SYSTEM (Cable Logging And Monitoring)** Peter Mason / Southampton Oceanographic Centre

(3) Data Management

- **Geophysical data management in JAMSTEC (Bathymetry data management and method of processing)** Rie Ishii / Nippon Marine Enterprises Ltd. Marine Science Dept.
- **Gravity data management in JAMSTEC** Masayuki Toizumi / Nippon Marine Enterprises Ltd. Marine Science Dept.
- **Development of database for sediment core samples in JAMSTEC** Kazuhiro Sugiyama / Marine Works Japan Ltd.
- **Marine Information and Data Acquisition System** Francisco Hernandez / VLIZ (Vlaams Instituut voor de Zee)
- **Centralized marine instruments data acquisition system onboard R/V OCEAN RESEARCHER I** Shye-Donq Chiu / Oceanography, National Taiwan University
- **Preparation of reference materials for measurement of total carbonate in seawater** Hideki Yamamoto / Marine Works Japan Ltd.
- **Data management in JAMSTEC** Yoshimasa Abe / Marine Works Japan Ltd.
- **Data management of ARGO float** Hiroyuki Nakajima / Marine Works Japan Ltd.
- **CTD observed data- from data acquisition to publication-** Kentaro Oyama / Marine Works Japan Ltd.
- **Underway data acquisition and distribution on the RS Africana** Patrick Hayes-Foley / Marine and Coastal Management