# **Preface**

It was my great honor and pleasure to organize The 3<sup>rd</sup> International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN 2015) in Surabaya, Indonesia on December 10th 2015. The Organizing Committee worked many years for preparing of this seminar and their efforts resulted to full success. This event was held by cooperation among Institut Teknologi Sepuluh Nopember (ITS) especially Department of Ocean Engineering, Tohoku University, Japan, HZ University of Applied Sciences, Netherlands and The Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security (CTI-CFF). This forum was more focused on creating and expanding professional network to foster the relationship between the University, industry, business and communities across the country.

ISOCEEN 2015 was aimed on providing a discussion, for exchanging of knowledge, researches and of recent solutions for many researchers and experts in the field of Ocean, Offshore, Coastal engineering, Environmental and Disaster Management. The results of discussions are presented in this book. We hope this book will be interesting and usefull for many engineers and scientists whose activity related with researches of ocean and development of coastal areas.

Finally, on behalf of the organizing committee of the seminar, sincere appreciation is expressed to all authors who contribute to our seminar. Special thanks are also due to all keynote speakers, invited talks and chairpersons for the efforts in preparing the manuscripts and managing the sessions, respectively.

Suntoyo, PhD

Chairman of Organizing Committee

# **Committees**

### **Advisory Committee:**

- Rector of ITS Surabaya, Indonesia
- Dean of Marine Technology Faculty ITS, Indonesia
- Head of Ocean Engineering Department, FTK-ITS, Indonesia

### **Organizing Committee:**

- Suntoyo, PhD (Chairman)
- Silvianita, PhD (Secretary)
- Yoyok Setyo Hadiwidodo, PhD
- Dr. Hasan Ikhwani, MSc
- Dr. Wahyudi
- Dr. Eng. Rudi Walujo Prastianto
- Dr. Eng. Muhammad Zikra
- Nur Syahroni, PhD
- Herman Pratikno, PhD
- Agro Wisudawan, MT
- Dirta Marina Chamelia, MT

#### **International Scientific Committee:**

- Prof. Hitoshi Tanaka, Dr. Eng. (Tohoku University, Japan)
- Prof. Widi Agoes Pratikto, PhD (ITS, Indonesia)
- Prof. Daniel M. Rosyid, PhD (ITS, Indonesia)
- Prof. Eko Budi Djatmiko, PhD (ITS, Indonesia)
- Prof. Mukhtasor, PhD (ITS, Indonesia)
- Suntoyo, PhD (ITS, Indonesia)
- Makoto Umeda, Dr. Eng. (Tohoku University, Japan)
- Dr. Joost Stronkhorst (HZ University of Applied Sciences, Netherlands)
- Ir. Liliane Geerling R.T.D. (HZ University of Applied Sciences, Netherlands)
- Ahmad Sana, PhD (Sultan Qaboos University, Oman)
- Priyantha Ranjan, PhD (Curtin University, Australia)
- Dr. Eng. Totok Suprijo (ITB, Indonesia)
- Dr. Eng. Purwanto Bekti Santoso (Unsoed, Indonesia)
- Dr. Eng. Sitang Pilailar (Kasetsart University, Thailand)
- Dr. Nguyen Trung Viet (Water Resource University, Vietnam)
- Dr. Taufiqur Rachman (Hasanuddin University, Indonesia