



بلدية دبي
DUBAI MUNICIPALITY



Day 1 - Monday
21 November 2016

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MONDAY, 21 NOVEMBER 2016

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Plenary Session

21st November 2016, Monday (09:00 – 10:30)

Chair(s):

09:00	Overview Coastal Marine Issues In The Arabian Gulf	Prof. Björn Kjerfve
09:30	Top 10 Coastal Development Projects In The Arabian Gulf: Best Practices And Major Lessons Learned	H.E. Nayef Omar Alkalali
10:00	Plan Maritime 2030: Abu Dhabi Coastal And Marine Framework Plan	Mr. Mohammed Al Dereh

11:00 Opening Ceremony

1.1 - Coastal Management and Sustainability

21st November 2016, Monday (13:30 – 15:00)

Chair(s):

- 13:30 Key Note: Shoreline Management, Sustainable Coastal Schemes and Artificial Beaches**
Dr. Ida Broker
- 14:00 Integrated Coastal Zone Management (ICZM) - How It Works In Practice. Projects in the Framework of The ICZM**
Luis Moreno, Patricia Martin, Cristina Perez, Beatriz Marti
- 14:20 Overview of the Integrated Coastal Zone Management (ICZM) Plan Project For The State Of Qatar**
Ayman Mohamed Ahmed Afifi, Walid Ameen, Oscar Aguilar, Said Al-Muqaddam, Sophie Hagan
- 14:40 Development Of An Integrated Coastal Zone Management Law In Lebanon**
Manale Abou Dagher, Manal Nader

1.2 - Modelling WQ & flushing

21st November 2016, Monday (13:30 – 15:00)

Chair(s):

- 13:30 Key Note: Analysis Of Sediment Dynamics For Port Operations Using Combined Modeling Approaches And Field Surveys**
Prof. Tobias Bleninger

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- 14:00 Maritime Works For Improving Circulation In Coastal And Inland Waters**
Rama Venkata Suresh Reddi, Saravanan Umopathy, Murali Krishna, Damiano Scarce
- 14:20 Hydrodynamic And Water Quality Modeling Of Fish Hatchery Intakes And Effluent: A Case Study Of The Dubai Center For Research And Development Of Fisheries**
Paul Anid, David McGrath, Nicholas Kim, Ibrahim Mohammed Ibrahim Ali Juma, Samir Ibrahim Garib, George K Megalokonomos, Eleni Paipai
- 14:40 Marina Flushing And Water Quality In An Arid Environment**
João Filipe Correia Gonçalves, Mehdi Ghozali, James Walker, Katie Ward, Enda Murphy

1.3 - Physical Model

21st November 2016, Monday (13:30 – 15:00)

Chair(s):

- 13:30 Key Note: Design of a New Reclamation Development at Jumeirah Beach Area: A 3D Physiscal Model Investigation (MERAAS)**
Francesco Ciardulli, Joao Pimenta, Toby Johnson, Giovanni Cuomo, Bushra Hussain
- 14:00 Seawater Intake Geometry Optimization Using CFD And Physical Modeling (Case Study: Al Jubail SWI)**
Ali Torbaty, Mario Valente, Bruce Cathers, Sal Scaturro, Hugo Costa
- 14:20 Regular Wave Run-Up On A Single Pile And A Pile Within Pile Groups**
Lisham Bonakdar, Hocine Oumeraci
- 14:40 Bluewaters Island**
James Walker, Francesco Ciardulli, Jack Bokaris, Miguel Ferrao, Bushra Hussain, Maria Bougdanou



MONDAY, 21 NOVEMBER 2016

2.1 - Integrated Coastal Zone Management - I

21st November 2016, Monday (15:20 – 16:50)

Chair(s):

- 15:20 Key Note: Coastal Protection And Water Quality Problems: Examples From Spain**
Prof. Jose Maria Grassa
- 15:50 Monitoring And Evaluation Of Coral Transplantation To Mitigate The Impact Of Dredging Works**
Remment ter Hofstede, Christine Finney, Andre Miller, Mark Van Koningsveld, Tijmen Smolders
- 16:10 Marine Area Management Plans – Implementing The Ecosystem Approach – Case Norway**
Johán H. Williams
- 16:30 Creating And Maintaining A Coastal Management Knowledge Hub**
Rodger Tomlinson

2.2 - Aerial & Acoustic Monitoring

21st November 2016, Monday (15:20 – 16:50)

Chair(s):

- 15:20 Key Note: Multi-Platforms Of Remote Sensing for Sustainable Coastal Development**
Prof. Cheng-Chien Liu
- 15:50 Underwater Noise Assessment To Save The Marine Environment**
Pal Bite, Peter Farago
- 16:10 Below The Surface In Ports**
Stig Bjoergen Oeen
- 16:30 Costal Monitoring System High Resolution Digital Terrain Models using UAV**
Federica Maggiani

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2.3 - Risk /Maintenance

21st November 2016, Monday (15:20 – 16:50)

Chair(s):

- 15:20** **Key Note: Design and Construction of Berm Breakwaters**
Prof. Jentsje van der Meer
- 15:50** **Effects of tsunami inundation on forces on buildings**
William Allsop, Roberta Riva, Ian Chandler
- 16:10** **Inspection And Maintenance of Coastal Structures: Some Consideration on Rock Structures in The Gulf**
Andrea Caricato
- 16:30** **Revisiting Design of Coastal Structures per Construction Practices-Case of UAE Client Requirements**
Asadullah Khan

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Day 2 - Tuesday
22 November 2016

Tuesday, 22 November 2016

TUESDAY, 22 NOVEMBER 2016

3.1 - Integrated Coastal Zone Management - II

22nd November 2016, Tuesday (08:30 – 10:00)

Chair(s):

- 08:30 Key Note: Adaptation to Natural Coastal Hazards-Case Studies Along The Indian Coast**
Prof. Sundar Vallam
- 09:00 Operational Scientific Based Information System in Support of Safety And Resilience: From The Large Scale of the Mediterranean Sea to The Coastal Case of Apulia Region in Italy**
Ivan Federico
- 09:20 Stabilization of Umm Suqueim beach using composite groynes: Case Study**
Alya Abdulrahim Al Harmoudi, Ibrahim Mohammad Juma, Sankarbabu Karanam, Mahmoud Abdulmuneem Sharaki
- 09:40 Integrated Coastal Zone Management and Environmental Approach of United Arab Emirates**
Nadeem Ahmad

3.2 - Northern Gulf's Special Features

22nd November 2016, Tuesday (08:30 – 10:00)

Chair(s):

- 08:30 Key Note: Coastal Agriculture and Its Effects of Salt Water Intrusion: Facts and Solutions**
Prof. Mohamad Al Rashed
- 09:00 A New Image Classification Approach for Mapping Coral Density in State of Kuwait Using High Spatial Resolution Satellite Images**
Mahdi Gholoum, David Bruce, Shaker Alhazeem
- 09:20 Tidal Harmonic Analysis Around Boubyan And Warba Islands: Northern Arabian Gulf**
Nada Alsulaiman, Yousef Alosairi, Tanuspong Pokavanich
- 09:40 Probability and Statistical Characteristics of Seawater Turbidity around Boubyan Island, Kuwait**
S.Neelamani, Y. Al-Osairi

*Program subject to change



Tuesday, 22 November 2016

3.3 - Integrated Coastal Zone Management - III

22nd November 2016, Tuesday (08:30 – 10:00)

Chair(s):

- 08:30** **Key Note: New approach for shallow water modeling considering development of bottom boundary layer**
Prof. Hitoshi Tanaka
- 09:00** **Satellite Derived Products As Tool To Aid Coastal Zone Management And Engineering**
Knut Hartmann, T. Heege, M. Wettle
- 09:20** **Delivering Integrated Marine Management**
Dickon Howell
- 09:40** **Integrated approach to protect and restore sinking Vaan island in Gulf of Mannar, India**
Edward JK Patterson, Sannasiraj, S.A., Mallehappa, H, Vallam Sundar, Deepak S. Bilgi

4.1 - Arabian Gulf Hydrodynamics

22nd November 2016, Tuesday (10:20 – 12:00)

Chair(s):

- 10:20** **Wind Wave Hindcast For The Arabian Gulf**
Karim Rakha, Apostolos Kalpizas, Hakeem Johnson, Michael Cunnington
- 10:40** **Simulating The Propagation of a Tsunami Event in the Arabian Gulf**
Vishnu S Das
- 11:00** **Three-Dimensional Numerical Modelling of The Arabian Gulf with The Arabian Gulf Community Model**
Robin Morelissen, Reimer de Graaff, Roland Vlijm, Tanuspong Pokavanich, Yousef Y. Al-Osairi, Aaron C. Chow
- 11:20** **Cyclone Storm Surges In The Arabian Sea And Strait Of Hormuz Compared With Historic Tsunamis**
Hermann M. Fritz, Abdolmajid Naderi Beni
- 11:40** **Wave Interaction With Some Wave Barriers Suitable For Gulf Type Marine Environments**
S. Neelamani

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4.2 - Monitoring Systems

22nd November 2016, Tuesday (10:20 – 12:00)

Chair(s):

- 10:20 Abu Dhabi Ocean Observing System**
*Reimer de Graaff, Eisa Ahmed Al Hammadi, Amira Ahmed Al Zarouni
Samer Akoum, Tom Bogaard*
- 10:40 Improving Discovery, Access, And Analysis to Three Decades Of Usace Oceanographic and Geomorphologic Observations**
Kelly Knee, Michael Forte
- 11:00 The Newly Updated State Of The Art Metocean Dataset For The Gulf Region: PERGOS-2**
Karim Rakha, Apostolos Kalpias, Hakeem Johnson, Michael Cunningham
- 11:20 Integrated Data Buoy Network For Near-Shore and Offshore Monitoring and Early Warning Applications in Arabic Gulf**
Shajjan Baby
- 11:40 Wave, Current and CTD Measurements for Detailed Calibration of Numerical Models in Doha Bay**
Mark Klein, Sytske Stuij, Lars Hoogduin, Joost ter Hoeven, Marius Sokolewicz

4.3 - Coastal Planning Systems

22nd November 2016, Tuesday (10:20 – 12:00)

Chair(s):

- 10:20 Investigation Of Methods On Growing Coral Reefs In Dubai Coasts**
*Lt. Gen. Dhahi Bin Tamim, Major General/ Mohamed Bakhit, Lt. Colonel,
Dr. Tamim Alhaj, Juma Al Falasi, Jasim Alhammadi, Ahmed Shuhail, Rashid Ahmed,
Jamal Hassan, Adil Saeed, Fazil Abdul Rahiman, Mar*
- 10:40 Information for managing the coastal environment “outlook for the Arabian Gulf**
Jos Van Gils, Meinte Blaas, Ghada El Serafy, Arno Nolte
- 11:00 Aquifer Characterization And Management Of Groundwater Levels In Urban Areas of Dubai**
*Oliver Higgins, Kristi Shaw, Paul, Anid, David McGrath, Muayad Shabib,
Mustapha El Fakir*
- 11:20 Marine Buffer Zones and Hydrodynamic Assessments For Regional Planning in the Gulf**
Matthew Wood, Michael Arora
- 11:40 An Innovative Early Warning System For Flood/Operational Risks In Harbours**
Annelies Bolle, Steven Smets, Justine Mollaert, Mark Bollen

**Program subject to change*



**Day 3 - Wednesday
23 November 2016**

Wednesday, 23 November 2016

5.1 - Coastal Vulnerability and Adaptation

23rd November 2016, Wednesday (08:30 – 10:40)

Chair(s):

- 08:30** **Key Note: How to Deal With The Risk of Living And Working at The Coastline In The Perspective Of a Changing Climate**
Prof. Verhagen, H.J. (Henk Jan)
- 09:00** **Coastal Monitoring for a well informed adaptation strategy**
Alya Al Harmoodi, Ibrahim Juma, Noora Hokel
- 09:20** **Application of Digital Elevation Models to Assess Coastal Inundation due to Sea Level Rise Along the Nile Delta, Egypt**
Yasser Eldeberky, Mervat. M. Refaat
- 09:40** **Vulnerability Analysis of Agatti Island, Lakshadweep U.T, India**
Mani Murali R, Reba Mary R, Sundaresan.J
- 10:00** **Preliminary Assessment Of The Coastal Vulnerability Index For Sulaibikhat Bay, Kuwait**
Ms.Dana Al-Houti, S. Neelamani, M. Al-Sarawi

5.2 - Coastal Vulnerability and Adaptation

23rd November 2016, Wednesday (08:30 – 10:40)

Chair(s):

- 08:30** **Key Note: Predicting Wave Overtopping at Seawalls and Breakwaters – Development And Application of the EurOtop2 Manual**
Prof. William Allsop
- 09:00** **Flood Risk Assesment of Mumbai Coastal and Esturaine Areas due to Sea Level Rise**
Jayasankar T, T.I. Eldho
- 09:20** **Evaluation of Tsunami Hazards along Arabian Coasline due to Possible Earthquake And Landslides**
Tanuspong Pokavanich, Khaled Al-Salem, Anawat Suppasri, Panon Latcharote



Wednesday, 23 November 2016

09:40 Assessment Of Extreme Wave Prediction Models

Satish Samayam, Sannasiraj S.A., Sundar Vallam

10:00 A Study on Tsunami Propagation Over Continental Slope

Manasa R Behera

5.3 - Anthropogenic Stresses

23rd November 2016, Wednesday (08:30 – 10:40)

Chair(s):

08:30 Key Note: Practical Coastal Adaptation for Climate Change

Prof. Ron Cox

09:00 Numerical Model Study of the Outfalls Pollution Levels in Jahra and Sulaibikhat Bays: Kuwait

Yousef Alosairi, Tanuspong Pokavanich

09:20 Cumulative Effects of Multiple Marine Outfalls: Issues for Coastal Zone Management

Matthew Wood

09:40 Harmful Algal Bloom Species Diversity in UAE Coastal Waters

Rashid Alshihhi, Jaishinimol, Bharghavan

10:00 Coupled Hydrodynamic-Meteorological Models for Gulf Coastal Outfall Studies

Doug Cresswell, Matthew Wood, Marwan Alkindi

6.1 – Remote Sensing

23rd November 2016, Wednesday (11:00 – 12:40)

Chair(s):

11:00 Use Of Combined Satellite Images to Produce High Resolution Bathymetric Data for Feasibility Studies

Luis Moreno, Cristina Perez, Patricia Martin, Inmaculada Rodriguez, Mark Fuller, Ibrahim Al-Muammar

11:20 Satellite Derived Products as Tool to Aid Coastal Zone Management and Engineering

Knut Hartmann, T. Heege, M. Wettle

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- 11:40 Ecological Classification from Satellite Imagery - Abu Dhabi Emirate**
Richard Flemmings, Chris Burnett, Anil Kumar
- 12:00 Assessment of Marine Pollution by Linear Alkylbenzene Sulfonates (LAS) along the Egyptian Mediterranean Coast**
Magda El-Magharaby, Olfat D. El-Sebaey, Samir M. Nasr, Mohamed A. Abdelkhaleq
- 12:20 Observing Coastal Dynamics From Space**
Arjen Luijendijk

6.2 – Innovative Coastal Protection

23rd November 2016, Wednesday (11:00 – 12:40)

Chair(s):

- 11:00 Experimental Investigations Of Wave Height Attenuation By Different Types Of Artificial Vegetation**
Beena Mary John
- 11:20 Pressure Variation Along The Sea Ward Slope Of A Flexible Seawall**
Sukanya R, Sundar V, Sannasiraj S.A.
- 11:40 ALGOBOX®: A Sustainable Alternative For Coastal Dune Restoration By Sand-Trapping Fences And Algae Wrack**
Mouncef SEDRATI
- 12:00 Recent Developments In Geotextile Sand Container Technology And Its Applications In Coastal Engineering Projects In Projects In The Middle East**
Darshana T Dassanayake, Juan Recio
- 12:20 Geosynthetic Sand Containers - Design And Construction Considerations**
Aleksa Cavic, Juan Recio, Lachlan Jackson



Wednesday, 23 November 2016

6.3 – Coastal Development, structures and Inland waterways

23rd November 2016, Wednesday (11:00 – 12:40)

Chair(s):

- 11:00 Wave Propagation Across A Navigational Channel: A Numerical And Physical Model Investigation**
Francesco Ciardulli, Joao Pimenta, Xingzhao Zhu, Sonia Ayoub, Andrea Polidoro, Giovanni Cuomo
- 11:20 A Study For The Marina And Foreshore Redevelopment Of The City Of Cavalaire-Sur-Mer, France**
Stephan Lenormand, Etienne Savigny, Fabrice Gouaud
- 11:40 Optimizing The Harbor Wall Inclination In An Oscillating Water Column**
Daniel Raj D, Sannasiraj. S.A And Sundar. V
- 12:00 Innovative Designs And Sustainable Solutions Implemented At Port, Coastal And Waterfront Projects in the UAE and Middle East**
Juan Recio
- 12:20 DM Presentation**

7.1 – Risk Monitoring and Modeling

23rd November 2016, Wednesday 13:40 – 15:20)

Chair(s):

- 13:40 Oil Spill Detection using Texture Analysis and Wind Field Estimation**
Balaji Ramakrishnan, Ankita Misra
- 14:00 Oil Spill Risk Assessments for Coastal Zone Protection In The Arabian Gulf**
Florence Henno, Alexander Goater, Matthew Wood
- 14:20 OILMAPWEB: Web-Based Oil Spill Response**
Kelly Knee, Andrew Menton, Rami Saeed, Tarig Omer, Xiongping Zhang
- 14:40 Wave Overtopping Hazard to Pedestrians: Video Evidence From Real Accidents**
Claudio Sandoval, Tom Bruce
- 15:00 Cyclonic Extreme Seastates: A More Rigorous Evaluation Approach**
Giulia De Masi, Matteo Mattioli, Michele Drago

**Program subject to change*

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7.2 – Reclamation/Dredging

23rd November 2016, Wednesday (13:40 – 15:20)

Chair(s):

- 13:40 Numerical Modeling Of Hydrodynamics For Reclamation Of An Artificial Island In The Back Bay, Marine Drive, Mumbai - India**
M. Thomas Babu, K. Sudheesh, P. Vethamani
- 14:00 Sand Size Variability Inside The Hopper of a Trailing Suction Dredger In Regards To Beach Nourishment Projects**
Juan J. Munoz-Perez, P. Poulet, J. Mera, L. Moreno
- 14:20 Design of Artificial Islands in the Gulf Region**
Fabien Loy, Shirin Costa, Jon Williams
- 14:40 Design Of Upper Zakum Artificial Islands**
James Walker, Hazem Sarhan, Mouad Lambarki, Koen Van de Putte, Mootaz Khaled
- 15:00 Challenges in the Coastal Zone Development of Countries Surrounding the Arabian Gulf**
S. Neelamani

7.3 – Shoreline Stability and Beach Design

23rd November 2016, Wednesday (13:40 – 15:20)

Chair(s):

- 13:40 Coastal Stabilisation “Advancement In Geotextile Design & Construction Methods As An Alternative to Rock**
Aaron Salyer, Leslie Angus Jackson
- 14:00 The Jumeirah beach project : First combinaison of Ecoplage beach dewatering system and sand nourishment**
Arnaud BALLAY
- 14:20 Shoreline Stability of Soma Bay, Egypt**
Ahmed G. Abul-Azm
- 14:40 Design Of Artificial Beaches Using Empirical And Numerical Methods - A Case Study**
Christian Seifart, Francesco Ciardulli
- 15:00 Beach Stabilization Based On Vertical Drain Tubes**
Poul Jakobsen, Claus Brogger

**Program subject to change*



Wednesday, 23 November 2016

8.1 – Habitats Restoration

23rd November 2016, Wednesday (15:40 – 17:20)

Chair(s):

15:40 Projects Review - Eco-Engineered Artificial Reefs In The Arabian Gulf
Leslie Angus Jackson, Aaron Salyer, Lachlan Jackson, Sam King

16:00 Coastal Development Compromises “Development Re-Design And Partial Coral Relocation As Environmental Mitigation
Kathleen Ward, Edwin Palmer

16:20 Micro Level Climate Change Vulnerability Assessment In Fishing Villages In Gulf Of Mannar, Tamil Nadu, India
Priya Tripathi, Edward JK Patterson

16:40 DM Presentation

17:00

8.2 – Morphology and Sedimentation (HALL – A)

23rd November 2016, Wednesday (15:40 – 17:20)

Chair(s):

15:40 General Model For Estimation Of longshore Transport At Mixed Beaches
Giuseppe Roberto Tomasicchio Ciardulli D’Alessandro

16:00 Modelling of Beach profile change along the South Gujarat Coastline
Balaji Ramakrishnan, SatheeshKumar J

16:20 The Long Term Impact of the Seli One Shipwreck on the Table Bay Coastline
Christian Seifart (will be presented by Geoff Toms), Francesco Ciardulli

16:40 Assessment of Organic Pollution in Sediments of Askar Coast, Eastern Bahrain
Al-Anoud Fahad Al-Khatlan, Thamer Ali, Asma Abahussain

17:00 Possible Solutions To Reduce The Sedimentation In The Failaka Marina, Kuwait
S. Neelamani, Alanoud Al-Ragum, Nada Al-Sulaiman, Y. Al-Osairi

**Program subject to change*

Wednesday, 23 November 2016

8.3 – Breakwater

23rd November 2016, Wednesday (15:40 – 17:20)

Chair(s):

- 15:40 Wave Transmission At Wide Crested Submerged Breakwater**
Damiano Scarcella (NMDC), Rama Venkata Suresh Reddi, Saravanan Umapathy, Murali Krishna, Vojin Jankovic
- 16:00 Multiple Linear Regression Model For Predicting Wave Transmission In Horizontally Interlaced Multilayered Moored Floating Pipe Breakwater**
Vishnu S Das
- 16:20 Hybrid Multi-Functional Seafront Protection Solutions**
Robbert Steijn, Todd Stermer, Ahmad Khalil and Piet Dircke
- 16:40 Correlation Between Wave Transmission And Mooring Forces On Floating Breakwater With Single And Five Skirt Walls**
S. Neelamani, Josko Ljubic
- 17:00 Prediction of Significant Wave Height using an Empirical Relation for Kuwaiti Territorial Waters**
Khaled Al-Salem, Abdulaziz Al-Rashed

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