

18 Feb 2018, Sunday	
1630 – 1830	REGISTRATION
19 Feb 2018, Monday	
0830-0930	REGISTRATION
0930-1030	INAUGURATION
1030-1100	TEA BREAK
TECHNICAL PROGRAM	
1100-1130	KEYNOTE -1 : Automation in Coastal science and Engineering Prof. Manhar Dhanak, Florida Atlantic University, USA (Auditorium)
1130 – 1250	TECHNICAL SESSION 1- 4
TS01: MARINE VEHICLES AND FLOATING SYSTEM-1 (AUDITORIUM) CHAIR: Prof. Manhar Dhanak, FAU, USA	
1130	Response Control of FPSO using Multiple Tuned Liquid Dampers <i>G Saravanan, Deepak Kumar, Ruchi Saraswat</i>
1150	High Speed simulation in Towing Tank for Dynamic Lifting Vessels <i>N Naga Venkata Rakesh, P Lokeswararao , V Anantha Subramanian</i>
1210	Risk and Reliability Assessment of Marine Risers Operating In Harsh Ocean Environment <i>Rizwan Ahmad Khan, Suhail Ahmad</i>
1230	Coupled Boundary Element Method and Finite Element Method for Hydroelastic Analysis of Floating Plate <i>Anoop I Shirkol, T Nasar</i>
TS02:COASTAL, SEDIMENT AND HYDRODYNAMICS - I (HALL-1) CHAIR: Prof Dominic Reeve, Swansea University, UK	
1130	Statistical Analysis of Coastal Currents from HF Radar along the North-Western Bay of Bengal <i>Samiran Mandal, Saikat Pramanik, Subrota Halder, Sourav Sil</i>
1150	Numerical Modelling and Experimental Investigation on the Effect of Wave Attenuation due to Coastal Vegetation <i>S Hemavathi, R Manjula, N Ponmani</i>
1210	Studies on the morphological changes by numerical modeling along Kakinada coast <i>N.Sharmila, R Venkatachalapathy, M Mugilarasan</i>
1230	Desk Studies and Modeling Sedimentation Pattern in Gulf of Khambhat <i>L R Ranganath, A V Sriram, M Karthikeyan</i>
TS03: COMPUTATIONAL MODELLING - I (HALL- 2) CHAIR: Prof. Qingwei Ma, City, University of London, UK	
1130	Multi-directional Irregular Wave Modelling with CFD <i>Weizhi Wang, Hans Bihs, Arun Kamath, Øivind Asgeir Arntsen</i>
1150	Numerical Study of Superposition Principle for Surface Gravity Waves <i>Alok Khaware, Vinay Kumar Gupta, Alok Khaware, Ashok Sivanandham, KVSS Srikanth.</i>
1210	Numerical Modelling of Hydrodynamic Impact of Tsunami on Coastal Structures in the presence of Curved seawall <i>Aditya Gupta, Manasa R Behera, Amin Heidaropur</i>
1230	Numerical study on secondary flow characteristics after dual stepped cylinder at low Reynolds number <i>Junxian Wang, Qingwei Ma, Shiqiang Yan</i>
TS04: OCEAN RENEWABLE ENERGY I (HALL-3) CHAIR: Prof. Felice Arena, NOEL, Italy	
1130	Study on Suitable Electrode for Energy Harvesting using Galvanic Cell in Seawater <i>G Nithya Sivakami, V T Perarasu, S Sakthivel Murugan</i>
1150	Surrogate-based Optimization of a Biplane Wells Turbine <i>Tapas K Das, Abdus Samad</i>
1210	Tidal energy estimation of potential tidal inlets along the east coast of India <i>Vikas Mendi, N Amarnatha Reddy, Jaya Kumar Seelam, Subba Rao</i>

1230	Wave energy conversion by multiple bottom-hinged surging WEC <i>Akshay Kumar Kummawat ,D Karmakar, Carlos Guedes Soares</i>
1250-1345	LUNCH BREAK
1345-1415	KEYNOTE -2: Modernization of Ports Prof. R. Sundaravadivelu, IIT Madras, India. Auditorium
1415 -1535	TECHNICAL SESSION 5-8
TS05: MARINE VEHICLES AND FLOATING SYSTEM- II (AUDITORIUM) CHAIR: Prof. Felice Arena, NOEL, Italy	
1415	Hydroelasticity Analysis of a Container Ship Using a Semi Analytic Approach and Direct Coupling Method in Time Domain <i>Sumit Kumar Pal , Debasmrit Sengupta, Ranadev Datta , Debabrata Sen</i>
1435	Numerical study on the influence of head wave on the hydrodynamic derivatives of a container ship <i>T V Rameesha, P Krishnankutty</i>
1455	Retro-fitting integrated wedge-flap for improvement of resistance of High-speed Displacement Vessel <i>Lijo Joseph , V Anantha Subramanian</i>
1515	Numerical Estimation of Underwater Radiated Noise of a Marine Propeller in non-cavitating regime <i>Abhishek Kumar Tewari, Vijit Misra, Vijaykumar Rajagopalan</i>
TS06:COASTAL, SEDIMENT AND HYDRODYNAMICS -II (HALL-1) CHAIR: Prof. Arkal Vittal Hegde, NITK Surathkal, India	
1415	Wave climate and near shore sediment transport pattern along southeast coast of India <i>V Ranga Rao, Akhil Kolli, K Stephen Raju , D Kumaresan</i>
1435	Design of a Reef for Coastal Protection <i>P V Chandramohan</i>
1455	Study of Dynamic Changes through Geoinformatics Technique: A case study of Karwar Coast, West Coast of India <i>Arunkumar Yadav, B M Dodamani, G S Dwarakish</i>
1515	An Experimental Study on Surface Wave Modulation due to Viscoelastic Bottom <i>Dharma Sree, Adrian Wing-Keung Law, Hayley H. Shen</i>
TS07: COMPUTATIONAL MODELLING - II (HALL- 2) CHAIR: Dr. Shiqiang Yan, City, University of London, UK	
1415	Modelling of wave interaction with porous structures using Boussinesq equations <i>Shagun Agarwal, V Sriram, K Murali</i>
1435	Breaking focused waves generated using the transient wave packet method and the breaking impact forces on a vertical cylinder <i>Arun Kamath, Mayilvahanan Alagan Chella, Hans Bihs</i>
1455	Effect of Emerged Coastal Vegetation on Wave Attenuation Using Open Source CFD Tool: REEF3D <i>P A Abhijith, H S Arunakumar, Praveen Suvarn , Ashwin S Prabhu, U Pruthviraj, Arun Kamath</i>
1515	Assessment of Nonlinear Quadruplet Interactions for Measured Spectra in Deep Waters on the East Coast of India through Gauss Legendre Quadrature Method <i>M Kalyani , M Kamalakannan, V Prabhakar, Basantakumar Jena, R Venkatesan</i>
TS08: OCEAN RENEWABLE ENERGY - II (HALL-3) CHAIR: Prof. Richard Manasseh, Swinburn University, Australia	
1415	Optimal Design of a Marine Current Turbine using CFD & FEA <i>Lava Kush Mishra, T Karthikeyan, Abdus Samad</i>
1435	Offshore Energy for the Remote Islands of Lakshadweep <i>K Srilakshmi, Satya Kiran Raju Alluri, Manu</i>
1455	Control Oriented Wave to Wire Model of Oscillating Water Column <i>R Suchithra, Abdus Samad</i>
1515	Hysteresis Behavior for Wave Energy Conversion Device under Alternative Axial Flow Conditions <i>Tapas K Das, Paresh Halder, Abdus Samad, Mohaned H Mohamed</i>
1535-1600	TEA BREAK
1600-1740	TECHNICAL SESSION 9-12
TS09: MARINE VEHICLES AND FLOATING SYSTEM-III (AUDITORIUM) CHAIR: Dr. Shiqiang Yan, City, University of London, UK	

1600	Estimation of Hydrodynamic Derivatives from Sea Trial Data Using System Identification Technique <i>K O S R Ravisekhar Radhakrishna, R Panneer Selvam</i>
1620	Marine Vehicles and Floating Systems Effect of Forward Speed on Roll Damping of a Container Ship using URANS Simulations <i>Mohsin A R Irkal, S Nallayarasu, S K Bhattacharyya</i>
1640	Design and analysis of a carbon composite propeller for podded propulsion <i>Ashok Kumar, G Lal Krishna, V Anantha Subramanian</i>
1700	Passing Vessel Effect on Mooring System of a Berthed Ship – A Case Study at Jawahar Dweep Berth No: 5, Mumbai Port <i>V Nandhini, Keshav Sundar, S Nallayarasu</i>
1720	Hydrodynamic Study on the Performance Evaluation of Flapping Foils in Open Water Condition <i>Anties K Martin, B K Alok, P Krishnankutty, P Ananthakrishnan</i>

**TS10: COASTAL SEDIMENT AND HYDRODYNAMICS -III
(HALL-1)**

CHAIR: Prof. Subba Rao, NITK, India

1600	Spectral AB Simulations for Coastal and Ocean Engineering Applications <i>E Van Groesen, R Kurnia, P Turnip</i>
1620	Nearshore Hydrodynamics Near an Open Coast Harbour at Gopalpur, Central East Coast of India <i>P Mishra, U K Pradhan, P K Mohanty, U S Panda, M V Ramana Murthy</i>
1640	Computation of Sediment Transport - A Review <i>Hradaya Prakash, Balkrishna Shankar Chavan</i>
1700	Improving Hydraulic Conditions to Preserve Mangroves at Hazira <i>V B Sharma, A K Singh, Prabhat Chandra</i>
1720	Hydrodynamic modeling for development of a port in an estuary <i>A K Singh, L R Ranganath, M Karthikeyan</i>

**TS11: COMPUTATIONAL MODELLING - III
(HALL- 2)**

CHAIR: Prof. Qingwei Ma, City, University of London, UK

1600	Prediction of Motions and Wave Induced Loads on a Container Ship Using Nonlinear 3D Time Domain Panel Method <i>R Datta, C Guedes Soares</i>
1620	CFD study of regular waves on a jacket structure <i>Ankit Aggarwal, Hans Bihs</i>
1640	Computational Study on the Hydrodynamic Effects of Interceptors Fitted to the Transom of Planning Vessels <i>Suneela Jangam, V Anantha Subramanian, P Krishnankutty</i>
1700	Numerical Modelling of Scour around an Offshore Jacket Structure using REEF3D <i>Nadeem Ahmad, Hans Bihs, Arun Kamath, Øivind A Arntsen</i>
1720	Numerical Modelling of Bed shear stress in OpenFOAM <i>V Nandakumar, V Sriram, Jaya Kumar Seelam</i>

TS12: OCEAN RENEWABLE ENERGY -III(HALL-3)

CHAIR: Prof. Shin Hyung Rhee, Seoul National University, Korea.

1600	Ocean Current Measurements and Energy Potential in the Islands of Andaman <i>Biren Pattanaik, D Nagasamy, Yvn Rao, Balaji Chandrakanth, Nitinesh Awasthi, Abhijeet Sajjan, D Leo, Prasad Dudhgaonkar, Purnima Jalihal</i>
1620	Explicit structural response-based methodology for assessment of operational limits for single blade installation for offshore wind turbines <i>Amrit Shankar Verma, Yuna Zhao, Zhen Gao, Nils Petter Vedvik</i>
1640	Influence of Harbour Wall on Pressure Variation in an Oscillating Water Column <i>D Daniel Raj, V Sundar, S A Sannasiraj</i>
1700	Evaluation of Natural Period of Offshore Tension Leg Platform Wind Turbine Experimental Studies <i>Madhuri Seeram, G Satya Sravya, K Venkateswara Rao</i>
1720	Open Sea Trials on Floating Wave Energy Device Backward Bent Ducted Buoy and its Performance Optimization <i>Biren Pattanaik, D Nagasamy, A Karthikeyan, D Leo, V Y Narasimha Rao, K S Sajeve, Prasad V Dudhgaonkar, Purnima Jahilal</i>

1815 LEAVE FOR CONFERENCE WELCOME RECEPTION

20th FEB 2018, Tuesday

0900-1020 TECHNICAL SESSION 14-17

**TS13: MARINE VEHICLES AND FLOATING SYSTEM-IV
(AUDITORIUM)**

CHAIR: Prof. P. Krishnankutty, IIT Madras, India

9:00	Numerical Study of Water Depth Effect on Sway Velocity and Rudder Derivatives of a Container Ship in Manoeuvring <i>Akhil Balagopalan, P Krishnankutty</i>
9:20	Numerical investigation of influence of Micro Bubble injection, distribution, void fraction and flow speed on frictional drag reduction <i>Sudhir Sindagi, R Vijaykumar, Somanath Nirali, B K Saxena</i>

9:40	Hydroelastic Responses of a Pontoon Type VLFS in Different Water Depths <i>S Somansundar, R Panneer Selvam</i>
10:00	Effect of slamming and green water on short term distribution of vertical bending moment of a containership in abnormal waves <i>Suresh Rajendran, C Guedes Soares</i>
TS14: COASTAL SEDIMENT AND HYDRODYNAMICS-IV (HALL-1) CHAIR: Prof. V Sundar, IIT Madras, India	
9:00	Effect of the Sensitivity of Wind Drag Coefficient on Storm Surge Modelling for Tropical Cyclone <i>C Gowri Shankar, Manasa Ranjan Behera, P Vethamony</i>
9:20	Tidal Circulation Studies using Regional Model in the Bay of Bengal <i>Saikat Pramanik, Samiran Mandal, Abhijit Shee, Subrota Halder, Sourav Sil</i>
9:40	Wave interaction with multiple submerged porous structures <i>V Venkateswarlu, D Karmakar</i>
10:00	Application of an efficient numerical model for CO2 sequestration in deep saline aquifers <i>M R Behera, P Dinesh, P G Ranjith, N Muthu</i>
TS 15: COMPUTATIONAL MODELLING- IV (HALL- 2) CHAIR: Prof. E. Van Groesen, University of Twente, Netherlands	
9:00	Fully-coupled Aero-hydrodynamic Simulation of Floating Offshore Wind Turbines with Overset Grid Technology <i>Ping Cheng, Decheng Wan</i>
9:20	A parallelized inflow boundary based numerical tank: performance on individual SMA nodes <i>Shaswat Saincher, Sagar Dave, Chetan Anghan, Jyotirmay Banerjee</i>
9:40	Simulation of Floating Bodies in Waves and Mooring in a 3D Numerical Wave Tank using REEF3D <i>Tobias Martin, Arun Kamath, Hans Bihs, Øivind Asgeir Arntsen</i>
10:00	Evaluation of Hydrodynamic Performance of Quarter Circular Breakwater Using Soft Computing Techniques <i>N Ramesh, A V Hegde, Subba Rao, N Vivekanandan</i>
1020	Hydrodynamic performance prediction of Hulls using CFD, Girish Venkatachalapathy, Dipak Maiti
TS 16: OCEAN RENEWABLE ENERGY-IV (HALL-3) CHAIR: Prof. Torgeir Moan, NTNU, Norway	
9:00	Numerical investigation of semi-submersible floating wind turbine combined with flap-type WECs <i>Akshay Kumar Kumawat, D Karmakar, C Guedes Soares</i>
9:20	Interaction of Wave with an Array of Open Caisson <i>Yan-Xiang Lin, Da-Wei Chen, Jiahn-Horng Chen</i>
9:40	Effects of Power Take-Off Damping and Model Scaling on the Hydrodynamic Performance of Oscillating Water Column Device <i>John Ashlin Samuel, Sannasiraj S A, Sundar V, Arun Kamath, Hans Bihs</i>
10:00	Offshore wind energy potential assessment of India based on synergetic use of QuikSCAT, OSCAT and ASCAT scatterometers data <i>Surisetty V V Arun Kumar, Jagdish Prajapati, Raj Kumar</i>
1020-1045	TEA BREAK
1045-1115	KEYNOTE -3: Advances in Multi scale Multi model Simulation in Marine Engineering Prof. Qingwei Ma, City, University of London, UK Auditorium
1115-1145	KEYNOTE -4: Wave overtopping in the UK during the Winter of 2013/14 Prof. Dominic Reeve, Swansea University, UK. Auditorium
TS 17: MARINE VEHICLES AND FLOATING SYSTEM-V (AUDITORIUM) CHAIR: Prof. Anantha Subramaniam, IIT Madras, India	
1145	Vibration control of large floating offshore structures by means of damping plates: a case study <i>Felice Arena, Carlo Ruzzo, Vallam Sundar</i>
1205	Role of elasticity in the energy dissipation characteristics of submerged elastic plate in waves <i>M Thayaprabha, K Murali, V Anantha Subramanian</i>

1225	EXPERIMENTAL INVESTIGATION ON EFFECT OF SUBMERGED SOLID BAFFLE IN A BARGE CARRYING LIQUID SLOSHING TANK <i>T Nasar, S A Sannasiraj</i>
1245	Development of Controller for Robotic Fish <i>A M Aminur R B, M P R Prasad</i>
TS18: COASTAL SEDIMENT AND HYDRODYNAMICS - V (HALL-1) CHAIR: Dr. Yana Saprykina, Shirshov Institute of Oceanology, Russia.	
1145	Beyond the data range approach to soft compute the reflection coefficient for emerged perforated semicircular breakwater <i>Amit Vijay Wazerkar, Suman Kundapura, Arkal Vittal Hegde</i>
1205	Non-dimensional classification of Tidal inlets along Central west coast of India <i>N Amarnatha Reddy, Vikas Mendi, Jaya Kumar Seelam, Subba Rao</i>
1225	Assessment of Littoral Drift and Shoreline Changes for Fisheries Harbour on East Coast of India <i>S N Jha, J Sinha</i>
1245	Impact of Flow Driven Debris on Coastal Structure during Tsunami Bore <i>S Harish, V Sriram, V Sundar, S A Sannasiraj, I Didenkulova</i>
TS 19- Offshore Structures and Deepwater Technology - I (HALL-2) CHAIR: Prof. Ove Tobias Gudmestad, University of Stavanger, Norway	
1145	Hull-tether dynamics of deep water tension leg platforms under steep regular waves <i>R Jayalekshmi, R Sundaravadivelu, V G Idichandy</i>
1205	Residual Strength of Cracked Tubular Joint using Nonlinear Finite Element Analysis <i>N Vignesh Chellappan, S Nallayarasu</i>
1225	Wave transformation due to floating elastic thick plate over changing bottom topography <i>K.M Praveen, D Karmakar</i>
1245	Developing the Installation methodology for Monopile of offshore wind turbine in high tidal environment along Indian coast <i>Devender Gujjula, Satya Kiran Raju Alluri, G Dhinesh, R Panneer Selvam, M V Ramana Murthy</i>
TS 20- Port, Harbour and Coastal Structures - I (HALL-3) CHAIR: Dr. T. Nasar, NITK, India.	
1145	Comparative Study of Breaking Wave Forces on a Quasi- Prototype Recurved Seawall <i>R Ravindar, V Sriram, Stefan Schimmels, Dimitris Stagonas</i>
1205	Optimisation of Layout of Semi-Enclosed Basin in Micro Tidal Region to Minimise Siltation for Mega ship by FEM <i>Anil Anant Purohit, Mandar Mohan Vaidya</i>
1225	Evolving Fishing Harbour Layout by Wave Tranquility Study using Mathematical Model - A Case Study <i>J D Agrawal, H C Patil, Sagar Chanda, T Nagendra</i>
1245	Shoreline change associated with coastal structures at Gopalpur port, Odisha, east coast of India <i>Prabin Kumar Kar, Pratap Kumar Mohanty, Shraban Kumar Barik, Balaji Behera</i>
1305-1400	LUNCH BREAK
1400-1430	KEYNOTE -5: Recent Advances in the Analysis and Design of Floating Wind Turbines Prof. Torgeir Moan, NTNU, Norway Auditorium
1430-1500	KEYNOTE -6: Waiting On suitable Weather (WOW) to perform marine operations Prof. Ove Tobias Gudmestad, University of Stavanger, Norway Auditorium
TS 21- Climate change and its impact (AUDITORIUM) CHAIR: Dr Rajkumar, SAC	
1500	Multi-decadal fluctuations of storminess of Black Sea due to teleconnections patterns on the base of modelling and field wave data <i>Sergey Kuznetsov, Yana Saprykina, Nikolay Valchev</i>
1520	Climate Change Impact on Design Waves using Climate Models <i>M C Deo, Pooja Jain</i>
1540	Beach Morphology near inlet of Chilika Lagoon <i>Subhashis Pradhan, Pratap K. Mohanty, Rabindro Nath Samal, Rabindra Kumar Sahoo, Rakesh Baral, Shraban K Barik, Madan M Mahanty, Suijt Mishra</i>
1600	Study of Bamboo Bandalling Structures in the Tidal River for the River Bank Erosion Protection <i>Md. Lutfur Rahman</i>

TS 22-AUVs, ROVs and Underwater systems (Hall 1) CHAIR: Prof. P. Ananthkrishnan, IIT Madras, India	
1500	Exploration of Fuzzy C-Means and K-Mean clustering algorithm with Empirical Mode Decomposition for Feature Extraction of Underwater Images <i>S Sakthivel Murugan, M Somasekar, N Padmapriya</i>
1520	Embedded system design for autonomous Unmanned Surface Vehicles (UMVs) <i>Awanish C Dubey, V Anantha Subramanian, V Jagadeesh Kumar</i>
1540	Design and Development of Unmanned Underwater and Aerial Vehicle <i>A Palaniappan, P Ganesh, S B Pranesh, D Sathianarayanan, G A Ramadass</i>
1600	Effect of Rudder and Roll Control Mechanism on Path Prediction of Autonomous Underwater Gliders <i>R V Shashank Shankar, R Vijayakumar</i>
TS 23: OCEAN RENEWABLE ENERGY-V (HALL-2) CHAIR: Dr. J. Purnima, NIOT, India	
1500	Hydrodynamic study of flow past cylinders with different diameters at high Reynolds number <i>K Narendran, K V K Vinay, K Murali, S Kaushik</i>
1520	Experimental study on heave and yaw motions of a 1:30 spar support for offshore wind turbines <i>Carlo Ruzzo, Nilanjan Saha, Felice Arena</i>
1540	Performance simulation of wave powered navigational buoy using CFD and Experimental study <i>Ashwani Vishwanath, Nitinesh Awasthi, Purnima Jalihal, Prasad Dudhgaonkar</i>
1600	Performance evaluation of floating two-body wave energy converter with hydraulic PTO <i>Sudharsan Kalidoss, Arindam Banerjee</i>
T 24: OCEAN MODELLING (Hall 3) CHAIR: Dr. Shreenivas Londhe, VIIT Pune, India	
15:00	Estimation and Analysis of Extreme Maximum Wave Heights <i>S Satish, S A Sannasiraj, V Sundar</i>
1520	Ocean Wave Forecasting: An Indian Case Study <i>Pradnya Dixit, Shreenivas Londhe, T M Balakrishnan Nair</i>
1540	Seasonal Variability of Circulation along the North East Coast of India using Princeton Ocean Model <i>P S Swathy Krishna, Hari V Warrior</i>
1600	Water Level Forecasting using Neuro Wavelet Technique <i>Pradnya Dixit, Shreenivas Londhe, T M Balakrishnan Nair</i>
1620-1630	TEA BREAK
TS 25 - Special Session on Dredging and Port development (Auditorium) CHAIR: Mr. Murugadoss, Mumbai Port. Co-CHAIR: Mr. TN. Krishnamurthy, Andaman and Lakshadweep Harbor works.	
16:30	Design and Construction Challenges in Marine Projects under EPC Mode -A Case Study <i>Sagi Surya</i>
16:50	Pre-coating in marine structures <i>Morten Sorensen</i>
17:10	Cost of Port Development in India-Case Studies <i>R Sundaravadivelu</i>
17:30	Rock Dredging <i>Janakaraj Thomas</i>
17:50	Construction Methodology in Ports- Reclamation, Piles, Diaphragm walls and removal of old Concrete Monoliths <i>Jeyanta Basu</i>
TS 26- SPECIAL SESSION on NEARSHORE WAVE HYDRODYNAMICS AND ITS PREDICTION (HALL-1) CHAIR: Prof. MC Deo, IIT Bombay, India.	
1630	Impact of SARAL/Altika Data Assimilation in A Coastal Ocean Wave Model Using Particle Filter Technique <i>Suchandra A Bhowmick, Raj Kumar</i>
1650	Development of phase resolving nearshore wave propagation model, <i>Sriram</i>
1710	Role of Indian remote sensing systems in Blue economy <i>Raj Kumar</i>
1730	Natural and engineered passive bubble acoustics emissions in the ocean environment <i>Richard Manasseh</i>
1750	Measurement of Surf zone Hydrodynamics along the coastline of Pondicherry, India <i>R Balaji, M V Ramana Murthy, J Satheeshkumar</i>
TS 27 - Floating Systems (HALL-2) CHAIR: Dr. Vijay Kumar, IIT Madras, India	

16:30	Design Approach for reducing the wave added resistance by hull form optimisation Sanchana M Kumar, R Vijayakumar, V V S Prasad
16:50	Hydrodynamic aspects of Turrent Moored FPSO G Balakrishnan Nair (retd) Saipem India Projects Private Ltd
17:10	Duct optimisation and performance evaluation using CFD for the refer container hold Elangovan Muniyandy, Ananth Kumar, Sunil Arora
17:30	Technological trends for Ocean research vessels Nitin Agarwala
17:50	Pitch Motion Studies of ITI Energy Barge Floater 5-MW NREL Offshore Wind turbine with Single Axis Gyrostabilizer using Simulink P Manmathakrishnan, R Panneerselvam

**TS 28-Case study in coastal and port Engineering
(HALL-3)**

CHAIR: Prof. S. Nallayarasu, IIT Madras, India

16:30	Migration of chilika Lake mouth. R. Sundaravadivelu, P. Shanmugam, A.K. Patnaik and P K. Suresh
16:50	FLEXIBLE SYSTEMS FOR SUBMERGED REEFS AND SUBMARINE PIPELINES - CASE STUDIES
17:10	Submerged reef project in pondicherry coast
17:30	Implementation of scientific dredging solution for Hoogly estuary
17:50	Seasonal and inter-annual variations in wave charecteristics of Vizhinjam, South west coast of India. Sisir Kumar Patra, B K Jena, V Suseentharan, M V Ramanamurthy
18:10	Restoration of sunken Caissons using under water construction techniques. Shell Refractories and insulation
18:30	A Study to Identify Locations Suitable of Deep Sea Port Operations in the State of West Bengal. Bal Krishna, B Chaudhuri, P K Bhaskaran
18:20	LEAVE FOR CONFERENCE BANQUET

21st FEB 2018, Wednesday

0900-1020

TECHNICAL SESSION

**TS 29-MARINE FOUNDATION I
(AUDITORIUM)**

CHAIR: Prof. S A Sannasiraj, IIT Madras, India

9:00	Vertical Pull-Out Capacity of Torpedo Anchors S Keerthi Raaj, R Sundaravadivelu, Nilanjan Saha
9:20	Design of piles for a berthing structure on Artificial Slope S V Sivapriya, R Sundaravadivelu, S R Gandhi
9:40	Development of Predictive Tool for Coastal Erosion in Arctic; A Review Raed Lubbad, Mohammad Saud Afzal
10:00	Numerical Study of the Behaviour of Pipe Sheet Pile Wall and Diaphragm Wall in Vertical Face Berthing Structure P Kavitha, R Sundaravadivelu

**TS 30-Petroleum Engineering & Technology I
(HALL-1)**

CHAIR: Dr. Jitendra Sangwai, IIT Madras, India

9:00	Estimating belowground Free Phase Gas (FPG) in tropical peatlands of South West Coast of India using Ground Penetrating Radar (GPR) K Devi, Rajesh R Nair
9:20	Integrating, Predicting and Preventing Flow Assurance Issues – A Review Anchit Khanna, Samarth Patwardhan
9:40	Coupled Flow and Geomechanics Model for CO2 Storage in Tight Gas Reservoir Awez Hanegaonkar, Tapan Kidambi, G Suresh Kumar
10:00	Effect of Nanocellulose as an additive in cement Vignesh Shenoy, Sanjay Joshi, Mikhil Dange
10:20	Analyzing the Physical and Chemical Properties of Water Column Nutrients and Sediments along Southeast Coast of India G Annalakshmi, S Sakthivel Murugan

**TS 31- Offshore Structures and Deepwater Technology II
(HALL-2)**

CHAIR: Dr. J. Purnima, NIOT, India

9:00	Multi objective optimization of offshore jacket structure Vishnu Murali, S K Bhattacharyya
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9:20	Analysis and Design of Guyed 120 m Long Offshore Met Mast Supported on Suction Piles <i>Mounika Mallela, C R Suribabu, Satya Kiran Raju Alluri, M V Ramanamurthy</i>
9:40	Dynamic Behavior of Inverted Catenary Cold Water Pipelines for Seawater Desalination Project <i>R Saravanan, S K Bhattacharya, M V Ramanamurthy</i>
10:00	Optimization Study of Eight Legged Fixed Offshore Jacket Platform <i>V Suryaprakash, N Sunil Kumar</i>
TS 32-Safety, risk and reliability including environment (HALL-3) CHAIR: Prof. R. Panneerselvam, IIT Madras, India	
9:00	Spatial and Temporal Variability of Some Coastal Water Parameters at Selected Locations on East Coast of India <i>R Gayathri, V Ranga Rao, P Madeswaran, V Padmavathi, R ManjuPriya, M Arunvel, S R Kishore Baabu</i>
9:20	Laboratory Investigations on the Effect of Fragmentation and Heterogeneity of Coastal Vegetation in Wave Height Attenuation <i>Kiran G Shirlal, Beena Mary John, Subba Rao</i>
9:40	Environmental challenges and opportunities in marine engine heavy fuel oil combustion <i>Abdul Gani Abdul Jameel, Abdulrahman Alkhateeb, Selvedin Telalovic, Ayman M Elbaz, William L Roberts, S Mani Sarathy</i>
10:00	Energy Analysis of Auxiliary Boiler for Marine Application <i>Jitendra Singh Pal, S N Sapali, T R Anil</i>
1020-1045	TEA BREAK
1045-1115	KEYNOTE -7: Research on Tidal Stream Turbine at Seoul National University Towing Tank Prof. Shin Hyung Rhee, Seoul National University (Auditorium)
1115-1145	KEYNOTE -8: Long-term statistics for extreme waves during sea storms in space-time domain Prof. Felice Arena, Mediterranean University of Reggio Calabria, Italy Auditorium
TS 33- Port, Harbour and Coastal Structures III (Auditorium) CHAIR: Prof. Jiahn-Horng Chen, National Taiwan Ocean University, Taiwan	
1145	Experimental Studies on Hydrodynamic Performance Of An Artificial Reef <i>Loksha, S A Sannasiraj, V Sundar</i>
1205	Prediction of Wave transmission over a outer submerged reef of Tandem breakwater using RBF based Support Vector Regression technique <i>Geetha Kuntoji, Subba Rao, Manu</i>
1225	LAYOUT, FOUNDATION DESIGN AND DREDGING METHODOLOGY OF MULTIPURPOSE TERMINAL <i>R.Sundaravadivelu, M Sasirekha, S Kreesa Kumaran, S M Madhumathy</i>
1245	Assisting Pumps for Dredging <i>Mridul K Sarkar, Sritama Sarkar</i>
TS 34- Petroleum Engineering & Technology - II (Hall 1) CHAIR: Prof. G Suresh kumar, IIT Madras, India	
1145	Modeling Investigations on Sorption of Petroleum Hydrocarbons to Clay Minerals in a Saturated Porous Aquifer <i>Renu Valsala, G Suresh Kumar</i>
1205	Experimental and Numerical Investigations on in situ Chemical Oxidation Model for Groundwater Contaminated with Petroleum Hydrocarbons <i>N Aarthi, D Ashwin, S Gokulprasath, M Vasudevan, N Natrajan, G Suresh Kumar</i>
1225	Numerical Modelling of Enhanced Mobility of Petroleum Hydrocarbon in Saturated Porous Media <i>Berlin Mohanadhas, G Sureshkumar</i>
1245	Mathematical Modeling and Analysis of Nano-Dust Explosion <i>Adnan Deshmukh, Samarth Patwardhan, Nilesh Sakpal, Akshay Agwan, Sagar Wakale</i>
TS 35:COASTAL SEDIMENT AND HYDRODYNAMICS VII (HALL-2) CHAIR: Prof Dominic Reeve, Swansea University, UK	
1145	Wave Transformation Around Submerged Breakwaters made of Rubble Mound and those made of Geosynthetic Tubes- A Comparison Study for Kadalur Periakuppam Coast <i>M Kalyani, A S Kiran, Vijaya Ravichandran, V Suseentharan, Basanta Kumar Jena, M V Ramanamurthy</i>
1205	Study on stability of Eden navigational channel in Hooghly river estuary <i>N Saichenthur, K Murali, V Sundar</i>
1225	Simulation of Littoral Drift and Shoreline Changes in High Littoral Zone at Ennore, East Coast of India <i>R Manivanan, J D Agrawal, T Nagendra</i>

1245	Study on maintenance dredging for navigable depth assurance in the macro-tidal Hooghly Estuary <i>V Maheshvaran, V. Sundar, K. Chitra</i>
TS 36-MARINE FOUNDATION II (Hall -3) CHAIR: Dr. M. Behera, IIT Bombay, India.	
1145	Field and Numerical Study of Vibration on Existing Berthing Structure Due to Pile Driving <i>Jeena Mary John, R Sundaravadivelu, Nilanjan Saha</i>
1205	Alternative Foundation Methods for Upgradation of Oil Jetty <i>J Bharath Priyan, R Sundaravadivelu, S Sakthivel, S Srinivasalu, A Chitra</i>
1225	Influence of grouser geometrical parameters of deep sea crawler vehicle on soft clays <i>C Janarthanan, K Gopkumar, V Sundaramoorthi, N R Ramesh, G A Ramadass</i>
1245	Testing of Soft Clays using Bevameter <i>C Janarthanan, K V Reshma, V Sundaramoorthi, K Jayanthi, B O Viswanath, P Muthuvel, K Gopkumar, G A Ramdass</i>
1305-1335	VALEDICTORY FUNCTION
1335-1435	LUNCH BREAK
1435	TECHNICAL TOUR
17:00	SOCER Society - Annual meeting & Dinner