

Techno-Ocean 2010

A New Era of the Ocean

October 14-16, 2010, Kobe, Japan

Organizer



Techno-Ocean Network (TON)

Co-Organizers



- Kobe University, Graduate School of Maritime Sciences
- Japanese-French Oceanographic Society

Sponsors



- Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
- City of Kobe
- Kobe Convention and Visitors Association (KCVA)
- IEEE/OES Japan Chapter
- MTS Japan Section

Call for Papers

www.techno-ocean2010.com

Techno-Ocean 2010

Date ; October 14 Thu. -16 Sat., 2010

Venue ; Kobe International Exhibition Hall (Kobe, Japan)

A New Era of the Ocean

As new global trends have become evident, a new era of the ocean has begun. Attempts to characterize these trends have already been made in many subdisciplines of maritime science, including marine engineering, resource development, ecology, policy, education, and so on. An international symposium and exhibition, Techno-Ocean 2010, will offer opportunities for fruitful exchange of ocean science and technology across subdisciplines and across generations. Let's start what we can do now to convey our understanding of the wonderful ocean to the next generation.

Special Session Topics

◎ **Marine Education & ESD (Education for Sustainable Development)**

◎ **Towards Sustainable Use and Management of the Oceans**

One of the special topics of Techno-Ocean 2010 is "Marine Education and ESD (Education for Sustainable Development)". Japanese-French Oceanographic Society will also organize another special session, "Towards Sustainable Use and Management of the Oceans". These topics are the most important subjects to preserve the ocean for the next generation.

General Topics for Call for Papers

Techno-Ocean 2010 calls for papers in the following general topics other than the special session ones, and expects many paper submissions to arrange sessions with wide variety.

Aquaculture/Artificial Upwelling/Fishery Engineering	Marine Environment Science/Technology/Management
Artificial Reef/Lagoon/Tidal Flat	Marine Logistics/Port Management
Carbon Dioxide Capture & Sequestration	Marine Policy/Law/Economics
Coastal & Estuary Monitoring/Modeling	Marine Resource/Management/Ocean Drilling
Corals/Mangroves/Tropical Ecosystems	Marine Safety/Defense/Security
Current/Tide/Wave/Tsunami	Marine Sports/Tourism
Data Collection/Processing & Management	New Ship Concept/Design
Deep Ocean Water Application	Ocean Archaeology/Maritime History
Environmental Impact Assessment	Ocean Circulation/Ocean Flux/Sea-Air Interaction
Environmental Risk Assessment/Management	Renewable Energy
Geo-technology/Soil Technology	Sensing/Monitoring/Acoustic Technology
Global Warming/Climate Change/Sea Level Rise	Structure/Material/Welding
Maneuvering/Navigation/Control	Underwater Robotics/AUV/ROV
Marine Biology/Biotechnology/Biodiversity	VLFS/Floating Platform/Buoy
Marine Engine/Propulsion/Ship Hydrodynamics	Watershed & Coastal Zone Management

Procedure of Paper Submission

Firstly, you will submit an abstract. For the paper accepted by the abstract review, you will write a manuscript within four pages for publication in the symposium proceedings. The contents of the manuscript will be free for paper submission to any journals published by societies, which are cooperative members of Techno-Ocean 2010. The submission system is now open on Techno-Ocean 2010 website.

Important Dates

◆ Abstract

- Deadline: May 31, 2010, approximately 400 words with no figure or table.
- Language: English (Japanese is acceptable for the Marine Education & ESD.)
- Method of submission: Online through the website at www.techno-ocean2010.com
- Notification of acceptance : June 30, 2010, after reviewing.

◆ Proceedings Paper

- Deadline: August 31, 2010
- Language: English (Japanese is acceptable for the Marine Education & ESD.)
- Instructions for preparation of manuscript will be informed on the website.

Friday, October 15th Room 3 (2B)

"Célébration du 50ème Anniversaire de la Société franco-japonaise d'Océanographie"

"Celebration of 50th Anniversary of Société franco-japonaise d'Océanographie"

Theme:

Towards sustainable use and management of the oceans

Keynote presentations

8:30-9:30

Chair persons: Dr. Yves HENOCQUE (Division of Prospective and Strategy, IFREMER)
Prof. Shiro IMAWAKI (JAMSTEC)

An attempt to develop new tools to represent natural processes, economical and social parameters in the use of coastal systems: the SPICOSA project

Prof. Denis BAILLY (Centre of Law and Economy of the Sea, University of Bretagne Occidentale)

Concept and practices of Satoumi in Japan and lessons learned

Prof. Tetsuo YANAGI (Research Institute for Applied Mechanics, Kyushu University)

Oral presentations (Part 1)

9:45-11:45

Chair persons: Prof. Jiro YOSHIDA (Faculty of Marine Science, Tokyo University of Marine Science and Technology)
Prof. Jean-Paul DUCROTOY (Professor emeritus of Hull University)

1. Understanding of ecosystem and its model

The Charm Project: Defying the Channel's loss by facing environmental challenges across borders

Dr. André CARPENTIER (Channel and North Sea Fisheries Department, IFREMER)

Coastal ecosystem model as a tool of environmental management

Prof. Kisaburo NAKATA (Faculty of Marine Science, Tokai University)

2. Water quality and its control

Dissolved Inorganic Nitrogen budget for the inner part of Manila Bay, Philippines

Prof. Mitsuru HAYASHI (Research Center for Inland Seas, Kobe University)

The Cap Sicié ecological restoration unit for marine environment

Dr. M. Etienne CLAMAGIRAND (Architeuthis Ltd.)

Chair persons: Prof. Hiroshi KOHNO (Faculty of Marine Science, Tokyo University of Marine Science and Technology)
Dr. Georges STORA (Center of Oceanography of Marseille, University of the Méditerranée)

3. Fisheries impact on marine ecosystems and sustainable use of fish stock

Toward a systemic approach to fisheries management: The European eel (*Anguilla anguilla*) case

Dr. Patrick PROUZET (Laboratory of Fisheries Resources of Aquitaine, IFREMER)

Practice of sandeel fisheries management in Ise Bay toward responsible and sustainable fisheries

Dr. Minoru TOMIYAMA (Chita Agriculture, Forestry, and Fisheries Office, Aichi Prefecture)

4. Ecosystem management across borders

Satellite based monitoring of marine and coastal environment of the Northwest Pacific

Dr. Genki TERAUCHI (Northwest Pacific Region Environmental Cooperation Center & NOWPAP CERAC)

The MERMeX program for the Mediterranean Sea

Dr. Richard SEMPERE (Center of Oceanography of Marseille, University of the Méditerranée)

Oral presentations (Part 2)

13:30-15:30

Chair persons: Prof. Hisayuki ARAKAWA (Faculty of Marine Science, Tokyo University of Marine Science and Technology)
Prof. Ivan DEKEYSER (Center of Oceanography of Marseille, University of the Méditerranée)

5. Technology for sustainable development

Prado reefs program: an exemplary Marseille coastal management project

Dr. Emilia MEDIONI (Department of Sustainable Development, Marseille City)

New ecological engineering for the marine coastal areas

Dr. Guy HERROUIN (Pôle Mer, Provence Alpes Côte d'Azur)

6. New monitoring method

A new method for coral monitoring using boat-based fluorescence imaging lidar

Dr. Masahiko SASANO (National Maritime Research Institute)

New observation tools (fluorescence sensors) for monitoring pollutants in marine areas submitted to urban inputs

Dr. Madeleine GOUTX (Center of Oceanography of Marseille, University of the Méditerranée)

Chair persons: Prof. Jota KANDA (Faculty of Marine Science, Tokyo University of Marine Science and Technology)
Prof. Michel KASBARIAN (University of the Méditerranée)

7. Marine policy

Initiatives toward integrated coastal management in Japan

Dr. Takashi ICHIOKA (Ocean Policy Research Foundation)

Marseilles Municipality: major improvement in marine governance and international cooperation to contribute to "peaceful" management of the Mediterranean Sea.

Mr. Jean-Charles LARDIC (Secretary General, Marseille City)

8. Education for protection and sustainable use of marine environments

An introduction to EDOMAE ESD: Education for a sustainable Tokyo Bay learning through a university and coastal communities partnership

Prof. Hiroshi KOHNO (Faculty of Marine Science, Tokyo University of Marine Science and Technology), Midori KAWABE (Tokyo University of Marine Science and Technology), Takashi ISHIMARU (Tokyo University of Marine Science and Technology) and Edomae ESD members

An important and original teaching method to sensibilise the pupils and the student to protect marine environments: "Mer en Fête" (Sea in Festival)

Prof. Hubert Jean CECCALDI (University of the Méditerranée & Academy of Sciences, Letters and Arts of Marseille)

Round table discussion

15:30-16:15

Moderator:

Prof. Teruhisa KOMATSU (Atmosphere and Ocean Research Institute, The University of Tokyo)

Speakers:

Prof. Teruaki SUZUKI (Research Institute, Meijyo University)

Mme. Pascale JANNY (Department of Environment and Urban Space, and Integrated Management and Governance of Coastal Zone, Marseille City)

Dr. Yves HENOCQUES (Division of Prospective and Strategy, IFREMER)

Prof. Tetsuo YANAGI (Research Institute for Applied Mechanics, Kyushu University)

Prof. Denis BAILLY (Centre of Law and Economy of the Sea, University of Bretagne Occidentale)

Celebration of the 50th Anniversary of Société franco-japonaise d'Océanographie du Japon

16:30-18:00

Presider:

Prof. Tsutomu MORINAGA (Vice President of the Société franco-japonaise d'Océanographie du Japon)

Opening speech:

Prof. Shiro IMAWAKI (President of the Société franco-japonaise d'Océanographie du Japon)

Congratulatory speech:

Prof. Hubert CECCALDI (President of the Société franco-japonaise d'Océanographie de la France)

Congratulatory speech:

Prof. Isao KOIKE (President of the Oceanographic Society of Japan)

Congratulatory message:

Mr. Tatsuo YADA (Mayor of Kobe City)

Congratulatory message:

Prof. Marc HUMBERT (Director of Maison franco-japonaise de Tokyo)

Congratulatory speech:

Prof. Hiroshi ISHIDA (Representative of Techono-Ocean 2010)

Congratulatory speech:

Dr. Florence RIVIERE-BOURHIS (Scientific Counselor, Embassy of France in Japan)

Commemoration lecture:

Dr. Richard SEMPERE (Center of Oceanography of Marseille, University of the Méditerranée)

"Future collaboration between France and Japan on oceanography"

Poster session

13:00-13:30

1 Daily expression patterns of growth-related genes in transgenic coho salmon

Toshiki Nakano (Tohoku University)

2 Limiting factors of phytoplankton communities along the Ogasawara transect in North Western Pacific Ocean

Mathias Georges GIRAULT (TUMSAT (Tokyo University of Marine Science and Technology))

3 Survival Response during Early Larval Stage of Japanese Sardine to Physical Oceanic Conditions Leading to Their Recruitment

Daisuke Ambe (National Research Institute of Fisheries Science, Fisheries Research Agency, Japan)

4 Early life history of ayu *Plecoglossus altivelis altivelis* occurring in the innermost Tokyo Bay including the Tama-gawa River

Yushiro Kinoshita (Laboratory of Ichthyology, Tokyo University of Marine Science and Technology)

5 The occurrence patterns and ontogenetic intervals based on the development of swimming- and feeding-related characters in larvae and juveniles of the seabass, *Lateolabrax japonicus*, in the Tokyo Bay

Yasushi Tamura (TUMSAT (Tokyo University of Marine Science and Technology))

6 Seasonal occurrence and abundance of fishes at a sandy beach in Banda, the Tateyama Bay, the mouth of Tokyo Bay, central Japan, with special reference to the diurnal and tidal changes of fish abundance

Kaoru Kasahara (TUMSAT (Tokyo University of Marine Science and Technology))

7 Ichthyofauna of tide lands in the Obitsu-gawa River estuary of the Tokyo Bay, central Japan

Yukihiro Hoshino (TUMSAT (Tokyo University of Marine Science and Technology))

8 Occurrence patterns and feeding habits of four gobiid species in the Obitsu-gawa River of the Tokyo Bay, central Japan

Tomohiko Sekizawa (TUMSAT (Tokyo University of Marine Science and Technology))

9 Coral Damage Assessment using Fluorescence Imagery.-Condition of Faviidae Colonies at Southern Ishigaki Island

Akira Matsumoto (National Maritime Research Institute)

10 Density salinity measurements of the standard seawaters for conductivity and nutrients

Hiroshi Uchida (Research Institute for Global Change/JAMSTEC)

11 Sargassum beds in East China Sea are a key for sustaining yellowtail stock and especially its aquaculture

Teruhisa Komatsu (The University of Tokyo)

12 Methods to release Elasmobranchs from purse seines

François Poisson (IFREMER)

13 The Draft of a National Park of the Calanques: towards a sustainable use and management of the Mediterranean Sea

Pascale Janny (City of Marseille)

14 Green marine construction: mitigate coastal construction by ecological-engineering design

Silvain Pioch (Egis Eau Co)

15 Green tides and water management in Brittany, France

Bunei Nishimura (University of Western Brittany)

16 Functional biodiversity and biogeochemical fluxes in the *Macoma balthica* community : the impact of species interactions

Georges Stora (Laboratoire de Microbiologie, de Géochimie et d'Ecologie Marines (LMGEM), COM, Campus)

17 Marine Provence Alpes Côte d'Azur Cluster

Guy Herrouin (Pôle Mer PACA)

18 SAS SEAORBITER

Hubert Jean CECCALDI (University of the Méditerranée & Academy of Sciences, Letters and Arts of Marseille)