



**IOCL – CHAIR PROFESSOR Dr. V.H. SAILAJA, M.Sc., M.Tech, PhD,**

**EXPERTISE:** Water quality mapping & modeling, Hyperspectral remote sensing and Environmental Geomatics and Environmental Pollution studies.

#### **EDUCATION**

- **Doctorate of Philosophy in Environmental Science and Technology** 2017 awarded
- Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad, Telangana, India
- **Master of Technology** (Environmental Management) 2007 Distinction  
JNTU, Kukatpally, Hyderabad, Andhra Pradesh, India
- **Master of Science** (Environmental Studies) 2000 First Division  
GITAM engineering college, Andhra University, Visakhapatnam, Andhra Pradesh, India

#### **EXPERIENCE**

- Professor of Practice, Department of Environmental Science, Andhra University, 2023.
- Executive Director, ESAS Pvt.Ltd in training and research division 2020 to 2022
- Faculty in Centre for Environment, IST, JNTUH, Hyderabad from 2008 to 2017.
- GIS engineer in Map world Technologies, Khairatabad, Hyderabad from 2007 to 2008..

#### **GUIDE & CO-GUIDE.**

**Guide** for M.Tech Students: **3**

1. Project Title: Exploration of lake water quality in urban area- A case study on lakes of Hyderabad metropolitan city.
2. Project Title: A study on the quality indices of lake waters in Hyderabad city using Remote Sensing, GIS and GPS technologies.
3. Project Title: Development of Water Portal for Water bodies in Hyderabad.

**Co-Guidance** for M.Sc/M.Tech Students: M.Sc- **3** & M.Tech- **11**

#### **MEMBERSHIPS IN PROFESSIONAL BODIES:**

- Member in Indian Water Resource Society-IWRS
- Member IIRJC-i-Xplore International Research Journal Consortium
- Member Indian Society of Geomatics- ISG
- Member Indian Society of Remote Sensing
- Member The Indian Science Congress Association

#### **Honours and Awards:**

Best Paper Award in ICHWAM-2014

Best Oral Presentation Award in ICEE-2014  
Prakruthi Rakshak Award-2015  
Best Technical Paper Award in NCWMC-2018

**PUBLICATIONS:** 21 papers published.

**Journal: International -** 8 papers published.

**Journal: National -** 4 papers published.

**Conferences:** 8 papers published.

**Seminar:** 1 article published.

#### **INTERNATIONAL JOURNALS:**

1. **“Investigation of Physico-Chemical Parameters to Assess the Water Quality of Himayat Sagar Lake, Hyderabad”** in International journal of Scientific Research-IJSR (International Index Journal, peer reviewed) ISSN No: 2277-8179, Volume:2, Issue 5 May 2013, Page No: 279-281, Impact factor 0.3371
2. **“Land Resources evaluation in the Theni Administrative block of Theni district, Tamil Nadu, India, using Remote sensing and GIS”**, International Journal of Remote Sensing and GIS, Volume 4, Issue 1, 2015, 23-40.
3. **“Surface Water Quality Assessment and Mapping Using WQI And GIS - A Case Study From Hyderabad”**, Global Journal For Research Analysis, July issue 2015, pages 102-104 with Impact factor 3.1218.
4. **"A Review on the Pollution problem of the Major Water sources in Hyderabad city"**, International Journal of Applied and Pure science and Agriculture, February Issue 2016, Volume 2, Issue 2, pages 31- 40 with impact factor 3.762.
5. **"Phytoremediation - A Promising Technique in Waste Water Treatment"**, International Journal of Scientific Research & Management Studies (IJSRM), ISSN (e): 2321-3418, Volume 5, Issue 06, Pages 5480-5489, June 2017, Website: www.ijlrm.in ISSN (e): 2321-3418 Index Copernicus value (2015): 57.47 DOI: 10.18535/ijlrm/v5i6.20.impact factor 4.008.
6. **“Modeling of Water Quality Parameters in lakes using Hyperspectral Remote sensing Technique ”**, International Journal of Latest Engineering and Management Research (IJLEMR) ISSN: 2455-4847 www.ijlrm.com || Volume 02 - Issue 08, August 2017, PP. 55-61, impact factor 1.362.
7. **“Hyper-spectral Remote Sensing of Water Quality Parameters in Lakes: A Case Study of Hyderabad City, Telangana State, India”**, IRA International Journal of Technology & Engineering (ISSN 2455-4480), 8(2), 5-14. doi:http://dx.doi.org/10.21013/jte.v8.n2.p1 impact factor 3.525.
8. **“Lake water quality characterization in Hyderabad, Telangana state, India”**, International Journal of Management and Social Sciences Research (IJMSSR)-Manuscript ISSN: 2319-4421, Volume 6, No.9, September 2017, PP. 7-14, .impact factor 5.462.

#### **NATIONAL JOURNALS:**

1. **"Mandal Level Information System Using ArcGIS – A Case Study Of Addanki Mandal, Prakasam District”, Andhra Pradesh, India**, in Journal of Engineering Research and Studies (E ISSN 0976-7916) with the Manuscript Number JERS/July-Sept,2011/85.
2. **"Application of Natural Absorbents for Metal Removal from Waste water”**, Paripex- Indian Journal of Research, ISSN-2250-1991, Volume:3, Issue:4, April 2014, Impact factor 1.6714

3. **"Evaluation of Surface and Groundwater Quality for Portability and Irrigation- A case study of Ashwaraopally village, Warangal district, Telangana state, Paripex- Indian Journal of Research, ISSN-2250-1991, Volume:3, Issue: 12, December 2014, Pages 83-86 with journal impact factor of 1.6714.**
4. **"A Study on the Spatiotemporal variability of lake water quality using satellite imagery & spectral reflectance indices", GIS India, April Issue 2016, Volume 25 No.4, pages 7 to 11, ISSN 0972-5776.**

## CONFERENCES: National and International

### Published

1. **"Development of land and Water Resource action plan using RS and GIS: A case study of part of Nagarjunasagar command area, prakasam District, Andhra Pradesh"** in II International conference on Environmental management, Oct., 2010, P.NO.- 32-47, titled Proceedings of ICEM' 10, International Conference on Environmental Management (October 25th – 28th, 2010) Volume – I ISBN: 978-81-7800-252-1, Pages—32-47, 2011.
2. **"Development of model action plan for village level planning: a case study of chirala mandal of prakasam district, A.P".**, in II International conference on Environmental management, Oct., 2010, P.NO. - 138-143, titled Proceedings of ICEM' 10, International Conference on Environmental Management (October 25th – 28th, 2010) Volume – I ISBN: 978-81-7800-252-1.
3. **Hyperspectral signatures of Bio-indicator of Environmental pollution".** Abstract Published in II International conference on Environmental management, Oct., 2010, Souvenir – TSO115, titled " (October 25th – 28th, 2010).
4. **"Development of Integrated Approach for Ground Water Mapping using Remote Sensing and GIS- a case study of Hyderabad and Ranga Reddy District"**, in the "Proceedings of National conference on Climate change and its impacts on life and water resources" sponsored by Ministry of Earth Science, Govt. of India, New Delhi, Department of Humanities & Basic Sciences, Annamacharya Institute of Technology & Science, Hyderabad 22<sup>nd</sup> & 23<sup>rd</sup>, July, 2011, ISBN 978-81-922624-0-6, Pages--193- 200, 2011.
5. **"Suitability evaluation of Physico-chemical parameters of Ashwaraopally lake water for irrigation"** in Two day National Conference on Water, Environment and Society (NCWES), scheduled during 30th June – 01st July 2014", at Jawaharlal Nehru Technological University, Hyderabad by Centre for Water Resources, Institute of Science and Technology, Proceedings- ISBN- 978-93-83635-13-9, page 483.
6. **"Geospatial Technologies for land and water resources Action plan in Guntur district, A.P., India"**, in proceedings of 4th international conference on Hydrology and Watershed Management with focal theme on Ecosystem Resilience- Rural and Urban water requirements, Volume-II, organized by Centre for Water resources, Institute of Science and Technology, JNTUH, Hyderabad on 29th Oct., to 1st Nov., 2014, ISBN-978-81-8424-952-1, pages 1052-1056.
7. **" A Hyperspectral Remote sensing based Framework for predicting Water quality of different inland water bodies"** (ICHWAM-2014) proceedings of 4<sup>th</sup> International conference on Hydrology and Watershed Management with a Focal theme on Ecosystem Resilience- Rural and Urban Water requirements, 29th Oct., to 1st Nov., 2014, Volume-I, pages 235-270, ISBN:978-81-8424-952-1. **(BEST PAPER AWARD)**

8. **"Web Portal Development for Estimating TSI in Two Lakes of Hyderabad"**, in 2 day National Conference on Water Management and Conservation organised by Departments of Civil Engineering and Science and Humanities, Sreenidhi Institute of Science and Technology, Hyderabad, 22&23 March 2018, pages 50-58.(**BEST TECHNICAL PAPER AWARD**)

**Presented:**

1. **"Heavy Metals Accumulation in Vegetables Irrigated with Musi Waters"** National Conference on Green Technologies in Civil-Environment Interface, 16-17 March 2012, Department of Civil Engineering and Environmental Sciences, GITAM University, Hyderabad.
2. **"A Review on the Municipal Solid Waste Management in Indian cities"** National Conference on Green Technologies in Civil-Environment Interface, 16-17 March 2012, Department of Civil Engineering and Environmental Sciences, GITAM University, Hyderabad.
3. **"The Climate Change and Impact on Indian Agriculture"** National Conference on Green Technologies in Civil-Environment Interface, 16-17 March 2012, Department of Civil Engineering and Environmental Sciences, GITAM University, Hyderabad.
4. **"Prediction of Water quality using the Hyperspectral imagery in lake water of Hyderabad"**, International conference on Environment &Energy, December-2014, Centre for Environment, Institute of Science and Technology, JNTUH, Hyderabad, ISBN: 978-93-81212-96-7 (**BEST ORAL PRESENTATION AWARD**).

**SEMINARS:**

1. Review article on **"Control of CO2 Emissions in Building Sectors"** in National conference – Two day National Panel discussion meet on green buildings, organized by Centre for Environment, JNTUH.
2. Paper presented on **"Bio-monitoring of Air pollutants by Prosopis julifera and Eupatorium majus from heavy traffic and industrial areas-A case study in Visakhapatnam"**, in the National Seminar on Environmental Hazards and Sustainable Development held on 11-09-09 at D.R.G.Govt. Degree & P.G.College, Tadepalligudem (Pentapadu), W.G.Dt.
3. Paper presented entitled **"Remote Sensing and GIS Approach for Mapping and Monitoring the Temporal Changes of Pulicat Lake"**, Nellore District, A. P. National Seminar on Regional Planning and Resource Management: An Environmental Perspective, 2&3 March 2012, Department of Geography, Osmania University, Hyderabad.

**TRAININGS:** 18 (Completed 16 & Organised 2)  
**WORKSHOPS:** 12 (Attended 10 & Organizing member 2)  
**SEMINARS:** 04 (Attended 02, Chaired 1 Technical Session and Organizing member 1)  
**CONFERENCES:** 11 (Attended 10 & organizing member of an international Conference 1)

