

# **CURRICULUM VITAE OF Dr. S. NEELAMANI**



NAME : S.Neelamani  
DATE OF BIRTH : 01-02-1960  
NATIONALITY : Indian  
MARITAL STATUS : Married  
SPECIALIZATION : Coastal Engineering  
Environmental Engineering Issues  
Ocean Renewable Energy

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## **ACADEMIC DEGREES**

<b>Year</b>	<b>Name of the academic degree</b>	<b>Name of University/ Institution</b>	<b>Place / Country</b>	<b>Subject of examination</b>	<b>Marks</b>
1984	Bachelor of Engineering (Honours)	Madras University (Government college of Technology)	Coimbatore, India	Civil Engineering	81.2% (2 <sup>nd</sup> Rank out of 60 students)
1986	Master of Technology	Indian Institute of Technology	Kharagpur, India	Marine Technology	CGPA 7.51/10
1990	Doctor of Philosophy	Indian Institute of Technology	Madras, India	Ocean Engineering	-

## **AWARDS:**

- 1. Alexander von Humboldt Post Doctoral Research Fellow, Germany, 1996-98.**
- 2. Scientific Achievement award (Top 20 achievers from the whole KISR with a total of about 700 research staff) bestowed by Kuwait Institute for Scientific Research, Kuwait every year from 2009.**

**STAGES OF UNIVERSITY EDUCATION**

Time		Name of University/ Institution	Place / Country	Main subjects
From	To			
1979	1984	Madras University	Coimbatore, India	<b>CIVIL ENGINEERING</b>  (Engineering Mathematics, Physics and Chemistry, Engineering Drawing, Applied Mechanics, Strength of materials, Fluid Mechanics and Machinery, Soil Mechanics and Foundation Engineering, Surveying, Building materials and Construction, Water supply and Sanitary Engineering, Environmental Engineering, Analysis and Design of Concrete and Steel structures, Surveying, Irrigation and Water Power Engineering, Hydraulic Structures, Engineering Economics, Construction Management, Prestressed Concrete Structures, Advanced Fluid Mechanics, Probability and Statistics, Computer Programming)
1984	1985	Indian Institute of Technology	Kharagpur, India	<b>MARINE TECHNOLOGY</b> (Wave Dynamics, Marine Structures, Marine Foundations, Marine Geosciences, Mechanics of Marine Vehicles, Performance of Marine Vehicles at Sea, Marine Systems, Ocean Engineering Structures and Vehicles, Marine Construction Techniques, Ship Hydromechanics, Computer applications in Marine Technology, Project Work)
1986	1989	Indian Institute of Technology	Madras, India	Ocean Engineering Core Courses: (Advanced wave dynamics, Analysis of Ocean Structures, Advanced Fluid Dynamics, Partial Differential Equations and Applications)

**PH.D THESIS TITLE**

**DYNAMIC PRESSURES ON LARGE VERTICAL CYLINDERS DUE TO REGULAR AND RANDOM WAVES**

## PROFESSIONAL BACKGROUND

### A. EMPLOYMENT HISTORY

Time		Position	Name/Place of the Institution
From	To		
July 1989	January 1990	Senior Project Officer Grade II	Indian Institute of Technology, Madras, INDIA
March 1990	May 1990	Senior Project Officer Grade I	Indian Institute of Technology, Madras, INDIA
May 1990	February 1994	Lecturer	Department of Ocean Engineering, Indian Institute of Technology, Madras, INDIA
February 1994	September 2000	Assistant Professor	Department of Ocean Engineering, Indian Institute of Technology, Madras, INDIA
November 1996	October 1998	Alexander von Humboldt Post Doctoral Research Fellow	TU Braunschweig, Germany
September 2000	January 2005	Associate Professor	Department of Ocean Engineering, IIT Madras, INDIA
May 2003	March 2006	Research Scientist (Grade 17)	Coastal & Air Pollution Department, Kuwait Institute for Scientific Research, Kuwait
April 2006	March 2009	Research Scientist (Grade 18)	Coastal & Air Pollution Department, Kuwait Institute for Scientific Research, Kuwait
October 2010	31 March 2014	Program Manager- Coastal Management Program	Kuwait Institute for Scientific Research, Kuwait
April 2009	Till date	Senior Research Scientist (Grade 19)	Coastal Management Program, Kuwait Institute for Scientific Research, Kuwait

## B. NON-SCIENTIFIC ACTIVITIES

Duration		Position	Name/Place of the Institution
From	To		
June 1983	May 1984	Institute Captain - Volley Ball Team	Government College of Technology, Coimbatore, INDIA
August 1984	May 1985	Institute Captain - Weight Lifting Team	Indian Institute of Technology, Kharagpur, INDIA
July 1985	December 1985	Institute Captain - Kabaddi Team	Indian Institute of Technology, Kharagpur, INDIA
July 1986	June 1987	Institute Captain - Weight Lifting Team	Indian Institute of Technology, Madras, INDIA
July 1988	June 1989	Institute Captain - Kabaddi Team	Indian Institute of Technology, Madras, INDIA
June 1992	September 1992	Pre-Commission Senior Division Course to become Commissioned officer (Pilot Officer Rank)	Air Force Administrative College, Coimbatore, INDIA
September 1992	Till Date	Associate National Cadet Corps Officer (Part-Time Duty)	National Cadet Corps, Indian Institute of Technology, Madras, INDIA
September 1993	August 1994	Sports Secretary	Staff Club, Indian Institute of Technology, Madras, INDIA
December 1994	December 1994	Contingent Captain, Inter IIT Staff Sports Team	IIT, Madras, INDIA
August 1995	July 1996	General Secretary	Staff Club, Indian Institute of Technology, Madras, INDIA
March 1999	Feb. 2003	Joint Secretary	Humboldt Club MADRAS
December 2000	-	Contingent Captain, Inter IIT Staff Sports Team	IIT Madras

January 2001	-	Chairman, Security Committee SAARANG 2001	IIT Madras
Sept 2001	August 2002	Vice President	Staff Club, IIT Madras
October 2001	Sept. 2002	Secretary	Faculty Association, IIT Madras
Jan 2002	Feb. 2003	Advisor (Sports)	IIT Madras
Nov 2001	June 2002	Executive Council Member	Vana Vani Metriculation School, IIT Madras Campus
2002	-	Chairman, Security Committee, Saarang 2002	IIT Madras
2003	-	Chairman, Security Committee, SAARANG 2003	IIT MADRAS
April 2012	March 2013	Executive Committee Member, Institute of Engineers India, Kuwait Chapter	Kuwait
January 2013	Dec. 2013	Vice President, Tamilnadu Engineers Forum, Kuwait	Kuwait
April 2013	August 2014	Board Member, Indian Community Schools, Kuwait	Kuwait
April 2014	August 2014	Head, New School Construction Committee, Indian Community School, Kuwait	Kuwait

## PUBLICATIONS

### I. INTERNATIONAL JOURNALS

#### 1. PAPERS PUBLISHED

1. Sundar, V., **Neelamani, S.** and Ramachandran, C. (1988) "Effect of a Base Structure on the Wave Forces and Pressure on a Vertical Cylinder". **OCEAN ENGINEERING**, Volume 15, No.4, pp.359-371.
2. **Neelamani, S.**, Sundar, V. and Vendhan, C.P. (1989). "Wave Induced Dynamic Pressures on a Vertical Cylinder in the Diffraction Regime". **JOURNAL OF HYDRAULIC RESEARCH**. Volume 27, No.5, pp.637-650.
3. **Neelamani, S.**, Sundar, V. and Vendhan, C.P. (1989). "Dynamic Pressure Distribution on a Cylinder Due to Wave Diffraction". **OCEAN ENGINEERING**, Volume 16, No.4, pp.343-353.
4. **Neelamani, S.**, Sundar, V. and Vendhan, C.P. (1989). "Dynamic Pressures on a Large Vertical Cylinder Due to Random Waves". **COASTAL ENGINEERING**, Volume 13, pp.83-104.
5. **Neelamani, S.**, Sundar, V. and Vendhan, C.P. (1992). "Diffracted Wave Field and Dynamic Pressures Around a Vertical Cylinder". **OCEAN ENGINEERING**, Volume 17, No.1/2, pp.125-154.
6. **Neelamani, S.** and Reddy, M.S. (1992). "Wave Transmission and Reflection Characteristics of a Rigid Surface and Submerged Horizontal Plate". **OCEAN ENGINEERING**, Volume 19, No.4, pp.327-341.
7. Reddy, M.S., and **Neelamani, S.** (1992). "Wave Transmission and Reflection Characteristics of a Partially Immersed Rigid Vertical Barrier". **OCEAN ENGINEERING**, Volume 19, No.3, pp.313-325.
8. **Neelamani, S.**, Sundar, V., Bharatkumar, B.H. and Mahadevan, R. (1993). "Flume Confinement Effect on Wave Induced Dynamic Pressures on Twin Tandem Cylinders". **OCEAN ENGINEERING**, Volume 20, No.3, pp.313-337.
9. Thiruvankatasamy, K. and **Neelamani, S.** (1997). "On the efficiency of wave energy caissons in array". **APPLIED OCEAN RESEARCH**, Vol.19, pp. 61 - 72.
10. **Neelamani, S.**, Schuettrumpf, H., Muttray, M. and Oumeraci, H. (1999). "Prediction of Wave Pressures on Smooth Impermeable Seawalls". **OCEAN ENGINEERING**, Volume 26, pp.739 - 765.

11. **Neelamani, S.**, Koether, G., Schuettrumpf, H., Muttray, M. and Oumeraci, H. (2000). "Wave Forces on and Water Surface Fluctuations Around a Vertical Cylinder Encircled by a Perforated Square Caisson". **OCEAN ENGINEERING**, Volume 27. pp. 775-800.
12. **Neelamani, S.**, and Rajendran, R. (2001). "Wave interaction with T-type breakwaters". **OCEAN ENGINEERING**, Volume 29/2. pp. 151-175.
13. **Neelamani, S.**, and Vedagiri, M. (2001). "Wave interaction with partially immersed twin breakwaters". **OCEAN ENGINEERING**, Volume 29/2. pp. 215-238.
14. **Neelamani, S.**, and Rajendran, R. (2002). "Wave interaction with  $\perp$ -type breakwaters". **OCEAN ENGINEERING**, Vol. 29, pp.561-589.
15. **Neelamani, S.**, Uday Bhaskar, N. and Vijayalakshmi, K. (2002). "Wave forces on a Seawater Intake Caisson". **OCEAN ENGINEERING**, Vol. 29, pp.1247-1263.
16. **Neelamani, S.** (2002). "A decade of wave power development in india – the challenges". **MARINE TECHNOLOGY SOCIETY JOURNAL**, Vol. 36, No.4, Winter 2002/2003, pp. 59-73.
17. **Neelamani, S.**, and Muni Reddy, M.G. (2002). "Wave forces on a vertical cylinder defenced by a perforated vertical and inclined barriers". **INDIAN JOURNAL OF MARINE SCIENCES**, Vol. 31 (3), pp.179-187.
18. **Neelamani, S.**, Ramachandra Rao, Ch., and Narasimha Rao, S. (2003). "Wave loads on open sea mooring dolphin with vertical cylinders due to regular waves". **INDIAN JOURNAL OF MARINE SCIENCES**, Vol. 32 (4), pp.305-313.
19. Vijayakumar, A., **Neelamani, S.** and Narasimha Rao, S. (2003). "Wave Pressures and Uplift Forces on and Scour around Submarine Pipelines in Clayey Soil". **OCEAN ENGINEERING**, Vol. 30, pp. 271 – 295.
20. **Neelamani, S.**, and Sandhya, N. (2003). "Wave reflection characteristics of plane, dentated and serrated seawalls". **OCEAN ENGINEERING**, Vol. 30, pp. 1507– 1533.
21. Vijayakrishna Rapaka, E., Natarajan, R., and **Neelamani, S.** (2004). "Experimental investigation on the dynamic response of a moored wave energy device under regular sea waves." **OCEAN ENGINEERING**, Volume 31, Issues 5-6, April 2004, pp.725-743.
22. **Neelamani, S.**, and Sandhya, N. (2004). "Wave reflection, run-up, run-down and pressures on plane, dentated and serrated seawalls". **COASTAL ENGINEERING JOURNAL**, Japan Society for Civil Engineers, Vol. 46, No.2, pp. 141-169.
23. **Neelamani, S.** (2004). "Subareal random wave pressure and layer thickness on impermeable seawalls". **OCEAN ENGINEERING**, Vol. 31, Issue 13, Sept. 2004, pp.1601-1621.

24. **Neelamani, S.** and Prasad Raju, P.V. (2004). "Wave interaction with parabolic corrugated and perforated wave absorbers". **JOURNAL OF HYDRAULIC ENGINEERING**, Indian Society for Hydraulics, Vol.10, No.1, March 2004, pp.19-32.
25. Munireddy, M.G., and **Neelamani, S.** (2004). "Wave pressure reduction on vertical seawalls / Caisson due to an offshore breakwater". **INDIAN JOURNAL OF MARINE SCIENCES**, Vol.33 (4), December 2004, pp.329-337.
26. **Neelamani, S.** (2005). Subareal wave pressures, layer thicknesses, run-up and run-down velocity on sea walls. **INDIAN JOURNAL OF MARINE SCIENCES**, Vol.34 (3), September 2005, pp.299-309.
27. Munireddy, M.G., and **Neelamani, S.** (2005). Performance of an offshore Low-Crested Breakwater as a Rehabilitation Structure, **JOURNAL OF HYDRAULIC ENGINEERING**, Indian Society for Hydraulics, Vol.11, No.2, September 2005, pp.41-57.
28. **Neelamani, S.**, and Sandhya, N. (2005). "Surface roughness effect of vertical and sloped seawalls on incident random wave fields". **OCEAN ENGINEERING**, Vol. 32, Issue 3, pp.395-416.
29. Muni Reddy, M.G., and **Neelamani,S.** (2005). "Hydrodynamic studies on vertical seawall defenced by an offshore low-crested breakwater". **OCEAN ENGINEERING**, Volume 32, Issues 5-6, April 2005, Pages 747-764.
30. Vijayakumar.A, **Neelamani,S.** and Narasimha Rao,S. (2005). "Wave interaction with a submarine pipeline in clayey soil due to random waves". **OCEAN ENGINEERING**, Volume 32, pp.1517-1538.
31. Thiruvenkatasamy, K., **Neelamani, S.**, and Michio Sata. (2005). "Non-breaking wave forces on MOWC wave power caisson". **JOURNAL OF WATERWAY, PORT, COASTAL AND OCEAN ENGINEERING**, Vol. 131, No. 2, March/April 2005, pp. 77-84.
32. Vijaya kumar, A. and **Neelamani, S.** (2005). Experimental studies on Wave induced Scour around, pressures and forces on buried and unburied pipeline. **OCEANIC ENGINEERING INTERNATIONAL**, Canada, Vol.9, No.2, pp.54-65.
33. **Neelamani,S.** and Gayathri, T. (2006). "Wave interaction with twin plate wave barrier". **OCEAN ENGINEERING**, Volume 33, Issues 3-4, March 2006, pp. 495-516.
34. **Neelamani,S.** and Sandhya, N. (2006). Wave Run-Up and Run-Down on Plane, Dentated and Serrated Seawalls. **SHIPSTECHNIC**, Society of Naval Architecture Students, Dept. of Ship Technology, Cochin University of Science & Technology, India, Vol. XXII, pp.31-45.



35. **Neelamani, S.,** Natarajan, R. and Prasanna, D.L. (2006). Wave Interaction with Floating Wave Energy Caisson Breakwater. **JOURNAL OF COASTAL RESEARCH**, SI 39, Proceedings of the 8<sup>th</sup> International Coastal Symposium, Itajai, SC, Brazil, ISSN 0749-0208, pp.745-749.
36. **Neelamani, S.,** and Sundaravadivelu, R. (2006). Erosion Protection of Pondicherry Coast. **JOURNAL OF COASTAL RESEARCH**, SI 39, Proceedings of the 8<sup>th</sup> International Coastal Symposium, Itajai, SC, Brazil, ISSN 0749-0208, pp.880-883.
37. Munireddy, M.G., and **Neelamani, S.** (2006). Wave Interaction with Caisson defenced by an Offshore Low-Crested Breakwater. **JOURNAL OF COASTAL RESEARCH**, SI 39, Proceedings of the 8<sup>th</sup> International Coastal Symposium, Itajai, SC, Brazil, ISSN 0749-0208, pp.1767-1770.
38. **Neelamani, S.** and Sumalatha, B.V. (2006). Wave reflection, run-up, run-down and pressures on seawalls defenced by an Offshore Breakwater. **JOURNAL OF INDIAN INSTITUTE OF SCIENCE**, India, Jan-Feb.2006, Vol.86, pp.15-31.
39. **Neelamani, S.,** Al-Salem, K. and Rakha, K. (2006). "Extreme Water Waves in the UAE Territorial Waters". **EMIRATES JOURNAL FOR ENGINEERING RESEARCH**, Vol.11, No. 2, pp.37-46.
40. Vijayalakshmi, K., **Neelamani, S.,** Sundaravadivelu, R. and Murali, K. (2007). "Wave Runup on a Concentric Twin Perforated Circular Cylinder". **OCEAN ENGINEERING**, Vol.34, Issue 2, pp.327-336.
41. **Neelamani, S.,** Al-Salem, K. and Rakha, K. (2007). "Extreme Waves for Kuwaiti Territorial Waters". **OCEAN ENGINEERING**, Vol. 34, Issue 10, July 2007, pp.1496-1504.
42. Shanmugam, P. **Neelamani, S.,** Ahn, Y.H., Philip, L., and Hong, G.H. (2007). "Assessment of Level of Coastal Marine Pollution of Chennai City, Southern India". **WATER RESOURCES MANAGEMENT**, Vol. 21, No. 7, July 2007, pp.1187-1206.
43. **Neelamani, S.,** Al-Awadi, L., Al-Ragum, A., Al-Sudairawi, M. (2007). Extreme wind speed from different directions in Kuwait, **WIND ENGINEERING**, Vol.31, No.3, pp.139-148.
44. Al-Nassar, W., **Neelamani, S.,** Al-Banaa, K., Al-Ragum, A., and Ljubic, J. (2007). Wave action on mild sloped offshore breakwater for the protection of a promonade. **JOURNAL OF COASTAL RESEARCH**, Special Issue 50, ISSN 0749.0208, pp.195-200.
45. **Neelamani, S.,** Al-Salem, K. and Rakha, K. (2007). Extreme Waves in the Arabian Gulf. **JOURNAL OF COASTAL RESEARCH**, Special Issue 50, ISSN 0749.0208, pp.322-328.

46. Rakha K.A., K. Al-Salem, and **Neelamani, S.** (2007). Hydrodynamic Atlas for the Arabian Gulf. **JOURNAL OF COASTAL RESEARCH**, Special Issue 50, ISSN 0749.0208, pp.550-554.
47. Rakha, K.A., Al-Salem, K. and **Neelamani, S.** (2007). "Hydrodynamic Atlas for Kuwaiti Territorial Waters". **KUWAIT JOURNAL OF SCIENCE AND ENGINEERING**, Vol. 34 (1A), pp.143-156.
48. Vijayalakshmi, K., Sundaravadivelu, R., Murali, K., and **Neelamani, S.** (2007). An Experimental study on regular wave loads on a perforated circular caisson and suction pipe configuration. **THE JOURNAL OF OCEAN TECHNOLOGY**, Vol. 2, No. 2, pp.50-63.
49. **Neelamani, S.** (2007). Effect of threshold values on the predicted extreme waves-A case study in the UAE territorial waters. **EMIRATES JOURNAL FOR ENGINEERING RESEARCH** , 12 (3), pp.77-93.
50. Vijayalakshmi, K., Sundaravadivelu, R., Murali, K., and **Neelamani, S.** (2008). Hydrodynamics of a Concentric Twin Perforated Circular Cylinder System. **JOURNAL OF WATERWAY, PORT, COASTAL AND OCEAN ENGINEERING**, ASCE, Vol. 134, Issue 3, May 2008, pp. 166-177.
51. **Neelamani, S.** (2008). Influence of threshold value on the predicted extreme waves in the Arabian Gulf. Invited article for the Volume XXIV of **SHIPSTECHNIC**, Society of Naval Architecture students, Department of Ship technology, Cochin University of Science and Technology, Cochin, India.
52. **Neelamani, S.**, Al-Salem, K. and Rakha, K. (2009). "Extreme Waves in the Arabian Gulf". **THE JOURNAL OF ENGINEERING RESEARCH**, Sultan Qaboos University, Oman, Vol. 6, No. 1, pp.21-36.
53. Rakha, K., **Neelamani, S.**, Al-Banaa, K., and Al-Salem, K. (2009). Wave Atlas for the Arabian Gulf. **NONLINEAR WAVE DYNAMICS. SELECTED PAPERS OF THE SYMPOSIUM HELD IN HONOR OF PHILIP L-F LIU'S 60<sup>TH</sup> BIRTHDAY**, Edited by Patrick Lynett, World Scientific, Singapore, pp. 267-279. (KISR 9849)
54. **Neelamani, S.** (2009). Influence of Threshold Value on Peak Over Threshold Method on the Predicted Extreme Significant Wave Heights in Kuwaiti Territorial Waters. Proceedings of the 10<sup>th</sup> International Coastal Symposium ICS 2009, 13-18 April 2009, Lisbon, Portugal, **JOURNAL OF COASTAL RESEARCH**, Special Issue 56, Vol. 1, pp.564-568.
55. Al-Ragum, A., and **Neelamani, S.** (2009). Design and development of crater array wave barriers. Proceedings of the 10<sup>th</sup> International Coastal Symposium ICS 2009, 13-18 April 2009, Lisbon, Portugal, **JOURNAL OF COASTAL RESEARCH**, Special Issue 56, Vol. 1, pp.458-462.

56. **Neelamani, S.**, Al-Awadi, L., Al-Ragum, A., and Al-Sudairawi, M. (2009). "Probable extreme wind speed at different locations and from different directions in Kuwait". **INTERNATIONAL JOURNAL OF EARTH SCIENCE AND ENGINEERING**, Published by CAFET-INNOVA Technical Society, India, ISSN 0974-5904, Vol.2, No.3, July 2009, pp.185-195. (KISR 9676) (KISR 9812)
57. **Neelamani, S.** and Reddy, D.V. (2009). Challenges and Recent Developments in the Ocean and Coastal Engineering. **INTERNATIONAL JOURNAL OF EARTH SCIENCE AND ENGINEERING**, Published by CAFET-INNOVA Technical Society, India, ISSN 0974-5904, Editorial Note, Vol.2, No.4, August 2009, 15 pages.
58. **Neelamani, S.** and Al-Ragum, A. (2009). Wave dissipation characteristics of arrays of crater type barriers. **INDIAN JOURNAL OF MARINE SCIENCES**, Vol.38, No.4, Dec 2009, pp. 418-422. (KISR 9714)
59. Al-Hulail, F. and **Neelamani, S.** (2010). Possible physical solutions for preventing the ingress of Marine Lives into the Seawater Intake Systems. **INTERNATIONAL JOURNAL OF EARTH SCIENCE AND ENGINEERING**, Published by CAFET-INNOVA Technical Society, India, ISSN 0974-5904, Vol.3, No.1, Feb. 2010, pp.73-84. (KISR 9850).
60. **Neelamani, S.** and Saif ud din. (2010). Evolution of Coast in the Vicinity of a Seawater Intake Structure in Kuwait. **INTERNATIONAL JOURNAL OF IMAGING**, 2010 Spring, Special Issue on ARSiCOE (Applied Remote Sensing in Coastal and Ocean Engineering), Vol. 3, Issue No. S10, pp. 3-22. (KISR 9664).
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63. **Neelamani, S.** , Saif ud din and Anbazagan, S. (2011). Kuwait coastline Evolution during 1989-2007. Book chapter in **GEOINFORMATICS IN APPLIED GEOMORPHOLOGY**, Chapter 5, CRC Press, Taylor & Francis, USA, pp. 87-104.
64. **Neelamani, S.**, and **Al-Awadi, L.** (2011). Extreme winds in Kuwait including the effect of Climate change. A book chapter for the book titled **FUNDAMENTAL AND ADVANCED TOPICS IN WIND POWER**, Chapter 5, INTECH, Croatia, pp.89-112. (KISR 10519).
65. **Neelamani, S.** (2011). Some Metocean aspects for the selection of suitable Mariculture sites in the Arabian Gulf. A book chapter for the book titled **AQUACULTURE IN THE**

**MIDDLE EAST AND NORTH AFRICAS - STATUS AND RESEARCH NEEDS**, Chapter 7, Nova Science Publishers, New York, USA, 2011, pp. 83-97. (KISR 10466).

66. Al-Sudairawi, M., **S. Neelamani** and A. N. Al-Dabbous (2011). Probability and Statistical Analysis of Total Suspended Particulate in Kuwait. **INTERNATIONAL JOURNAL OF EARTH SCIENCE AND ENGINEERING**, Vol. 4, No. 5, October 2011, pp.762-776. (KISR 10713).
67. **Neelamani, S.** and K. Al-Banaa (2011). Wave Force Variation due to Burial of Submarine Pipeline in Random Wave Fields. **INTERNATIONAL JOURNAL OF EARTH SCIENCE AND ENGINEERING**, Vol. 4, No. 4, August 2011, pp. 601-613. (KISR 10714).
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74. **Neelamani, S.** and Al-Banaa, K. (2012). Minimum Safe Burial Depth of Submarine Pipelines in Well Graded and High Hydraulic Conductivity Sand. **COASTAL ENGINEERING JOURNAL**, Japan Society for Civil Engineers, Japan, Vol. 54, No. 2, 2012, 32 pages.

75. Neelamani, S. and Saif uddin. (2013). Erosion and Accretion Index for Kuwait Coast. **INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH**, Vol. 7 No.3: pp. 679-684.
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**Authors:** S. Neelamani and K. Al-Banaa

**Date of submission of the invention disclosure record:** May 2012.

**2. Title of the Invention:** Array of Slotted Vertical Wall as Wave Energy Dissipater for Inner Harbor

**Authors:** S. Neelamani, Altaf Taqi and K. Al-Salem

**Date of submission of the invention disclosure record to KISR Marketing Dept.:**  
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56. Khaled Al-Salem, **S. Neelamani**, Fatma Al-Essa, Altaf Taqi. (2013). Physical Model Study on Wave Reflection by Harbor Structures for Validating KISR's Wave Agitation Model - Phase I, **EC089K. Progress Report No. 1**, December 2012. (KISR 11916).
57. Khaled Al-Salem, **S. Neelamani**, Fatma Al-Essa, Altaf Taqi. (2013). Physical Model Study on Wave Reflection by Harbor Structures for Validating KISR's Wave Agitation Model - Phase I, **EC089K. Progress Report No. 2**, June 2013. (KISR 12001).

58. Khaled Al-Salem, **S. Neelamani**, Fatma Al-Essa, Altaf Taqi. (2014). Physical Model Study on Wave Reflection by Harbor Structures for Validating KISR's Wave Agitation Model - Phase I, **EC089K. Final Report**, KISR 12252, JULY 2014.
59. **Neelamani**, S., M. Al-Sudairawi, A. Al-Dousari, A. Al-Homood, M. Ahmed, N. Al-Dousari and M. Abdullah. (2014). Probability and Statistical Analysis of Total Suspended Atmospheric Particulate Matter in Kuwait, **EC082C, Progress Report No. 1**, August 2014, KISR 12278.
60. **Neelamani**, S., M. Al-Sudairawi, A. Al-Dousari, A. Al-Homood, M. Ahmed, N. Al-Dousari and M. Abdullah. (2015). Probability and Statistical Analysis of Total Suspended Atmospheric Particulate Matter in Kuwait, **EC082C, Final Report**, KISR 12584, February 2015.

**THESIS GUIDANCE**

SL.NO	NAME OF THE STUDENT	DEGREE	TITLE OF THE THESIS	YEAR OF COMPLETION	Co-Guide
1	M.S. Reddy	M.Tech.	Wave Transmission and Reflection Characteristics of a Partially Submerged Vertical and Immersed Horizontal Barrier	December 1990	-
2	Jaya kumar	Ph.D.	Wave Forces on Oscillating Water Column Type Wave Energy Caisson – An Experimental Study	April 1994	Prof. V.S. Raju
3	K.Thiruvenkatasamy	M.S.	An Experimental Investigation on Wave Forces, Air Pressures and Spacing of Oscillating Water Column Wave Energy Caisson in Array	Sept. 1994	-
4	V.S. Vinod	M.S.	Hydrodynamic Studies on A Wave Energy Caisson	August 1998	Dr. R. Natarajan
5	S.Anbukumar	M.Tech	Wave Transmission and Reflection Characteristics of a Caisson Type Breakwater Supported on Piles	December 1996	-
6	S.Vijayasimhan	M.Tech	Analysis of Transit	December	-

			Container Terminal for Tuticorin Port	1998	
7	M.Vedagiri	M.Tech	Wave Transmission and Reflection Characteristics of partially immersed Single and Twin Vertical Wall Type Breakwaters	December 1999	-
8	R.Rajendran	M.Tech	Wave Transmission and Reflection Characteristics of "T" type and inverted "T" type breakwater	December 1999	-
9	N.Uday Bhaskar	M.Tech	Wave loads on a perforated caisson type sea water intake structures	December 2000	-
10	A.Vijaya Kumar	M.S.	Dynamic Pressures, Forces and Scour around pipelines resting in cohesive soils	October 2001	Prof. S. Narasimha Rao
11	Ch. Ramachandra Rao	M.S.	Studies on Open Sea Mooring Dolphins	March 2003	Prof. S. Narasimha Rao
12	E.Vijayakrishna Rapaka	Ph.D.	Hydrodynamics of Floating Wave Energy Caisson Breakwaters	July 2006	Prof. R. Natarajan
13	M.G.Muni Reddy	Ph.D.	Hydrodynamic Studies on Vertical Seawalls Fronted by Defence Structures	May 2005	Prof. S. A. Sannasiraj
14	N.Sandhya	M.S.	Hydrodynamics of Sloped Seawalls with Energy	Sept. 2002	-

			Dissipators		
15	B.V.Sumalatha	M.S.	Scour at the Toe of Sloped Seawalls with Energy Dissipators	Dec. 2002	-
16	K.Vijayalakshmi	Ph.D.	Hydrodynamics of Seawater Intake Structures	March 2005	Prof. R. Sundaravadivelu and Prof. K. Murali
17	Tella Gayathri	M.S.	Wave Interaction with horizontal plate array type wave barriers	August 2003	Prof. R. Usha
18	P.Baskaran	M.Tech.	Wave loads on a Mooring Dolphin with battered piles	January 2002	-
19	Prasad Raju	M.Tech.	Wave interaction with parabolic, corrugated and perforated wave absorbers	January 2002	-
20	Prabal Datta	M.Tech.	Fluid interaction with horizontal plates	January 2002	Prof. Satyajit Ray
21	V. Hari Prasad	M.S.	Wave interaction with horizontal pipes kept near the water surface	April 2005	Prof. R. Sundaravadivelu
22	D.L.Prasanna	M.Tech	Hydrodynamics of a Floating Wave Energy Caisson Array	Dec. 2002	Prof. R. Natarajan
23	J.Dayalan	M.Tech.	Assessment of pollution level in Chennai Coastal waters	Jan. 2003	-
24	I.T. Ilangovan	M.Phil.	Study of Customer Satisfaction in Corporate Banking Sector-A study of Burgan Bank and National Bank of Kuwait in Kuwait	June 2012	-

25	Othman Al-Kandari	MS	Feasibility study for wind power generation for some of the islands in the Kuwaiti Territorial Waters	Sept. 2012	
26	Ahmed Asa'ad	MSc	Wave Induced Loads on Slotted Vertical Barriers	Nov. 2013	Prof. M. AlKhalidi
27	Altaf Taqi	MSc	Experimental investigation to assess the wave energy dissipation of arrays of slotted vertical walls	May 2014	Prof. M. AlKhalidi

### **GUIDANCE OF M.Tech. DESIGN PROJECTS**

SL. NO	NAME OF THE STUDENT	TITLE OF THE THESIS	YEAR OF COMPLETION
1	V.Mallikarjuna Rao	Design of Offshore Detached Breakwater for the Protection of North Madras Coast from Erosion	April 1995
2	S.Natarajan	Design of a Submarine Pipeline For the Ennore Coast for Import of LPG	April 1995
3	Ch.Krishna Kishor	Design of Groin Field for the Shoreline Stabilisation of North Madras Coast	April 1996
4	K.P.Srinivas Rao	Design of Caisson type of Breakwaters for the Ennore Satellite Port	April 1996
5	M.Vedagiri	Design of Rubble mound breakwater – Madras Port outer Harbour Extension	April 1999
6	R Rajendran	Design of Groin Field for protecting the North Madras against Erosion	April 1999
7	N.Uday Bhaskar	Design of Submarine pipeline for discharging North Chennai Sewage	May 2000

8	P.Baskaran	Design of Groin Field for Stabilisation of Southern side of Ennore Port	April 2000
9	J.Dayalan	Design of Groin Field to gain Sandy Beach in Pondicherry Coast	May 2002



**COURSES TAUGHT FOR B.Tech., M.Tech., M.S. and Ph.D. SCHOLARS FROM 1990  
ONWARDS**

1. Wave Hydrodynamics
2. Advanced Wave Dynamics
3. Physical Oceanography
4. Ocean Energy
5. Ship Hydrodynamics
6. Port & Harbour Structures
7. Statics and Dynamics of Marine Vehicles
8. Coastal Engineering

**PROJECTS COMPLETED (IN INDIA)**

<b>Title of the Project</b>	<b>Sponsoring Agency</b>	<b>Values in Lakhs of Indian Rupees (1 US \$ = 55 Rs)</b>	<b>Position</b>
Sea Trial of a 150 kW Wave Power Plant off Trivandrum Coast (Co-Ordinator : Prof. V.S. Raju)	Department of Ocean Development	400.0	Joint Project Co-Ordinator
Site Specific Studies and Optimisation of Wave Energy Systems as Breakwater	-Do-	10.0	Joint Project Co-Ordinator
A study on the level of pollution of Chennai coastal water due to wastewater disposal	Water Resource Organisation, PWD, Tharamani, CHENNAI	5.64	Project Co-Ordinator
Studies on Energy Dissipating Sloped Seawalls as Shore Protection Structures	MHRD, Govt. Of India	12.00	Project Co-Ordinator

**PROJECTS COMPLETED (IN KUWAIT)**

<b>Title of the Project</b>	<b>Sponsoring Agency</b>	<b>Values in Kuwaiti Dinar</b>	<b>Position</b>
Az-Zour North Hydraulic Studies & Marine Environment Impact Assessment	Ministry of Electricity and Water	284,500/-	Task Leader
Stability, Water Particle Kinematics And Overtopping Study For The Proposed Offshore Breakwater In Al-Khiran For Phase A2	La'ala Al-Kuwait Real Estate Company	64,240/-	<b>Project Leader</b>
Interactive Coastal Information System for Kuwait's Territorial Waters, Phase I: Hindcasting of Waves, Water Levels, and Currents	Kuwait Foundation for the Advancement of Sciences through Warba Insurance Company	85,860/-	Task Leader
Long Term Prediction of Winds for Kuwait (EC032C)	Kuwait Foundation for the Advancement of Sciences	30,210/-	<b>Project Leader</b>
Integrated Systems for Flood Management in Shuaiba area and its Vicinities	Council of Ministers	74,630/-	Task Leader
Alternatives to Deal with the Clogging of the Doha West Power Plant Water Intake by Jelly Fish, Algae, and Other Marine Life	MEW	66,800/-	<b>Principal Investigator</b>
Design and Development of a Wave Absorber System for the Wave Flume Facility in the Hydraulic Lab of CAD, KISR	KISR, Kuwait	2,560/-	Activity Leader
Calibration of Hydraulic instruments for Tide Measurement	KISR, Kuwait	5,350/-	Activity Leader
Hydrodynamic Study on the Al-Khiran Offshore Breakwater with Seabee Armour Units	KISR, Kuwait	4,625/-	Activity Leader

Coastline Evolution of Kuwait Using Remote Sensing Techniques (EC022C)	Kuwait Foundation for the Advancement of Sciences	73,390/-	<b>Project Leader</b>
Numerical Modeling and Field Data Collection for Phases A3, A4, and A5 of Khiran Pearl City	La'ala Al-Kuwait Real Estate Company	92,520/-	Task Leader
Feasibility For A Submarine Pipeline Type Seawater Intake Structure at Subiya Power Plant (EC068P)	Ministry of Energy and Water, Kuwait	34,030/-	<b>Project Leader</b>
Spatial and Temporal distribution of persistent organic pollutants (POPs) in coastal marine sediments in Kuwait	Kuwait Foundation for the Advancement of Sciences	106,940/-	Task Leader
Impacts of desalination plant effluents discharge on the marine environment in Kuwait	Environment Public Authority, Kuwait		Task Leader
Effect of threshold value on the predicted extreme waves in Kuwaiti territorial waters	KISR, Kuwait	4,640/-	<b>Activity Leader</b>
Optimum Burial Depth of Submarine Pipelines for Kuwaiti Marine Environmental Conditions (EC023C)	Kuwait Foundation for the Advancement of Sciences	105,220/-	<b>Project Leader</b>
Development of a Feasible Prototype Floating Breakwater For Kuwaiti Marine Conditions (EC037C)	Kuwait Foundation for the Advancement of Sciences	89,640/-	<b>Project Leader</b>
Ecological Assessment of The Artificial Reef Deployed by the Kuwait Oil Company (FM072C)	KOC	132,072/-	Task Leader
Assessment of indoor organic pollutants level in selected schools (EC045C)	KFAS	57.920/-	Task Leader
Wave Design Study at Az-Zour Area.	Hyundai Heavy	9,848/-	Task Leader

(EC018S)	Engineering, Korea.		
Extreme Wind Atlas for Kuwait (EC078C)	Kuwait Foundation for the Advancement of Sciences	69,740/-	<b>Project Leader</b>
Physical Model Study on Wave Reflection by Harbor Structures for Validating KISR's Wave Agitation Model - Phase I (EC089K)	KISR	40,110/-	<b>Principal Investigator</b>
Probability and statistical analysis of Total Suspended Particulate matter in Kuwait (EC082C)	Kuwait Foundation for the Advancement of Sciences	58,380/-	<b>Project Leader</b>

**PROJECTS ONGOING (IN KUWAIT)**

<b>Title of the Project</b>	<b>Sponsoring Agency</b>	<b>Values in Kuwaiti Dinar</b>	<b>Position</b>
Investigation on the Coastal Engineering Issues for the Rehabilitation of Failaka Island Marina (EC098K)	Ministry of Communication, Kuwait	30,000/-	<b>Project Leader</b>
EIA of Failaka marina	Ministry of Communication, Kuwait	20,000/-	Task Leader
The effects of Developments in Mesopotamian Marshland on Boubyan and Warba Islands	Kuwait Foundation for the Advancement of Sciences	KD.207,160/- for KISR, Kuwait and US\$ 473,939/- for University of Miami, USA	Task Leader
Rehabilitation of Kubbar Island's Coral Reef Utilizing Artificial Reef" (FM090C)	Kuwait Oil Company	KD. 250,000/-	Task Leader

**PROJECT PROPOSALS SUBMITTED FOR FUNDING (IN KUWAIT)**

<b>Title of the Project</b>	<b>Sponsoring Agency</b>	<b>Values in Kuwaiti Dinar</b>	<b>Position</b>
Consultancy Services for Development of an Innovative Flexible Tube Breakwater.	KOC	29,970/-	<b>Project Leader</b>
Protection of Quro Island against natural erosion using Grip Reef units	KISR	70,060/-	<b>Principal Investigator</b>

**PROJECT PROPOSALS TO BE SUBMITTED FOR FUNDING (IN KUWAIT)**

<b>Title of the Project</b>	<b>Sponsoring Agency</b>	<b>Values in Kuwaiti Dinar</b>	<b>Position</b>
Design and Development of Slotted Vertical Wave Barriers	Kuwait Foundation for the Advancement of Sciences	75,197/-	<b>Project Leader</b>
Controlling shifting sands using Eco-friendly materials (pilot site at Al Wafra agricultural area)	Public Authority for Agriculture and Fisheries Resources	143,580/-	<b>Principal Investigator</b>
Offshore Wind Energy Potential in the State of Kuwait.	KFAS	84,330/-	<b>Principal Investigator</b>
Design, Development and Prototype Testing of Wave Barriers Using Scrap Tires	KFAS	128,610/-	<b>Project Leader</b>
Atlas of Coastal Vulnerability Index (CVI) for Kuwaiti Coast	KFAS	100,650/-	<b>Project Leader</b>

**ROUTINE ANNUAL GENERAL RESEARCH ACTIVITY**

<b>Title of the Project</b>	<b>Sponsoring Agency</b>	<b>Values in Kuwaiti Dinar</b>	<b>Position</b>
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Up gradation, Regular Upkeep and Maintenance of Hydraulics Laboratory, Wind Tunnel Facility and Other Infrastructure of the Hydraulics Laboratory	KISR, KUWAIT	Every Year about 15,000/- (From 2005 to 2010)	<b>Activity Leader</b>
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**CONSULTANCY PROJECTS**

<b>SL. NO</b>	<b>CLIENT</b>	<b>TITLE OF THE PROJECT</b>	<b>YEAR</b>
1	M/s Sociedade De Fomento, Goa	Stability and Wave force Analysis of Iron Ore Storage Caisson for an Offshore Transshipment Terminal Off Goa	1990-1993
2	Larson & Toubro Ltd., Bombay	Wave Force Estimation on the Brestling Dolphin of Ethylene Jetty at Ratnagiri	1992
3	M/s CEMINDIA Ltd., Calcutta	Wave Force Estimation on the Open Sea Coal Handling System belongs to TNEB at Tuticorin, Phase I	1992-1993
4	Development Consultants Ltd., Madras	Wave Force Estimation on the Sea Water Intake Structure for Aquaculture at Nellore	1993
5	Larsen & Toubro Ltd., Bombay	Dredging and Scour Protection studies for the Western Side of L & T layout Jetty at Hazira	1993
6	M/s Periasamy & Company, Madras	Design of Monolith for Madras Port	1993-1994
7	M/s Southern LPG Ltd., Madras	Design of Submarine Pipeline and Ship Mooring Systems for Transfer of LPG/Propane from open sea moored Vessels off Pondicherry Coast	1994-1995
8	M/s Cambay Aqua Tech Ltd., Baroda	Design of Sea Water Intake Structure and Shore Protection for Aquaculture activities at Gulf of Cambay, Gujarat	1994-1995
9	Reliance Petroleum Ltd., Jamnagar, Gujarat	Environmental load assessment and general technical services for the construction of Marine Facilities for Import/Export of Petroleum Products	1994-1995
10	Southern Petrochemicals Industries Ltd., Madras	Feasibility report for Chemical Storage Terminal off Ennore Coast	1994-1995
11	West Bengal renewable Energy Development Agency	Techno Economic Feasibility study for the construction of a mini Tidal power plant at Durgaduani, Sundarban Islands, West Bengal	1995



12	M/s Simplex Concrete Piles India Ltd, Madras	Preliminary study on the design of a sea water intake system for Aquaculture to be owned by Integrated Rubian Exports Limited, Cochin.	1995
13	John Brown Engg. (INDIA) Ltd., Bangalore	Metocean Data for the operation and design of Offshore Unloading facility for E.I.D. Parry off Ennore Coast.	1995
14	Asia Foundations and Constructions Limited, Bombay	Estimation of Non Breaking wave + Current and Breaking wave forces and Moments on the Dabhol Open Sea Fuel Unloading Jetty	1995
15	Cuddalore Power Company Limited, Madras	Feasibility report for an open sea coal handling system off Cuddalore Coast	1996
16	Prof.D.V.Reddy, Florida Atlantic University, USA	Load and stability assessment of Sea water intake and Discharge Pipes	2000
17	Coastal Marine Construction & Engineering Ltd, Mumbai	Scour estimation and protection around Piles	2000
18	Southern LPG Limited, Chennai.	Advice on submarine pipeline design for LPG transfer, Roychak, Hoogly River	2000
19	Encon Services, Madras	Sea water intake system for Pipavav 615 MW CCPP of Kribbco – For ABB Alstom	2000
20	GoodEarth Maritime Ltd., Chennai	Environmental impact assessment for jetty extension at Jakhau Port, Gujarat	2001
21	Pondicherry Port, Pondicherry	Design of Groin field and artificial Nourishment Scheme for Pondicherry Coast	2001
22	Tamilnadu State Construction Corporation, Chennai	Protection of the landing jetty of Thiruvalluvar Statue, Kanniyakumari from wave loads and overtopping	2001
23	Pondicherry Port, Pondicherry	Design of Hollow Cubes for coastal Protection	2001
24	HOCHTIEF, Chennai	Vetting of breakwater design and wave force estimate on the Jetty, Mooring and Breasting Dolphin of LNG Terminal, Dahej	2001
25	L&T Ramboll, Chennai	Physical model studies on Stability of a Rubble Mound Breakwater Under Construction	2002
26	Prof. D.V.Reddy, Florida	Design of a Marine Outfall System	2002

	Atlantic University, USA		
27	WRO, PWD Madurai Region	Bathymetry survey and numerical model studies for east Enayam Kurumbanai Arokiapuram and Simon Colony	2002
28	HOCHTIEF, Chennai	Design of Cofferdam for the seawater intake structure of Kudangulam Thermal Power Project	2002
29	M/s. St. Johns Freight Systems Ltd., Tuticorin	Bathymetry Survey off Kudangulam Coast	2002
30	Port Department, Govt. of Orissa	Design of Scour Protection system for Talsari Fishery Jetty, Orissa	2002
31	Good Earth Maritime Ltd, Chennai	Bathymetry Survey off Bassein Port for design of salt handling systems	2002
32	Nirma Limited, Ahmedabad	Failure of Seawater Intake well at Bhavnagar	2003
33	Good Earth Maritime Limited, Chennai	Establishing the Design Current Velocity at Bassein Port, Vasai Creek	2003
34	Mazagon Docks Ltd., Mumbai	Technical expertise of scrutiny of technical bids	2003
35	WRO, PWD Madurai Region	Bathymetry survey and numerical model studies for Periyakadu Groin Works	2003

## **CONTINUING EDUCATION AND TRAINING PROGRAMS COORDINATED**

### **ORGANISED IN IIT MADRAS, INDIA**

1. "COASTAL AND OCEAN ENGINEERING", 4-10 November, 1991. (CEP)
2. "DESIGN OF SUBMARINE PIPELINES", 6-10 December 1999. (CEP)
3. "OCEAN DYNAMICS FOR OFFSHORE AND COASTAL ENGINEERING APPLICATIONS", 5 – 9, June 2000. (CEP)
4. "OCEAN DYNAMICS FOR OFFSHORE AND COASTAL ENGINEERING APPLICATIONS", 5 – 9, June 2000. (QIP)
5. "DESIGN OF COASTAL STRUCTURES" 4-8 December 2000. (CEP)
6. "DESIGN OF COASTAL STRUCTURES" 14-18 May 2001. (CEP)
7. "OCEAN ENGINEERING", 14-25 May 2001 (AICTE Sponsored STTP)

### **ORGANISED IN KISR, KUWAIT**

8. "DEVELOPMENTS IN THE DESIGN OF COASTAL STRUCTURES", 6-10 December 2003.
9. "ESSENCE OF COASTAL ENGINEERING", 2-6 October 2004.
10. "INTEGRATED COASTAL ZONE MANAGEMENT", 18-22 December 2004
11. "GLASS FLUME WAVE MAKER-INSTALLATION, OPERATION AND MAINTENANCE", 4-10 Sept. 2005.
12. "DESIGN OF SUBMARINE PIPELINES", 18-22 November 2006.
13. "BASIN WAVE MAKER: TRAINING ON INSTALLATION, OPERATION AND MAINTENANCE", 25-29 November 2006.
14. "COASTAL ENGINEERING AND ITS APPLICATIONS FOR KUWAITI COASTAL DEVELOPMENTS", 16-20 December 2006.
15. "DESIGN OF SUBMARINE PIPELINES", 9-13 November 2008.
16. "ALTERNATIVE ENERGY USING AIR SEAWATER TEMPERATURE DIFFERENCE", 4-8 October 2009.

17. “WIND ENGINEERING WITH SPECIAL REFERENCE TO KUWAIT”, 15-19 November 2009.
18. “DESIGN OF COASTAL STRUCTURES”, 6-10 December 2009.
19. “COASTAL ENVIRONMENT AND STRUCTURES”, 23 – 27 October 2011.
20. “DUST CHARACTERISTICS AND ANALYSIS”, 20-24 November 2011. – Delivered lectures for a full day.
21. “WIND ENGINEERING WITH SPECIAL REFERENCE TO KUWAIT”, 5- 9 Feb 2012.
22. “COASTAL ENVIRONMENT AND STRUCTURES”, 18 – 22 October 2012.
23. “COASTAL ENGINEERING – FUNDAMENTALS AND APPLICATIONS”, 6-10 January 2013.
24. “CONCRETE FLUME WAVE MAKER: TRAINING ON INSTALLATION, OPERATION AND MAINTENANCE”, 11-14 March 2013.
25. “DESIGN OF MARINE STRUCTURES”, 20-24 Oct. 2013.
26. “TECHNIQUE FOR SUCCESSFUL WRITING OF SCIENTIFIC PAPERS FOR JOURNALS”, 24 – 28 May 2015.
27. “ART OF PREPARING SUCCESSFUL RESEARCH PROPOSALS”, 18 – 22 October 2015.

**ON JOB TRAINING (OJT) ORGANISED IN KUWAIT**

<b>S. No.</b>	<b>OJT Title</b>	<b>Training Period</b>	<b>No. Of Trainees</b>
1	Calibration of Tide Gauges	15.5.2004- 19.5.2004	5
2	Physical modelling of Al-Kiran Breakwater	15.1.2005 – 23.2.2005	6
3	28 <sup>th</sup> Student Summer Training Program (SSTP28) on Coastal Engineering	26.6.2005 to 3.8.2005	6
4	Development of Logics for identification of erroneous measured Metrological data	1.11.2005 to 23.11.2005	1
5	The technique for the preparation of project reports	12.11.2005 to 26.11.2005	1
6	Stability study of Seabee Armour units of Al-Khiran Offshore Breakwater	24.12.2005 to 30.1.2006	6
7	Physical modeling in Coastal Engineering	4.1.2006 to 6.2.2006	1
8	Investigation on energy dissipation characteristics of crater array wave barriers	27.1.2007 to 7.3.2007	1
9	Extreme wind prediction technique	1.5.2007 to 15.6.2007	1
10	Wave Hydrodynamics	27.4.2008 to 29.5.2008	1
11	Marina Design-Ecole central Marseille-France	17.5.2009 to 10.9.2009	1
12	Environmental Technology Management	8.3.2009 to 28.5.2009	3
13	Environmental Technology Management-KW	5.7.2009 to 13.8.2009	4
14	Art of manuscript preparation for publication in Journals	8.11.2009 to 7.12.2009	2
15	Transforming the idea into Research proposal	15.12.2009 to 14.1.2010	2
16	Kuwaiti Marine Environment-KU	15.3.2010 to 3.6.2010	3
17	Estimation of drag force on few different leisure boats-KU	18.5.2010 to 7.6.2010	3
18	Data analysis, plotting and interpretations	25.7.2010 to 14.10.2010	1
19	Introduction to the Environment of Kuwait-KU	3.10.2010 to 13.1.2011	2
20	Extreme wave analysis using Weibull distribution-Griffith University Australia	1.12.2010 to 27.1.2011	1
21	Effect of air jet strength exited from double hull vessel-KU	9.2.2010 to 6.1.2011	3
22	Fundamentals of Coastal Engineering	01.05.2011 to 16.06.2011	1
23	Physical Modeling of Floating Breakwater	08.05.2011 to 23.06.2011	1
24	Coastal Environment-KU	25.9.2011 to 29.12.2011	
25	Technique for Extreme Wind Speed	02.10.2011 to 13.10.2011	8

	Prediction –Civil Aviation Dept., Kuwait		
26	Hands on Training on Physical modeling in Coastal Engineering	02.01.2012 to 27.02.2012	1
27	Experimental investigation on different Harbor wall configurations	25.09.2012 to 25.11.2012	2
28	Run-up analysis on different Harbor walls due to regular and random waves	10.02.2013 to 25.04.2013	1
29	Design of a Marina at Failaka Island	27.3.2013 to 8.5.2013	3
30	Wave induced loads on slotted vertical barriers	22.9.2013 to 31.12.2013	1
31	Wave and current forces on Oil Rig Platforms	9.3.2014 to 30.4.2014	5
32	Probability Distribution of Total Suspended Particulate (TSP) in Kuwait	11.5.2014 to 19.6.2014	1
33	Extreme Dust Analysis	14.9.2014 to 30.10.2014	3
34	Wind energy resource in Kuwaiti coastal area.	9 March 2015 to 7 May 2015	2
35	Scientific orientation on the role of Professional staff on research activities and running of Physical modeling facilities at Coastal Management Program in KISR	1.6.2015 to. 30.11.2015	1

## Professional Training Received

Year	Nature of Training	Duration	Organization where training was provided
1993	Theories and practical exposure to install MULTIELEMENT WAVE MAKER at Department of Ocean Engineering, IIT Madras.	1 month	Danish Hydraulic Institute, Denmark
2003	Introduction to CFD	1 week	Kuwait Institute for Scientific Research, Kuwait
2004	Project Management at KISR: From Inception to Completion	1 week	Kuwait Institute for Scientific Research, Kuwait
2004	Health, Safety and Environment Law and Regulation in Kuwait	1 day	Kuwait Institute for Scientific Research, Kuwait
2004	Use of GENESIS model	1 week	Kuwait Institute for Scientific Research, Kuwait
2004	MATLAB	1 week	Kuwait Institute for Scientific Research, Kuwait
2005	Radar Interferometry: Basic principles and applications	1 week	Kuwait Institute for Scientific Research, Kuwait
2005	Surfer Golden Software	1 week	Kuwait Institute for Scientific Research, Kuwait
2005	Hydrodynamic modelling in the marine environment	1 week	Kuwait Institute for Scientific Research, Kuwait
2005	The use of Wind tunnel and numerical simulation in assessing	1 week	Kuwait Institute for Scientific Research, Kuwait

<b>Year</b>	<b>Nature of Training</b>	<b>Duration</b>	<b>Organization where training was provided</b>
2006	wind impact on industrial installations and buildings GIS management issues		
2007	R&D activities at KISR	1 day	Kuwait Institute for Scientific Research, Kuwait
2008	Coastal Morphodynamics	1 week	Kuwait Institute for Scientific Research, Kuwait
2011	Intellectual properties and benefits	3 days	Kuwait Institute for Scientific Research, Kuwait
2011-12	Arabic Language	1 month	Centre for Computer and Management Studies, Kuwait
2013	Technopreneurship for Gulf Countries	1 week	International Science, Technology and Innovation Centre for South-South Cooperation under the Auspices of UNESCO (ISTIC) and KISR
2013	Eutrophication sources and mitigation techniques in Semi-Enclosed Bays	2 days	Kuwait Institute for Scientific Research, Kuwait
2015	Development Projects Planning, Monitoring and Evaluation	3 days	Kuwait Institute for Scientific Research, Kuwait

### **WORKSHOPS ORGANIZED FOR KEY CLIENTS**

1. 10<sup>th</sup> and 12<sup>th</sup> Jan. 2011: Workshop with key clients in Kuwait for disseminating the capability of coastal management program to solve their technical issues. About 60 people has participated from public and private organizations.
2. 9<sup>th</sup> May 2012: Workshop with key clients in Kuwait for disseminating the capability of coastal management program to solve their technical issues. About 35 people has participated from public and private organizations.



## INFRASTRUCTURE DEVELOPMENT ACTIVITIES

1. Involved in all aspects for the implementation of Multi-element wave maker in IIT Madras during 1993.
2. Co-ordinated the complete up gradation of the **Glass wave flume** in Kuwait Institute for Scientific Research (KISR), Kuwait with a **State of the art wave maker** like preparation of specification, follow up with purchase department of KISR, installation, training of KISR staffs etc during 2004-06.
3. Co-ordinated the complete up gradation of the **wave basin** in Kuwait Institute for Scientific Research, Kuwait with a **State of the art wave maker** like preparation of specification, follow up with purchase department of KISR, installation, training of KISR staffs etc during 2005-07.
4. Mobilized enough funding and co-ordinated the purchase of many coastal lab equipments like wave probes, submersible pressure sensors, Six component force balance, Overtopping measuring meter, Different types of velocity meters, Scour sensor, Vane shear equipment etc for KISR, Kuwait.
5. Co-ordinated the up gradation of the **Concrete Wave Flume** in Kuwait Institute for Scientific Research, Kuwait with a **State of the art wave maker**, such as preparation of specification, follow up with purchase department of KISR, procurement from DHI Denmark, installation, training of KISR staffs etc during 2012-13. Successfully completed during March 2013.

## **REVIEW WORKS**

### **Regular reviewer of scientific papers for the following Journals:**

Journal of Waterway, Port, Coastal and Ocean Engineering  
Ocean Engineering  
Arabian Journal of Geosciences  
International Journal of Earth Science And Engineering  
Indian Journal of Geo-Marine Science  
International Journal of Ocean and Climate Systems  
Journal of Coastal Research  
Journal of Engineering for the Maritime Environment  
Journal of Fluids

### **Ph.D. Thesis External Reviewer:**

Anna University, Coimbatore  
Bharathiar University, Coimbatore  
PRIST University, Thanjavur  
Vinayaka Mission, Salem  
Bharathidasan University, Trichy

## **VISITS ABROAD**

1. A month training in Copenhagen, Denmark to study the theories and practical exposure to MULTIELEMENT WAVE MAKER from May to June, 1993.
2. Singapore to present technical papers in the 9th Congress of the Asian and Pacific Division of the International Association for Hydraulic Research, 24 - 26, August 1994.
3. Lisbon, Portugal to present technical papers in the 2nd European Wave Power Conference, 8-10 November 1995.
4. Plymouth, UK to participate in the International Conference on Coastal Research through Large Scale Experiments, 23-27, June 1997.
5. Copenhagen, Denmark to participate in the 26th International Conference on Coastal Engineering, 22-26 June 1998.
6. Cape Town, South Africa to present technical papers in the Fifth International Conference on Coastal and Port Engineering in Developing Countries, 16.4.99 to 24.4.99.
7. Bandar Abbas, Iran to present papers in the 4<sup>th</sup> International Conference on Coasts, Ports & Marine Structures, ICOPMAS 2000, 21 – 24 November 2000.
8. University of Karlsruhe, Germany from 13-14 May 2002 to deliver a lecture on “Challenges in Ocean Engineering”
9. University of Hamburg-Harburg from 15-16 May 2002 to deliver a lecture on “Wave interaction with submarine pipelines resting on Clayey soil”
10. University of Ghent, Belgium from 17-18 May 2002 to deliver a lecture on “Wave interaction with Plane, Serrated and Dentated Seawalls”

11. Universitat Politecnica de Catalunya, Barcelona, Spain from 19-21 May 2002 to deliver a lecture on “Wave Energy Dissipation Characteristics of Parabolic, Corrugated and Porous Absorbers”
12. Kuwait Institute for Scientific Research, Kuwait from 1-4 July 2002.
13. Texas A & M University, College Station, USA for paper presentation in the First International Conference on Scour around Foundations, 17-20 Nov. 2002.
14. Texas A & M University, College Station, USA for giving a seminar on 21.11.2002.
15. University of Houston, Houston, USA for giving a seminar on 19-20 Nov. 2002.
16. University of Texas, Austin, USA for giving a seminar on 22.11.2002.
17. University of Florida, Gainesville, USA for giving a seminar on 25.11.2002.
18. Florida Institute of Technology, Melbourne, USA for giving a seminar on 26.11.2002.
19. Florida Atlantic University, Boca Raton, USA for giving a seminar on 27.11.2002.
20. Dubai for paper presentation in the First International Conference on Coastal Zone Management and Engineering In the Middle East, 27-29 Nov. 2005.
21. Gold Coast, Queensland Australia for paper presentation in the 9<sup>th</sup> International Coastal Symposium (ICS 2007), 16-20 April 2007.
22. DHI Water & Environment, Denmark to supervise a physical model study on tide gate during 16-20 October 2007.
23. Humboldt Colloquium in Amman, Jordan, 9-12 May 2009, organized by the Alexander von Humboldt Foundation Germany.
24. Rotterdam, The Netherlands for paper presentation in the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011), June 19th - 24th 2011.
25. Rio de Janeiro, Brazil for paper presentation in the 31<sup>st</sup> International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012), July 1 – 6, 2012.
26. Kish Island, I. R. Iran for oral presentation of two scientific papers in the International Conference on Environmental Challenges in the ROPME Sea Area, 3-6 March 2013.
27. Chengdu, China for oral presentation of a scientific paper in the 35<sup>TH</sup> IAHR WORLD CONGRESS, Sept. 8-13, 2013.
28. Tehran, Iran for delivering a key note address titled “**Scientific approach for selecting optimal depth of burial of submarine pipelines in coastal waters**” in the 11<sup>th</sup> International Conference on Coasts, Ports and Marine Structures, November 24-26, 2014.

### AWARDS

1. **Good teacher award** by the Director of IIT Madras for continuous Ten years, based on student’s evaluation of the teachers.
2. Awarded **the Alexander von Humboldt Foundation Fellowship** (01 March 1997 to 31 October 1998) to carry out Post Doctoral Research Work in Germany preceded by a 4 months German Language Course in Germany.
3. **Scientific Achievement award** (Rank 1 among 20 achievers) by KISR, 2009-2010.
4. **Scientific Achievement award** (Rank 6 among 20 achievers) by KISR, 2010-2011.
5. **Scientific Achievement award** (Rank 5 among 20 achievers) by KISR, 2011-2012.
6. **Scientific Achievement award** (Rank 6 among 20 achievers) by KISR, 2012-2013.
7. **Scientific Achievement award** (Rank 4 among 20 achievers) by KISR, 2013-2014 and Scientific Excellence Award for distinguished scientific publication.

8. **Scientific Achievement award** (Rank 20 among 20 achievers) by KISR, 2013-2014 and Scientific Excellence Award for distinguished scientific publication.

### **OTHER CREDENTIALS**

1. Judge for selecting the Young Scientist Awardees in 15<sup>th</sup> Young Scientist Congress, Madhya Pradesh, July 2000.
2. Core Member of the Expert Committee of AICTE to assess the facilities created by A.V.S.College of Engg. And Tech., Nellore, June 2001.
3. Delivered a Guest Lecture on “**Industry-Institute Interaction**” for the aegis of ISTE in Annamalai Polytechnic, CHETTINAD, 27.7.2001.
4. Member, Technical Paper Review Committee of International Conference on Ocean Engineering, IIT Madras, 11-14 Dec 2001.
5. Delivered an Invited Lecture on “Case Studies on Shore Protection Works in India” on 10.12.2002 for the Technology Appreciation Program on **Modeling and Simulations in Industrial Problems: Ocean Engineering and Chemical Processes**, IC&SR Building, IIT Madras.
6. Member, Technical paper Review Committee, Third Indian National Conference on Harbour and Ocean Engineering, 7-9 December 2004, NIO, Goa.
7. Organising committee member, International Conference on Industrial Pollution (ICIP 2005), 18-22 December 2005, Kuwait.
8. Reviewer of a technical article for Indian Journal of Marine Science (IJMS) during September-October 2005
9. Technical Committee member for the **First International Conference on the Application of Physical Modeling to Port and Coastal Protection**, CoastLab06, 2-4 May 2006, Porto, Portugal.
10. Reviewer of technical papers for Journal of Coastal Research during 2006 and 2007.
11. Reviewer of four technical papers for the International Coastal Symposium, held in Australia from 16-20 April 2007.
12. Member, International Advisory Committee, International Conference on Innovative and Smart Structural Systems for Sustainable Habitat (INSHAB 2008), 3-5 January 2008, Coimbatore Institute of Technology, Coimbatore, India.
13. Reviewer of Technical papers for Ocean Engineering, Elsevier.

14. Member of Board of Examiner for Ph.D. thesis evaluation, Bharathiar University, Coimbatore, TN, India.
15. Member of Board of Examiner for Ph.D. thesis evaluation, Bharathithasan University, Thiruchirapalli, TN, India.
16. Guest Editor, International Journal of Imaging, Special Issue on Applied Remote Sensing in Coastal and Ocean Engineering, 2008.
17. International Advisory Committee Member, International Conference on Advances in materials and Techniques in Civil Engineering (ICAMAT 2010), 7-9 January 2010, VLB Janakiammal College of Engineering and Technology, Coimbatore, India.
18. Key note speaker (Topic: Recent trends in Coastal and Ocean Structures), International Conference on Advances in materials and Techniques in Civil Engineering (ICAMAT 2010), 7-9 January 2010, VLB Janakiammal College of Engineering and Technology, Coimbatore, India.
19. Key note speaker (Topic: Ocean Energy), International Conference on Renewable Energy, Sri Sairam Engineering College, Chennai, India, 8-10 January 2010.
20. Technical Committee Member, International Conference on Emerging Trends in Engineering, 20-21 Feb. 2010, Dr. J. J. Magdum College of Engineering, Jaysingpur, Kolhapur District, Maharashtra, India.
21. Played a significant role for the overall development of Coastal Management Program as Program Manager in KISR from 10.10.2010 to 31.3.2014.

**GUEST LECTURES / ACTIVITIES AS RESOURCE PERSON/ MOTIVATION**  
**ACTIVITIES FOR SCHOOL CHILDREN**

Presented Guest lecture to the students of Civil and Mechanical Engineering for the past 22 years mainly to motivate them to pursue higher studies in the area of coastal, ocean and offshore engineering.

**During 2011:**

Government college of Technology, Coimbatore  
Government college of Engineering, Salem  
Kumaraguru college of Technology, Coimbatore  
Amrita Institute of Technology & Science, Coimbatore  
Jansons Institute of Technology, Coimbatore  
Bannari Amman Institute of Technology, Sathy

Institute of Road and Transport Technology, Perundurai  
KSR college of Engineering, Tiruchengode.

**During 2012:**

PSG College of Technology, Coimbatore  
Avinashilingam University-College of Engineering for Women, Coimbatore  
Kumaraguru College of Technology, Coimbatore  
SNS College of Engineering, Coimbatore  
Excel College of Engineering, Tiruchengode.

**Key note address** during 45<sup>th</sup> Engineers Day Celebration on 5<sup>th</sup> Nov. 2012 on the topic “**Human Issues for Developing Climate Responsive Technologies for Sustainable Development**” at Crown Plaza, Kuwait.

**During 2013:**

To the members of Tamilnadu Engineers Forum, Kuwait on 23<sup>rd</sup> Jan. 2013 on “**An Overview of Ocean and Coastal Engineering**”. Location: Fintas Hall, Fintas.

To the members of ASSE Kuwait Chapter, Kuwait on 11 March 2013 on “**Challenges in commercialization of Ocean Renewable Energy**”. Location: Kohinoor Restaurant, Fahaheel.

To about 200 students of ICSK Senior school on “**Engineering as Your Carrier**” on 5 Dec 2013.

To about 200 students of ICSK Khaitan school on “**Engineering as Your Carrier**” on 22 Dec 2013.

To about 200 students of ICSK Amman school on “**Engineering as Your Carrier**” on 31 Dec 2013.

**During 2014:**

KSR College of Engineering, Tiruchengode  
CIT Coimbatore  
IRTT, Perundurai  
KTVR Knowledge Park, Coimbatore

To the students of Department of Civil Engineering, Pondicherry Engineering College, Pondicherry on “**Challenges in Ocean Engineering**” on 8<sup>th</sup> Jan. 2014.

To the Civil Engineering students of ACK, Kuwait on “Challenges for Civil Engineers in the area of Ocean and Coastal Engineering” on 20<sup>th</sup> October 2014.

## **During 2015:**

**Faculty Development Program** on “Journal paper writing and Preparation of Research proposals” to faculty members in Aditya Institute of Technology, Coimbatore (18.8.2015); KSR College of Engineering, Tiruchengode (19 and 20<sup>th</sup> August); Nanda College of Engineering, Perundurai (29.8.2015) and NGP College of Technology, Coimbatore (2.9.2015).

**Guest lecture for the engineering students** on “Challenges in Coastal and Ocean Engineering” and “Job opportunities in Gulf countries” in Kumaraguru College of Technology, Coimbatore; Sree Sakthi Engineering College, Karamadai (3.8.2015); NGP College of Technology, Coimbatore (5.8.2015); SNS college of Technology, Coimbatore; Bannari Amman Institute of Technology, Sathyamangalam (17.8.2015) and Sri Eshwar College of Engineering, Kinathukadavu (1.9.2015).

Resource person for the one day international workshop on “Ocean and offshore engineering” organized by Mahendra Engineering College, Namakkal on 6.8.2015.

Resource person for the international workshop on “Ocean engineering” organized by Government college of Technology, Coimbatore on 10.8.2015.

Resource person for one day international workshop organized by Coimbatore Institute of Technology, Coimbatore on “Coastal Engineering” on 11.8.2015.

Motivation lectures to school students in KVK Govt. Higher Secondary School, Punjai Puliampatti; Rank International School, Sathyamangalam; Government school in Sathyamanagalam; Government School in Nehru Nagar, P. Puliampatti.

## **REFERENCES**

<b>Name</b>	<b>Position</b>	<b>Address, Tel &amp; Fax No., e-mail address</b>
Dr. R. Sundaravadivelu	Professor	Department of Ocean Engineering, Indian Institute of Technology Madras Chennai, INDIA. PIN: 600036. Phone: +91-44-22574810, Mobile: +91-94440 08621 Email: rsun@iitm.ac.in
Dr. Karim Rakha	Professor	Department of Irrigation and Hydraulics Faculty of Engineering Cairo University Giza 12613 Egypt Mob. +2 011 23000343

		Home +2 027043694 Email: rakhak@gmail.com
Dr. Mane Al-Sudairawi	Research Scientist	Crisis Decision Support Program Environment & Life Sciences Research Centre Kuwait Institute for Scientific Research P.O. Box 24885, Safat 13109, KUWAIT. Phone: +965 24989080 Email: msudrawi@kisir.edu.kw
Eng. Faisal Al-Hulail	Division Director - Operations	Environment & Life Sciences Research Centre Kuwait Institute for Scientific Research P.O. Box 24885, Safat 13109, KUWAIT. Phone: +965 24989768, Mobile: +965-99685779 Email: fhulail@kisir.edu.kw