

Dr E J JAMES –[PROFILE]

1. PERSONAL DATA

- 1.1 Full name : ERINJERY JOSEPH JAMES
- 1.2 Address : Director,
Water Institute – A Centre of Excellence,
Karunya University, Karunyanagar,
Coimbatore
INDIA
- 1.3 Place of birth : Kattoor, Trichur District, Kerala, India
- 1.4 Date of birth : September 18, 1947
- 1.5 Marital status : Married
- 1.6 Citizenship : India

2. EDUCATION

- 2.1 B E : Civil Engineering with emphasis on hydrology and water resources engineering. Karnataka Regional Engineering College (presently NITK), University of Mysore, March 1973
- 2.2 M Tech : Civil Engineering with specialization in coastal engineering and hydraulics. Karnataka Regional Engineering College (presently NITK), University of Mysore November 1975
- 2.3 Ph D : University of Calcutta, 1981

3. POST-DOCTORAL WORK

“Estimation of hydrologic variables”, Institute of Hydrology, Wallingford, U K, 1984

4. MEMBERSHIP IN PROFESSIONAL BODIES

Fellow, Institution of Engineers (India); Life Member, Indian Water Resources Society; Member, International Association of Hydrologic Sciences; Member, Indian Association of Hydraulic Research; Member, International Water History Association

5. PROFESSIONAL SPECIALITY AND INTEREST

Hydrology, Water Resources Engineering, Estuarine Dynamics, Wetland Management, Coastal Engineering

6. PROFESSIONAL EXPERIENCE/EMPLOYMENT

** August 2008 to the Present*

*Water Institute – A Centre of Excellence, Karunya University, Coimbatore, **Director***

6.1 September 2007 to July 2008

Consultant in Hydrology

6.2 February 2003 to September 2007

*Centre for Water Resources Development and Management, **Executive Director***

6.3 November 2001 to February 2003

*Centre for Water Resources Development and Management, **Scientist F and Executive Director-in-charge***

6.4 June 1996 – November 2001

*Centre for Water Resources Development and Management, **Scientist F and Head, Surface Water Division and Coordinator & Head, Subcentres***

The academic assignments include: (i) project investigation (ii) research co-ordination (iii) research guidance, (iv) preparation of reports, (v) project formulation, (vi) consultancy, (vii) preparing policy documents, etc.

6.5 June 1994 – June 1996

*Centre for Water Resources Development and Management, **Executive Director***

6.6 January 1988 – June 1994

*Centre for Water Resources Development and Management, **Scientist E1/E2 and Head, Surface Water Division***

6.7 August 1981 - 1988

*Centre for Water Resources Development and Management, **Scientist C and Head-in-charge, Surface Water Division***

*Served also as **Registrar** of Centre for Water Resources Development and Management from October 1987 to January 1988.*

6.8 October 1980 – August 1981

*Surface Water Division, Centre for Water Resources Development and Management, **Scientist – C***

6.9 April 1980 – October 1980

Surface Water Division, Centre for Water Resources Development and Management, **Scientist – B**

6.10 May 1976 – April 1980

Technical Directorate, Institution of Engineers (India), **Technical Officer and Technical Editor**

7. PROFESSIONAL RECOGNITION

- 7.1 British Council Scholarship, 1984
- 7.2 U S Science Foundation Fellowship, 1986
- 7.3 Certificate of Merit for the Best Technical Paper, Institution of Engineers (India), 1989
- 7.4 Keynote Speaker at the International Workshop of UNEP on ‘Management of wetlands in relation to river basins’, Kuala Lumpur, 1993
- 7.5 Hema Prabha Award for the Best Paper in Civil Engineering Journal, Institution of Engineers (India), 1997
- 7.6 Engineer of the Year-2000, Institution of Engineers (India)
- 7.7 Member, National Wetlands Committee, 2000 onwards
- 7.8 Expert Witness of the State of Kerala, Cauvery Water Disputes Tribunal, 2001
- 7.9 Member, Working Group on ‘Tidal Waters’, ICID, 2002
- 7.10 Chairman of Task Force for revising the State Water Policy, 2004
- 7.11 Member, Research Group, INCID, 2005
- 7.12 Member of Coordination Committee on Disaster Management, 2005
- 7.13 Member of Dam Safty Authority of Government of Kerala since 2005

8. MAJOR DEVELOPMENTAL PROJECTS INITIATED FOR THE GOVERNMENT

- 8.1 Kerala Community Irrigation Project funded by the Dutch Govt. (drafted the proposal)
- 8.2 Kerala Minor Irrigation Project funded by the European Community (drafted the proposal)
- 8.3 Attappady Eco-restoration Project funded by JBIC of Japan (drafted the proposal)
- 8.4 Environmental report on Kuriakutty- Karappara Multipurpose project (drafted the document)
- 8.5 Irrigation Management Training Centre (WALMI) of Kerala funded by USAID (drafted the proposal)
- 8.6 Thrissur Water Management Project funded by the Dutch Govt. (drafted the proposal)
- 8.7 Water availability estimation for the World Bank funded drinking water schemes (consultancy)
- 8.8 Soil and water conservation measures for the World Bank funded Kerala Forestry Project (consultancy)
- 8.9 Watershed management project in Attappady funded by UNDP (investigated)

- 8.10 Management of Vembanad- Kol wetland system funded by UNEP and Wetlands International (consultancy)
- 8.11 Management of fresh water sources in the Lakshadweep Islands funded by the Canadian Government (being implemented)
- 8.12 Management Action Plan for Ashtamudi and Sasthamkotta wetlands funded by MoEF (being implemented)
- 8.13 Policy Statement on Integrated River Basin Management (drafted for UNDP/IGDR)
- 8.14 Collaborative programme on inland navigation of Kerala with KTH Sweden as a part of INSA-KTH Agreement (being carried out)
- 8.15 Collaborative programme with Kyoto University, Japan (initiated)
- 8.16 Groundwater quality studies in Kerala in collaboration with WSP, World Bank (being carried out)

9. RESEARCH PROJECTS INVESTIGATED (PI)/COORDINATOR

9.1 Operational hydrology

- 9.1.1 To establish rainfall-runoff criteria for Chaliyar river basin of Western Ghats region (funded by Central Board of Irrigation and Power)
- 9.1.2 Evaluation of hydrologic parameters and surface water potential of Deviar watershed in the Western Ghats region (funded by Western Ghats Cell, Planning Commission)
- 9.1.3 Hydrology of cultivated watersheds of midland Kerala (funded by State Committee on Science, Technology and Environment)
- 9.1.4 Surface water potential studies of Kuttiyadi river basin (funded by State Committee on Science, Technology and Environment)
- 9.1.5 Collection and documentation of hydrological data of Kerala (funded by State Committee on Science, Technology and Environment)
- 9.1.6 Evaluation of existing raingauge stations in Kerala (funded by State Committee on Science Technology and Environment)
- 9.1.7 Towards evolving basin plans for Pamba and Achencoil river basins (funded by Irrigation Department, Govt of Kerala)
- 9.1.8 Evolving models for integrated and sustainable management of small watersheds in semi-arid regions through investigations using modern techniques (funded by UNDP and Department of Science and Technology, Govt of India)
- 9.1.9 Development of a natural resources information system for Periyar river basin in Kerala State (funded by State Committee on Science, Technology and Environment, Govt of Kerala)
- 9.1.10 System simulation and reservoir operation for Kuttiyadi schemes in Kerala (funded by Indian National Committee on Hydrology)
- 9.1.11 Identification of waterlogged areas arising out of selected irrigation projects of Kerala (funded by Indian National Committee on Irrigation and Drainage)

9.2 Forest hydrology

- 9.2.1 Impact of deforestation on hydrologic parameters in the Western Ghats region of Kerala (funded by Ministry of Environment & Forests, Govt of India)
- 9.2.2 Meteorological and hydrological monitoring and investigations in the core zone of Nilgiri biosphere reserve – Silent Valley and Nilambur Kovilakam subbasins (funded by Ministry of Environment & Forests, Govt of India)
- 9.2.3 Assessment of environmental degradation of Attappady region (funded by State Committee on Science, Technology and Environment, Govt of Kerala)
- 9.2.4 Consultancy for soil and water conservation works in forest areas (funded by Forest Department, Govt of Kerala)

9.3 Limnology

- 9.3.1 Management and conservation of Pookot lake ecosystem in the Western Ghats (funded by Ministry of Environment & Forests, Govt of India)
- 9.3.2 Environmental conservation of Pookot lake (Phase 2) (funded by State Committee on Science, Technology and Environment, Govt of Kerala)

9.4 Fluvial hydraulics

- 9.4.1 Studies on sediment yield from watersheds of Western Ghats region (funded by Ministry of Environment & Forests, Govt of India)
- 9.4.2 Sedimentation survey of Kuttiyadi hydel reservoir (funded by Kerala State Electricity Board)
- 9.4.3 Sedimentation studies in the reservoirs of hydel projects (funded by Kerala State Electricity Board)

9.5 Estuarine dynamics

- 9.5.1 Dynamics of circulation and mixing in the Beypore estuary on the Malabar coast (funded by Central Board of Irrigation and Power)
- 9.5.2 Studies on salinity intrusion problems in the Muvattupuzha estuary (funded by Hindustan Newsprint Limited)
- 9.5.3 Dynamics of coastal plain estuaries of Malabar coast (funded by Department of Science & Technology, Govt of India)

9.6 Water and environment

- 9.6.1 Studies on landslips and landslides in the Wynad district of Western Ghats (funded by Ministry of Environment & Forests, Govt of India)
- 9.6.2 Resources inventory of Palghat district (funded by Kerala Electricity Board)
- 9.6.3 Water related science, technology and environmental management for youth/women/young scientist (funded by State Committee on Science, Technology and Environment)

9.7 Application of remote sensing techniques

- 9.7.1 Landcover classification of Western Ghats of Kerala using satellite data (funded by Western Ghats Cell)
- 9.7.2 Assessment of impact of hydrological processes on the Nilgiri biosphere reserve using remote sensing techniques (funded by Ministry of Environment & Forests, Govt of India)
- 9.7.3 Assessment of inundation and damages due to 1992 floods in southern parts of Kerala (funded by State Committee on Science, Technology & Environment, Govt of Kerala)
- 9.7.4 Investigations into the formation of mudbanks of Malabar coast (funded by Department of Atomic Energy, Govt of India)

9.8 *Water resources development and management*

- 9.8.1 Integrated water management in the command area of Kuttiyadi irrigation project (funded by Central Board of Irrigation and Power)
- 9.8.2 Evaluation of tanks and ponds of Kerala (funded by State Committee on Science, Technology and Environment)
- 9.8.3 Investigation of a micro-hydel scheme at Kakkadampoil (funded by State Committee on Science, Technology and Environment)
- 9.8.4 Integrated management of Periyar basin (funded by State Committee on Science, Technology and Environment)
- 9.8.5 Preparation of basin plan for Bharathapuzha basin (for Government of India)
- 9.8.6 Development of community irrigation schemes in Kerala with farmers' participation (for Department of Irrigation, Government of Kerala, later funded by Dutch Govt & EC)
- 9.8.7 Hydrological investigations for the World Bank funded water supply schemes in Kerala (for Kerala Water Authority)
- 9.8.8 EIA study of Kerala Community Irrigation Project (funded by Kerala Community Irrigation Project funded by the Dutch Govt)
- 9.8.9 Identification of waterlogged areas arising out of selected irrigation projects of Kerala (funded by Indian National Committee for Irrigation and Drainage)
- 9.8.10 Hydrological and other related investigations for integrated drinking water supply schemes in selected problem districts of Kerala (funded by Rajiv Gandhi National Drinking Water Mission, Dept of Rural Development, Govt of India)
- 9.8.11 Preparation of water atlas for Andaman and Nicobar islands and the islands of Lakshadweep (funded by Rajiv Gandhi National Drinking Water Mission, Dept of Rural Development, Govt of India)
- 9.8.12 Water atlas of Kerala (funded by State Committee on Science, Technology & Environment, Govt of Kerala)
- 9.8.13 Integrated mission for sustainable development of Thrissur district (funded by Indian Space Research Organisation)
- 9.8.14 Management of fresh water sources in the Lakshadweep islands (funded by India- Canada Environment Facility)
- 9.8.15 Evaluation of Pazhassi Irrigation Project (funded by CWC)

9.9 *Wetland management*

- 9.9.1 Vembanad-kol wetland system in relation to drainage basin management (funded by Wetlands International, Asia-Pacific)
- 9.9.2 Coordinating case studies on wetland management in relation to river basins for Asia-Pacific region (funded by UNEP)
- 9.9.3 Integrated water resources management for Loktak wetland (funded by ICEF)
- 9.9.4 Opportunity costs with special reference to Vembanad-Kol wetland system (funded by UNDP, Department of Environment, Indira Gandhi Institute of Development Research)
- 9.9.5 Conservation and management of Ashtamudi lake: Management Action Plans (funded by Ministry of Environment & Forests, Govt. of India)

9.10 Wasteland development

- 9.10.1 Integrated and sustainable eco-development of Attappady wastelands (funded by JBIC, Japan: R&D component)

10. RESEARCH GUIDANCE (TOPICS OF THESIS WORKS)

- 10.1 Mathematical modelling for mountainous river basins – a case study from south India (Ph D thesis, IIT, Madras 1991)
- 10.2 Developing a model for river basin management in the humid tropic region of Kerala (Ph D thesis, being done at BITS)
- 10.3 Hydrological studies on the Malabar coast with special reference to rainfall-runoff modelling (M Tech thesis, NITK, 1983)
- 10.4 Circulation and mixing processes in the estuaries of Malabar coast (M Tech thesis, NITK, 1983)
- 10.5 Studies on estuarine dynamics – Kuttiyadi estuary (M Tech thesis, NITK, 1984)
- 10.6 Dynamics of Chettuva – Kottappuram sound and Kuttiyadi estuary of Malabar coast (M Tech thesis, NITK, 1985)
- 10.7 Regional flood studies – Kerala (M Tech thesis, NITK, 1985)
- 10.8 Studies on forest hydrology – Western Ghats region (M Tech thesis, NITK, 1986)
- 10.9 Estuarine studies in the Beypore (M Tech thesis, NITK, 1986)
- 10.10 Mathematical modelling with special reference to Kuttiyadi river basin (M Tech thesis, NITK, 1986)
- 10.11 Physical processes – Beypore estuary (M Tech thesis, NITK, 1987)
- 10.12 Hydrology of small watersheds of Kerala (M Tech thesis, NITK, 1987)
- 10.13 Salinity intrusion studies on the Kerala coast (M Tech thesis, NITK, 1987)
- 10.14 Design of rain gauge network using different methods for major river basins of Kerala (M Tech thesis, NITK, 1989)
- 10.15 Studies on sedimentation and tides in the Beypore estuary of Malabar coast (M Tech thesis, NITK, 1989)
- 10.16 Application of linear model (UCG) for rainfall-runoff studies in Kerala (M Tech thesis, NITK, 1990)
- 10.17 Application of linear perturbation model (UCG) for rainfall-runoff studies in Kerala (M Tech thesis, NITK, 1990)
- 10.18 Evaluation of command area activities of Malampuzha and Peechi irrigation projects (M Tech thesis, NITK, 1991)

- 10.19 Studies on geomorphology of Kerala coast (M Tech thesis, NITK, 1992)
- 10.20 Towards evolving an integrated river basin plan for the Meenachil river of Kerala State (M Tech thesis, Bangalore University, 1993)
- 10.21 Hydrological investigations in the environmentally degraded Attappady Valley of Nilgiri Biosphere Reserve (M Tech thesis, Bangalore University, 1993)
- 10.22 Systems approach to Kuttiyadi river schemes, (M Tech thesis, Bangalore University, 1994)
- 10.23 Development of a water resources plan for the Pamba basin in Kerala (M Tech thesis, Bangalore, University, 1995)

11 HIGHER TRAINING SUPERVISED

- 11.1 Training of 4 students from Farnborough College of Technology, U K was coordinated and supervised (1984, 1985)
- 11.2 Coordinated (technical) 50 training programmes under the Irrigation Management Training Cell (WALMI) (funded by USAID) at CWRDM
- 11.3 A series of lectures were given in different courses conducted for professionals by Irrigation Management Training Cell (WALMI) on the topics:
 - (i) Water resources of Kerala, (ii) Irrigation scenario of Kerala, (iii) Irrigation management – present status in Kerala, (iv) Rotational distribution system (*Warabandhi*), (v) Hydrology of small cultivated watersheds (*elas*), (vi) Dynamics of circulation and mixing in the estuaries, (vii) Integrated development and management of river basins, (viii) Physical modelling in hydraulics and dimensional analysis, (ix) Reservoir sedimentation – processes, survey and case studies, and (x) Streamflow measurement and sediment rating curves, (xi) Canal operation and maintenance, (xii) Participatory Irrigation Management, (xiii) EIA for water resources projects, (xiv) Watershed hydrology, (xv) Coastal engineering, (xvi) Modern trends in urban water management, (xvii) Hydrology of wetlands, (xviii) Forest hydrology, (xix) Management of flash floods, (xx) Water related environmental problems, (xxi) Impact of intrerbasin transfer, (xxii) Traditional water management practices – rainwater harvesting, (xxiii) Drought management in Kerala (xxiv) New Paradigms in natural resources management

12 CONSULTANCY/COLLABORATIVE WORKS FOR USER AGENCIES

- 12.1 Hydrologic investigations on water supply schemes funded by World Bank (for KWA, 1984)
- 12.2 Computation of discharge for preventing salinity intrusion into the Kottappuram-Chettuva sound (for PWD, 1985)
- 12.3 Report on short term measure to control salinity into the Periyar river (for Government of Kerala, 1983)
- 12.4 Infiltration studies for Idamalayar command area Periyar basin (for Agricultural Department, 1983)
- 12.5 Preparation of a report for community irrigation projects with farmers' participation (for Government of Kerala, carried out under Indo-Dutch Collaboration, 1987)

- 12.6 Studies on water and energy needs of Palghat region (for Government of Kerala, 1987)
- 12.7 Investigation on a mini hydel scheme at Kakkadampoil (for Government of Kerala, 1987)
- 12.8 Assessment of impact of water conservation structures developed for cardamom irrigation in the Udumbanchola taluk (for Cardamom Board, Ministry of Commerce, Government of India, 1990)
- 12.9 Technical and economic feasibility studies of reclamation of Cherandathur chira for agricultural purpose (for Department of Irrigation)
- 12.10 A report on 'Environment of Kerala coast and its management' (for State Committee on Science, Technology and Environment)
- 12.11 Sediment deposition problem on the southern side of the breakwater at Bepore (for Harbour Engineering Department)
- 12.12 Desilting of Kallarkutty hydel reservoir (for KSEB)
- 12.13 Guidelines for revision of ECC project proposal on tanks/ponds (for Irrigation Department, now being implemented)
- 12.14 Demonstration of flow measurements in irrigation canals (for Irrigation Department)
- 12.15 Assisting the Govt of Kerala in the preparation of Water Policy (for Govt of Kerala, 1992)
- 12.16 Preparation of a case study on 'Vembanad-Kol wetland system in relation to river basin management' (for UNEP/WI-AP, 1995)
- 12.17 Coordinating case studies on 'Wetland and river basin management' for Asia-Pacific region – Australia, Bangladesh, India, Indonesia, Malaysia (for UNEP/WI-AP, 1995-96)
- 12.18 EIA for community irrigation projects of Kerala (funded by Dutch Govt 1996)
- 12.19 Preparing Policy Statements on 'River basin management' for Govt of India (for UNDP, MoEF, IGIDR, 1997)
- 12.20 Investigating opportunity costs for values of Vembanad-Kol wetland system (for UNDP, MoEF, IGIDR, 1998)
- 12.21 Soil and water conservation measures for the forest watersheds of Kerala (for the World Bank Project of Kerala Forest Department, 1998)
- 12.22 Drinking water projects for different physiographic zones of Kerala (for ICEF)
- 12.23 Integrated water management for Loktak wetland (for LDA, ICEF funded project)
- 12.24 Assisting the Govt of Kerala in the preparation of a White Paper on Water Resources (for Government of Kerala, 1999)

13. SPECIAL ASSIGNMENTS (MEMBERSHIP IN EXPERT COMMITTEES)

- 13.1 Member, Organising Committee of the International Symposium on Flood Frequency and Risk Analysis, Louisiana State University, Baton Rouge, USA (1985-86) (a US Science Foundation Fellow)
- 13.2 Member, Task Group on Land and Water Management of State Committee on Science, Technology and Environment, Government of Kerala (1985-86)
- 13.3 Technical Co-ordinator, National Workshop on Interbasin Transfer of Water, CWRDM, Kozhikode (1984)

- 13.4 Member, Committee for Conservation and Management of Pookot Lake Eco-system (WGDP) (1983)
- 13.5 Member, Expert Committee on Water Supply Schemes for Calicut Corporation, Kozhikode (1982-84)
- 13.6 Technical Co-ordinator, Regional Workshop on Collection and Documentation of Hydrological Data for Surface Water Studies, CWRDM, Kozhikode (1983)
- 13.7 Member, Steering Committee, First National Seminar on Computer Science and Technology for National Development, Cochin (1985)
- 13.8 Member, Board of Examiners, Mangalore University, (1984-85, 1987-96)
- 13.9 Member, Board of Examiners, Bangalore University (1994-96)
- 13.10 Member, Board of Studies, University of Calicut
- 13.11 Member, Board of Studies, Cochin University of Science & Technology
- 13.12 Member, Task Force , 8th Plan on Command Area Development (1988-89)
- 13.13 Member, Task Force, 9th Plan on Minor Irrigation, Flood Control and Anti-Sea Erosion (1988-89)
- 13.14 Member, Task Force , 9th Plan on Irrigation Projects (1988-89)
- 13.15 Member, Working Group on Surface Water Modelling and Analysis Division of National Institute of Hydrology, Roorkee (1986-91)
- 13.16 Member, Working Group on Mountain Hydrology Division of National Institute of Hydrology, Roorkee (1986-1991)
- 13.17 Member, Panel of Referees of Civil Engineering Division Journal, Institution of Engineers (India), Calcutta
- 13.18 Member, Committee for Preparation of Report on Coastal Zone Management, Government of Kerala
- 13.19 Member, Expert Team for Assessment of Environmental Impact of Water Conservation Structures for Cardamom Irrigation in Udumbanchola Taluk, Spices Board, Ministry of Commerce, 1989-90
- 13.20 Commission (one-man) to submit a report to the Calicut Court on Silt Removal from the Cherupuzha Tributary of Chaliyar River (1987)
- 13.21 Member, Committee constituted by State Committee on Science Technology and Environment to study and submit a report to High Court on Consequences of Silt Removal from Kabbini and Meenachil River Beds (1988)
- 13.22 Member, Committee for preparing a Master Plan for Resources Development and Management of Kerala, Irrigation and Design and Research Board (1988-90)
- 13.23 Member, Committee for Development of Pookot Lake Area, Constituted by State Committee on Science Technology and Environment (1990)
- 13.24 Member, Environmental Consultative Committee, State Committee on Science Technology and Environment (Kerala)
- 13.25 Member, Governing Body, Kerala Samuhya Jalasejana Samithi (Dutch funded), Thrissur
- 13.26 Member, Command Area Development (Kerala)
- 13.27 Member, Committee on Flood Mitigation, Government of Kerala
- 13.28 Member, Governing Body of Integrated Rural Technology Centre, Palakkad
- 13.29 Chairman, Local Advisory Committee, Regional Science Centre, Calicut
- 13.30 Member, National Lake Conservation Plan, National River Conservation Directorate, MoEF, Government of India
- 13.31 Member, RAC, Central Inland Capture Fisheries Research Institute, Barrackpore
- 13.32 Member, Science and Technology Advisory Committee, Ministry of Water

Resources, Government of India

- 13.33 Member, Governing Body, AHADS, Attappady (JBIC funded project)
- 13.34 Member in the Expert Committee to study the availability of water in Periyar river due to the implementation of stand-alone water supply scheme by the Kochi Refineries Ltd.
- 13.35 Member, Wetlands Management Expert Committee, MoEF, Govt. of India
- 13.36 Chairman, TAC, ICEF Project on Watershed Management (Kerala)
- 13.37 Conducted around 50 seminars, workshops, brain-storming sessions
- 13.38 Interacted with around 40 NGOs working on different land and water management problems

- 13.39 Participated in 50 radio/TV programmes, mainly dealing with water Management
- 13.40 Member, Governing Body, Malabar Botanical Garden, Kozhikode
- 13.41 Member, Management Committee, Rajiv Gandhi Centre for Biotechnology
- 13.42 Member, Executive Committee, Kerala State Council for Science, Technology and Environment
- 13.43 Member, Research sub committee on Wetlands, MoEF, Govt. of India
- 13.44 Member in Empowered committee for the approval of action plan of rainwater harvesting campaign in Kerala
- 13.47 Convener and Chairman, Expert Committee constituted by Hon'ble High Court of Kerala, investigating the groundwater in and around Plachimada
- 13.48 Chairman, Committee to evolve Operation Plan for Thanneermukkom barrage, Vembanad, Wetland, Government of Kerala.

14. PUBLICATIONS

14.1 Scientific/technical papers

James E J, Studies on salinity intrusion into the estuaries of Kerala on the south-west coast of India. *Regional Workshop on Limnology and Water Resources Management in Developing Countries of Asia and Pacific*, University of Kuala Lumpur, 1982.

James E J, Circulation, mixing and pollution distribution in estuaries - a review, *Journal of Institution of Engineers (India)*, Vol 63, EN 1, October 1982.

James E J and Ramanathan M G, Salinity distribution, pollution dispersion and tidal flushing in the Beypore estuary on the Malabar coast, *Journal of Institution of Engineers (India)* Vol 63, ENM 2, February 1983.

James E J and Padmini V, Quantitative geomorphologic studies of the Kuttiyadi river basin on the Malabar coast, *Journal of Institution of Engineers (India)*, Vol 63, C 1 5, March 1983.

James E J and Sreedharan K E, Processes of exchange of fresh and salt waters in the Beypore estuary on the Malabar coast, *Journal of Institution of Engineers (India)*, Vol 64, C 1 2, September 1983.

Sreedharan K E and James E J, Design of rain gauge network for the Chaliyar basin using spatial correlation techniques, *Journal of Institution of Engineers (India)*, Vol 64, C 1 3, November 1983.

James E J and Vamadevan V K, Applicability of certain modern developments in water use technology to Kerala region, Proceedings, *Symposium on Water Management*, CBIP, New Delhi, June 1983.

James E J, Establishing a hydrometeorological data bank at CWRDM, Proceedings, *Workshop on Scientific Methods for Collection and Documentation of Hydrologic Data*, CWRDM, Kozhikode, May 1983.

Kuruville V O, Vamadevan V K and James E J, Improved water management techniques for plantation crops in humid tropics-west coast region of Kerala, *National Seminar on Integrated Approach to Water Management in the Command Areas* Water Technology Centre, IARI, New Delhi, September 8, 1983.

Vamadevan V K and James E J, Appropriate water use technology for Kerala region, Proceedings, *National Seminar on Environmental Management*, Trichur, March 1983.

James E J, Sreedharan K E and Ramanathan M G, Mixing process in the Beypore estuary on the Malabar coast, *Journal of Institution of Engineers (India)*, Vol 64, EN 2, February 1984.

James E J, Impact of Interbasin transfer of water on estuarine processes, Proceedings, *National Workshop on Interbasin Transfer of Water*, Kozhikode, January 1984.

James E J, Estuarine mechanics with special reference to circulation, mixing and pollution dispersion, Proceedings, *National Workshop on the State of the Art on Water Resources Development and Management*, Warrangal, October 1984.*

James E J, Statistical techniques in hydrologic studies, Proceedings, 1984 Congress, *Indian Society of Theoretical and Applied Mechanics*, KREC, Surathkal*

James E J, Problems in estuarine management – south west coast of India, V *World Congress on Water Resources*, Brussels, June 9-15, 1985

James E J, Meteorologic features of south-west coast of India, *Workshop on Soil-Water-Crop Compatibility*, KREC, Surathkal, April 27, 1985

Nandeshwar M D and James E J, Spatio-temporal aspects of changing land use and cropping pattern in small cultivated watersheds of Kerala, Proceedings, V *National Cartographic Conference*, Srinagar, September 1985

James E J, Ranganna G, Nayak I V and Nataraj A G, Studies on salinity intrusion and pollution dispersion in the Beypore estuary of Malabar coast, *Conference on Estuarine and Coastal Pollution*, Plymouth, July 1985

James E J, Studies on tidal streams of Malabar coast, *Seminar held on World Environment Day*, Institution of Engineers (India), Trivandrum June 5, 1985*

Nambudripad K D and James E J, Necessity for basin planning for improvement of environmental quality-experience from the Malabar coast, Proceedings, *International Seminar on Environmental Assessment of Water Resources Projects*, Roorkee, November 1985

James E J, Computer applications in hydrologic research, *First National Seminar on Computer Science and Technology for the National Development*, Cochin, May 3-5, 1985*

James E J and Mohanan R, Regional monthly rainfall-runoff model for the Chaliyar basin, *53rd R & D Session of CBIP*, Bhuvaneshwar, May 1986

James E J, Sreedharan K E, Ranganna G, Nayak I V and Prasad T G, Design of raingauge network using spatial correlation technique for Bharathapuzha basin on the Malabar coast of India, Proceedings, *IAHS Symposium on Integrated Design of Hydrological Network*, Budapest, July 2-10, 1986

Sreedharan K E and James E J, Determining raingauge densities for the Western ghats region in Kerala, *Journal of Institution of Engineers (India)*, Vol 3, C 1, November 1986

Nandeshwar M D, James E J and Mahadev, P D, Geomorphic features of Kuttiyadi river basin –Kerala State, *VI National Cartographic Conference*, Trivandrum, November 1986

James E J, Chandrakantha G, Ranganna G and Devaraju, C K, Mixing and circulation processes-Pavenje estuary, Proceedings, *National Seminar on Estuarine Management*, Trivandrum, June 1987

James E J, Nataraj A G and Ranganna G, Application of tidal prism method-Bey pore estuary, Proceedings, *National Seminar on Estuarine Management*, Trivandrum, June 1987

James E J, Studies on estuarine dynamics on the south-west coast of India, Proceedings, *National Seminar on Estuarine Management*, Trivandrum June 1987

Ahmmmed Ali K, James E J and Nambudripad K D Salinity intrusion into the Chettuva-Kottapuram sound of Trichur Kole Lands, Proceedings, *National Seminar on Estuarine Management*, Trivandrum June 1987

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* The Reports in which the contribution is predominant and substantial are only included in the list