

# "OCEANS '18 MTS / IEEE Kobe / Techno-Ocean 2018 (OTO'18)

May 28 ~ 31, 2018

Kobe Convention Center

Digest Report (Tentative)

**OTO'18 - The largest number of abstracts on display ever!**

## **◆Plenary Session Tuesday May 29**



Mr. Ichiro Hao  
Director-General of the National Ocean Policy Secretariat,  
Cabinet Office, Government of Japan  
*"A New Basic Plan on Ocean Policy"*



Richard W. Spinrad, PhD, CMarSci  
President-Elect of the Marine Technology Society  
Professor of Oceanography, Oregon State University  
*"The "Push" and "Pull" of Future Marine Technology"*



Dr. Jin-Yuan Liu  
President of the Taiwan Society of Deep Ocean Water Resource Application  
Chair Professor, The Tamkang University  
*"The Research and Development of Renewable Water from Deep Oceans"*

## **◆Tutorial Monday May 28**

### **T1. Underwater Acoustic Networking**

Instructor: Dr. Mandar Chitre, Dr. Prasad Anjani, Dr. Shiraz Shahabudeen

### **T2. Hands-on with JANUS: understanding, implementing and using the first digital underwater communications standard**

Instructor: Dr. Roberto Petroccia

### **T4. Optical Methods in Oceanography**

Instructor: Dr. Weilin "Will" Hou

### **T10. Advanced ocean floor monitoring system and Data application for Earthquakes and Tsunamis**

Instructor: Dr. Yoshiyuki Kaneda

### **T11. Underwater Communication: an open challenge**

Instructor: Dr. Monika Aggarwal

### ◆**Technical Program Tuesday May 29 ~ Tuesday May 31**

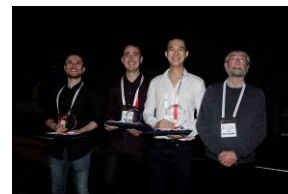
- Number of Abstracts: 910
- Number of Submission Papers: 499
- Number of Sessions: 108 (12 rooms, 9 tracks)
- Number of Registrants: 754 persons

### ◆**Student Poster Competition Tuesday May 29 ~ Thursday May 31**

- Number of submission papers for Student Poster Competition: 15

#### Competition Results

Award	Author	Affiliation	Country	Title
First Prize and The Norman Miller Award	Jin Wei LIM	University of Southampton	United Kingdom	Automated Interpretation of Seafloor Visual Maps Obtained using Underwater Robots
Second Prize	Eduard VIDAL	Universitat de Girona	Spain	Online Robotic Exploration for Autonomous Underwater Vehicles in Unstructured Environments
Third Prize	Mitchell BORG	University of Strathclyde	United Kingdom	Numerical Analysis of a Ducted High-Solidity Tidal Turbine



### ◆**Awards Wednesday May 29**

#### **Techno-Ocean Awards Winner**

Dr. Tetsuro Urabe Cabinet Office/ The University of Tokyo

#### **Techno-Ocean Special Award**

Dr. Toshitsugu Sakou Professor Emeritus, Tokai University

#### **Kenji Okamura Memorial Award for Pioneering the Ocean Frontier**

Tomoko Takahashi Project Research Associate

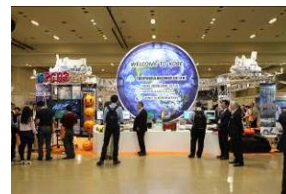
Institute of Industrial Science, The University of Tokyo



### ◆Exhibition Tuesday May 29 ~ Thursday May 31

○Number of Exhibitors: 103

○Number of Visitors for Exhibition :7,262



### ◆Public Program Thursday May 31

◇Presenter: Japan Oil, Gas and Metals National Corporation (JOGMEC)

Title: World's First Challenges –Marine Projects for Our Natural Resources Security-

◇Presenter: Japan Aerospace Exploration Agency (JAXA)

Title: Water on Earth from Space

○Participants: 251 persons



### ◆Underwater Robots Competition Sunday May 27

#### Competition Results

#### ◇AUV Group

Prize	Name of Robot	Team	Affiliation
Champion	Minty-Roll-α	Clairvoyance	The University of Tokyo
2nd Prize	Orca Mk.IV	KPC_AUV	Kyushu Polytechnic College
3rd Prize	Daryabird	Kyutech Underwater Robotics	Kyushu Institute of Technology

#### ◇Free-style Group

Prize	Name of Robot	Team	Affiliation
Champion	NEZHA /	AOSHEN	Shanghai Jiao Tong University
2nd Prize	COMET	Robotics Laboratory	Osaka City University
3rd Prize	Amphibious Truck with Soft Spikes	T & J	National Institute of Technology, Tsuyama College
Award for Effort	Mark2	Industrial Technology Club	Okayama Shoka University High School



### ◆Children's Program Sunday 27 May

- Participants: 420 persons
- ◇National Institute of Maritime, Port and Aviation Technology(MPAT)  
*"Picture story show of AUV "HOBALIN" "*
- ◇RIKEN Center for Computational Science(R-CCS)  
*"Let's learn supercomputers useful for our everyday life ! "*
- ◇Japan Agency for Marine-Earth Science and Technology (JAMSTEC)  
*"Let's explore the mysterious wonders of the sea and the Earth! "*
- ◇Japan Oil, Gas and Metals National Corporation(JOGMEC)  
*"Wonderful and beautiful stones containing treasures!?"  
 You must hunger for natural resources!! "*
- ◇Japan Fisheries Research and Education Agency(FRA)  
*"Edible bivalves and their roles in the marine environment. "*



### ◆Concurrent Events Vessel Open House Sunday May 27

- Vessel: The deep sea research vessel **KAIREI**
- Organizer: Techno-Ocean Network
- Co-Organizer : City of Kobe
- Cooperation : Japan Agency for Marine-Earth Science and Technology(JAMSTEC)  
 Kobe Port Promotion Association  
 Basic Life Support KOBE
- Participants: 2,511 persons



### ◆Pre Events Children's Art Exhibition & Award Ceremony Sunday May 27,2017

- Number of Exhibits:1,592

