

BIODATA

Name : **Dr. C.Sarala**

Date of Birth : **02 November, 1971**

Present Position : **Professor**

Address for correspondence: **Centre for Water Resources,**
Institute of Science and Technology,
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Highlights of major contributions

I am working as Professor in Centre for Water Resources. Under my guidance several M.Tech theses were completed and presently guiding ten Ph.Ds. Published more than 30 research papers in National and International Journals apart from publishing research papers in National and International conferences. My research areas include Surface Water Hydrology, RS &GIS, Water and Wastewater Treatment, Watershed Management, Rainfall-Runoff modelling and Water quality Assessment. I am Coordinator for IST grievance cell and was TEQIP coordinator for Centre for Water Resources.

Academic Qualifications

Ph.D. *Water Resources (2010)*, Centre for Water Resources, Jawaharlal Nehru Technological University, Hyderabad, A.P., India.

M. Tech. *Water Resources Engineering (1996)*, REC Warangal, Warangal, A.P., India.

B.Tech. *Civil Engineering (1994)* Andhra University, VisakhaPatnam, A.P., India.

Professional Experience

- Working as *Professor in Centre for Water Resources*, Institute of Science and Technology, JNT University, Hyderabad from January 2014 to till date.
- Worked as *Assoc. Professor in Centre for Water Resources*, Institute of Science and Technology, JNT University, Hyderabad from March 2008 to December 2013.
- Worked as *Assistant Professor in Centre for Water Resources*, Institute of Science and Technology, JNT University, Hyderabad from November 2000 to March, 2008.
- Worked as *Assistant Professor in Civil Engineering* in JNTU College of Engineering Anantapur, Anantapur District from November 1999 to November 2000.
- Worked as *Lecturer in Civil Engineering in Bapatla Engineering College*, Bapatla, Guntur District from December 1997 to November 1999.

Membership in Professional Bodies:

- Life member of Indian Society of Remote Sensing
- Life member of Indian Water Resources Society
- Life member of Indian Association of Hydrologists
- Life member of Indian Association of Soil and Water Conservationists
- Life member of The Indian Society of Dry land Agriculture

Administrative Experience

- Worked as *Head, Centre for Water Resources*, Institute of Science and Technology, JNT University, Hyderabad from November 2008 to September 2010.
- Working as *Head, Centre for Water Resources*, Institute of Science and Technology, JNT University, Hyderabad from September 2017 to till date.
- Working as *Head I/c, Centre for Spatial Information Technology*, Institute of Science and Technology, JNT University, Hyderabad from January 2018 to till date.

List of Research Publications

Peer reviewed Journals

1. Deepthi, P., Sharath Kumar, P., Sarala, C., Mukkanti, K., (2017), "Cucurbita Pepo as a Coagulant Aid for Copper Removal" International Journal of Engineering Research & Technology, Vol.6, Issue 09, September 2017, pp.33-36, ISSN: 2278-0181.
2. Hanumantha Rao V., Baleeshwar Reddy A., Vasudeva Rao V., Sarala, C., (2016), "Endemic and Threatened Plants of Lambapur-Peddagattu-Proposed Uranium Mining Area, Nalgonda, Telangana, India", International Research Journal of Environment Sciences, Vol. 5(12), Dec 2016, pp 40-46, E-ISSN 2319-1414.
3. Deepthi, P., Sarala, C., Mukkanti, K., (2016), "Application of Low Cost Plant Based Coagulants in Water Treatment", Environmental Geochemistry, Vol.19, No.1&2, pp. 7-9, ISSN 0972-0383.
4. Sarala, C., and Sree Lakshmi, G., (2015), "Study on Spatial Rainfall Distribution with the help of GIS in Telangana Region", International Journal of Advances in Engineering and Technology, Vol. 8, Issue 5, Oct 2015, pp. 836-853. ISSN: 22311963. Impact factor – 2.35
5. Deepthi, P., Sarala, C., Mukkanti, K., (2015), "Application of Natural Adsorbents for Wastewater Treatment", International Journal of Research, Vol.2, Issue 7, July 2015, pp.556-561. ISSN: 2348- 6848. Impact factor – 3.541.
6. Sarala, C., and Sree Lakshmi, G., (2014), "Improvement of Storm Water Drainage System in greater Hyderabad Municipal Corporation",

International Journal of Advances in Engineering and Technology, Vol. 7, Issue 2, May 2014, pp. 605-613. **ISSN: 22311963. Impact factor – 1.56**

7. Sarala, C., and Sree Lakshmi, G., (2014), “Solid Waste Management in Mahaboobnagar Municipality”, International Journal of Computational Engineering Research, Volume 4, Issue, 3, March 2014, pp.43-52. **ISSN: 2250- 3005. Impact factor – 1.145**
8. Sarala, C., (2013), “Geographical Information System Based Morphometric Analysis of Halia Drainage Area, Nalgonda District, Andhra Pradesh, India”, International Journal of Innovative Research in Science , Engineering and Technology, Volume 2, Issue 11, November 2013, pp. 6218-6225. **ISSN: 2319-8753, impact factor – 1.672.**
9. Sarala, C., (2013), “Landuse/landcover and NDVI analysis for Halia catchment”, International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 4, Issue 5, pp. 126-133. **ISSN 0976 – 6499, impact factor – 5.8376**
7. Sarala, C., (2013), “Identification of groundwater prospects in the Khammam district”, Int. Journal of Applied Sciences and Engineering Research, Vol. 2, No. 2, 2013, pp 146-159. **ISSN 2277 – 8442**
8. Sarala, C., (2012), “Assessment of Groundwater Quality for Irrigation Use”, International Journal of Research and Engineering Technology, Volume 1, Issue 3, pp 215- 219. **ISSN: 2319 – 1163, impact factor -1.962**
9. Sarala, C., (2012), “Domestic Wastewater Treatment by Electrocoagulation with Fe-Fe Electrodes”, International Journal of Engineering Trends and Technology, Volume3, Issue4, pp 530 -533. **ISSN: 2231-5381**
10. Sarala, C., (2012), “Identification of Groundwater Prospects for Palleru Sub Basin using Remote Sensing and GIS”, International Journal of Engineering Science & Advanced Technology, Volume-2, Issue-5, pp 1454 – 1460. **ISSN: 2250–3676**
11. Sarala, C., and Ravi Babu, P., (2012), “Assessment of Groundwater Quality Parameters in and around Jawaharnagar, Hyderabad”, International Journal of Scientific and Research Publications, Volume 2, Issue 10, pp 262- 268. **ISSN 2250-3153**
12. Srinivas,P., Pradeep Kumar, G.N., Sarala, C., and Prabhakar Chowdary,P.(2008), “Application of Remote Sensing and Geographical Information Systems Techniques for Integrated Management of Boothpur Watershed in A.P.” Journal of Applied Hydrology, Vol. XXI, No.1&2, pp 65-74.
13. Srinivas,P., Sarala, C. (2007), “Hydrological data analysis for the identification of droughts in Anantapur District, Andhra Pradesh,” Journal of Nature Environment and Pollution Technology, Vol.6, No.4, pp- 565-572. **Volume 6, Issue No. 4, Dec 2007**

14. Srinivas,P., Sarala, C. and Prabhakar Chowdary,P. (2007), “Integrated Watershed Management using Remote Sensing and GIS Techniques,” Journal of Nature Environment and Pollution Technology, Vol.6, No.3, pp- 463-470. **Volume 6, Issue No. 3, Sep 2007**

International conferences

1. Sarala.C., and Shravan Kumar, A., (2014), 2 D Resistivity and Chargeability Surveys for characterization of Hard Rocks in Kudliar Watershed, Medak District, Telangana State, Proc. of Fourth International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp. 50-55.
2. Vijaya Kumar, S., Rao, K.V., Sarala.C., Vinay Kumar, K and Prabhakar, M., (2014), “Impact of Community based Watershed Development”, Proc. of Fourth International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1.,pp. 297-306.
3. Paritosh Singh Chauhan, Sarala.C., and Chandra Mohan, J., (2014), “Water Quality Index Model for the Assessment of Ground Water Quality in Part of Agra District, Uttar Pradesh”, Proc. of Fourth International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 11.,pp. 802-808.
4. Paritosh Singh Chauhan and Sarala.C., (2014), “Ground Water Quality Mapping of Lalitpur District- Uttar Pradesh, India with Remote Sensing and GIS Using Spatial Interpolation Method Kriging” Proc. of Fourth International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 11.,pp. 809 -816.
5. Deepthi, P., Sarala, C., Mukkanti, K and Ramamohan Reddy, K., (2014), “Moringa Oleifera as a Low Cost Adsorbent for the Removal of Metals”, Proc. of Fourth International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1.,pp. 396-400.
6. Ravi Babu, P., Sarala, C., Nazia Thabassum, Md., (2014), “Analysis of Water Samples near Irla Gutta, Ranga Reddy District, Telangana State”, Proc. of Fourth International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 11.,pp. 844-853.
7. Venkateswara Rao, B., Sarala.C, and Varalaxmi, V., (2010), “Coping with (Climate) Change in the Catchment Hydrology” Proc. Of Third International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp 10-15.
8. Sarala.C., Venkateswara Rao, B., and Jaya Kumar.K.V.(2010), “Studies on Changes in Rainfall – Runoff Relationship due to Changes in Landuse – A Regional Case Study on Krishna Basin,” Proc. Of Third International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp 231-242.

9. Bobba, A.G., Rao, B.V., Rai, S.N., and Sarala.C, (2010),“Mathematical Model of Nuclear Waste Solute Transport through Fracture Porous Matrix System,” Proc. Of Third International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp 663-669.
10. Bobba, A.G., Singh, Rao, B.V., and Sarala.C, (2010), “Evaluation of Groundwater Contamination Models by Monte Carlo Method,” Proc. Of Third International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp 670-679.
11. Sarala.C, Radhika, N., and Mynar Babu, P., (2010), “Identification of Groundwater Prospects for Palleru Sub Basin using Remote Sensing and GIS” Proc. Of Third International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1I., pp 992-999.
12. Sarala.C, and Supriya (2006), “Statistical Analysis for Dameracherla, Keesara and Paleru Bridge Sites of Krishna River Basin”. Proc. Of Second International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp 666-676.
13. Sarala.C, and Ayesha Fatima (2006), “Hydrological Analysis of Krishna River Basin for Nalgonda District”. Proc. Of Second International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp 371-383.
14. Sarala.C, Srinivas, P., Sreedhar, M.and Sunitha,N (2006), “ Remote Sensing and GIS Application for land use planning through land evaluation of Maheswaram Watershed”, Proc. Of Geo- informatics for Rural Development- Achieving Synergy between technical and social systems”, JNTU Hyderabad, pp-46.
15. Sarala.C, Ashok.G., Srinivas, P., Jagan Mohan Rao, G.and Balamurugan,R. (2005),”Flood mapping of upper Vaigai basin in TamilNadu using GIS”, Proc. Of International Conference on Crisis Management in Water and Environment, Kolkata, Vol.1, pp- 43-49.
16. Sarala.C, Ashok.G., Srinivas, P. and Thayumanavan, S. (2005), “Box and Jenkins ARMA model application for rainfall prediction for a rain guage station”, Proc. Of International Conference on Crisis Management in Water and Environment, Kolkata, Vol.1, pp-16-23.
17. Sarala.C., and Jaya Kumar.K.V. (2002), “Estimation of Peak Flood by SCS TR-55 Method for Urban Drainage Design and Development of Constructed Wetland for Part of Warangal Town”. Proc. Of International Conference on Hydrology and Watershed Management”, JNT University, Hyderabad, Vol 1., pp 489(a)-489(l).

National Conferences

1. Gnana Sowjanya, S., Srilatha, K., Sri Sai lakshmi, Ch., Hima bindu, V., Sarala , C.,(2017), “Recovery of hydrochloric acid from designed synthetic acidic water using Diffusion Dialysis Technique”, Procs. of Third National Conference on Innovative Research in Civil Engineering (NCIRCE 2k17), Malla Reddy Engineering College Hyderabad, pp- 149-152.
2. Sarala, C., Srinivas, P, Sunitha, N. and Saxena, M.R., (2006), “Land Use planning through land evaluation of Maheswaram Watershed using RSW and GIS Techniques”, Procs. of National Workshop on Digital Geography with special emphasis on Disaster Management”, NRSA, Hyderabad, pp-1-11.
3. Sarala,C., Srinivas, P. and Kavitha,G., (2006),” Wastewater Treatment and Reuse- A Case Study of Gandhi Medical and Hospital”, Proc. Of National Seminar on Environmental Challenges and Strategies” ANU, Guntur, pp -41.

Books Published

1. Edited two volumes of the proceedings of the International Conference on “Hydrology and Watershed Management” with a focal theme on water quality and conservation for sustainable development held during December, 2002 at JNT University and published by BS Publications, Hyderabad.
2. Edited two volumes of the proceedings of the Second International Conference on “Hydrology and Watershed Management” With a focal theme on “Improving water productivity in the Agriculture” held during December, 2006 at JNT University and published by BS Publications, Hyderabad.
3. Edited two volumes of the proceedings of the Third International Conference on “Hydrology and Watershed Management” With a focal theme on “Climate Change – Water, Food and Environmental Security” held during February, 2010 at JNT University and published by BS Publications, Hyderabad.
4. Edited two volumes of the proceedings of the Fourth International Conference on “Hydrology and Watershed Management” With a focal theme on “Ecosystem Resilience - Rural and Urban Water Requirements” held during October, 2014 at JNT University and published by Allied Publications, Hyderabad.

Conferences / Seminars / winter / Summer schools attended

1. International Conference on Hydrology and Watershed Management, with a focal theme on water quality and conservation for sustainable development Centre for Water Resources, JNT University Hyderabad December 16-18, 2002

2. Workshop on “Water Resources Management Education Training and Employment opportunities in the State of Andhra Pradesh in Centre for Water Resources, JNTU on 9th November, 2004.
3. Second International Conference on Hydrology and Watershed Management, Centre for Water Resources, JNTU, Hyderabad. December 5-8 2006
4. One-day workshop on “Coping with Water Scarcity” organized on the occasion of World Water Day in Centre for Water Resources, JNTU on 22, March 2007.
5. One-day workshop on Isotope Tracer Techniques for Water Resources Development and Management in Centre for Water Resources, JNTU on 12th February, 2008.
6. Third International Conference on Hydrology and Watershed Management, Centre for Water Resources, JNTU, Hyderabad. February 3-6 2010.