

CURRICULUM VITAE

of

Prof. VALLAM SUNDAR
HEAD
DEPARTMENT OF OCEAN ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI, INDIA



CURRICULUM VITAE

GENERAL

Full Name : **VALLAM SUNDAR**
Date of Birth : 30th March 1953
Nationality : Indian
Mailing Address : C-6-13, Second link Road,
I.I.T., Madras 600 036,
INDIA
Marital Status : Married

II. EDUCATIONAL QUALIFICATIONS

Certificate / Degree	Name of Institution	Year Passed
S.S.L.C.	Madras Christian College	1969
P.U.C.	D.G.Vaishnav College	1970
B.E. (Civil)	College of Engg., Guindy, Madras	1975
M.Tech (Hydraulics)	Indian Institute of Technology, Madras	1977
Ph.D.	Indian Institute of Technology, Madras	1982

III. EXPERIENCE

Organization	Position held	Date of	
		Joining	Leaving
Centre for Water Resources, Anna University, Madras	Associate Lecturer	22.12.80	30.04.81
Ocean Engg. Centre, Indian Institute of Technology, Madras	Senior Scientific Officer Gr.II	01.05.81	11.04.84
Ocean Engg. Centre, Indian Institute of Technology, Madras	Senior Scientific Officer Gr.I	12.04.84	29.04.87
Ocean Engg. Centre, Indian Institute of Technology, Madras	Assistant Professor	30.04.87	21.01.91
Ocean Engg. Centre, Indian Institute of Technology, Madras	Associate Professor	22.01.91	05.05.95
Ocean Engg. Centre, Indian Institute of Technology, Madras	Professor	06.05.95	31.08.03
Dept. of Ocean Indian Institute of Technology, Madras	Professor & Head	01.09.03	Till Date

IV. DETAILS OF THESIS WORK

M.Tech. Thesis title : EXPERIMENTAL STUDIES ON WAVE TRANSMISSION
OF FLOATING BREAKWATERS

Ph.D. Thesis title : STUDIES ON THE FORCES DUE TO WAVES ON
SUBMARINE PIPELINES

V. DEPARTMENTAL ACTIVITIES

(a) Course Work taught

Graduate Level (In Anna University)

Irrigation and Hydraulic Structures, Fluid Mechanics, Applied Mechanics, Hydraulic Engg. Laboratory, Engineering Materials.

Postgraduate Level (In I.I.T., Madras)

Advanced Fluid Mechanics, Wave Dynamics, Advanced Wave Hydrodynamics, Wave Dynamic Laboratory, Coastal Engineering, Statics and Dynamics of Marine Vehicles, ship hydrodynamics.

(b) Experimental Facilities

- In charge of design, execution and commissioning of a wave flume, which involved erection of a wave plunger, design of a suitable wave absorber. Modification of the flume and design of a false bottom to generate current under waves.
- Execution of extension of a 4 M wide Wave Flume
- Development of software for driving the wave maker to generate water waves in the laboratory.
- Member of the Core Group for Indo-German Wave Basin Project, which involved commissioning of a facility for the generation of multi directional waves.
- In charge of the construction of a wave flume, installation of wave maker, design, fabrication and erection of wave absorbers.

VI. RESEARCH GUIDANCE

(a) Thesis Advisor for M.Tech Thesis:

Name of the Student	Thesis Title	Year
Thomas Mathai	Wave Forces and Wave Runup Studies on Large Vertical Cylinders of Arbitrary Shape	1984
C. Ramachandran	Wave induced pressures and forces on vertical cylinders	1986
S.S.Sarma	Master Plan for Development of Gopalpur Port (Orissa)	1990
P.M.Raju	Sediment Dynamics off Visakhapatnam Port	1993
CH.SrinivasaRao	Experimental studies on stability of breakwaters and pressures induced on them due to regular and random waves	1994
D.Raghu	Wave Induced Dynamic Pressures on a Semicircular Breakwater	1995
V.Mallikarjuna Rao	Numerical Investigations on Simulation of Multi Directional Waves	1995
P. Mahalingam	Hydrodynamic Characteristics of Submerged Open Moored Cylinder	1996
J.Prema Kumar	Forces on Quadrant Front Face Semicircular Breakwater	1998
R. Jeyakumar	Wave diffraction studies for Tuticorin Harbour	1999
Sankar Reddy	Hydrodynamic Performance Of Skirt Floating Breakwaters	2000

(b) Thesis Advisor for M.S./Ph.D Thesis:

Degree	Name of the Student	Thesis Title	Year	Co-guide
M.S.	T.V.S.N.Rao	Studies on Wave Induced Long shore Sediment Transport on beaches and Related Phenomena	1983	Nil
M.S.	P.N.Ananth	Wave induced sediment transport near Paradeep Port	1988	Nil
M.S.	M. Sri Krishna Priya	Wave Induced Dynamic Pressures on a Semicircular Breakwater	2000	RSV
Ph.D.	S.Neelamani	Dynamic wave pressures on large vertical cylinder due to regular and random waves	1989	Nil
Ph.D.	V.Mallayachari	Interaction of waves with impermeable and permeable walls	1995	Nil
Ph.D.	S.A.Sannasiraj	Hydrodynamic Behaviour of Floating Breakwaters	1997	RSV
Ph.D.	G.Anandkumar	Pressures and forces on inclined cylinders due to long and short crested waves	1998	Nil
Ph.D.	M.Kalyani	Studies on the Hydrodynamic Loadings of Submerged Moored Cylinders due to waves	2000	RSV
Ph.D.	M. Ram Babu	Studies on scour due to waves and currents around pile foundations in clays	2000	SNR
M.S.	Ch. Madhusudhan	Experimental Studies of wave induced pressures & forces on buried and unburied Pipelines	2001	SNR
M.S.	S. Purushotham	Hydrodynamic characteristics of floating pipe breakwater	2001	RSV
M.S.	Sri Veda Kumar	Hydrodynamic characteristics of floating plain and perforated plate breakwaters	2001	RSV
M.S.	B.V.V. Subba Rao	Hydrodynamic characteristics of Quadrant Front Face Pile Supported Breakwater	2001	Nil
M.S.	G.Ganesh	Numerical modeling of Near shore Phenomena	2003	Nil
Ph.D.	G.Dhinakaran	Experimental Studies on Hydrodynamic characteristics of perforated Semi circular Breakwaters	2003	RSV
M.S.	K.A. Roopsekhar	Wave Forces On Pipelines on a sloping bottom	2003	Nil
M.S.	R.Balaji	Hydrodynamic Characteristics of Wave screens	2003	Nil

(c) Guidance of ongoing Ph.D Works:

Name of the Student	Title	Date of Registration	Co-guides
N.Dargakumar	Wave -Structure -Soil bed interaction	Jan 2001	SNR
P.L.Vijayakumari	Forces due to Waves on Tandem twin pipelines near a sloping boundary	July 2001	KM
Lajju Kottalil	Wave structure interaction	July 2002	RSV
R.Balaji	Breaking waves and their interaction with structures	Sept 2003	SAS

(d) Guidance of ongoing M.S. Works:

Name of the Student	Title	Date of Registration	Co-guides
G.N.V.Prasad	Ringing Response of Vertical cylinders in Breaking waves	July 2001	RSV
P.V.V.Subramaniam	Pressures on Hulls in waves	July 2001	VAS
	Wave -structure-Interaction	Sep 2003	KM

VII Research Projects

Consultancy:

No	Title of the Project	Sponsoring Agency	Value of Project (*10 ⁵)	Co-investigators (**)
1	Design & Development of a Longitudinal Wave Beach System for a High Speed Towing Tank	Defense Research & Development Organization	2.0	CG JSM SMS
2	Design & Development of a Transverse Wave Absorber System for a High Speed Towing Tank	-do-	2.0	CG JSM SMS
3	Design of Fisheries Harbour	Gopalpur Port Project	1.3	CG RSV SRG
4	Design of Approach Trestle	-do-	3.0	-do-
5	weather Window for Tamilnadu Coast	Oil & Natural Gas Commission, Madras	0.12	CG
6	Numerical Modelling and Flume Investigations for Pipavav Port, Gujarat	Larsen & Toubro Ltd., Bombay	5.0	SNR RN
7	Study of Wave Characteristics in Ravva Field of K.G.Offshore	O.N.G.C., Madras	0.40	Nil
8	Design of Sea Water Intake System	Birla Periclase, Visakhapatnam	10.5	SNR RSV RN
9	Extension of Haddow Wharf	Andaman Harbour Works	4.0	VSR RSV
10	Spencer's Aquaculture Project	Spencer's & Co	1.15	SNR RSV
11	Design of Sea Water Intake System at Naripaiyur	Entoma Hydro Systems, Madras	2.0	MRP RSV
12	Development of Colachel Port	Govt. of Tamilnadu,	9.1	MRP

		Tamilnadu Port Development		RSV
13	Design for Diffusor System	ABAN Constructions	0.30	RSV
14	Development of All Weather Port at Gopalpur	Tata Iron & Steel Co. Ltd.	1.0	CG RSV
15	Sea Water Intake	Gopalpur Port Project	1.0	RSV
16	Design of Deep Water Berth	Gopalpur Port Project	5.0	CG RSV SRG
17	Potential Sites along Orissa Coast	Government of Orissa	0.75	CG RSV
18	Dredging Chilka Mouth	Chilka Development Authority	1.0	CG RSV
19	Master Plan for Gopalpur	TISCO	1.0	CG SRG RSV
20	DRP for GMB Port at POSITRA	FRH	8.0	RSV SRG RN
21	Wave Flume Studies for Breakwater Section/Round Heads Proposed for Jaigad, Agargule, Vijaydurg & Redi Ports.	NIO, GOA	10.0	RSV
22	Analysis of Sea Water Intake System for Kovaya, Gujarat.	LARSEN & TOUBRO LTD. MUMBAI	1.5	MRP RSV
23	Behaviour Changes in Pulicat Backwaters.	NMTPP TNEB, ENNORE, MADRAS	4.25	MRP
24	Off shore feed stock handling facility for PP/PE Plant - North of Kakinada.	M.K.R. Industries Ltd. Secunderabad	3.5	MRP RSV
25	Studies on tidal effect in Adyar River	ESKAY DESIGNS, Madras	4.15	MRP
26	DPR for Nagapattinam Port	TNPD, Chennai	7.5	MRP RSV
27	DPR for Cuddalore Port	TNPD, Chennai	7.5	MRP RSV
28	DPR for Vallinokkam Port	TNPD, Chennai	10	MRP RSV RN KA
29	Stability Analysis of Composite Breakwater at Mormugao Port	Mormugao Port Trust, Goa	10	MRP
30	Construction of Mini Fishing Harbour at Muthalapozhi - Numerical Model Studies	Harbour Engineering Department, Thiruvananthapuram	8.0	RSV
31	Amba Creek Crossing - Request for Calculations for Floatation and Buoyancy.	ABAN Constructions, Chennai.	0.30	RSV
32	Design of Diffuser Support System for Jam Nagar	ABAN Constructions, Chennai	0.50	RSV
33	Numerical Modeling for Tranquility Studies for Rameswaram Fisheries Harbour	Fisheries Department, Chennai	3.5	RSV

34.	Construction of 25 MLD Capacity Sewage Treatment Plant at Visakhapatnam	Municipal Corporation, Visakhapatnam.	6.5	MRP
35.	Feasibility report for proposed Fishing Harbour at Veerapandiapattinam in Tuticorin	Fisheries Department, Chennai	5.0	RSV
36.	Breakwater Flume Studies of Thangassery Fishing Harbour	Harbour Engg. Dept. Thiruvananthapuram	7.0	Nil
37.	Barge Mounted Power Plant at Mangalore	Encon Services Pvt. Ltd. Chennai	0.75	RSV SRG
38.	Model Testing of Breakwater Cross Section for Muthalapozy Fishing Harbour	Harbour Engg. Dept. Thiruvananthapuram	2.5	Nil
39.	Seawall - North of Madras Harbour	Kampsax Industries, Chennai	3.75	KA
40.	Ennore Manali Road Improvement Project -Additional Surveys and Numerical Modelling	Kampsax Industries, Chennai	7.00	KA
41.	Numerical model studies for Rameswaram Fishing Harbour	IHH ,Poondi	1.25	Nil
42.	Sea water intake well and jetty of Simhadri Power Plant of NTPC	Navayuga Engg. Co. Ltd., Visakhapatnam	1.0	Nil
43.	Coastal Erosion Protection at Outer Wheeler Island	DRDO, New Delhi	8.25	Nil
44.	Minor Fishery Harbour at Harwood Point, Kakdweep Dist.- Model Studies	West Bengal Fisheries Corporation Ltd., Calcutta	4.5	Nil
45.	Model study for effluent disposal pipeline at simhadri make up water system	Navayuga engg. Company ltd	5.5	nil
46.	Bathymetry survey for Arcottuturai, Tamilnadu	Dept. of Fisheries, Govt of Tamilnadu	2.3	KA
47.	Bathymetry survey for Portonova, Tamilnadu	Dept. of Fisheries, Govt of Tamilnadu	1.5	KA
48.	Bathymetry survey of punnakayal, Tamilnadu	Inst. Of Hydraulics & Hydrology, Poondi	2.25	KA
49.	Sea Erosion on the north of Sriharikota Island Andhra Pradesh	Dept. of Space	6.0	KA
50.	Hydrodynamic Performance of Geobags protected by Rip-Rap layer	Garware Wall Ropes Ltd, Pune	3.04	Nil
51.	Anti Sea Erosion work coastline north of Royapuram Fishing Harbour Near Ennore	Public Works Dept, Govt. of Tamilnadu	6.0	KA & SAS
52.	Construction of a Fishery Harbour at Mahe, Pondicherry state.	Government of Kerala, Harbour Engineering Department, Thiruvananthapuram.	4.5	SAS
53.	Sea Protection works along Ennore Expressway.	Tamil Nadu Road Development Company Limited, Chennai.	3.5	SAS
54.	Model Study, Wave Flume Study	Afcons Infrastructure		

	under normal and storm conditions.	Limited, Mumbai.	6.5	SAS
55.	Bathymetry survey and Numerical model study for periakadu groin work.	Water Resource Organisation, PWD, Madurai	6.0	SN RSV
56.	EIA Report for Jetty at Bassein Port	Good Earth Maritime Limited, Chennai.	1.5	Nil
57.	Pre cast concrete blocks for use in Marine Environment in the Breakwater at the Outer Arm and East Qudy at Chennai Port Trust.	Chennai Port Trust, Chennai.	2.5	RSV KA

Sponsored:

Sl. No	Title of the Project	Duration of the Project (years)	Sponsoring Agency	Value of the Project in Lakhs of RS(*10 ⁵).	Co-Investigators
1.	Studies on the wave induced sediment Transport near Paradeep Port	(Mar'86 to June '88)	Central Board of Irrigation and Power, Govt. of India	1.65	RSV
2.	Development of Numerical Models for Prediction of Near shore Phenomena	(Aug.'92 to Mar '96)	Dept. of Ocean Development	9.07	JSM
3.	Detached Breakwater as a Shore Protection measure	(Feb'95 to Feb'97)	National Institute of Ocean Technology	4.18	Nil
4.	Stability of Frustum Concrete Blocks for Breakwaters and Coastal Protection Works	11.02.to 10.8 of 1998	National Inst. of Ocean Tech	1.65	MRP
5.	Hydrodynamic behaviour of floating breakwaters	12.4.99 to 11.4.2002	Ministry of Surface Transport	11.75	RSV

INDO - GERMAN PROJECTS:

1.	Wave Forces on Inclined Cylinders	(Oct.'91 to Sep.'93)	Volkwagon Stiftung, Germany	(80,000 DM)	
2.	Loads on Inclined Cylinders due to Steep Waves and Currents	(Jan.'95 to Dec '96)	German Science Foundation (DFG), Germany	(86,250 DM)	PMK
3.	Dynamic Pressures exerted on Semicircular Breakwaters	Jan'97- Dec'2000	German Agency for Technical Cooperation (GTZ), Germany	(94,367 DM)	RSV

(**)

RSV: Prof. R.Sundaravadivelu, **CG:** Prof. C.Ganapathi, **MRP:** Prof. M.R.Pranesh, **SNR:** Prof. S. Narasimha rao, **JSM:** Prof. J.S. Mani, **SMS:** Dr. S.MeenakshiSundaram, **VAS:** Dr.

V. AnanthaSubramanian, **RN:** Dr. R.Natarajan, **SRG:** Prof. S.R.Gandhi, **PMK:** Dr. P.M. Koola, **KA:** Dr. K.Anathanarayanan, **VSR:** Prof. V.S.Raju, **SAS:** Dr.S.A.Sannasiraj, **KM:** Dr.K.Murali, **SN:** Dr. S. Neelamani

VIII. Coordination, Training and Special Lectures

(a) Coordination

1. Coordinator for Short Term Course on "Wave Action on Coastal and Offshore Offshore Structures", Dec.9-23, 1985 under Continuing Education Programme for Practicing Engineers.
2. Co-coordinator for "National Workshop on Wave Studies and Applications" Feb.3-5, 1986.
3. Coordinator for Short-term course on "Coastal Engineering" Dec.11-22, 1989 under Continuing Education Programme.
4. Coordinator for Short term course on "Coastal and Ocean Engineering", Nov.4-9, 1991 under Continuing Education Programme.
5. Coordinator for Coastal Engineering for "Inter Institutional Course and Workshop on Dredging, Port, Coastal Engg. and Coastal Zone Management", Indo-Dutch Programme, Jan.23-31, 1995, IIT, Madras.
6. Member Course Development Group for Regional Operational Centre of Intl. Ocean Institute, IIT, Madras. The task is to prepare course module on topics in Coastal Zone Management, 1995.
7. Organising Secretary (Publications), International Conference in Ocean Engineering, 17-20 Dec'96, IIT, Madras.
8. Steering Committee Member, Invest Port - National Conference on "Partnerships for infrastructure Development Ports", 8th & 9th April 1996.
9. Member, International Scientific Honorary Committee, Eighth Congress of the International Maritime Association of Mediterranean, Istanbul Technical University, 2-9 Nov.'97, Istanbul, Turkey.
10. Coordinator for Short Term Course on "Course on Coastal Structures", April 13-24, 1998 under Continuing Education Programme for Metallurgical & Engineering Consultants (India) Ltd, Ranchi.
11. Member, International Standing Committee, Second International Conference on Marine Industry, MARIND'98, 28 Sept to 02 Oct, 1998, Varna, Bulgaria.
12. Coordinator for Inter-Institutional Course on 'Coastal Engineering' and Workshop on 'Breakwaters', in collaboration with Technical univ. Delft, The Netherlands, 6-10 March, 2000, IIT Madras
13. Member, Steering Committee, Intl. Conf in Ocean Engg, I.I.T.Madras, Dec11-14, 2001
14. Advisor, 2nd APCOS Conf on Offshore Systems, April 2003 to be held in Thailand
15. Member, Technical Committee, 13th Asia Pacific Division of Intl. Association of Hydraulic research, 6-8 Aug 2002, Singapore.
16. Member, Technical Committee, Meet MARIND, Intl conf to be held in Varna , Bulgaria, Oct 2002.
17. Member, Organising committee, Intl. Conf. On Ship & Ocean Technology, SHOT 200216-17 Dec 2002, IIT Kharagpur, India

18. Conducted a short course on ‘ Coastal & ocean engineering’ for Students of University of Wuppertal, Germany Sep 4 –6, 2002.
19. Conducted a short course on ‘Coastal and Offshore engineering’ in University of wuppertal, Germany, Sep 4-6, 2002.
20. External Reviewer for the strategic project titled “Hydraulics and Mixing in exchange flows” for Natural Science and Engineering Research Council of Canada (Aug 2003)
21. Organising Secretary, Symposium on “Foundation Engineering In Soft Marine Clays” 1 Dec ’03, in IIT Madras

(b) Training Program

Participant - International Training Programme on Exclusive Economic Zone at Dalhousie University, Canada. Conducted by International Ocean Institute, MALTA.

(c) Special Lectures

Lectures on Topics: Wave mechanics, wave loads on structures, Coastal Erosion and Protection etc., were delivered in a number of short term courses conducted at Ocean engineering Centre, IIT, Madras. A few courses are listed below.

1. Orientation course on Offshore Structures, for Engineers of Oil & Natural Gas Commission, Nov. '82 and Nov.'84.
2. Analysis & Design of Offshore Structures, June '84.
3. Port and Beach Engineering, Dec. '84.
4. Marine Concrete Structures, June '85
5. Finite Element Analysis of Ocean Structures, Nov.'86
6. Inland Navigation, May '89
7. Design of Coastal and Offshore Structures, June '89
8. Training Course for Engineers India Ltd., New Delhi, Jan.'93.
9. Lecture on Coastal Erosion and Protection in several courses organised by Regional operation centre of Intl. Ocean Institute, IIT, Madras, 1995.
10. Invited lecture “Coastal Erosion and Protection”, Institution of Engineers (India), March'98 and in several training programs for Engineers from Public works Department of Tamilnadu.
11. Invited lecture “Coastal Erosion and Protection along the Indian Coast” Conference on Coastal Zone Management, Dharwad, Karnataka, 10th & 11th December 1998.
12. Invited lecture "Coastal Erosion and Protection ", in INDO-BRITISH Training course on Integrated Coastal Zone Management, Anna University, Nov 19-25, 1999.
13. Invited lecture on "Coastal Erosion & Protection" Univ. of Wuppertal, Germany, Nov8, 2001
14. Invited lecture on wave mechanics, wave forces on Structures & Coastal Erosion & Protection National Water Academy, Govt. of India, Nov 2-3, 2003.

(d) Course Modules

Completed two course modules titled "**BREAKWATERS**" and "**COASTAL EROSION AND PROTECTION**" sponsored by Centre for Continuing Education, I.I.T.Madras

(e) Others

1. Advisor to Union Public Service Commission (UPSC) for selection of Scientist, Feb'95.
2. Advisor to UPSC for Engineering Services Examination '97, March'98.

3. Reviewer for **American Society of the Civil Engineering JI and JI. Of Hydraulic Research of IAHR**
4. Invited by National Institute of Science Communication, New Delhi as panel of experts for the constitution of selection/assessment committees in Oceanography for the period 1998 to 2000.
5. Served as an examiner for the thesis entitled "A Numerical Study of Fully Nonlinear Two-Dimensional free-Surface Flows and Wave-Body Interactions" submitted by Ms.Sangita Maiti for admission to the degree of Doctor of Philosophy (Ph.D) in Indian Institute of Technology Kharagpur.
6. Examiner for M.Tech Theses submitted to Karnataka Regional Engg. College & Calicut Regional Engg. College (2000) & University of Pondicherry (2004)
7. Warden, Godavari Hostel, I.I.T.Madras from 1 March 2003 till date

IX. VISITS ABROAD

1. **Germany**, to present a technical paper title "Wave Loads on Vertical Cylinders" at Intl. Conf. on Marine Research, Ship Tech. and Ocean Engg. Sep.27, Oct.2, 1982 held in Hamburg.
2. **Canada**, as a participant for Intl. training program on Exclusive Economic Zone at Dalhousie University, June 13 - Aug. 19, 1983.
3. **Hawaii ,USA** to present a technical paper titled, "Coastal Engineering Problems in India - An Overview" at pacific congress on Marine Technology, April 24 - 27, 1984.
4. **Germany**, as a Visiting Scientist at Technical University, Berlin, Feb. '87 - Jan. '88.
5. **Halifax, Canada** to present a paper titled "Distribution of Long shore Currents and Sediment Transport Rates in the Surf Zone off Paradeep, India" at Oceans 87, 28 Sep. - 1 Oct. 1988.
6. **Germany**, as a European Community postdoctoral fellow to Institute for fluid mechanics and computer applications in Civil Engineering, University of Hannover, Jan. '91 to June '91.
7. **Germany**, invited by Institute Fluid Mechanics and Computer application in Civil Engineering, University of Hannover, June-July '92.
8. **Germany**, invited by Franzius Institute, Hannover, May-July '93.
9. **Germany**, invited as Visiting Professor by German Science Foundation for the period May-July '94 and Dec.'94.
10. **Japan**, to present a paper in an Intl. Conf. HYDRO PORT '94, 19-21, Oct.'94.
11. **Germany**, under Joint project sponsored by German Science Foundation during the period 14 May - 6 July '95.
12. **Germany**, under Joint project sponsored by German Science Foundation during the period 4th May - 4th July '96.
13. **Malaysia**, to present two papers and to Chair a Session in an Intl. Conf. On 10th Congress of APD-IAHR during the period 26 August -29 Aug'96.
14. **Seoul, Korea** to present a paper in an Intl. Conf. on The Third Asian-Pacific Conference on COMPUTATIONAL MECHANICS during the period 16-18 September, 1996.
15. **Germany** as Visiting Professor invited by German Science Foundation (May'97 - August'97).
16. **San Fransisco, USA** to present papers in IAHR Specialty Seminar on Multidirectional Waves and their Interaction with Structures (10 - 15 August, 1997)
17. **Istanbul, Turkey** to present papers and chaired a Technical session in the 8th Congress of International Association of Mediterranean (IMAM'97) (2-9 November, 1997).

18. **Germany**, under Joint project sponsored by German Agency for Technical Cooperation during the period 16th May - 10th July '96.
19. **Leipzig, Germany** under joint project sponsored by German Agency for Technical Cooperation (GTZ) during the period 15th May to 15th July, 1998.
20. **Palm Beach, Florida, USA** to present papers in International Coastal Symposium during the period 20 - 23 May, 1998.
21. **Lisbon, Portugal** to present paper in the 17th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'98) during the period 5-9 July, 1998.
22. **Hong Kong, China** to present paper in the Seventh International Symposium on River Sedimentation and the Second International Symposium on Environmental Hydraulics, 15 - 19 Dec 1998.
23. **Singapore** to discuss about joint research project under a MOU signed between National University of Singapore Madras, 21-31 Dec, 1998.
24. **Cape Town, South Africa** to present a paper and chair a Technical session in the COPEDEC V Conference during 19 -24 April, 1999.
25. **Victoria, B.C, Canada** to present a paper in the Canadian Coastal Conference, 1999 during 19-23 May, 1999.
26. **Genoa, Italy** to present a paper in an International Conference on Monitoring and Control of Marine and Harbour Structures during 1-4 June, 1999.
27. **Leipzig, Germany** under joint project sponsored by German Agency for Technical Cooperation (GTZ) during the period 02-30 December, 1999.
28. **New Orleans, USA** to present papers in OMAE 2000 Conference on Energy for the New Millennium during 14-17 Feb, 2000.
29. **Ischia, Naples,(ITALY)** to present paper in the International Maritime Association of Mediterranean, IX Congress, (IMAM 2000), 2-6 April, 2000.
30. **Leipzig, Germany** under joint project sponsored by German Agency for Technical Cooperation (GTZ) during the period 17 May - 30 June, 2000.
31. **Bander Abbas, Iran** to present papers in ICOPMAS 2000 conf during 19 -23Nov, 2000
32. **T.U. Delft, The Netherlands** visiting Fellow invited by Stichting Her Lamminga Foundation 4-20 Dec, 2000
33. **Varna, Bulgaria** To present a paper in Intl. Conf. on Marine Industry (MARIND'96) 2-7 June '96
34. **Subang Jaya, Malaysia** , to present two technical papers in Asia-Pacific conference on offshore systems, April 23-26, 2001
35. **Germany** Visiting Professor to Univ. of Wuppertal, **Germany** invited by DAAD, Germany 10 Oct 2001 to 30 Sept 2002
36. **London, U.K** to participate in Visnet (Violent waves interaction with Structures) working group workshop in London, 30 Nov 2001
37. **Canada** to deliver an invited lecture in Queen's University, on 15th April 2002
38. **Glasgow, U.K** to participate in Visnet (Violent waves interaction with Structures) working group workshop in, 26 Apr 2002
39. **Singapore**, to present papers in 13th Congress of the Asia and Pacific division of the IAHR, 6-8, August 2002.
40. **Germany** Visiting Professor to Univ. of Wuppertal, invited by DAAD, Germany 2 June -20 July 2003
41. **Sri Lanka**, presented papers and chaired technical sessions in COPEDEC VI, Sep 15-19' 03

X. AWARDS

“**Best Citizen of India Award**” for the year 1998, awarded by Indian Publishing House, New Delhi.

“**Great Achiever of India**” awarded by Front for National Progress, New Delhi.

“**Vijay Shree Award**” awarded by India International Friendship Society, New Delhi.

“**Millennium Achiever Award**” awarded by International Institute of Success Awareness, New Delhi for the Outstanding Services, Contributions and Achievements in the field of Ocean Engineering.

“**Hall of Fame Award: A Tribute to Achiever**” awarded by International Publishing House, New Delhi.

“**LifeTime Excellence Award**” awarded by 21st Century Development Council, New Delhi in Nov 2000.

XI. MEMBERSHIP OF PROFESSIONAL BODIES

Member, "The Institution of Engineers", Madras (Membership No: M/045288/7)

Member, “International Association of Hydraulic Research”, The Netherlands.

Member, “Maritime Hydraulic Section of I.A.H.R., The Netherlands.

Member, “The American Society of Marine Engineering”, New York, USA.

Member, “American Society Of Mechanical Engineers”, New York, USA

Member, Executive Committee of Asia Pacific division of International Association of Hydraulic Research, The Netherlands for 2002-2004.

XII. LIST OF PUBLICATIONS:

INDIAN JOURNALS:

1. Narasimha Rao, T.V.S, **Sundar, V.** and Raju, V.S. "On Modeling the Distribution of Long shore Currents and Sediment Transport in the Surf Zone", Institution of Engineers (India), Vol.68, July 87, pp 27-34.
2. Sarma, K.G.S. and **Sundar, V.** "Analysis of Near shore Profiles off Paradip Port, East Coast of India" Indian Journal of Marine Sciences, Vol.17, June '88, pp 94-98.
3. **Sundar, V.** and Sarma, S.S. "Sediment transport rate and its distribution Across the Surf Zone off Gopalpur Port" Indian JI. of Marine Sciences, Vol.21, June 1992, pp 102-106.

INTERNATIONAL JOURNALS:

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