International Maritime-Port Technology and Development Conference

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About the Book

This book includes new developments, concepts and practices of researchers and practitioners from the maritime-port industry, research and academic institutes and authorities. Also includes speeches of keynote speakers invited for each of the topics on the latest development, technologies, practices, and trends.

Topics

i) Port Planning, Development, and Operations

Million of TEUs of containers are handled around the globe annually, connecting all major trade zones of the world. Increasing demand on port connectivity and rapid growth in the shipping volume have led to the design of larger vessels, construction of new ports and expansion of existing facilities. Ports around the world are constantly
improving through introduction of new technologies, methods and processes to meet growing demand. This section contains chapters on the following topics:

- Port Planning, Design and Constructional Methods
- Terminal Operation Concepts, Resource Planning
- Forecasting Methods and other Port Management Techniques
- Hub Port Development
- Port Equipment and Technology
- Use of Information Technology and Simulation
- Supply Chain Management and SCM Technologies

ii) Offshore and Marine Engineering

Global demand for oil and gas is ever increasing. With this increased demand, the world is constantly seeking technological solutions that will help produce more from every well and to access resources in deeper waters to provide the energy the world needs. Production and transportation are fast becoming key factors in keeping up with the world's demand and thus technological advancement in these areas could hold the key to future success. Similarly, innovations in vessel design and production also plays a vital role to meet the growing global demand. This section contains chapters on the following topics:

- Floating Platform Storage Offloading (FPSO), Jack-up Oil Rigs and Very Large Floating Structures/Semi-submersibles
- Material, Reliability, Strength and Fatigue
- Exploiting Stranded Gas
- Extended Well Testing / Early Production System for Marginal Fields
- Structural Design and Performance
- Production Technique of Ships and Marine Structures
- Moorings and Risers
- Offshore Renewable Energy

iii) Maritime Environment, Navigation, and Security

We are facing ever increasing global concerns over issues such as marine environment, port security, and navigation safety. Standards and requirements by international bodies would likely be more stringent in future. Many studies and R&D have been committed in these areas to step up the readiness to handle these growing concerns. This section contains chapters on the following topics:

- Ballast Water Treatment Technologies, Ship Emission, and Discharges
- Remote Sensing and Environmental Monitoring Technologies
- Maritime Communication and Tracking
- Ship Routing and Navigation System
- Dredging, Treatment of Dredged Materials, and Reclamation
- Oil and Chemical Spills
- Tides, Current, and Waves
- Maritime Communication and Tracking
- Ship and Port Security Technologies

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