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# Maximising access to marine data through the use of highly advanced technology and systems

# ADVISORY BOARD

Dubai, UAE

#### 1.

Dr Nicolas Jarry Senior Coastal Engineer and Project Manager, Sogreah Gulf

#### 2. Prof. Abderrazak Bannari

Eng, PhD Professor of Remote Sensing and GIS Head of Geoinformatics Department, **Arabian Gulf University**  Hendrik Jan Atsma Fleet Manager,

Emirates Ship Investment Company LLC

3.

# CONFIRMED SPEAKERS

**Dr. Nicolas Jarry** Senior Coastal Engineer and Project Manager, **Sogreah Gulf** 

## Prof. Abderrazak Bannari

Eng, PhD Professor of Remote Sensing and GIS Head of Geoinformatics Department, **Arabian Gulf University** 

## **Peter Pissierssens**

Head, UNESCO / IOC Project Office for International Oceanographic Data and Information Exchange (IODE)

## Dr. Hassan B. AWAD

Expert in Data Management, Regional Organisation for the Protection of the Marine Environment (ROPME)

## Loay Gazaleh Portfolio Advisor – Major

Infrastructure & PPP, Ministry of Works Bahrain

#### Haifa Ben Romdhane

Research Assistant, Earth Observation and Hydro-Climatology Laboratory - Institute Center for Water and Environment, Masdar Institute of Science and Technology

## Dr. Juan Recio

Associate Director, Ports, Marine and Geotechnical, **AECOM** 

Capt. Sukhdev Singh General Manager Marine, Port of Salalah

## Faisal Boolayan

Senior Chemist Water Pollution Department, **Kuwait Environment Public Authority** 

Capt. Mayed Alameiry Deputy Harbour Master, Port of Fujairah

## John Echlin

Planning Advisor, Transport Planning, Infrastructure Planning Department, Abu Dhabi Urban Planning Council (UPC)

## Hamad Al Awadhi

Planning Professional, Transport Planning, Infrastructure Planning Department, **Abu Dhabi Urban Planning Council** 

## Abdulaziz Alshkeili

GIS Analyst, Spatial Data, Infrastructure Planning Department, **Abu Dhabi Urban Planning Council** 

## Dr. Nedal Al Hanbali

GIS Manager, Spatial Data, Infrastructure Planning Department, **Abu Dhabi Urban Planning Council** 

## Dr. Mootaz Khaled

Coastal/Maritime Specialist &Senior Marine Engineer, **Abu Dhabi National Oil Company (ADNOC)** 

# **KEY THEMES TO BE DISCUSSED**

- Creating GCC marine data infrastructure centres to be available to all stakeholders
- Building marine data systems that can survey and monitor the environment and to protect marine life
- Mapping and cartography for navigation, offshore projects and construction
- Utilisation of Hyperspectral and Multispectral Remote Sensing Data for Bathymetry Mapping

Organised by:

- GPS, GIS and Inertial Navigation System (INS)
- Monitoring of climate change and sea level measures
- Technology to acquire accurate and updated water and Navigation safety data to ensure decision makers have adequate intelligence to ensure safety and operational efficiency
- Observation of the littoral, coastal evolution and development & erosion, coastal urbanization



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The planned construction work will see the port's capacity increase by 3.1-million twenty-foot equivalent units (TEU) by 2018, taking its overall capacity to 22.1-million.

TEU / 2018

THAT MEANS INCREASED NEED FOR COSTAL, WATER, CURRENT, TIDE DATA DURING THE CONSTRUCTION PROCESS.

Roads and Transport Authority (RTA) has awarded a contract for Phase 4 and 5 of the Dubai Water Canal Project.



**COST:** Dh703 million **Completion date:** by the end of September this year

This project demands extensive dredging and monitoring of the impact on the marine environment.

In January 2016, Abu Dhabi Ship Building (ADSB) and Drydocks World have signed a Memorandum of Understanding (MoU).

#### **OBJECTIVES:**

- Create an industrial entity to strengthen maritime projects in the UAE and across the GCC involving the latest infrastructure.
- Enhance knowledge and marine data transfer and capabilities exchange between the two companies.

#### 2016, 2017 AND 2018

Port of Duqm (Oman) plans massive development in next 3 years in view of the multiple activities in progress to complete the final development work at the port.

- for commencing fully-fledged operations
- the last construction packages for completing the work

Terminal will be implemented in 2 stages:

- Dredging - Construction

THAT MEANS NEEDS FOR MONITORING DATA TO COMPLETE THE WORK EFFICIENTLY AND SAFELY.

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# **Conference Day One:** Monday 30<sup>th</sup> January 2017

08:00	Coffee, registration and welcome refreshment		Dr. Nicolas Jarry, PhD Senior Coastal Engineer / Project Manager, Sogreah Gulf
08:50	Chairman's welcome and opening remarks INTERNATIONAL MARINE DATABASE CENTER	12:00	Bahrain Case study: Monitoring and control technologies to assess climate change and rising sea level
09:00	<ul> <li>Keynote Presentation: Importance of establishing national oceanographic data centres</li> <li>Advantages of joining International Oceanographic Data and Information Exchange (IODE)</li> <li>Importance of joining Ocean Biogeographic Information System (OBIS)</li> <li>UNESCO Intergovernmental Oceanographic Commission (IOC) and its other programmes</li> <li>Peter Pissierssens, Head, UNESCO/IOC Project Office for IODE</li> </ul>		<ul> <li>Integrate IT and observation satellites to check rising sea level impact on the coastal area- special focus on small island states like Bahrain</li> <li>Integrated management of coastal zone and evolution to help the decisions makers and useful future generations</li> <li>Observatory of the littoral, climate, current, coats erosion, coastal urbanization</li> <li>Loay Gazaleh, Portfolio Advisor – Major Infrastructure &amp; PPP, Ministry of Works Bahrain</li> </ul>
	MONITORING AND PROTECTING THE MARINE ENVIRONMENT		INVESTMENT IN MARINE DATA PROJECTS
09:30	<ul> <li>Keynote Presentation: Implementation of the Regional</li> <li>Organisation for the Protection of the Marine Environment</li> <li>(ROPME) Convention and its Protocols</li> <li>Status of marine data in the ROPME Sea Area: challenges and opportunities</li> <li>Role of ROPME in upgrading National capacity for producing good quality marine data</li> </ul>	12:30	<ul> <li>Oman Case Study: Phase 3 expansion of Port of Salalah</li> <li>Water data on density used for the new project including expanded breakwater arms</li> <li>Marine data needed to protect berths against waves into the port</li> <li>Technology and services used, like undersea cables and monitoring tide</li> <li>Capt. Sukhdev Singh, General Manager Marine, Port of Salalah</li> </ul>
10:00	<ul> <li>Marine data and assessment of the Regional SDG-14 indicators</li> <li>Dr. Hassan B. AWAD, Expert in data management, ROPME</li> <li>Keynote Presentation: Data and infrastructure in marine</li> <li>environment for an efficient management and sustainability</li> <li>Marine data used to manage decision making process for a sustainable environment</li> </ul>	13:00	<ul> <li>Fujairah Case Study: How to use marine data for development and safety</li> <li>Marine data to ensure the dafety and security of the port</li> <li>Marine data use to control port and ship activities</li> <li>New projects to be developed</li> <li>Capt. Mayed Alameiry, Deputy Harbour Master, Port of Fujairah</li> </ul>
	<ul> <li>Relevant data needed regarding coast lines, water, tide, bathymetry, hydrography</li> <li>Latest technology and innovation available on the market to get the relevant data</li> <li>Haifa Ben Romdhane, Research Assistant at the Earth Observation and Hydro-Climatology Laboratory - Institute Center for Water and Environment (iWATER),</li> </ul>	13:30	<ul> <li>Case Study: Canal and Port extension and development</li> <li>Dredging and marine structure</li> <li>New construction projects, water canal, port facilities</li> <li>Marine data use in ports and coastal engineering infrastructure projects</li> <li>Marine that should be used according to projects</li> </ul>
	Masdar Institute of Science and Technology	14:00	Dubai case study: Jebel Ali Terminal 4 expansion
10:30	<ul> <li>Presentation: Establishing a marine database for multi users</li> <li>Create marine navigation intelligence charts and data for those using the waterways</li> <li>Building marine data systems that can survey and monitor the environment</li> <li>Collecting multi information data include scanning data, manometer data</li> </ul>	14:30	<ul> <li>Needs for costal and water data like waves, tide, current to expend the port's capacity</li> <li>Using symmetric survey technology, sonar, radar to collect marine data</li> <li>Marine data important for port management, construction, quay walls &amp; onshore structures (containers, lift machines, pontoons)</li> <li>Chairman closing comments</li> </ul>
11:00	Networking and coffee break		
11:30	<ul> <li>Dubai Case study: Coastal Engineering and climate change</li> <li>Understand new coastal developments and reclaimed areas</li> <li>Know how climate change is linked to sea level rise impacts, coastal erosion and waves climate</li> <li>Protect coastal erosion's especially soft solutions including artificial submerged reef in geotextile</li> </ul>	14:40	Networking lunch and end of conference day one

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# **Conference Day Two:** Tuesday 31<sup>st</sup> January 2017

08:00	Coffee, registration and welcome refreshment		How multi information data include scanning data,
09:00	Chairman welcome and opening remarks		manometer data (using magnets), sub bottom profiling and multi sensor data can help to get continuous data? <b>Dr. Mootaz Khaled,</b> Coastal/Maritime Specialist
	MARINE DATA INFRASTRUCTURE IN THE GCC		(Senior Marine Engineer), <b>ADNOC</b>
<b>09:10</b>	<ul> <li>Presentation: Newly web developed maritime spatial portal "Digital Map Atlas"</li> <li>Abdulaziz Alshkeili, GIS Analyst, Spatial Data, Infrastructure Planning Department, Abu Dhabi Urban Planning Council (Confirmed)</li> <li>Keynote Presentation: Establishment of the Gulf Marine Center for the GCC</li> <li>Provide maritime bulletins, alerts, accurate marine data, impact of marine security</li> <li>Collect weather forecast-data from partners, process and analyse</li> <li>Integrate information to set up a framework for marine data available to all stakeholders</li> </ul>	12:10	<ul> <li>Case study: Comparison and validation of CARIS-HIPS, Hyperspectral and Multispectral Remote Sensing Data for Bathymetry Mapping</li> <li>Knowledge of water depth to estimate bottom albedo, improve habitat mapping, sediment budgets estimation to maintain the man-made channel depth for smooth navigation,</li> <li>Using SONAR, GPS, GIS and Inertial Navigation System (INS) to understand seafloor</li> <li>How multi information data can help to get continuous data?</li> <li>Prof. Abderrazak Bannari, Eng, PhD Professor of Remote Sensing and GIS Head of Geoinformatics Department, Arabian Gulf University</li> </ul>
10:10	<ul> <li>Case Study: Marine project 2030 – Strategic and sustainable development plan for the Emirates costal and marine resources</li> <li>Ensure a balance of maritime activities within internal waterways and coastlines</li> <li>Federate policies on coastal and marine area to facilitate integration of various interests</li> <li>Climate change adaptation, marine water quality, transport, security maritime utilities</li> <li>Hamad Al Awadhi, Planning Professional, Transport Planning, Infrastructure Planning Department, Abu Dhabi Urban Planning Council</li> <li>Panel discussion: Marine information and data management</li> <li>Exchange and interact with marine data sets from highly heterogeneous sources</li> <li>Implement a federated marine data for a good regional cooperation and safety in the GCC</li> <li>What are the network services and technologies used for that?</li> <li>GIS &amp; software to have mapping and cartography for navigation and offshore projects</li> <li>Navigation safety technology</li> <li>John Echlin, Planning Advisor, Transport Planning Council</li> <li>Dr Nedal Al Hanbali, GIS Manager, Spatial Data, Infrastructure Planning Department, Abu Dhabi Urban Planning Council</li> </ul>	12:40 13:10 13:40	<ul> <li>Networking &amp; refreshment break</li> <li>Panel discussion: Infrastructures and data access systems regarding water <ul> <li>How to acquire data on water to help decision-makers to establish their working development strategies?</li> <li>Water data needed by the professional staff</li> <li>Manage water quality for the safety of the navigation and the water protection</li> </ul> </li> <li>Dr. Juan Recio, Associate Director, Ports, Marine and Geotechnical, AECOM</li> <li>Faisal Boolayan, Senior Chemist Water Pollution Department, Kuwait Environment Public Authority</li> <li>Dr. Mootaz Khaled, Coastal/Maritime Specialist (Senior Marine Engineer), ADNOC</li> </ul> Case study: S-WiNG - 3D application <ul> <li>E navigation, app on cellphone or ipad software developed by the port</li> <li>3d and real time to check &amp; see all ships present in the port by all staff of the port</li> <li>Useful for safety, management, planning &amp; operational monitoring</li> </ul>
11:10	Networking and coffee break		Jérôme Besancenot, Head of the Information System Development department, HAROPA - Port of Le Havre
	MARINE DATA ACQUISITION TECHNOLOGY	14:10	Chairman closing comments
11:40	<ul> <li>Panel discussion: Technologies and innovations to get marine data</li> <li>What are the tools to obtain accurate and updated marine data?</li> <li>What are the hydrographic surveys (taking measures, navigation data, dredging, marine construction such as quay) necessary to develop marine projects?</li> </ul>	14:20	Networking lunch and end of conference

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# **30-31 January 2017** Dubai, UAE



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Gain a competitive edge Interact with major industry players and engage key

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- Launch new products and services
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  - Ship equipments and spares
  - Automatization & remote control monitoring
  - Antivirus and security solutions
  - Observation satellites
  - GIS and Inertial Navigation System (INS)
  - Machines /equipment for port

WHO WILL YOU MEET

## ATTENDEE PROFILE

- GCC Government Authorities
- Developers
- Project Owners
- Contactors
- Consultants and experts
- Survey companies

- Port authorities
- Navy
- Marine constructions companies
- International organisations
- NGOs and associations
- Research institutions
- Telecommunications
   organizations

- Shipping and transport companies
- Oil and gas operators
- Fishery companies
- Hydrographic and Oceanographic organisations
- Meteorology Department

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GCC

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- All food and refreshments during the seminar sessions (excludes evening meals and only applies to
- refreshments served in the dedicated conference networking area)
- Access to international subject matter experts

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#### Dubai, UAE

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