

1800-2000 2000-2200	Pre Conference Icebreaking	31 <sup>st</sup> Oct.
0800-0900	Registration	1 <sup>st</sup> November
0900-0905	<b>Arrival of the Right Honorable Chief Minister of Kedah</b>	
0905-0915	<b>Welcome Remarks by Fadm. Mohd Rasip bin Hassan, Chairman of National Commission for IOC-Malaysia</b>	
0915-0925	<b>Welcome Remarks by Mr. Toshio Nagai, IODE Regional Co-ordinator for WESTPAC</b>	
0925-0940	<b>Address by Dr. I. Oliounine, Deputy Executive Secretary, IOC/UNESCO</b>	
0940-1000	<b>Official opening by the Right Honorable Chief Minister of Kedah</b>	
1000-1030	<b>Exhibition Tour / Refreshments</b>	
1030-1100	<b>Press Conference at the Marine Club Lounge</b>	
<b>Seminar on "Oceanography and Marine Science"</b>		
Slot 1 (at Dewan Pelangi)	Slot 2 (at Dewan Cenang)	
1030-1300 <b>Session 1A</b>	1030-1300 <b>Session 2</b>	
1300-1415	Lunch / Poster Session at Dewan Pelangi	
1415-1600 <b>Session 1B</b>	1415-1500 <b>Session 3A</b>	
1600-1630	Refreshments / Poster Session at Dewan Pelangi	
1630-1800 <b>Session 1C</b>	1615-1800 <b>Session 3B</b>	
2000-2200	Dinner reception	
0900-1045	<b>Session 4A</b>	0900-1045 <b>Session 5A</b>
1045-1115	Refreshments	
1115-1245	<b>Session 4B</b>	1115-1245 <b>Session 5B</b>
1245-1400	Lunch	
1400-1530	<b>Session 4C</b>	1400-1530 <b>Session 5C</b>
1530-1600	Refreshments	
1600-1720	<b>Panel Discussion</b> at Dewan Pelangi	
2000-2200	Dinner reception	
<b>Workshop on "IODE activities in the WESTPAC Region"</b> <i>at Dewan Pelangi</i>		3 <sup>rd</sup> November
0900-0910	<b>1. Opening</b>	
0910-0920	<b>2. Administrative Arrangement</b>	
0920-1035	<b>3. Status of oceanographic data &amp; information exchange, the national and international projects operating in the WESTPAC region</b>	
1035-1105	Refreshments	
1105-1230	<b>3. Status of oceanographic data &amp; information exchange, the national and international projects operating in the WESTPAC region (continuation)</b>	
1230-1400	Lunch	
1400-1610	<b>4. Review of IODE products and services</b>	
1610-1630	Refreshments	
1630-1800	<b>5. Capacity building for oceanographic data &amp; information management</b>	
2000-2200	Dinner reception	
0830-1010	<b>6. Measurements to satisfy the user's needs for data from the IODE system, quality control of oceanographic data and processed data &amp; information types etc.</b>	4 <sup>th</sup> November
1010-1030	Refreshments	
1030-1200	<b>7. Proposed actions</b>	
1200-1230	<b>8. Wrap up</b>	
1230-1245	<b>9. Closing</b>	
1245-1400	Lunch	
<b>Excursion</b> Study Tour for Marine Monitoring System, Island Tour etc.		

# SEMINAR ON "OCEANOGRAPHY AND MARINE SCIENCE"

## SESSION 1; Coastal Environment with the Focus on Data Requirements, Needs & Products

at Dewan Pelangi, 1030 - 1800, 1<sup>st</sup> November

### Session 1A Chairman: Prof. Ir. Dr. Abd. Aziz Ibrahim

- 1030-1115 **Keynote: Ocean Circulation in the Asian Waters**  
*Prof. Dr. Tetsuo Yanagi, Research Institute for Applied Mechanics, Kyushu University, Japan*
- 1115-1130 **CE01: Tidal Dynamic in Malacca Straits**  
*Lcdr. Drs. Dede Yuliadi, Indonesian Navy*
- 1130-1145 **CE02: Potential use of Satellite Altimeter Data for the Determination of the Leading Tidal Constituents for the Marine Region of Peninsular Malaysia**  
*Muhammad Nur JP Vella, Centre for Geodetic and GPS Studies (CGGS), Faculty of Geoinformation Science & Engineering, UTM, Malaysia*
- 1145-1200 **CE03: Contribution of National Tidal Data Centre in Research and Development Activities in Indonesia**  
*First Admiral Mohamad Makmur Sulaeman, Indonesian Navy Dishidors TNI-AL, Indonesia*
- 1200-1215 **CE04: Characteristic Scales in Coastal and Limnological Processes: Implications in Data Sparse Environment**  
*Dr. Koh Hock Lye, School of Mathematical Science, Universiti Sains Malaysia, Malaysia*
- 1215-1230 **CE05: GIS for Coastal Management in Phangnga Bay**  
*Mr. Sirichai Roungrit, Office of Environmental Policy & Planning, Thailand*
- 1230-1245 **CE06: The National Environment and Resource Information Center (NERIC) and Coastal Zone Management in Vietnam**  
*Prof. Dr. Bui Cong Que, Vietnam National Oceanographic Data Center, Vietnam*
- 1245-1300 Discussion
- 1300-1415 Lunch / Poster

### Session 1B Chairman: Prof. Dr. Tetsuo Yanagi

- 1415-1430 **CE07: Straits of Malacca Management Compliance and Information System (SOMMACIS)**  
*Prof. Mohd Ibrahim Mohammed, Dept. of Environmental Science, Faculty of Science & Environmental Studies, Universiti Putra Malaysia, Malaysia*
- 1440-1445 **CE08: Research and Data Needs in Managing Coastal Erosion**  
*Assoc. Prof. Hadibah Ismail, Coastal & Offshore Engineering Institute, Universiti Teknologi Malaysia, Malaysia*
- 1445-1500 **CE09: Seasonal Shoreline Characteristics of the Open Muddy Beach of the Pantai Punggur, Malaysia**  
*Assoc. Prof. Dr. Ahmad Khairi Abd. Wahab, Hydraulic & Hydrology Department, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia*
- 1500-1515 **CE10: Some Behaviours of Strongest Short-term Coastal Change Induced by Cross-shore Wave Energy Flow and Corresponding Theoretical Consideration**  
*Dr. Le Phuoc Trinh, Institute of Oceanography of Vietnam, Vietnam*
- 1515-1530 **CE11: Restoration of the Breakwater of Fishing Harbour in Thangassery, Kerala**  
*Mr. K.K.Raveerdran, Harbour Engineering Department, India*
- 1530-1545 **CE12: Rapid Reef Mapping- An Attempt with Hydroacoustic Method**  
*Lee Yew Jin, Elcee Instrumentation Sdn Bhd, Malaysia*
- 1545-1600 Discussion

1600-1630 Refreshments / Poster

**Session 1C**      **Chairman: Assoc. Prof. Hadibah Ismail**

- 1630-1645 **CE13:** **The Role of International Organizations in the Study of Rivers & Sea Coastal Area Interaction**  
*Dr. I.Oliouline, IOC/UNESCO, France*
- 1645-1700 **CE14:** **Real-Time Information System for Sustainable Management of Shared Coastal Waters: Gulf of Thailand as a Demonstration Site**  
*Dr. Anond Snidvongs, Marine Science Dept., Chulalongkorn University, Thailand*
- 1700-1715 **CE15:** **Role and Contribution of Oceanographic Research in Maritime Policy Making in Malaysia**  
*Mr. Mohd. Nizam Basiron, Center for Marine and Coastal Environment, Maritime Institute of Malaysia, Malaysia*
- 1715-1730 **CE16:** **Data Necessary for an Effective Hydraulic Study: The Malaysian Scenario**  
*Iwan Tan bin Sofian Tan, Hydec Engineering Sdn Bhd, Malaysia*
- 1730-1745 **CE17:** **Role of Marine Information Transfer in Upliftment of Coastal Communities: A study based on Kerala (India)**  
*K.E.Thampi, India*
- 1745-1800 Discussion

**SESSION 2; Data Management Activities  
and Technical Developments**  
*at Dewan Cenang, 1030 - 1300, 1<sup>st</sup> November*

**Session 2**      **Chairman: Dr. Henry R. Frey**

- 1030-1115 **Keynote:** **Technical Developments in Marine Data Management**  
*Mr. Ben Searle, Chairman, IODE Committee of IOC, Head of Australian Oceanographic Data Center, Australia*
- 1115-1130 **DM01:** **The Use of Autonomous Solar Electric Research Vessel to obtain Oceanographic Data**  
*Peter Thomas, Dept. of Software & Electronic Eng, Central Institute of Technology, New Zealand*
- 1130-1145 **DM02:** **Digital Marine Mapping of Indonesian Waters**  
*Mr. Suharto Widjojo, National Coordination Agency for Surveys & Mapping (BAKOSURTANAL), Indonesia*
- 1145-1200 **DM03:** **Marine Data and Information Management in Vietnam**  
*Dr. Van Moi Nguyen, Marine Hydrodynamic Research, Vietnam*
- 1200-1215 **DM04:** **An Internet Server for the Visualisation of Gridded Oceanographic Data**  
*Dr. Greg Reed, Australian Oceanographic Data Center, Australia*
- 1215-1230 **DM05:** **VODC for PC 2.0 (the Software for Integrated Oceanographic Data Management)**  
*Tac Van Vu, Institute of Oceanography, Nha Trang, Vietnam, Vietnam*
- 1230-1245 **DM06:** **Quality Control Software which is easily applicable to Oceanographic Data Processing in Data Originators**  
*Dr. Toru Suzuki, Marine Information Research Center, Japan*
- 1245-1300 Discussion
- 1300-1415 Lunch / Poster

**SESSION 3; Living Marine Resources with the Focus  
on Data Requirements, Needs & Products**  
*at Dewan Cenang, 1415 - 1800, 1<sup>st</sup> November*

**Session 3A            Chairman: Dr. Mohd Rajuddin Kushairi**

- 1415-1500 **Keynote: Utilization of Biological Data for IODE system in the WESTPAC area**  
*Prof. Dr. Makoto Terazaki, Ocean Research Institute, University of Tokyo, Japan*
- 1500-1515 **LMR01: Distribution of Intertidal Meiobenthos in Langkawi Island Malaysia**  
*Dr. Idris Abdul Ghani, Dept. of Biology, Faculty of Science & Environmental Studies,  
Universiti Putra Malaysia, Malaysia*
- 1515-1530 **LMR02: Seagrass Ecosystem in Indonesia: A Case Study in Lombok Island**  
*Mr. Muhammad Husni Azkab, Research & Development Center for Oceanography,  
Indonesian Institute of Sciences, Indonesia*
- 1530-1545 **LMR03: Leaf Growth, Production and Ecosystem Dynamics of Toothed Seagrass *Cymodocea serrulata* (R. Br.) Aschers. et Magnus in Port Dickson, Malaysia**  
*Abu Hena M. Kamal, Dept. of Biology, FSAS, Universiti Putra Malaysia, Malaysia*
- 1545-1600 Discussion
- 1600-1630 Refreshments / Poster

**Session 3B            Chairman: Prof. Dr. Makoto Terazaki**

- 1630-1645 **LMR04: Some Observations on the Impacts of the Indo-Pacific Region 1998 SST Anomalies on Local Coral Communities**  
*Dr. Mohd Rajuddin Kushairi, Ecosystem & Marine Park Research, Department of Fisheries,  
Southeast Asia Fisheries Development Center, Malaysia*
- 1645-1700 **LMR05: Ecological Aspects of Oceanic Squid, *Stenoteuthis oualaniensis* (Lesson) in the South China Sea, West Coast of Philippines**  
*Dr. Somboon Siriraksophon, Geomatics Research Division, Southeast Asian Fisheries  
Development Center, Thailand*
- 1700-1715 **LMR06: Coccolithophorids (Nanoplankton) of the South China Sea - its Mass Water Transport**  
*Prof. Dr. Lokman Shamsudin, Faculty of Applied Sciences and Technology, Universiti Putra  
Malaysia Terengganu, Malaysia*
- 1715-1730 **LMR07: The Crustacean Associated in Seagrass Beds in Indonesia**  
*Indra Aswandy, Research & Development Centre for Oceanology, Indonesia Institute of  
Science, Indonesia*
- 1730-1745 **LMR08: Bio-prospecting, Research and Conservation of Deep-sea Resources within and beyond National Jurisdiction**  
*N. Syed-Ibrahim, Center for Marine and Coastal Studies, Universiti Sains Malaysia,  
Malaysia*
- 1745-1800 Discussion

**SESSION 4; Global Climate Change and Regional Oceanography**  
**with the Focus on Data Requirements, Needs & Products**  
*at Dewan Pelangi, 0900 - 1530, 2<sup>nd</sup> November*

**Session 4A            Chairman: Dr. Yutaka Nagata**

- 0900-0945 **Keynote: Global and Regional Ocean Climate Change on Interannual to Interdecadal Timescales: Outstanding Problems, Global Networks, and Products**  
*Dr. Warren B. White, Scripps Institution of Oceanography, University of California - San Diego, United States*
- 0945-1000 **GCC01: Long-term Variations of Surface and Intermediate Water Masses in the North Pacific and their Implications to Climate Change**  
*Assoc. Prof. Dr. Toshio Suga, Dept. of Geophysics, Graduate School of Science, Tohoku University, Japan*
- 1000-1015 **GCC02: Global Warming and Inter-Annual Variability in Malaysia**  
*Prof. Dr. Alejandro Livio Camerlengo, Faculty of Applied Science & Technology, Universiti Putra Malaysia Terengganu, Malaysia*
- 1015-1030 **GCC03: Low Frequency and Quasi-Biennial Oscillations in the Regional Precipitation Anomaly in Malaysia and their Relations to the Winds, SLP and SST in the Tropical Pacific and Indian Oceans**  
*Dr. Fredolin T. Tangang, Dept. of Marine Science, FSSA, Universiti Kebangsaan Malaysia, Malaysia*
- 1030-1045 Discussion
- 1045-1115 Refreshments

**Session 4B            Chairman: Dr. Warren B. White**

- 1115-1130 **GCC04: Physical Characteristics of Water Mass in the South China Sea**  
*Dr. Mohd. Nasir Saadon, Faculty of Applied Science & Technology, Univ. Putra Malaysia Terengganu, Malaysia*
- 1130-1145 **GCC05: The Water Characteristic in South China Sea using the World Ocean Data from NOAA**  
*Mr. Takaya Namba, Faculty of Science and Environmental Studies, Universiti Putra Malaysia, Malaysia*
- 1145-1200 **GCC06: Data Processing and Subsurface Thermal Structure in the South China Sea**  
*Prof. Youhai He, South China Sea Institute of Oceanography, Academia Sinica, China*
- 1200-1215 **GCC07: The Regional Oceanographic Data Analysis and Simulation Modeling System for the South China Sea**  
*Prof. Dr. Dinh Van Uu, Marine Dynamic and Environment Research Center, Vietnam National University, Vietnam*
- 1215-1230 **GCC08: Philippine Oceanographic Data as Inferred from the Philippine Oceanographic Atlas Project**  
*Dr. Rex Baleña, Ocean Weather Lab, Philippines*
- 1230-1245 Discussion
- 1245-1400 Lunch

**Session 4C            Chairman: First Admiral Mohd Rasip bin Hassan**

- 1400-1415 **GCC09: Long term Metocean Measurements in the South China Sea**  
*En. Rozlan bin Mohd Ramli, Petronas Carigali Sdn. Bhd., Malaysia*

- 1415-1430 **GCC10: TBD**  
*, Hydrographic Directorate., Royal Malaysian Navy, Malaysia*
- 1430-1445 **GCC11: SEAWATCH program in Indonesia**  
*Mr. Agus Setiawan, Agency for the Assessment & Application of Technology (BPP TEKLOGOI) SEA WATCH Indonesia Program, Indonesia*
- 1445-1500 **GCC12: Marine Research Activities and Oceanographic Data Management in Vietnam**  
*Prof. Dr. Dang Ngoc Thanh, National Center for Natural Science & Technology of Vietnam, Vietnam*
- 1500-1515 **GCC13: Oceanographic Observations and Coastal Environment Monitoring Programmes of Korea**  
*Dr. Kyu Kui Jung, Korea Oceanographic Data Center, South Korea*
- 1515-1530 Discussion
- 1530-1600 Refreshments

**SESSION 5; Marine Pollution with the Focus  
on Data Requirements, Needs & Products**  
*at Dewan Cenang, 0900 - 1530, 2<sup>nd</sup> November*

**Session 5A Chairman: Dr. Zubir bin Din**

- 0900-0945 **Keynote: Exchanging Data and Information on Marine Pollution - Challenges and Issues**  
*Prof. Dr. Gil S. Jacinto, Marine Science Institute, University of the Philippines, Philippines*
- 0945-1000 **MP01: Simulation of Oil Spill Fate on the Water Surface using Eulerian Finite Element - Kinematic Description**  
*Assoc. Prof. Dr. Ariffin Samsuri, Faculty of Chemical & Natural Resources Engineering, Universiti Teknologi Malaysia, Malaysia*
- 1000-1015 **MP02: Coastal Resource Sensitivity of Oil Spill Pollution using Remote Sensing and Geographic Information System**  
*Mazlani Muhammad, MACRES, Malaysia*
- 1015-1030 **MP03: The Straits of Malacca Environmental Information System (SMEIS)**  
*Prof. Kum Sang Low, Institute of Postgraduate Studies & Research, University of Malaya, Malaysia*
- 1030-1045 Discussion
- 1045-1115 Refreshments

**Session 5B Chairman: Prof. Dr. Gil S. Jacinto**

- 1115-1130 **MP04: Bioconcentration and Availability of Organo-Chlorine Pesticides (OCP) in different, Compartments of the Food chain in the West Coast of Peninsular Malaysia**  
*Dr. Zubir bin Din, Centre for Marine & Coastal Studies Malaysia, Universiti Sains Malaysia, Malaysia*
- 1130-1145 **MP05: Marine Toxicology - Its Nature and Significance in Malaysia**  
*Assoc. Prof. Iekhsan Othman, Dept. of Bio-chemistry, University of Malaya, Malaysia*
- 1145-1200 **MP06: Polycyclic Aromatic Hydrocarbons in Mussels from Malaysian Coastal Waters**  
*Ali Mashinchian Moradi, Faculty of Science and Environmental Studies, Universiti Putra Malaysia, Malaysia*
- 1200-1215 **MP07: Distribution of Aromatic and Aliphatic Hydrocarbons in the Surface Sediments of the Gulf of Thailand and the South China Sea**  
*Dr. Mohd Kamil Abdul Rashid, Fakulti Sains Gunaan & Teknologi, Universiti Putra Malaysia, Malaysia*

1215-1230 **MP08: Trend in Environmental Water Quality of Inner Jakarta Bay, Indonesia**  
*Melati Feranita Fachrul, Dept. of Environmental Engineering, Faculty of Civil Engineering,  
Universiti Teknologi Malaysia, Malaysia*

1230-1245 Discussion

1245-1400 Lunch

**Session 5C Chairman: Dr. Mohd Kamil Abdul Rashid**

1400-1415 **MP09: Dissolved Fraction of Metals in Malaysian Waters, Using an In-site Sampling and Extraction Techniques**  
*Shahunthala Devi Ramachandran, Institute Penyelidikan Perikana, Malaysia*

1415-1430 **MP10: Concentration of Heavy Metal Contamination in Marine Sediments off East Coast Peninsular Malaysia**  
*Dr. V.R. Vijayan, Mineral and Geoscience Department, Malaysia*

1430-1445 **MP11: Organic Contaminants in Sediment of Melaka Strait**  
*Dr. Ab. Khalik b. Hj. Wood, Malaysia Institute for Nuclear Technology Research, Malaysia*

1445-1500 **MP12: Pollution by Mud of Tropical Coastal Waters**  
*Dr. Eric Wolanski, Australian Institute of Marine Science, Australia*

1500-1515 **MP13: Monitoring Programme on Marine Pollution from a Coastal Power Plant into the Sea**  
*Assoc. Prof. Absornsuda Siripong, Marine Science Dept., Faculty of Science, Chulalongkorn University, Thailand*

1515-1530 Discussion

1530-1600 Refreshments

## PANEL DISCUSSION

*at Dewan Pelang, 1545 - 1700, 2<sup>nd</sup> November*

The panel and final discussions during the seminar will make clear needs of scientific research programmes for oceanographic and coastal data in the WESTPAC region.

The coordinator and panelists are introduced as follows;

Coordinator

- **First Admiral Mohd Rasip bin Hassan**, Director General of Hydrographic Directorate, Royal Malaysian Navy, Malaysia

Panelists

- **Mr. Ben Searle**, Director, Australian Oceanographic Data Center, Australia
- **Dr. Gil S. Jacinto**, Marine Science Institute, University of the Philippines, Philippine
- **Assoc. Prof. Hadibah Ismail**, Director of Coastal & Offshore Engineering Institute, Universiti Teknologi Malaysia, Malaysia
- **Prof. Dr. Makoto Terazaki**, Ocean Research Institute, University of Tokyo, Japan
- **Prof. Dr. Manuwadi Hungspreugs**, Dept. of Marine Science, Chulalongkorn University, Thailand
- **Dr. Yutaka Nagata**, Director of Marine Information Research Center, Japan
- **Dr. Iouri Oliouine**, Deputy Executive Secretary IOC/UNESCO, France

# POSTER SESSION

at Dewan Pelangi  
1300-1415 and 1600-1630, 1<sup>st</sup> November

The posters will be exhibited at Dewan Pelangi through the seminar of ICIWP'99. We are hopeful that the presenters of the poster session will stay at the poster session room during the session in possible time.

- P01: Oceanographic Chemical Data Set in the Northwestern Pacific**  
*Mr. Toru Hazama, Japan Oceanographic Data Center, Japan*
- P02: Distribution of *Ceratium* species in Quarter Bay, Iran**  
*Majid Eshaghi, Dept. of Biotechnology, Faculty of Food Science & Biotechnology Universiti Putra Malaysia, Malaysia*
- P03: Monitoring of Trace Metals in Sediments and Flat Tree-Oysters from Sepang Rivers, Malaysia**  
*Miss. Katayon Saed, Dept. of Biology, Faculty of Science & Environmental Studies, Universiti Putra Malaysia, Malaysia*
- P04: Identification of Fishing Areas in the Southeastern part of Samar Sea, Philippines**  
*Dr. Latip S. Abdurahman, Samar Regional School of Fisheries, Philippines*
- P05: Bio-Physical Characteristics of Maqueda Bay, Samar, Philippines**  
*Dr. Renato C. Diocton, Samar Regional School of Fisheries, Philippines*
- P06: Marine Data Collection by a Network of Moored Oceanographic Buoys in the Gulf of Thailand and Andaman Sea, and the applications of such data in various fields**  
*Pitan Singhasaneh, SEAWATCH Thailand, National Research Council of Thailand, Thailand*
- P07: The First Step for an Oceanographic Database of the Vietnam Sea Region in the Gulf of Thailand**  
*Dr. Phan Van Hoac, Center for Hydrometeorology of South Vietnam, Vietnam*
- P08: State of Vietnam Coastal Erosion and Accretion and Environment Concerns**  
*Dr. Dinh Van Huy, Haiphong Institute of Oceanology, Vietnam*
- P09: Cooperative Projects in the Sea of Japan and the Sea of Okhotsk: New Oceanographic Data for International Community**  
*Dr. Alexander N. Man'ko, Far Eastern Regional Hydrometeorological Research Institute, Russia*
- P10: Measurement of Wave Height in the Gulf of Thailand**  
*Mr. Wattana Kanbua, Thai Meteorological Department, Thailand*
- P11: Development of Molecular Markers for Sea Cucumber (Holothuroidea)**  
*Dr. Pathimah Ismail, Dept. of Biomedical Science, Faculty of Medicine & Health Science, Universiti Putra Malaysia, Malaysia*
- P12: The National Environment and Resource information Centre (NERIC) and Coastal Zone Management in Vietnam**  
*Mr. Nguyen Tu Dan, Vietnam National Oceanographic Data Center, Vietnam*
- P13: Summary of IOC Cooperation study in the Gulf of Thailand**  
*Dr. Anond Snidvongs, Marine Science Dept., Chulalongkorn University, Thailand*
- P14: JICA/UPM Malacca Straits Expedition No2, Nitrogen and Phosphorous Distribution**  
*Prof. Dr. Law Ah Theem, Faculty of Applied Science & Technology, Univ. Putra Malaysia Terengganu, Malaysia*
- P15: Quantitation of Polycyclic Aromatic Hydrocarbons (PAHs) in Marine Environmental Samples by Silica Gel Column Chromatography and GC-MS**  
*Ali Mashinchian Moradi, Faculty of Science & Environmental Studies, Universiti Putra Malaysia, Malaysia*
- P16: Distribution of Ortho-phosphate in the Straits of Malacca**  
*Tengku Rozaina binti Tengku Mohamad, Southeast Asian Fisheries Development Center, Malaysia*
- P17: Development of Sine-slab<sup>®</sup> for Coastal Erosion Control**  
*Assoc. Prof. Dr. Noraieni Hj Mokhtar, COEI, Universiti Teknologi Malaysia, Malaysia*

# WORKSHOP ON “IODE ACTIVITIES IN THE WESTPAC REGION”

at Dewan Pelangi  
on 3<sup>rd</sup> to 4<sup>th</sup> November

1<sup>st</sup> day of the workshop, 3<sup>rd</sup> November

- 0900-0910 **1. Opening**
- 0910-0920 **2. Administrative Arrangements**
- 0920-1035 **3. Status of Oceanographic Data and Information Exchange, the National and International Projects operating in the WESTPAC region.**
- 3.1 Summary of IODE, by Dr. Oliouine, IOC*
- 3.2 The Future of IODE, by Mr. Searle, AODC*
- 3.3 Status of U.S.-NODC/WDC Activities, by Dr. Frey, U.S.-NODC*
- 3.4 Status of IODE activities in the Member States by Questionnaire, by Mr. Nagai, JODC*
- 1035-1105 *Refreshments*
- 3.5 International Projects in the Region**
- 3.5.1 NEAR-GOOS, by JODC*
- 3.5.2 The Southeast Asian Oceanographic Data, by Dr. Anond Snidvongs, SEASTART RC*
- 1230-1400 *Lunch*
- 1400-1610 **4. Review of IODE Products and Services**
- 4.1 Global Temperature and Salinity Profile Programme (GTSP), by Mr. Searle, AODC*
- 4.2 Global Ocean Data Archeology and Rescue Project (GODAR) update,*  
*by Dr. Frey, U.S.-NODC*
- 4.3 Marine Information Management (MIM)**
- 4.3.1 General talk of MIM and Blue Page, by Mr. Searle, AODC*
- 4.3.2 Development of the MEDI Vietnam - A Metadata Management Software,*  
*by Dr. Nguyen Hong Phuong, VODC*
- 4.3.3 Cruse Summary Report (CSR) and National Oceanographic Programme (NOP),*  
*by Mr. Searle, AODC*
- 4.4 IODE Products**
- 4.4.1 World Ocean Database 98, by Dr. Frey, U.S.-NODC*
- 4.4.2 OceanPC, by Mr. Searle, AODC*
- 4.4.3 IODE Resource Kit, by Mr. Searle, AODC*
- 1610-1630 *Refreshments*
- 1630-1800 **5. Capacity Building for Oceanographic Data and Information Management**
- 5.1 General Picture of the IODE Training programme, by Dr. Oliouine, IOC*
- 5.2 Training Course for Foreign Countries in Japan, by JODC*
- 5.3 The Journal for the Developing Science of Ocean & Atmospheric Data Management,*  
*by Mr. Searle, AODC*

- 0830-1010 **6. Measurements to Satisfy the User's Needs for Data from the IODE system, Quality Control of Oceanographic Data and Processed Data & Information Types etc.**
- 6.1 Temperature and Salinity Distribution Characteristics in seas around Japan, and Statistical Parameters used in a Visual Quality-Control Software, by Dr.Nagata, MIRC*
  - 6.2 Plankton Data Management and Metadata in U.S.-NODC, by Dr. Frey, U.S.-NODC*
  - 6.3 Declassification of Naval Data, by Dr. Olioumine, IOC*
- 1010-1030 Refreshments
- 1030-1200 **7. Proposed Aactions**
- 7.1 Increase Awareness of the IODE system in the WESTPAC region**
    - 7.1.1 Application of IOC/IODE web page and News Letters, by Mr. Searle, AODC*
    - 7.1.2 Cooperation between Oceanographic Research Programme and Data Center, Introducing of JODC recent dataset, by JODC*
  - 7.2. Roles for developed countries in supporting developing countries in ocean data and information management**
    - 7.2.1 Application of Existing Cooperation Programme; Japanese Governmental Aid Program, by JICA*
- 1200-1230 **8. Wrap up**
- 1230-1245 **9. Closing**
- 1245-1400 *Lunch*

# EXCURSION

## 1. Study Tour for Marine Monitoring System and Island Hopping

\_\_\_\_\_ has watched sea condition for aqua culture at Pulau Singa Besar using a marine monitoring system which is same with the system using on the **SEAWATCH Thailand**.

This tour will visit some islands including Pulau Singa Besar.

1. Date ; 1400-1800, 4<sup>th</sup> November
2. Capacity ; 40 persons
3. Visiting Places ; Pulau Dayang Bunting, Pulau Singa Besar and Pulau Beras Basah
4. Fee ; per a person
5. Reservation ; Please book your participation at the secretary before 1200am on 3<sup>rd</sup> November.

## 2. Island Tour

The conference organizer has arranged an excursion to discover legendary of the Langkawi Island.

1. Date ; 1400-1800, 4<sup>th</sup> November
2. Capacity ; 40 persons
3. Visiting Places ; Taman Lagenda, Kuah town, Langkawi Crystal, Gallery Perdana
4. Fee ; per a person
5. Reservation ; Please book your participation at the secretary before 1200am on 3<sup>rd</sup> November.

## 3. Other Atractions

**Pelangi Beach Resort** provides many attractions, Island hopping, golfing, Jungle tour etc.  
Please contact the concierge of the hotel for further arrangements.