



Dr. S. MOHAN

Director

**National Institute of Technical Teachers Training and Research
(Ministry of Human Resource Development, GoI)
Tharamani, Chennai – 113**

&

Director

**Central Institute of Classical Tamil
(Ministry of Human Resource Development, GoI)
Chennai - 5**

Address for Communication:

Director
National Institute of Technical Teachers Training and Research
Tharamani,
Chennai – 600 113.
Phone : Cell : 94440 - 22160
Office : 91-44 -2254 1982 / 2254 2334
Residence : 91-44 -22576261
Fax : 91-44 -22541126
e-mail : director@nitttrc.ac.in; smohan@nitttrc.ac.in ; prof_smohan@yahoo.com;
smohan@iitm.ac.in

Permanent Address:

1420, Sundarapuram 1st St.
Teachers Colony Road
Thanjavur-613006.
Tamilnadu, INDIA.
Phone: (04362) – 2255617

I. Education

Indian Institute of Science, Bangalore, India	560 012.	Ph.D., 1987
Indian Institute of Science, Bangalore, India	560 012.	M.E., 1983
Madurai Kamaraj University, Madurai, India	625 021.	B.E., 1981

II. Profession & Employment

- Director, National Institute of Technical Teachers Training and Research, Chennai (May 2009 onwards) (on EOL from Indian Institute of Technology Madras)
- Director, Central Institute of Classical Tamil, Chennai, MHRD, Govt. of India. (May 2009 onwards)
- Head, Dept. of Civil Engg., Indian Institute of Technology, Madras, (2004 – 2008)
- Professor, Dept. of Civil Engg., Indian Institute of Technology, Madras, (Sept. 2000 onwards)
- Associate Professor, Dept. of Civil Engg., Indian Institute of Technology, Madras, (1996 to 2000).
- Visiting Scientist, School of Civil & Environmental Engg., Cornell University, Ithaca, New York, USA, (1994-1995).
- Assistant Professor, Dept. of Civil Engg., Indian Institute of Technology, Madras. (1991 - 1995).
- Lecturer, Dept. of Civil Engg., Indian Institute of Technology, Madras (1987 - 1990)

III. Administrative Experience

- ❖ **Director**, National Institute of Technical Teachers Training and Research, Chennai (May 2009 onwards)
- ❖ **Director**, Central Institute of Classical Tamil, Chennai, MHRD, Govt. of India. (May 2009 onwards)
- ❖ **Head, Dept. of Civil Engg.**, Indian Institute of Technology, Madras, (Nov. 2004 – Feb 2008)
- ❖ **Head, Environmental and Water Resources Engineering Division**, Department of Civil Engineering, 1997-2000.
- ❖ **Member**, Grievances Redressal Committee, IIT Madras, 2001-2007
- ❖ **Nominated member**, IIT Madras Campus Educational Society, 1996-98
- ❖ **Warden, Krishna Hostel**, IIT Madras, since, Dec. 1999- Jan. 2003.
- ❖ **Liaison Officer**, IIT Madras (2002-2005).
- ❖ **Advisor**, Foreign Students, IIT Madras (2002 - 2005).
- ❖ **President, Staff Club**, IIT Madras (2003-2005)
- ❖ **President, German Returnees Association, Chennai**, (since 2006)

IV. Research Areas of Interest

- Engineering Education
Competency based education, Reverse Engineering, Environmental Education, Quality of Teachers Training.

- Environmental Engineering:
Water Quality Modeling, Air Quality Modeling, Solid Waste Management, Environmental Systems Analysis, Risk Assessment, City Water Planning and Analysis, Environmental Impact Assessment
- Water Resources Management:
Reservoir Operation, Policy Issues, Multi-objective Analysis, Sustainable development, Climate Change and its Adaptation
- Groundwater Assessment and Management
Multi Aquifer Modeling, Artificial Recharge Studies, Contaminant Transport Modeling, Regional Modeling.
- Evolutionary Algorithms and their Applications.

V. Honors and Awards

- Awarded the **Best Educationist Award** for outstanding achievements in the field of Technical Education by Indian Solidarity Council, New Delhi, March 2010.
- Awarded the **Eminent Educationist Award** for the notable contributions in the field of Technical Education by National and International Consortium, New Delhi, August 2009.
- Awarded the title **Leading Engineers of the World – 2007** by International Biographical Centre, Cambridge, London for Notable Contributions in the arena of Civil Engineering, Environmental and Water Resources Systems, and Water Resources Engineering.
- Awarded the **Fellow of Institution of Public Health Engineers (India)** for the notable contributions in the field of Public Health engineering, from Feb. 2007.
- Awarded the **Shiksha Rattan Puraskar** award by the **India International Friendship Society, New Delhi** for Outstanding Services, Achievements and Contributions in the field of Water, in February 2007.
- Awarded the **Fellow of Indian Water Works Association** for the notable contributions in the field of Water Supply and Management, from January 2007.
- Awarded the **Certificate of Merit for the Best paper** among the papers presented in the National Conference on Environmental Conservation (NCEC-2006), held between September 1-3, 2006, at Birla Institute of Technology and Science, Pilani.
- Awarded the **Union Ministry of Water Resources - Dept. of Irrigation Medal** by Institution of Engineers (India) for the paper " Comparative Study on Multisite Streamflow Generation Models: HEC4 and ANN", published in the *Journal of Institution of Engineers (India)* during the year 2006.
- Awarded the **Fellow of Indian National Academy of Engineering** for the notable contributions in the field of Civil Engineering, during the year 2005.
- Awarded the **Fellow of Indian Water Resources Society** for the notable contributions in the field of Water Resources from December 2005.
- Awarded the **Rekha Nandi and Bhupesh Nandi Medal** by Institution of Engineers (India) for the paper "*Modeling of Pollutant Transport in Groundwater*", published in the JI. of Institution of Engineers (India), Environmental Engineering Division during the year 2005.
- Awarded the **Surendernath Mukherjee Memorial Medal** by Institution of Engineers (India) for the paper "Crop water Requirements in Command Area – A Comparative Analysis", published in the JI. of Institution of Engineers (India) during the year 1999.

- Biography has been incorporated in *"Who's Who in the World"*, 15th Edition 1998 onwards, published by **Marquis Who's Who**, New Providence, New Jersey, USA.
- **Best paper award** from Indian Water Works Association for the paper "Computer Aided Process Design of Reverse Osmosis Plant" for the year 1997.
- Awarded "**Indo- US Science and Technology Fellowship**" by United States Agency for International development (USAID) and Department of Science and Technology for the Collaborative research at Cornell University, New York for a period of one year (1994).
- Awarded "**Young Engineer**" for notable contribution in the field of water resources by the Central Board of Irrigation and Power, Government of India in April 1993.
- Awarded "**Certificate of Merit**" by the Central Board of Irrigation and Power for the Paper "An Optimization Model for Drought Management" for the year 1993.
- Awarded **DAAD fellowship**, Germany for the study visit to Ruhr University, Bochum, during May -Aug.1993.
- Awarded "**Certificate of Merit**" by the Central Board of Irrigation and Power for the paper "Comparison of Models for Evapotranspiration Estimation" for the year 1991.
- **Best paper award** from Indian Water Works Association for the paper "Time series Analysis of Water use data of a Metropolitan City" for the year 1991.
- **Dorr Oliver award** from Indian Water Works Association for the best paper "Simulation Study of Madras City Water Supply System" published in the Journal of IWWA in the year 1990.
- **Best paper award** from Institution of Engineers (India) for the paper "An Optimization Model for Solid Waste Management" for the year 1988.

VI. Participation in Scientific and Professional Societies

- **Fellow**, Indian National Academy of Engineers.
- **Fellow**, Institution of Public Health Engineers (India).
- **Fellow**, Indian Water Resources Society.
- **Fellow**, Indian Water Works Association.
- **Fellow**, Indian Association of Structural Engineers (F-211)
- **Editor**, International Journal of Technical and Vocational Education, Chennai (ISSN-0971-8508)
- **Editorial Board Member**, International Journal of Water Resources and Environmental Management (IJWREM)
- **Editorial Board member**, International Journal of Performability Engineering
- **Editorial Board member**, Indian Journal of Engineering, Science, and Technology
- **Editorial Board member**, Journal of Applied Sciences Research
- **Editorial Board member**, Australian Journal of Basic and Applied Sciences
- **Editorial Board member**, Journal of Agriculture and Biological Sciences
- **Editorial Board member**, International Journal of Engineering and Technology
- **Editorial Board member**, International Journal of Environmental Pollution & Toxicology
- **Member**, International Water Resources Association, Washington
- **Member**, International Association of Hydrologists, UK
- **Member**, Institution of Engineers (India).
- **Member**, Indian Association for Environmental Management.

- **Member**, Indian Association for Air Pollution Control.
- **Member**, Indian Association of Hydrologists.
- **Member**, Indian Society for Technical Education.
- **Member**, American Society of Agricultural and Biological Engineers.

VII. Service to Institute, State or Profession

- ❖ **Member**, All India Committee on Approval of Engineering Colleges, All India Council of Technical Education (AICTE), New Delhi.
- ❖ **Member**, All India Board of Vocational Education, AICTE, New Delhi
- ❖ **Member**, Governing Council, Sashta Group of Engineering Institutions, Chennai
- ❖ **Senate Member**, Sri Ramachandra University Chennai (since August 2009 onwards)
- ❖ **Member** Governing Council, VKS Educational Society, Karur.
- ❖ **Member**, Governing Council, Jansons Group of Institutions, Coimbatore.
- ❖ **Member**, Board of Studies in Environmental Sciences, Cochin University of Science and Technology, Kochi (from Dec 2007 onwards).
- ❖ **Chairman, Applied Research and Development Council**, Tamilnadu Pollution Control Board, Chennai. (From Oct. 2007 onwards)
- ❖ **Expert Committee Member**, Industrial Projects Evaluation, Ministry of Environment and Forests, Govt. of India. (From August 1999 onwards)
- ❖ **Expert Committee Member**, Coastal Zone Projects Evaluation, Ministry of Environment and Forests, Govt. of India. (From Sept. 2005 onwards)
- ❖ **Member**, Sectional Committee, *Management Systems for Eco-friendly Mining Operations*, Bureau of Indian Standards, Govt. of India (since April 2007)
- ❖ **Expert Member**, National Institute of Hydrology Society, Ministry of Water Resources, Govt. of India. (Since 2006)
- ❖ **Member**, Technical Advisory Committee, National Institute of Hydrology, Ministry of Water Resources, Govt. of India
- ❖ **Member**, Steering Committee, World bank Hydrology Projects, National Institute of Hydrology, Ministry of Water Resources, Govt. of India
- ❖ **Member**, Core Group on Floods, National Disaster Management Authority, Ministry of Water Resources, Govt. of India.
- ❖ **Technical Expert** in the Hydrological Information Systems Management group Technical (HISMGCT) constituted by Ministry of Water Resources, New Delhi.
- ❖ **Member**, Board of Studies, Cochin University of Science And Technology, Kochi, Kerala.
- ❖ **Member**, Board of Studies, Bannari Amman Institute of Technology, Sathyamangalam, Erode.
- ❖ **Member**, Board of Studies in Civil Engineering, Thiagarajar College of Engineering, Madurai
- ❖ **Member**, Board of Studies in Civil Engineering, Periyar Maniammai University, Thanjavur, Tamilnadu
- ❖ **Member**, Academic Council, VIT University, Vellore, Tamilnadu.
- ❖ **Member**, Academic Council, Kalasalingam University, Krishnan Koil, Tamilnadu.
- ❖ **Member**, Academic Council, Karpagam College of Engineering, Coimbatore, Tamilnadu
- ❖ **Member**, Academic Council, National Institute of Technical Teachers Training and Research, Taramani, Chennai. (2000-2009)

- ❖ **Expert Committee Member**, Advisory Committee, Hindu Religious and Charitable Endowment, Administration Department, Tamilnadu.
- ❖ **Member**, Anti-Disaster Plan Committee, Government of Tamilnadu, since Feb. 1997.
- ❖ **Member**, Technical Advisory Committee, Rain Centre, Mandaivelipakkam, Chennai
- ❖ **Member**, Users Committee, Hydrology Project, Central Water Commission, Govt. of India.
- ❖ **Member**, Technical Evaluation Committee, Hazardous Waste landfill Site Identification, Tamilnadu Pollution Control Board, Chennai.
- ❖ **Member**, Tender Evaluation Committee, Tamilnadu Pollution Control Board, Chennai.
- ❖ **Member**, Library Advisory Committee, Tamilnadu Pollution Control Board, Chennai.
- ❖ **Member**, Board of Studies, Annamalai University, Tamilnadu. 1998- 2002.
- ❖ **Member**, Board of Studies, Thiagarajar Engineering College, Tamilnadu. 1999-2001.
- ❖ **Expert Committee member**, AICTE, for Approval of Courses and Programs of Engineering Colleges.
- ❖ **Expert Member for Faculty Selection** in other IITs and Engineering Institutions
- ❖ **Reviewer for the following Journals;**
 - Water International (USA).
 - Hydrological Sciences Journal (UK).
 - Journal of Hydraulic Engineering. ASCE,
 - Journal of Irrigation & Drainage Engineering, ASCE
 - Journal of Computing in Civil Engineering, ASCE
 - Journal of Transportation Engineering, ASCE
 - Journal of Institution of Engineers (India).
 - Indian Journal of Engg. and Material Sciences.
 - Journal of Applied Hydrology.
 - Agricultural Water Management (UK).
 - Waste Management.
 - Journal of Water Resources Planning and Management, ASCE.
 - Hydrological Processes Journal, UK.
 - Journal of Agricultural Science and Technology, Iran
 - International Journal of Environment and Waste Management
 - Journal of Heuristics, Springer International
 - Journal of Agricultural Education and Extension (JAEE), The Netherlands
 - IEEE Transactions on Instrumentation and Measurement
 - The Canadian Journal of Chemical Engineering
 - Journal of Hazardous Materials
 - Water and Environment Journal
- ❖ **Expert Committee member**, National Board of Accreditation, AICTE
- ❖ **Expert Committee member**, UGC committee for Evaluation of Deemed to be University
- ❖ **Reviewer** for proposals for Research Projects Sponsoring Agencies.
- ❖ **Research Advisory Committee Member**, TWAD Board 1991-1995.
- ❖ **Executive Committee Member**, Geographical Committee for International Water Resources Association.
- ❖ **Member**, Library Advisory Committee, IIT Madras 1991-1993.
- ❖ **Member**, Board of Academic Research. IIT Madras 1995-1997.
- ❖ **Member**, Prizes, Awards & Scholarships Sub-committee, IIT Madras, 1996-97.
- ❖ **Member**, Discipline and Welfare of students Sub-Committee, IIT Madras, 1995-1996.

- ❖ Member, Campus Environmental Committee, IIT Madras, 2006- Till Date.
- ❖ Nominated member, IIT Madras Campus Educational Society, 1996-98
- ❖ Nominated Member, Executive Committee, Kendriya Vidyalaya, IIT Madras. (2005 onwards)
- ❖ Executive Committee Member, Regional Center for IWRS, Chennai, 1997-99.
- ❖ Thesis Examiner for 48 Ph. D & M.S. theses of various IITs and other Universities.
- ❖ Delivered a radio speech on "Technologies developed at IIT Madras" in All India Radio (AIR), Chennai
- ❖ Delivered a speech on "Management of Floods in Chennai" in the Raj TV during October 2005.
- ❖ Delivered a radio speech on "Pollution and Its Impacts on Water Bodies" in All India Radio (AIR), Chennai, on 23rd March 2008.
- ❖ Delivered a speech on "Engineering Education: Challenges and Options" in Kalaignar TV, Chennai on 10th February 2010.

VIII. Teaching

Under-graduate

- Engineering Fluid Mechanics
- Hydrology and Water Resources Engineering
- Irrigation Water Management
- Environmental Engineering
- Environmental Issues
- Introduction to Remote Sensing
- Water Resources Project Planning and Design
- Environmental Engineering Laboratory
- Advanced Environmental Engineering

Graduate

- Environmental Impact Assessment
- Models for Air and Water Quality
- Water Quality and Treatment
- Physico-Chemical Processes in Water and Wastewater Treatment
- Environmental Systems Analysis
- Water Resources Systems Engineering
- Advanced Hydrology
- Free Surface Flows
- Ground water Hydrology
- Stochastic Methods in Hydro sciences
- Economics of Water Resources Planning
- Irrigation Technology
- Design of Water Resources System
- Hydraulic Engineering Laboratory.

IX. Visits Abroad

- Visited Environmental Engineering Laboratory for Solid waste Management, INSA, Lyon France, January 2009 to April 2009 for a collaborative research project.
- Participated and presented a paper in the International Conference on Environmental Management, held at the International Islamic University, Malaysia, during 17th -19th July 2008.
- Conducted a one-week training programme on "Theory & Practice of Wastewater Management" for the practicing engineers from Govt. Departments, Sultanate of Oman at Caledonian College of Engineering, Muscat, during 26–31st May 2007.
- Participated in the INDO-FRENCH Conference on Water and Wastewater Treatment Technologies, at INSA Lyon, Villeurbanne, France, during 28th November and 2nd December 2006.
- Participated in the Second International Conference on "Artificial Intelligence: Applications and Innovations", Beijing, China, during September 2005.
- Participated in the 30th WEDC International Conference on "*People-Centered Approaches to Water and Environmental Sanitation*" at Vientiane, Laos during October 2004.
- Visited Loughborough University, UK during July 2004 for a collaborative research project.
- Visited Ecole Polytechnique Switzerland, Lausanne during July 2004 in connection with the PG Certificate Course on "Technology and Sustainable Development"
- Visited Ecole Polytechnique Switzerland, Lausanne during Feb. 2003 to July 2003 for a collaborative research project.
- Visited Universiti of Putra, Kula Lumpur, Malaysia, during March 2003 on an academic assignment.
- Visited Hydro Control, Italy in connection with the European Commission Sponsored Research project, during Mar.-Apr. 2002.
- Visited Hydraulic Research, Wallingford, UK, in connection with the European Commission Sponsored Research project, during June- August 2000.
- Visited Hydro Control, Italy in connection with the European Commission Sponsored Research project, during July-Aug. 1999.
- Visited Hydraulic Research, Wallingford, UK, in connection with the European Commission Sponsored Research project, during June- August 1998.
- Participated in the International Conference on Reservoir Sedimentation at Colorado State University, Fort Collins, Colorado, USA, during September 1996.
- Study visit to University of California, Davis, USA, during Oct-Nov., 1994.
- Collaborative Research works at Cornell University, Ithaca, New York, during Jan - Dec 1994, with Prof. D.P. Loucks.
- Research work at Ruhr-Universitat, Bochum during May -Aug.1993 under DAAD Fellowship.
- Visited Technical University of Aachen, during Aug1993 in connection with a collaborative research work.
- Study visit to University of Colorado, Denver, University of Colorado at Boulder and Colorado State University during June 1993.
- Participated in the International Conference on Computer Applications in Water Resources, Taiwan, ROC during July 1991.

X. Supervision of Dissertation Works

(a) Ph.D. Degree

<i>Name</i>	<i>Title</i>	<i>Year of Degree</i>
1. N. Arumugam	Expert Systems for Irrigation Management	1996
2. M. G. Devamane	Optimal Operational Rules for a Multipurpose – Multireservoir System. (Co-Advisor: Dr. K. Elango)	1999
3. P. Padalinathan	Decision Support System for Optimal Crop Planning and Reservoir Operation. (Co-Advisor: Dr. H. Raman)	1999
4. K. Nagarajan	Integrated Operation of Reservoir -Tanks System	2000
5. V. Jothiprakash	Optimal Conjunctive Operational Model in Irrigation System.	2000
6. M. N. Shrestha	Integrated Model Development for Evaluation of Effects of Land use in Hydrology	2001
7. A. Murugappan	Fuzzy Optimization Model for Tank Irrigation System Operation (Degree Awarded by Annamalai University) (Co-Advisor: Dr. T. Rangapathy, Annamalai University)	2001
8. V. Ramani Bai	An Integrated Optimal Reservoir Operation Plan	2004
9. P. Jegathambal	Multi-component Reactive Transport Modeling in Porous Media Using Stochastic Algorithms and Cellular Automata	2005
10. S.T. Ramesh	Effect of Recirculation Ratio on the Performance of Activated Sludge Process	2006
11. M. A. Prasad	Development of Operational Rules for Serial and Parallel Reservoir Systems Using Fuzzy Logic Approach	2007
12. Marykutty Abraham	Assessment of Effectiveness of Artificial Recharge Structures Using Groundwater Models.	2008
13. S.K. Pramada	Management of Coastal Aquifer System Thorough Modeling of Seawater Intrusion	2008
14. R. Gandhimathi	Solid Waste Leachate Characterization and Prediction of its Migration from an Open Dumping Sites	2008
15. D.P. Vijayalakshmi	Soft Computing Models for Runoff and Irrigation Return-Flow Estimation	2009
16. K.S. Jinesh Babu	Evolutionary Computing Algorithms for Water supply Distribution Networks Analysis	2009
17. S. Sivakumar	Soft Computing Techniques for Water Resources Systems Operation (<i>under progress</i>)	
18. G. Loganathan	Climate Change and its Impact on Water Resources (<i>under progress</i>)	
19. K. Pavan Kumar	Integrated Operation of Reservoir and Canal Systems (<i>under progress</i>)	
20. R. Ethirajan	Reactive Transport Modeling of VOC in a multi-source Environment (<i>under Progress</i>)	
21. Ram Sundaram	Optimal Operational Strategies of Reservoirs for Minimization of Pollution due to Textile Wastewater (<i>Under Progress</i>)	

b) Graduate (M.S.) Degree

Name	Title	Year
1. P.K. Sahoo	Stochastic Modeling of Droughts	1993
2. T. Madhuri	Reservoir Operational Rules derivation using Genetic Algorithms	1998
3. V.S.V. Ramkumar	Modeling of Quantity of Runoff from Watersheds	2002
4. P.K. Sreejith	Optimal Pumping Plans for Ground Water Extraction in Lignite Mines	2002
5. N. Magesh	Effect of Temperature on BOD Decay Rate and its Implication on Waste Load Allocation in Rivers	2005
6. J. Senthilnathan	Removal and Recovery of Hexavalent Chromium from Electroplating Wastewater using supported Liquid Membrane	2005
7. P. Shanmugham	Kinetic Parameters Study on Bio Reactors	2005
8. G. Venkatareddy	Evaluation of Seismic Liquefaction of Soils Using Soft-Computing Techniques (Co-Advisor: Dr. A. Boominathan)	2005
9. Sangeetha Kumari	Development of Models to Assess the Recharge in an Unconfined Aquifer System	2005
10. Y. Prasanth Reddy	Development of Multi-parameter Line Source Model for prediction of Vehicular Pollution	2006

c) Graduate (M.Tech) Degree

Name	Title of the Thesis	Year
1. N.C.V. Rangacharya	Expert System for Drought Management	1989
2. G. Premganesh	Real-time Reservoir Operation	1989
3. Ch. Srinivasulu	Evapotranspiration Models for Tamilnadu State	1989
4. D.M. Raipure	Multi-objective Analysis of Reservoir Systems	1991
5. U. Srinivas	Drought Analysis and Management	1991
6. G. Santosh Thampi	Simulation Study of Madras City Water Supply System	1991
7. K. Srinivasaraju	A Simulation-Optimization Model for Adayar River System	1992
8. U. Saravanakumar	Multipurpose Multi-reservoir Simulation: A case study	1993
9. S. Ranganathamoorthy	Systems Analysis Study for the Thungabhadra Reservoir Operation	1993
10. B. Simhadri Rao	Optimal Operation of a Tank Irrigation System	1994
11. R. Shivashanmugham	Performance Evaluation of Reverse Osmosis Process for Wastewater	1996
12. R. Chitrakumari	Optimal Operation of Reservoir Systems using Genetic Algorithms	1996
13. D.V.S. Nagendrakumar	Numerical Simulation of One-dimensional Infiltration	1996
14. M. Muthukumar	Modeling of Pollutant Transport in Ground Water	1997
15. M. Anjaneyalu	Study on Artificial Recharge for Waste Water Reclamation	1997
16. G. Laxminarayana	A Neural Network Model for Reservoir Operation	1997
17. R. Kannan	GIS based Decision Support System for Pollution Assessment	1998

18.	P. Kamaraj	Studies on Solar Evaporation from Soak Liquor in Tanneries	1998
19.	K. Annapoorna	Network Flow Algorithm for Optimal Multi-Reservoir Operation	1998
20.	V. M. Bhindu	Assessment of Runoff Curve Numbers Using GIS	1999
21.	R. Radhika	River Water Quality Modelling: A Case Study	1999
22.	S. Sarasavani	Optimal Routing of Solid waste Transport Using GIS	1999
23.	M. Manoharan	Studies on Treatment of Hazardous Waste (Cyanide) in Chennai Region	1999
24.	R. Sankar	Sea Water Intrusion Study in the South Chennai Coastal Aquifer	2000
25.	A. S. Rajkumar	Air Quality Simulation Modelling: A Case Study	2000
26.	R. Umayakunjaram	Wastewater Treatment Systems Modelling Using ANN	2000
27.	Deepak Kumar	Study of Leachate Migration and Design of Secured Landfill Facility: A Case Study	2000
28.	Surjeet Bivalkar	Comparative Evaluation of Analytical Element Method and the Conventional Finite Element Method for Groundwater Modelling	2000
29.	Vivek Bedekar	Sensitivity Analysis by Automatic Differentiation Technique Applied to Quasi-3D Finite Element Ground Water Flow Model	2001
30.	Munai Prasad	Cellular Automata for Water Quality Modelling	2001
31.	V. Ravikumar	Risk Assessment in Industries using Fault-Tree Analysis	2001
32.	S. Sathya Raj	GIS Based Air Quality Modelling: A Case Study	2001
33.	Sharath Sarkar	Air Quality modeling for vehicular Pollution	2002
34.	G. Veeranjaneya Prasad	Modeling of Bioremediation: A Case Study	2002
35.	M. Jangareddy	Derivation of Optimal Operational Policies Using Genetic Algorithm for Multi Reservoir systems	2002
36.	V.G. Sathishkumar	Optimal Pumping strategies for Groundwater Pressure Control	2002
37.	B. Dhanasekaran	Optimization of Dewatering Scheme for Delhi Metro	2003
38.	K. Gopi	Groundwater Vulnerability Assessment Using GIS.	2003
39.	A. Mani	Optimization of Multi-aquifer System Pumping Using GA.	2003
40.	Deepak Kumar	Modeling of Landfill Contaminant Transport	2003
41.	D. Narasimha Rao	Development of Mathematical Model for Contaminant Transport	2003
42.	S.B. Shinde	Derivation of Reservoir Operation Rules using Fuzzy Logic	2004
43.	K. Danimon	GIS based Risk Assessment in Water Supply Distribution Network	2004
44.	P.K. Vijayalakshmi	Development of Models for Operation of Mutipurpose Multireservoir Systems	2005
45.	B.K. Bindhu	Laboratory Study on Biomethanization of Kitchen Wastes	2005
46.	K. Shibu	Environmental Risk Assessment of an Oil pipeline Project	2005
47.	V. Kavin Sumitha	Removal of Lead and Copper Using Casuarina Equisetifolia Bark	2005
48.	K. Santosh Kumar	Agent-Based Models for Simulation of Water-sharing Between Different Users	2005
49.	C.T. Dhanya	Application of Case-based Reasoning in Modeling	

50.	C.S. Gyanranjan	Reservoir Operation Assessment of Indoor Air Pollution in an Urban Area: Case Study	2006
51.	Neena Sunny	Study on Biomethanization of Wastewater from JAM industries	2006
52.	G. Sreelakshmi	Removal of Heavy Metals by Low-cost Adsorbent from Leachate	2006
53.	Ajit Kumar	Multi Reservoir Systems Operation Using Soft computing Techniques	2006
54.	N. Remya	Prediction of the Effect of Organic Matter and Solute Concentration on Nitrate Sorption	2006
55.	K. Srikanth	Performance Study of Membrane Bioreactor in Treating Domestic and Textile Wastewaters	2008
56.	N. Vetrivel	Impact of Sand Mining on Groundwater Recharge in Palar Basin	2008

d) For Under-graduate (B. Tech) Degree

	Name	Title of the Thesis	Year
1.	S. Amalan	Environmental Systems Analysis	1989
2.	N. Navaruparaja	Micro Computer Modeling of Waste Water Treatment	1989
3.	M. Keshavan	Environmental System Modeling using Neural Networks	1993
4.	Amit Nag	Water Quality Model Parameters Estimation using Genetic Algorithms	1996
5.	L. Kishore	Integrated Hydrological Modeling using GIS	1996
6.	K. Saravanan	Developing an Expert System for Treatment Control Advice for a Common Effluent Treatment Plant for Tanneries.	1997
7.	K. Badrish	Optimal Control of Activated Sludge Process Using GA.	1997
8.	J. Sreeram	Application of Neural Networks for the Containment of Groundwater Contamination.	1997
9.	M.S. Ramesh	Optimal Routing for the Transportation of Hazardous Waste Using GIS	1998
10.	H. Ramesh	Pipe Network Optimization Using Genetic Algorithms	1999
11.	L. Sumant Kumar	Development of GIS based model for Estimating Surface Runoff	1999
12.	K.V. Nag	Development of a GIS model for Air Pollution	2002
13.	Karan Kapoor	A Neural Network Model for Wastewater Treatment System Studies	2002
14.	P.V.S. Bharath	Ground Water Pollution Assessment Using GIS	2002
15.	P.V. S. Raju	Simulation & Optimization of Construction Dewatering in Delhi Metro Rail Corporation: A Case Study	2003

16.	P. Bharathkumar	Design of Secured Landfill Facility and study of Leachate Migration using a Mathematical Model	2003
17.	Asok Matta	Development of an Integrated Software for Environmental Impact Assessment	2004
18.	Y.V.V. Sudheer	Computer Aided Design of Wastewater Recycling System for IIT Campus	2004
19.	S. Balaji Kumar	Design of Wastewater Recycling System for IIT Campus	2004
20.	S.N. Bhargav	Solid Waste Characterization and Design of Landfill System for IIT Campus	2004
20.	Praveen Joseph	Biomedical Waste Management: A study for Chennai City Hospitals	2005
21.	M. Naveen	Software Development for EIA Clearance	2005

XI. Summary of Sponsored Research Projects

A. National Projects

- (i) Project title : Flood Simulation and Multiobjective Multireservoir Operation in Adyar River System.
Sponsor : Central Board of Irrigation & Power, Govt. of India, New Delhi.
Investigators : H.Raman, K.Elango and S.Mohan
Duration : May 5th, 1989 - May 4, 1993.
Amount : Rs. 7.96 Lakhs
- (ii) Project title : Water Resources Project Management
Sponsor : MHRD, Govt. of India, New Delhi
Investigators : H.Raman and S.Mohan
Duration : Dec 1989 - Aug. 1992
Amount : Rs. 8.5 Lakhs
- (iii) Project title : Expert System for Water Resources Management
Sponsor : Department of Science & Technology, GOI, New Delhi.
Investigators : H.Raman and S.Mohan
Duration : March 1991 - Feb 1993.
Amount : Rs. 4.6 Lakhs
- (iv) Project title : Effectiveness of Percolation Ponds
Sponsor : Department of Science & Technology, Govt. of India.
Investigators : K.Elango and S.Mohan
Duration : March 1992 - Feb 1995.
Amount : Rs. 4.08 Lakhs
- (v) Project title : Environmental System Analysis
Sponsor : Indian Institute of Technology, Madras
Investigators : S.Mohan and M. Chidambaram
Duration : Aug. 1992 - July 1993.
Amount : Rs.36,000

- (vi) Project title : Development of an Interactive Software for Watershed Analysis
 Sponsor : Dept. of Science & Technology, Govt. of India, New Delhi.
 Investigators : S.Mohan and H.Raman
 Duration : 2 years
 Amount : Rs. 3,96,000

- (vii) Project title : Study on Enhancement of Recharge Potential in the Recharge Area to the Neyveli Deep Seated Aquifer
 Sponsor : Ministry of Coal, Govt. of India, New Delhi.
 Investigators : S.Mohan and A. Boominathan
 Duration : 3 years
 Amount : Rs. 39,18,600

- (viii) Project title : Environmental Technology
 Sponsor : Indian Institute of Technology Madras, Chennai
 Investigators : S.Mohan and Team
 Duration : Three years
 Amount : Rs.35,00,000

B. International Projects

- (i) Project title : Expert System for Optimal Operation of Water Resources System
 Sponsor : BMFT, Germany & MHRD, Govt. of India.
 Investigators : H.Raman, K.Elango and S.Mohan
 Duration : 3 years
 Amount : Rs.4,00,000 + DM 50,000.

- (ii) Project title : Fuzzy Logic Procedure for Maintenance Planning of Irrigation and Drainage Systems
 Partners : Hydraulic Research, Wallingford, UK & Hydro Control, Italy.
 Sponsor : European Commission.
 Investigators : K.Elango and S.Mohan
 Duration : 3 years
 Amount : Rs. 73,30,000

- (iii) Project title : Study of Salt-Water Intrusion and Evolution of Strategies for Salt-water Movement Control.
 Sponsor : Hydro Control, Italy.
 Investigators : S.Mohan
 Duration : 2 years
 Amount : Rs. 4,15,000

- (iv) Project title : Risk Assessment and Management in Urban Piped System
 Partners : Loughborough University, UK & Makerere University, South Africa.
 Sponsor : DFID, UK
 Investigators : S.Mohan and K.Elango
 Duration : 3 years

- Amount : Rs. 16,80,000
- (v) Project title : Intermittent Water Supply: Design and Control
Partners : Loughborough University, UK.
Investigators : S.Mohan
Duration : 1 year
Amount : Rs. 13,60,000
- (vi) Project title : Asian Coastal Ecosystems: An Integrated Database and Information Management System (DIMS) for assessing Impact of Climate Change and its appraisal
Partners : Asian Pacific Network, University of Nottingham, Malaysia
Investigators : S.Mohan
Duration : 1 year
Amount : Rs. 4,00,000

XII. Summary of Consultancy Projects

- 1) Project title : Computer Aided Simulation of Tambaraparani River System
Sponsor : World Bank through Govt. of Tamilnadu
Investigators : H.Raman, K.Elango and S.Mohan
Duration : Jan.1992 - Dec.1993.
Amount : Rs. 24 Lakhs
- 2) Project title : Salt Water Barrier Design at Visakapatnam Port Trust
Sponsor : Richardson & Cruddas Ltd. Madras
Investigators : Muthukrishnaiah, K. Elango and S.Mohan
Amount : Rs.100,000
- 3) Project title : Design of Drainage System for North Madras Thermal Plant.
Sponsor : Sri. Ranganathar & Co. Ltd. Madras
Investigator : S.Mohan
Duration : Three months
Amount : Rs.30,000
- 4) Project title : Analysis of Soil Moisture Status in Cauvery Basin.
Sponsor : Cauvery Technical Cell, Govt. of Tamilnadu, Madras
Investigators : H.Raman, K. Elango and S.Mohan
Duration : One year
Amount : Rs.1.05 lakhs
- 5) Project title : Evaluation of Artificial Recharge alternatives for Neyveli Aquifer.
Sponsor : Neyveli Lignite Corporation, Neyveli.
Investigators : H.Raman and S.Mohan
Duration : One year
Amount : Rs.1, 00,000

- 6) Project title : Assessment of Groundwater Recharge Potential in Neyveli Basin.
 Sponsor : Neyveli Lignite Corporation, Neyveli.
 Investigators : S.Mohan and H.Raman
 Duration : One year
 Amount : Rs. 2,50,000
- 7) Project title : Long Duration Artificial Recharge by Injection Wells
 Sponsor : Neyveli Lignite Corporation, Neyveli.
 Investigator : S.Mohan and H. Raman
 Duration : One year
 Amount : Rs. 6,50,000
- 8) Project title : Water Quality Analysis and Modelling of Neyveli Aquifer Basin.
 Sponsor : Neyveli Lignite Corporation, Neyveli.
 Investigator : S.Mohan
 Duration : One year
 Amount : Rs. 17,00,000
- 9) Project title : Study of Rainfall-Runoff Relationships for Tanks, and Reservoirs.
 Sponsor : Institute for Water Studies, Public Works Dept., Govt. of Tamilnadu.
 Investigator : S.Mohan
 Duration : Two years
 Amount : Rs. 6,78,000
- 10) Project title : Application of Models for Planning and Management of Water Allocation
 Sponsor : Krishnan Associates, Chennai
 Investigator : S.Mohan
 Duration : Two years
 Amount : Rs. 8,10,000
- 11) Project title : GIS based Regional Micro level Model for Assessment of Recharge in Neyveli Watershed basin.
 Sponsor : Neyveli Lignite Corporation, Neyveli.
 Investigator : S.Mohan
 Duration : One year
 Amount : Rs. 6,50,000
- 12) Project title : Design of Storm Water Treatment System for Neyveli Township
 Sponsor : Neyveli Lignite Corporation, Neyveli.
 Investigators : S.Mohan, S.Kumaraswamy, DVS Murty, and K. Ramamurthy
 Duration : One Year
 Amount : Rs. 5,00,000
- 13) Project title : Development of optimal pumping plans for pressure control in existing and Future mines in Neyveli.
 Sponsor : Neyveli Lignite Corporation, Neyveli.

- Investigator : S.Mohan
Duration : One year
Amount : Rs. 11,50,000
- 14) Project title : Modeling of seawater intrusion in South-Chennai Aquifer System.
Sponsor : Institute for Water Studies, PWD, Govt. of Tamilnadu.
Investigator : S.Mohan
Duration : Two years
Amount : Rs. 12,40,000
- 15) Project title : Development of Training Module on GIS and their Applications
in Environmental Engineering
Sponsor : TNPC Board, Chennai Under DANIDA Project.
Investigator : S.Mohan
Duration : One year
Amount : Rs. 2,50,000
- 16) Project title : Development of Groundwater Management System Model for the
Multi-Aquifer Systems in Neyveli Basin.
Sponsor : Neyveli Lignite Corporation, Neyveli.
Investigator : S.Mohan
Duration : Two years
Amount : Rs. 10,64,000
- 17) Project title : Development of Optimized Dewatering Scheme for Delhi Metro.
Sponsor : Larson & Tubro Pvt. Ltd.
Investigator : V.S. Raju & S.Mohan
Duration : Two years
Amount : Rs. 15,00,000
- 18) Project title : Design of Storm Water Treatment System for Neyveli Township –
Phase II
Sponsor : Neyveli Lignite Corporation, Neyveli.
Investigators : S.Mohan, S. Kumaraswamy, K. Ramamurthy and Ligy Philip
Duration : One Year
Amount : Rs. 6,00,000
- 19) Project title : Estimation of Stage-Discharge Relationship for Puthan Dam
Sponsor : IHH, Poondi, PWD, Govt. of Tamilnadu
Investigators : S.Mohan
Duration : One Year
Amount : Rs. 1,00,000
- 20) Project title : Development of Optimal Reservoir Operation Policies for
Multipurpose Multi-Reservoir System using Soft-Computing
Techniques based DSS.
Sponsor : Institute for Water Studies, PWD, Govt. of Tamilnadu.

- Investigator : S.Mohan
Duration : Two years
Amount : Rs. 6,66,000
- 21) Project title : Assessment of Return flows in Periyar- Vaigai Systems
Sponsor : Hydrology Project, Public Works Dept., Govt. of Tamilnadu.
Investigator : S.Mohan
Duration : One year
Amount : Rs.1,50,000
- 22) Project title : Design of Rainwater Harvesting System for the Industry Complex
Sponsor : Electro-Steel Corporation, Chennai
Investigators : S.Mohan & K. Ramamurthy
Duration : Six Months
Amount : Rs. 50,000
- 23) Project title : Assessment of Return flows in a Canal System through Field Measurements and Modeling
Sponsor : Public Works Dept., Govt. of Tamilnadu.
Investigator : S.Mohan
Duration : One year
Amount : Rs. 30,000
- 24) Project title : Design of Rainwater Harvesting System for LANCO Industries
Sponsor : LANCO Industries, Khalakasthi, A.P.
Investigators : S.Mohan & K. Ramamurthy
Duration : Six Months
Amount : Rs. 30,000
- 25) Project title : Design of Water Treatment System for Mine- IA water
Sponsor : Neyveli Lignite Corporation, Neyveli.
Investigators : S.Mohan, S.Kumaraswamy, R.Ambalavanan, and K. Ramamurthy
Duration : Five Months
Amount : Rs. 2,50,000
- 26) Project title : Development of Simulation Model to Analyze the flow pattern in the Cauvery Basin
Sponsor : Cauvery Technical Cell, Govt. of Tamilnadu, Chennai
Investigator : S.Mohan
Duration : One year
Amount : Rs.2,95,000
- 27) Project title : Numerical Modelling of Bhavani Kattalai Barrage III
Sponsor : IHH, Poondi, PWD, Govt. of Tamilnadu
Investigator : S.Mohan
Duration : One Year
Amount : Rs. 1,65,300

- 28) Project title : Rectification of Cyanide Problems in Effluent Treatment Plant & Performance Analysis.
 Sponsor : Gabriel India Limited, Hosur
 Investigators : S.Mohan & K. Gopalakrishna
 Duration : One Year
 Amount : Rs. 1,10,000
- 29) Project title : Technical Services For setting up of Sewage Treatment Plant.
 Sponsor : Tidal Park, Chennai.
 Investigators : S.Mohan, K. Gopalakrishna & K. Ramamurthy
 Duration : One Year
 Amount : Rs. 2,00,000
- 30) Project title : Water Quality Analysis and Performance Monitoring of Water Treatment Plant.
 Sponsor : Neyveli Lignite Corporation Limited, Neyveli.
 Investigator : S.Mohan
 Duration : One Year
 Amount : Rs. 82,650
- 31) Project title : Checking Design & Performance Analysis of Common Waste Disposal Facility at SIPCOT, Gummidipoondi.
 Sponsor : Tamilnadu Waste management Limited, Chennai
 Investigators : S.Mohan, S.R. Gandhi and A. Boominathan
 Duration : 18 months
 Amount : Rs. 5,50,000
- 32) Project title : Analysis of Bio-Sludge for Landfill Applications.
 Sponsor : Indian Additives Ltd, Chennai.
 Investigator : S.Mohan
 Duration : 2 months
 Amount : Rs. 10,800
- 33) Project title : Study on Infiltration Measures into Groundwater Aquifer.
 Sponsor : Neyveli Lignite Corporation Limited, Neyveli.
 Investigator : S.Mohan
 Duration : Three Years
 Amount : Rs. 7,35,300
- 34) Project title : Design of Wet Scrubber for Boilers.
 Sponsor : UNICON Engineers, Coimbatore
 Investigator : S.Mohan & SNM Shiva Nagendra
 Duration : Six Months
 Amount : Rs. 30,000
- 35) Project title : Assessment of Treatment Options for Combined Treatment of

- Effluents from Domestic and Small Scale Textile Dyeing Units in Erode
 Sponsor : Tamilnadu Water Supply and Drainage Board, Erode.
 Investigator : S.Mohan
 Duration : Six Months
 Amount : Rs. 58,000
- 36) Project title : Environmental Audit Study of Factory.
 Sponsor : CORDITE Factory, Aruvangadu, Nilgiris.
 Investigator : S.Mohan & DV S Murthy (Chemical Engg.)
 Duration : Six Months
 Amount : Rs. 1,12,200
- 37) Project title : Air Quality Monitoring in and Around the Furnace Unit.
 Sponsor : Ventura Power Systems India Ltd., Chennai
 Investigator : S.Mohan, K. Gopalakrishna & SNM Shiva Nagendra
 Duration : Six Months
 Amount : Rs. 1,12,360
- 38) Project title : Study on Environmental Impacts of Effluents on Groundwater.
 Sponsor : Penar Specialities Ltd., Madurai.
 Investigator : S.Mohan
 Duration : One Year
 Amount : Rs. 1,12,200
- 39) Project title : Review of Alternate Alignments for the Hyderabad Outer Ring Road
 Project Phase-II on Environmental and Technical Considerations
 Sponsor : Hyderabad Urban Development Authority, Hyderabad.
 Investigators : S.Mohan & A. Veeraraghavan
 Duration : One Year
 Amount : Rs. 12,00,000
- 40) Project title : Design of Recovery Plant for Nitrocellulose from Wastewater of
 CORDITE Factory,
 Sponsor : CORDITE Factory, Aruvangadu, Nilgiris.
 Investigator : S.Mohan & DVS Murthy (Chemical Engg.)
 Duration : One Year
 Amount : Rs. 2,50,000
- 41) Project title : Design of Effluent Treatment System for Seabass Hatchery
 Sponsor : Rajiv Gandhi Centre for Aquaculture, Sirkaali.
 Investigator : S.Mohan & K. Gopalakrishna
 Duration : One Year
 Amount : Rs. 2,00,000
- 42) Project title : Design of Storm Drainage System.
 Sponsor : Indian Oil Corporation Ltd., Cochin.
 Investigator : S.Mohan

- Duration : Six Months
Amount : Rs. 50,000
- 43) Project title : Design Checking and Approval for 50MLD & 62.5 MLD Sewage Treatment Plants in Jaipur
Sponsor : VA TECH WABAG Limited, Chennai
Investigators : S.Mohan, R.Sarathy (Elect. Engg.) & R. Gnanamurthy (Mech Engg)
Duration : One Year
Amount : Rs. 6,66,000
- 44) Project title : Evaluation of Proposed Alignments of Outer Ring Road, Hyderabad on Environmental and Technical Considerations.
Sponsor : Hyderabad Urban development Agency, Hyderabad
Investigators : S.Mohan, and A. Veeraraghavan.
Duration : One Year
Amount : Rs. 13,32,000
- 45) Project title : Evaluation of Solidwaste Processing Facility for Guntur City
Sponsor : Guntur Municipal Corporation, Guntur.
Investigators : S.Mohan
Duration : Six Months
Amount : Rs. 5,00,000
- 46) Project title : Design Proof Check for Cyclic Activated Sludge Technology
Sponsor : Madurai Municipal Corporation, Madurai.
Investigators : S.Mohan
Duration : Six Months
Amount : Rs. 8,00,000
- 47) Project title : Design of Earthdams for Polavaram Project
Sponsor : CR18G-BSCPL Joint Venture, Hyderabad.
Investigators : S.Mohan, S. Narasimha Rao, and P.S. Rao
Duration : Ten Months
Amount : Rs. 5,00,000
- 48) Project title : Environmental Audit of an Effluent Treatment system and Reject Management System of a Textile Processing Unit
Sponsor : Pioneer Processing India.Ltd, Erode.
Investigators : S.Mohan and Indumathi Nambi
Duration : Six Months
Amount : Rs. 1,50,000
- 49) Project title : Compilation and Validation of Water Quality Data of Rivers .
Sponsor : Tamilnadu Pollution Control Board, Chennai.
Investigator : S.Mohan
Duration : Six Months
Amount : Rs. 50,000

- 50) Project title : Educational Consultancy on the Recruitment of Engineers.
 Sponsor : Tirupathi Tirumala Devasthanam, Tirupathi.
 Investigator : S.Mohan and S. Narasimha Rao
 Duration : Six Months
 Amount : Rs. 30,000
- 51) Project title : Design of Rainwater Harvesting System for Electrosteel Industry.
 Sponsor : Electrosteel Industries Limited, Kolkata
 Investigator : S.Mohan
 Duration : Six Months
 Amount : Rs. 1,50,000
- 52) Project title : Design of Cell in the Hazardous Waste Storage Facility.
 Sponsor : Ramky Environmental Systems, Hyderabad
 Investigator : S.Mohan
 Duration : One Year
 Amount : Rs. 2,00,000
- 53) Project title : Integrity Assessment of Mercury Bearing Sludge Storage Pit.
 Sponsor : Tamil Nadu Petroproducts Limited, Manalli, Chennai
 Investigator : S.Mohan
 Duration : Three Months
 Amount : Rs. 1,00,000
- 54) Project title : Development of policy framework for managing induced development of coastal road corridors in Tamil Nadu.
 Sponsor : Tamil Nadu Road Sector Project under World Bank Scheme
 Investigator : S.Mohan, Veeraraghavan, Chella Rajan and SivaNagendra
 Duration : One Year
 Amount : Rs. 22,00,000
- 55) Project title : Checking the design and monitoring the project of second cell of the landfill at common hazardous waste treatment, storage and disposal facility.
 Sponsor : Ramky Group, Chennai
 Investigator : S.Mohan, S.R. Gandhi, Robinson
 Duration : Three Months
 Amount : Rs. 2,00,000
- 56) Project title : Study on possibilities of reuse of treated effluent
 Sponsor : BILT Graphic Paper Products Limited, Maharashtra
 Investigator : S.Mohan
 Duration : Six Months
 Amount : Rs. 2,00,000
- 57) Project title : Storm water design for the airforce runway

Sponsor : Garrison Engineer, Air Force, India.
Investigator : S.Mohan and S.R. Gandhi
Duration : One Month
Amount : Rs. 75,000

58) Project title : Characterization of Brine Sludge
Sponsor : Tamil Nadu Petroproducts Limited, Manalli, Chennai
Investigator : S.Mohan
Duration : Three Months
Amount : Rs. 1,50,000

59) Project title : Evaluation of Resettlement Action Plan Implementation for East Coast Corridor: Socio-Economic and Environmental Aspects
Sponsor : Tamil Nadu Road Sector Project under World Bank Scheme
Investigator : S.Mohan, V.K. Natarajan and Borayan
Duration : Six Months
Amount : Rs. 9,60,000

XIII. Workshops/Short term courses

- Organized one day International Seminar on "Sustaining Quality in Engineering Education: Global Challenges" in collaboration with Thiagarajar College of Engineering, Madurai, at Madurai on 26th February 2010.
- Organized one day International Seminar on "Development of Quality Management Systems for Sustainable TVET" in collaboration with Colombo Plan Staff College for Technician Education, Philippines at National Institute of Technical Teachers Training and Research, Chennai, during January 28th 2010.
- Organized one week In house Country Program "Generic Soft Skills Development" in collaboration with Colombo Plan Staff College for Technician Education, Philippines at National Institute of Technical Teachers Training and Research, Chennai, during January 25th - 30th 2010.
- Organized a one week training program "MIS – Environment Impact Assessment for PWD Engineers" at National Institute of Technical Teachers Training and Research, Chennai, during Nov 23rd – 27th, 2009.
- Organized a National Workshop on "*Climate Change and Its Impacts and Adaptation*" at National Institute of Technical Teachers Training and Research, Chennai, on during 16th September 2009.
- Organized a National Workshop on "*Environmental Management*", at National Institute of Technical Teachers Training and Research, Chennai, on during 26th June 2009.
- Organized a National Workshop on "*Sustainable Environment*", at Thiagarajar College of Engineering, Madurai, jointly organized by IIT Madras and TCE, Madurai, during 14th -15th March 2008.
- Organized an Indo-French Workshop on "*Water and Wastewater Treatment and Management*" jointly organized by IIT Madras and INSA Lyon, France at IIT Madras, during 4th -6th February 2008.
- Organized a National Seminar on "*Nanotechnology and Society*", jointly organized by IIT Madras and Bannari Amman Institute of Technology, Sathyamangalam, Coimbatore, at

Bannari Amman Institute of Technology, Sathyamangalam, on 24th January 2008. (as part of VRD Chennai Programme)

- Organized a National Workshop on "*Strategies for Sustainable Environment (NWSSE-2007)*", IIT Madras, 26th -27th September 2007.
- Organized a training program on "*Advanced Methods of Wastewater Sampling, Quality, Analysis and Data Interpretation for Sewage Treatment Plants Design*", for the Engineers from Hyderabad Urban Development Authority, Hyderabad, during 13th – 19th August, 2007.
- Organized a training program on "*Environmental Impact Assessment*" for the Engineers and Scientists of Tamilnadu Pollution Control Board, Chennai, during 16th – 20th July 2007.
- Organized a training program on "*Ambient Air Quality Management*" for the Engineers and Scientists of Tamilnadu Pollution Control Board, Chennai, during 2nd – 6th July 2007.
- Organized a training program on "*Hazardous Waste Management*" for the Engineers and Scientists of Tamilnadu Pollution Control Board, Chennai, during 25th – 29th June 2007.
- Organized a training program on "*Water Quality Management*" for the Engineers and Scientists of Tamilnadu Pollution Control Board, Chennai, during 7th – 11th May 2007.
- Organized a National Seminar on "*After Tsunami: Lessons Learnt and Future Strategies*", jointly organized by IIT Madras and French Institute of Pondicherry, at Pondicherry on 24th February 2007. (as part of VRD Chennai Programme)
- Organized a training program on "*Design of Wastewater Treatment Systems*", for the Engineers from Hyderabad Urban Development Authority, Hyderabad, during 22nd – 27th January, 2007.
- Organized a training program on "*Theory and Practice of Wastewater Management*" for the Engineers from Hyderabad Urban Development Authority, during 26th Oct. -2nd Nov. 2006.
- Organized a National Seminar on "*Energy and Environment*", jointly organized by IIT Madras and Vellore Institute of Technology, at Vellore on 7th October 2006. (as part of VRD Chennai Programme)
- Organized a training program on "*Environmental Impact Assessment and Remediation Methods*" for the Engineers and Scientists of Tamilnadu Pollution Control Board, Chennai, during 20th -24th, March 2006.
- Organized a training program on "*Water Quality Modeling*" for the Engineers and Scientists of Tamilnadu Pollution Control Board, Chennai, during 27th February – 3rd March 2006.
- Organized a training program on "*Air Quality Modeling*" for the Engineers and Scientists of Tamilnadu Pollution Control Board, Chennai, during 16th -20th, January 2006.
- Organized a training program on "*MODFLOW Models Ground Water Management*" for the Geologists of Neyveli Lignite Corporation Ltd. during 27th -30th, December 2005.
- Organized a Short Course on "*Environmental Impact Assessment*" at IIT Madras, for Teachers from Engineering Colleges and for Practicing Engineers, 12th-23rd December, 2005.
- Organized an International Workshop on "*Impact of Climate Change on Water Related Infrastructures in Developing Countries (IWISACC-2005)*", IIT Madras, 25th -26th August 2005.
- Organized a National Conference on "*Advances in Water Engineering for Sustainable Development (NCAWESD- 2005)*", IIT Madras, 16th -17th May 2005.
- Organized a National Workshop on "*Incineration and Solid Waste Management*", April 29th - 30th 2005.

- Organized a training program on "*Ground Water Modeling*" for the Geologists of Neyveli Lignite Corporation Ltd. during 22-27, November 2004.
- Organized a Short Course on "*Computer Applications in Water Resources*" at IIT Madras, for engineers from PWD, Govt. of Tamil Nadu during 19th-24th Jan. 2004.
- Principal Co-Ordinator for Short term Course on "*Design of Irrigation Structures using Computers*", 23rd-28th, December 2003.
- Organized a training program on "Sea water Intrusion Modeling Studies", during November 11-15, 2002.
- Organized a Workshop on "Sea water Intrusion Modeling in the Coastal Aquifer Systems", during November 29th 2002.
- Organized a training program on "Application of System Models for Planning and Management of Water Allocation", during August 19-23, 2002.
- Organized a National Workshop on "Rain Water Harvesting", 15th-16th, Dec. 2001.
- Organized a training program on "Rainfall-Runoff Modeling", during June 26-29, 2001.
- Principal Co-ordinator for QIP Short term Course on "*GIS and Their Applications in Environmental Engineering*", 4th-9th, June 2001.
- Organized a Short term Course on "*Environmental Systems Management*", 8-12, December 2000.
- Principal Co-Ordinator for CEP Short term Course on "*GIS and Their Applications in Environmental Engineering*", 13-22, July 2000.
- Organized an International Workshop on "*Maintenance of Irrigation Systems*", during Jan 24-25, 2000.
- Principal Co-Ordinator for Short term Course on "*Fuzzy Systems Modelling in Civil Engineering*", 3-6, June 1998.
- Organizing Secretary for a National Conference on "*Fuzzy sets and their Applications*" during June 1997.
- Principal Co-ordinator for short-term course on "*Computer Applications in Irrigation Water Management*", during December 1995.
- Principal Co-ordinator for National Workshop on "*Planning for Drought Hazards Mitigation*" during May 1993, supported by Planning Commission and MHRD, GOI.
- Principal Co-ordinator for short-term course on "*Computer Modelling of Water Resources Systems*", during June 1992.
- Organizing Secretary for a National Workshop on "*Water Resources Project Management*" during June 1990.
- Principal Co-ordinator for short-term course on "*Computer Aided Statistical Analysis in Hydrology and Water Resources Engineering*", during Nov - Dec 1989.

XIV International Post Graduate Certificate Course

- Directed the third edition of the International Post Graduate Course on "TECHNOLOGY AND SUSTAINABLE DEVELOPMENT" during 2nd January to 22nd April 2008. This course is also jointly organized by Ecole Polytechnique Federale De Lausanne, Switzerland and IIT Madras.
- Directed the second edition of the International Post Graduate Course on "TECHNOLOGY AND SUSTAINABLE DEVELOPMENT" during 3rd January to 15th April 2005. This course

was jointly organized by Ecole Polytechnique Federale De Lausanne, Switzerland and IIT Madras.

- Directed the International Post Graduate Course on "TECHNOLOGY AND SUSTAINABLE DEVELOPMENT" during 5th January to 19th April 2002. This course was jointly organized by Ecole Polytechnique Federale De Lausanne, Switzerland and IIT Madras. The participants were from all over the world.

XV Research Publications

National Journals	: 53
International Journals	: 54
National Conferences	: 100
International Conferences	: 81
Books, Chapters in Books, & Manuals	: 07
Research Reports	: 05

XV. Personal Data

Date of Birth : 22nd February 1959

Married ; Two Children - One Daughter (Ms. Abhinaya Mohan)
& One Son (Mr. Ajay Roopesh)

Passport Number: Z084251 [Valid Upto 24.02.2012]

Nationality : Indian

LIST OF RESEARCH PUBLICATIONS

I. REFEREED NATIONAL JOURNALS:

1. S.Mohan. "Solid Waste Management by Integer Programming", *Journal of Institution of Public Health Engineers*, Vol.4, No.1, pp. 29-34, 1983.
2. S.Mohan. "Waste Water Management Model for a Soap Industry", *Journal of Institution of Public Health Engineers*, Vol.5, No.4, pp 6-11, 1984.
3. S.Mohan. "Transportation Models for Water Supply Planning ", *Journal of Indian Water Works Association*, Vol.16, No.1, pp. 7-11, 1985.
4. S.Vedula, S. Mohan and V.S.Shrestha. "Improved Operating Policies for Bhadra Reservoir", *Sadhana, Journal of Engineering Sciences*, Vol.9, No.3, pp. 157-176, 1986.
5. S.Mohan. "Environmental Systems Analysis", *Journal of Institution of Public Health Engineers*, Vol.8, No.1, pp. 1-8, 1987.
6. S.Amalan and S.Mohan. "An Optimization Model for Solid waste Management", *Journal of Institution of Engineers (India)*, Vol.70, No.T2, pp. 9-11, 1989 (**Awarded the Best Paper Award from Institution of Engineers, India**).
7. S.Mohan and S.Amalan. "Environmental Information System", *Journal of Institution of Public Health Engineers*, Vol.9, No.2, pp. 24-35, 1989.
8. H.Raman, S.Mohan and Santosh G.Tampi. "Simulation Study of Madras City Water Supply System", *Journal of Indian Water Works Association*, Vol.2, pp. 271-279, 1990 (**Awarded the Best Paper Award by Indian Water Works Association for the Year 1990**).
9. S.Mohan. "Application of Stochastic Models for Water Use Series", *Journal of Institution of Public Health Engineers*, Vol.10, No.2, pp. 50-56, 1990,.
10. S.Mohan., H.Raman and G.Premganesh. "Real-time Reservoir Operation", *Journal of Indian Water Resources Society*, Vol.11, No.1, pp. 35-37, 1991.
11. S.Mohan and D.M.Raipure. "Multiobjective River-basin Planning: A Case Study", *Journal of Institution of Engineers (India), Civil Engg. Division*, Vol.72, pp. 161-167, 1991.
12. S.Mohan and P.K.Sahoo. "Comparative Evaluation on Methods of Friction Loss Computation", *Journal of Indian Water Works Association*, Vol.22, No.4, pp. 265-271, 1991.
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