

## **KORLA SWAPNA VAHINI**

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### **Objective**

To obtain a challenging position where I can effectively contribute my skills.

### **Academic Qualifications**

PhD	March, 2013 GITAM Institute of Science GITAM University
Master of Technology	<b>Applied Botany (2006)</b> <b>Indian Institute of Technology,</b> <b>Kharagpur, India</b> CGPA: <b>8.94</b>
Master of Science	Biotechnology (2004) Andhra University Visakhapatnam, India. Aggregate percentage: <b>67.1</b>
Bachelor of Science	Botany, Zoology and Chemistry (2002) B.V.K. College, Visakhapatnam, India. Aggregate percentage: <b>77.9</b>

### **Present Status**

- ❖ Srikakulam Presently working as Assistant Professor in the Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam
- ❖ Head (I/c), Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam
- ❖ Dean (I/c), Confidential (Paper Setting – UG, PG and Professional), Dr B.R. Ambedkar University, Srikakulam.
- ❖ Co-Convener, BRAUSKLMCET – 2018, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Member, Board of Studies, Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Associate Training and Placement Officer, Dr B.R. Ambedkar University, Srikakulam
- ❖ Member, Women Grievance Cell, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Member, Anti-Ragging Squad, Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Chief Superintendent, PG End Semester Examinations (April 2018), Dr B.R. Ambedkar University, Srikakulam

## Work Experience

Position	Organization	Duration
Assistant Professor (ad hoc)	GITAM College, Visakhapatnam	1 Year
Assistant Professor	GITAM (Deemed to be University), Visakhapatnam	2 years 8 months
Assistant Professor	Dr B.R. Ambedkar University, Srikakulam	8 Years 7 months

## Research Projects and Consultancies

- ❖ **Co-Principal Investigator, Disaster Recovery and risk mitigation program in cyclone affected areas in Srikakulam district funded a grant of 39,90,990 by UNICEF from December, 2013 to July, 2014 (8 Months)**

## Administrative Experience

- ❖ Member, Board of Studies, Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Member, Board of Studies for the Department of Environmental Studies, GITAM Institute of Science, GITAM University from 2008 - 2010.
- ❖ Course Coordinator, Department of Geosciences, Dr B.R. Ambedkar University, Srikakulam, June, 2011 – June 2013.
- ❖ Chief Superintendent, VRO/VRA Examination for Twenty First Century Gurukula Patasala, 2012.
- ❖ Chief Superintendent, LawCET 2012 Examination for Dr B.R. Ambedkar University, Srikakulam.
- ❖ Incharge, Lab Chemicals, Glassware and Miscellaneous Items, Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Camp Officer, EdCET- 2013, EdCET- 2014 and EdCET- 2015 on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Camp Officer, LawCET- 2013 and LawCET- 2014 on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Chief Verification Officer, EAMCET-2013 (Engineering) on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Chief Verification Officer, EAMCET-2013 (Pharmacy) on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Member, Anti Ragging Squad (2016-2017), Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Flying squad, Undergraduate end semester examinations, Dr BR Ambedkar University, Srikakulam

## PhD Thesis

Anaerobic Digestion Of *Ocimum sanctum*: Effect of Inoculum, Substrate and Heavy Metal Concentration under the guidance of Prof T. Srinivas, Professor, Joint Director, Center for Distance Learning, Department of Biotechnology, GITAM Institute of Technology, GITAM University.

### M.Tech. Project

“Exploring eugenol degradation in selected microorganisms for generating value-added phenolic products” under the supervision of Dr. Adinpunya Mitra, Assistant Professor, Agricultural and Food Engineering Department, Indian Institute of Technology, Kharagpur.

### M.Sc Project

“Microbial treatment of dairy wastes” under the supervision of Dr. P.V.V. Prasada Rao, Associate Professor, Environmental Sciences Department, Andhra University, Visakhapatnam.

### Academic Achievements

- ❖ **Awarded for Dr. Sarvepalli Radhakrishnan Best Academician Award -2018 for meritorious contribution towards Research, Development and Innovation (R&D&I) in the University.**
- ❖ **Qualified for lecturership in Joint CSIR-UGC National Eligibility Test.**
- ❖ **Qualified National Level Exam “Graduate Aptitude Test in Engineering (GATE) – 2004” conducted by Indian Institute of Technology, India (Life Sciences, All India Rank – 79; Percentile – 98.38).**
- ❖ **Awarded GATE Scholarship (July 2004~June 2006) by Ministry of Human Resource and Development, Government of India for pursuing M.Tech study at the Indian Institute of Technology, Kharagpur.**

### Research Publications

- “PCP Degradation By *Pseudomonas aeruginosa* And *Pseudomonas putida* -A Comparative Study”. Dr.T.Byragireddy, K.Swapna Vahini and M.Sumanth Kumar. Vol. 12 (1); 375-379(2008)
- “Subsurface Water Quality in Selected Areas of Visakhapatnam City”. V.Saritha and **K.Swapna Vahini**. *Journal of Current Science* 12(1): 85-89, 2008.
- “Status of Environmental Awareness in Slum Dwelling Children of Selected Areas of Visakhapatnam”. V.Saritha, **K.Swapna Vahini** and M. Sumanth Kumar. *J. Natcon* 20(1): 151-156, 2008.
- “Potential of Groundnut Husk and Groundnut Husk Ash for Phenol Removal in Aqueous Solution” -*Jr of Ecotech*; Vol. (1); pp 61-66(2009)
- Geochemistry of Soil Samples in Yendada Area, Visakhapatnam. **K.Swapnavahini**, V.Saritha and B.Padmavathi. *Rasayan Journal of Chemistry* 2 (2), 415-417,2009. IF – 0.29
- Characterization of Groundwater of Different Activity regions of an Urban Settlement. V.Saritha, **K.Swapna Vahini**, B.Padmavathi and V.Rohini Kumari. *Rasayan Journal of Chemistry* 2 (2), 539-542,2009; IF-0.29
- Characterization of Wastewaters in Semi Urban Settlements of Visakhapatnam. B. Padmavathi, V. Saritha and **K. Swapnavahini**. *Rasayan Journal of Chemistry* 2 (2), 531-535, 2009. IF-0.29
- Environmental Health Hygiene and Personal Sanitation Status in Selected slums of Visakhapatnam. **K. Swapna Vahini**, V Saritha, & M. Sumanth Kumar. *The Ecotech* 2(1), 96-99, 2009.

- An Integration of GIS and Remote Sensing in Groundwater Investigations: A Case Study in Sub-urban Regions of Hyderabad and Parts of Mehbubnagar District. M.Sumanth Kumar, T .Byragireddy, **K.Swapnavahini**, B.Vijaya Bhaskar and K.Sudhakar. *The Ecotech* 2(1), 100-103, 2009.
- Feasibility study of Anaerobic Digestion of *Ocimum Sanctum* leaf waste generated from *Sanctum sanctorum*. **K. Swapnavahini**, T. Srinivas, P. Lokesh Kumar, M. Shanthi Kumari and T. Lakshmi. *Bioresources* 5(1), 389-396, 2009. IF – 1.334
- Anaerobic Protozoa and their effect on terminal decomposition of organic matter. K. Swapnavahini, T. Srinivas and K. Anil Kumar. *The Ecotech* 2(2), 105-107, 2010 .
- Solid Waste A Major Threat to Environment- A Case Study. C.H. Bhavannarayana, V. Saritha, K. Swapnavahini, P. Brahmaji Rao, K. Sarala, K. Manik Raj and Bhupati Rav. *The Biosphere* 2(2); 171-174, 2010.
- How Safe Is Railway Station Water? - A Study on The Drinking Water Quality of Various Railway Stations From Khammam To Srikakulam Train Route In Andhra Pradesh. B. Bhagya Lakshmi, Sowmya Devi, K. Swapnavahini, V. Saritha and M. Sumanth Kumar. *The Biosphere* 2(2); 192-194, 2010.
- Preliminary Assessment of Coastal Water Quality. Abhilasha NAMdeo, D. Anusha, V. Saritha, K. Swapnavahini, M. Anil Kumar, C.H. Bhavannarayana and P. Brahmaji Rao. *The Biosphere* 2(2); 198-201, 2010.
- Effect of Inoculum Density on Anaerobic Digestion of *Ocimum sanctum* (Holy Basil) K.Swapnavahini, T.Srinivas and M. Sumanth Kumar. *The Ecosphere* 2(1&2); 79-81, 2011; ISSN 0976-1578.
- Effect of Potassium Chromate on the Anaerobic Digestion of Holy Basil (*Ocimum sanctum*) *Int. J. Adv. Res. Sci. Technol. Volume 1, Issue2, , pp 120-124 (2012)ISSN Print 2319-1783; Online 2320-1126; IF -2.179*
- Nutrient Reduction and Biogas Production of Rose Residue by Anaerobic Digestion in a Batch Reactor *Int. J. Adv. Res. Sci. Technol. Volume 1, Issue2, pp 125-129 (2012); IF - 2.179*
- Antioxidant Potential of Aloe vera (*Aloe barbadensis* Miller) Extracts: Evaluation of three different ecotypes. K. Venkat Reddy and K. Swapnavahini. *The Ecotech*, Volume 4(2); 2012.
- Effect of Selenium on Acceleration of Biogas Production and Digestibility of Lignocellulosic Biomass *Indian Journal Of Applied Research* Volume : 3 Issue : 3 pp 17 – 19 (2013) (Impact Factor 4.894) ISSN 2249-555X
- Impact of Land Use and Land Cover Change on Ground Water Quality in South Eastern parts of Greater Hyderabad Municipal Corporation and its adjoining parts of Mahabubnagar District *Jr. International Journal of Multidisciplinary Education Research* Volume 3, Issue 10(3), 2014; 236-246 (Impact factor 3.318 & IC Value 5.16) ISSN 2277-7881

- Effect of Selenium on Acceleration of Biogas Production and Trends of Nitrogen and Phosphorous. International Jr. of Innovative Research and Practices. Vol 1, Issue 7, pp 24-28 (2013) ISSN 2321-2926
- Lignocellulose degradation of *Ocimum sanctum* during anaerobic digestion: effect of inoculum density and selenium trace metal, K.Swapnavahini<sup>a\*</sup> and Sumanth Kumar. M. Paripex-Indian Journal of Research (2015) (Accepted) ISSN 2250-1991. IF-5.761
- Therapeutic effect of green tea extract on alcohol induced hepatic mitochondrial DNA damage in albino wistar rats; 8, 289-295; 2017; *Journal of Advanced Research (Elsevier)*; IF - 1.665
- Impact of alcohol on hepatic mitochondrial DNA damage in streptozotocin diabetic rats; Volume 2, Number 2, pp. 90-101, 2017.
- Experimental Study Concerning Lignocellulose Degradation of *Ocimum sanctum* During Anaerobic Digestion: Effect of Trace Metals; Printing Area, Volume 6; Issue 40, 2018
- Socio-economic impact of tribes on Sanitation and Hygiene – a case study of Pathapatnam Mandal, Srikakulam District, Andhra Pradesh (2018). *Vidyawarta*, 4(23); 61-64
- Assessment of Vijayawada to Visakhapatnam Railway Stations Drinking Water Quality (2018); International Journal of Research and Analytical Reviews (IJRAR), 5(3); 501-503
- Anaerobic digestion of *Ocimum sanctum* (Holy Basil): Effect of Anaerobic Protozoa (2018); Research Reviews Journal, 3(8); 116-118

### **Book Chapters**

- Feasibility study of anaerobic digestion of *Ocimum sanctum* generated from *Sanctum sanctorum*, 2010. Issues in Biological and Lifesciences Research: 2011 Edition; Ashton Acton, Scholarly Editions, Atlanta, Georgia. ISBN 978-1-464-96335-3
- Subsurface Water Quality in Selected Areas of Visakhapatnam City, 2009; 319-325. Ecotechnology and Environmental Issues ; Prof. Arvind Kumar and Er. Kumar Prasun Ramakrishnan; Daya Publishing House, Delhi. ISBN 978-81-7035-617-2

### **Seminar/Conference/Symposia/Workshop Presentations**

#### **National**

- Conference: “Biotransformation of phenylpropanoids by *Paecilomyces variotii*” **K.S. Vahini**, A.P. Srivastava, S. Ghosh, A.Sachan, G.Mukherjee and A. Mitra. National Conference on Current Researches in Plants and Microbial Sciences, Burdwan, 26-27 November, 2005.
- Conference: “Fungal biotransformation of *trans*-cinnamic acid for production of phenolic flavour/fragrance”. A.P. Srivastava **K.S.Vahini**, S. Ghosh, A.Sachan, G.Mukherjee and A.Mitra, National Conference on Current Researches in Plants and Microbial Sciences, Burdwan, 26-27 November, 2005.

- Seminar: “Drinking water quality assessment in selected pilgrim centers and tourist spots in Visakhapatnam”. CHVLL Kusuma Kumari, V.Saritha, YAVASNMaruthi, S.Ramakrishna Rao, Sujatha Thakre, **K.Swapna Vahini** and K.Ravi Kumar. National Seminar on Industry and Professional Academia : Responsibility (*NASPAR-2007*), Visakhapatnam, 9-10 February, 2007.
- Conference: How Safe Is Railway Station Water? - A Study on The Drinking Water Quality of Various Railway Stations From Khammam To Srikakulam Train Route In Andhra Pradesh. **K.Swapna Vahini**, B. Bhagya Lakshmi and Sowmya Devi. National Seminar on Solid and Hazardous Waste Management for Safety, Health. Department of Environmental Sciences, Andhra University from 16<sup>th</sup> – 17<sup>th</sup> March, 2009.
- Conference: Agricultural fibres as a potential source for Phenol removal. Dr. T. Byragireddy. M.Sumanth Kumar and **K.Swapna Vahini**. National Seminar on Solid and Hazardous Waste Management for Safety, Health. Department of Environmental Sciences, Andhra University from 16<sup>th</sup> – 17<sup>th</sup> March, 2009.
- Workshop: Energy recovery from waste: Biomethanation of waste biomass through anaerobic digestion. **K.Swapnavahini**. Environmental Pollution and its Impact on Climate Change. AP Pollution Control Board, Zonal Office, Visakhapatnam and Department of Environmental Studies, GITAM Institute of Science, GITAM University on 3<sup>rd</sup> December, 2009.
- Seminar: Occupational and Environmental Exposure to emissions from Photocopiers and Potential health effects – A case study. V.SAritha, Ch. Bhavannarayana, P. Brahmaji Rao, B. Malleswari and K. Swapna Vahini. National Seminar on Environment and Sustainable Development, Organized by Department of Environmental Sciences, Acharya Nagarjuna University, Guntur on 28<sup>th</sup> – 29<sup>th</sup> October, 2011.
- Conference: Experimental Study Lignocellulose Degradation of *Ocimum sanctum* during Anaerobic Digestion. **K.Swapnavahini** and T.Srinivas. Andhra Pradesh Science Congress, Organized by Andhra Pradesh Akademi of Sciences and GITAM University, 14<sup>th</sup> – 16<sup>th</sup> November, 2011.
- Conference: Effect of Inoculum Density on Anaerobic Digestion of *Ocimum sanctum* (Holy Basil). **K.Swapnavahini**, T.Srinivas, M.Sumanth Kumar and L.S.Praveen. Andhra Pradesh Science Congress, Organized by Andhra Pradesh Akademi of Sciences and GITAM University, 14<sup>th</sup> – 16<sup>th</sup> November, 2011.
- Conference: Effect of Potassium chromate on the Anaerobic Digestion of Holy Basil (*Ocimum sanctum*). **K.Swapnavahini**, T.Srinivas and M.Sumanth Kumar. National Conference on Recent Advances in Biotechnology (NCRB – 2011), Organized by Department of Biotechnology, M.I.T.S. Rayagada, Odisha, 06<sup>th</sup> December, 2011.
- Seminar: Irrigation Growth in India – More Crop per Drop. V.Saritha, **K.Swapnavahini**, Ch Bhavannarayana and M.Sumanth Kumar. National Seminar on Irrigation Development Policy and Agriculture in India Since Independence. Department of Rural Development, Dr B.R. Ambedkar University, Srikakulam. 25-26<sup>th</sup> November, 2011.
- Seminar: Anaerobic Digestion of *Ocimum sanctum* : Effect of Selenium Heavy Metal. **K.Swapnavahini**, T. Srinivas and M.Sumanth Kumar. National Seminar on Climate Change and Sustainable Management of Water Resources (CCWR-2012). Department of Environmental Science, GITAM Institute of Science, GITAM University. 17 – 18<sup>th</sup> March, 2012.
- Seminar: Groundwater Quality: A Case Study in sub Urban Regions of Greater Hyderabad Municipal Corporation, Andhra Pradesh. M.Sumanth Kumar, T. Byragireddy

and **K.Swapnavahini**. National Seminar on Climate Change and Sustainable Management of Water Resources (CCWR-2012). Department of Environmental Science, GITAM Institute of Science, GITAM University. 17 – 18<sup>th</sup> March, 2012.

- Seminar: Microbial Treatment of Dairy Effluent. **K.Swapnavahini** and P.V.V. Prasada Rao. National Seminar on Climate Change and Sustainable Management of Water Resources (CCWR-2012). Department of Environmental Science, GITAM Institute of Science, GITAM University. 17 – 18<sup>th</sup> March, 2012.
- Seminar: Environmentally Responsible Use of Biotechnology: Implications for Regulatory Strategies. **K.Swapnavahini**, V.Saritha, and M.Sumanth Kumar. UGC-SAP National Seminar on Science and Technology and Human Rights. Dr B.R. Ambedkar College of Law, Andhra University, Visakhapatnam, 28<sup>th</sup> March, 2012.
- Conference: Effect of Selenium on Acceleration of Biogas and Digestibility of Lignocellulose Biomass. National Conference on Environment & Pollution – The Future Ahead (EPFA 2012). Department of Biotechnology and Basic Sciences- Humanities, Majhighariani Institute of Technology and Science, Rayagada, Odisha. 15<sup>th</sup> December, 2012.
- Conference: Evaluation of Ecotypes for Antioxidant potential of *Aloe barbadensis* Extracts. National Conference on Environment & Pollution – The Future Ahead (EPFA 2012). Department of Biotechnology and Basic Sciences- Humanities, Majhighariani Institute of Technology and Science, Rayagada, Odisha. 15<sup>th</sup> December, 2012
- Conference: *Ocimum sanctum* (Holy Basil) Anaerobic Digestion: Effect of Inoculum density on Lignocellulose degradation. National Conference on Chemistry for Sustainable development (SusCon-2012). Department of Chemistry, GITAM Institute of Science, GITAM University. 10 – 11<sup>th</sup> October, 2012.
- Seminar: Environmental health and well being of Neelam and Phialin cyclone effected villages of Etcherla mandal. A two-day national seminar on Sustainable Environment through Green Energy, Andhra Loyola College, Vijayawada, 27<sup>th</sup> – 28<sup>th</sup> February, 2015
- Seminar: Assessment of microbial drinking water quality in the suburban regions of Srikakulam district post monsoon floods. National seminar on Recent Biotechnological Approaches in Biopharmaceuticals and Health Care. Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam, 16<sup>th</sup> -17<sup>th</sup> December, 2015
- Seminar: Lignocellulose Degradation-----Selenium Trace metal. National seminar on Recent Biotechnological Approaches in Biopharmaceuticals and Health Care. Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam, 16<sup>th</sup> -17<sup>th</sup> December, 2015
- A study of groundwater quality post Phialin cyclone of EtchrelaMandal, Srikakulam District, Andhra Pradesh: WASH aspects and Environmental Health. National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University
- Land use and Groundwater Quality: A case study of suburban parts of greater Hyderabad Municipal Corporation and Adjoining parts of Mahbubnagar district.National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University
- Effect of Nickel as trace metal on Anaerobic digestion of *Ocimum sanctum* National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University
- Assessment of Environmental Awareness among Tribal Population: A case study of Pathapatnam, Srikakulam District, Andhra Pradesh. National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University

- Effect of Chromium and Nickel as trace metals on Anaerobic Digestion of *Ocimum sanctum*. National seminar on Environment, Urbanization and Bio-resources Management (NS-EUBRM). Department of Environmental Sciences, Andhra University, 28<sup>th</sup> June to 30<sup>th</sup> June, 2017.
- Assessment of Sanitation status among Tribal Population: A case study of Pathapatnam, Srikakulam District, Andhra Pradesh. National seminar on Environment, Urbanization and Bio-resources Management (NS-EUBRM). Department of Environmental Sciences, Andhra University, 28<sup>th</sup> June to 30<sup>th</sup> June, 2017.
- Anaerobic Digestion of *Ocimumsanctum* : Effect of Inoculum Density and Substrate Concentration, Recent Advances in Chemical Sciences (RACS 2017) organized by Department of Organic Chemistry, Dr BR Ambedkar University, Srikakulam on 26<sup>th</sup> October, 2017
- Socio-economic impact of Tribes on Sanitation and Hygiene. National Seminar on Rural Development in India: Issues and Challenges with Special Reference to Andhra Pradesh organized by Department of Rural Development and Economics, Dr BR Ambedkar University, Srikakulam on 30<sup>th</sup> April, 2018.
- Diabetes: A cross-sectional and comparative study of the Indian Urban and Rural Population. National Seminar on Rural Development in India: Issues and Challenges with Special Reference to Andhra Pradesh organized by Department of Rural Development and Economics, Dr BR Ambedkar University, Srikakulam on 30<sup>th</sup> April, 2018
- Socio-economic impact of tribes on Sanitation and Hygiene – a case study of Pathapatnam Mandal, Srikakulam District, Andhra Pradesh, National Seminar on State of Environment : Environmental Protection, Management and Governance (NS-SEEPMG) organized by Department of Environmental Sciences, Andhra University, Visakhapatnam on 29<sup>th</sup> and 30<sup>th</sup> June, 2018
- Phytosynthesis of Eco-friendly Silver Nanoparticles from *Borassus Flabellifer* Coir, its antimicrobial activity and application. National Seminar on State of Environment : Environmental Protection, Management and Governance (NS-SEEPMG) organized by Department of Environmental Sciences, Andhra University, Visakhapatnam on 29<sup>th</sup> and 30<sup>th</sup> June, 2018
- Phytosynthesis of Eco-friendly Silver Nanoparticles from *Borassus Flabellifer* Seed Shoots (Thegalu), its antimicrobial activity National Seminar on State of Environment : Environmental Protection, Management and Governance (NS-SEEPMG) organized by Department of Environmental Sciences, Andhra University, Visakhapatnam on 29<sup>th</sup> and 30<sup>th</sup> June, 2018

## International

- Conference: “Effect of effluents on soil quality of GITAM University-a case study”. **K.Swapna Vahini**, S.Tejaswi, Krishnaja, B.V.Pavan. International Conference on Sustainable Environmental Sanitation and Water Resources During the New Millennium (*SESNM-2008*), Visakhapatnam, 26 March, 2008.
- Symposium: Effect of Selenium on Acceleration of Biogas Production. **K.Swapnavahini**, T.Srinivas And M.Sumanth Kumar. International Symposium on Effect of Emissions and Effluents on Environment (EEEE- 2011). Organized by Department of Engineering Chemistry, AU College of Engineering, Andhra University in



Association with National Environmental Engineering Research Institute. 23 – 24<sup>th</sup> December, 2011

- Symposium: Land use and groundwater quality: A case study in South Eastern parts of Greater Hyderabad Municipal Corporation and its adjoining parts in Mahabubnagar District, Andhra Pradesh. Dr.M.Sumanth Kumar, Prof.T.Byragireddy, **K.Swapnavahini**, and Dr.V.Saritha. International Symposium on Effect of Emissions and Effluents on Environment (EEEE- 2011). Organized by Department of Engineering Chemistry, AU College of Engineering, Andhra University in Association with National Environmental Engineering Research Institute. 23 – 24<sup>th</sup> December, 2011
- Seminar: Livelihood Promotion Through Non Timber Forest Produce/Products: Dependency And Usage Pattern of Forest-Dwellers Ch.Bhavannarayana, V.Saritha, P.Brahmaji Rao, **K.Swapnavahini** and Vinay Sagar. International Seminar on emerging threats and challenges to biodiversity: Policy Framework for sustainable management (etcob-2012). Department of Botany, Sri Venkateswara University, Tirupathi (Sponsored by UGC) from 2-4<sup>th</sup> March, 2012.
- Seminar: Species Diversity Study In Community Managed Degraded Forests. Ch. Bhavannarayana, V. Saritha, **K.Swapnavahini** and Trinadh Rao. International Seminar on emerging threats and challenges to biodiversity: Policy Framework for sustainable management (etcob-2012). Department of Botany, Sri Venkateswara University, Tirupathi (Sponsored by UGC) from 2-4<sup>th</sup> March, 2012.
- Conference: Anaerobic digestion of *Ocimum sanctum*: effect of substrate concentration. First International and Third National Conference on Biotechnology, Bioinformatics and Bioengineering, Society for Applied Biotechnology, 28-29 June, 2013
- Conference: A novel biochemical method for production of an antibacterial drug trimethoprim from industrial wastes. First International and Third National Conference on Biotechnology, Bioinformatics and Bioengineering, Society for Applied Biotechnology, 28-29 June, 2013
- Conference: Land use and groundwater quality: a case study of suburban parts of greater hyderabad municipal corporation. International conference on technologies for sustainable waste management in developing countries, Schools of Biotechnology, Chemical Engineering and Civil Engineering, Vignan's University, 23-24 August, 2013.
- Conference: Assessment of water quality for Groundwater in Gara Mandal after the Severe cyclone Storm Phialin affecting Srikakulam District. International Conference on Environmental Biotechnology and Biodiversity, Department of Chemical Engineering, Andhra University, 3-4 March, 2014
- Conference: Lignocellulose degradation of *Ocimum sanctum* during Anaerobic digestion: effect of inoculum density. International Conference on Environmental Biotechnology and Biodiversity, Department of Chemical Engineering, Andhra University, 3-4 March, 2014
- Conference: Experimental study concerning lignocellulose degradation of *Ocimum sanctum* during anaerobic digestion: effect of trace metals. International Conference on Effects of Emissions & Effluents on Environment (EEEE-2014). A.U. College of Engineering, Andhra University, Visakhapatnam, 30<sup>th</sup> June -1<sup>st</sup> July, 2014
- Conference: Landuse and Groundwater Quality; A case study of Sub Urban parts of Greater Hyderabad Municipal Corporation. International Conference on Technologies for Sustainable Waste Management in Developing Countries, Vignan University, Guntur, 23<sup>rd</sup>- 24<sup>th</sup> August, 2014
- Conference: Groundwater quality in Phialin affected areas of Vajrapukotturu mandal, Srikakulam District, Andhra Pradesh, India. Second Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Mrs A.V.N. College, Visakhapatnam, 13<sup>th</sup> -14<sup>th</sup> December, 2014

- Conference: Groundwater and Water Quality Index: A case study in South Eastern parts of Greater Hyderabad Municipal Corporation, Andhra Pradesh. Second Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Mrs A.V.N. College, Visakhapatnam, 13<sup>th</sup> -14<sup>th</sup> December, 2014
- Conference: Lignocellulose Degradation Of *Ocimum Sanctum* During Anaerobic Digestion: Effect Of Inoculum Density And Chromium Trace Metal. Third Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Dr B.R. Ambedkar University, Srikakulam, 16<sup>th</sup> -17<sup>th</sup> December, 2014
- Conference: Assessment Of Water Quality For Groundwater In Gara Mandal After The Severe Cyclone Storm Phialin Affecting Srikakulam District And Wash Aspects For Personal Hygiene And Sanitation. Third Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Dr B.R. Ambedkar University, Srikakulam, 16<sup>th</sup> -17<sup>th</sup> December, 2014
- Effect of Nickel as trace metal on Anaerobic digestion of *Ocimum sanctum* from Sanctum sanctorum. International Symposium on Social Business for Sustainable development. Andhra University, Visakhapatnam in association with YunusCenter, Dhaka
- Assessment of Environmental Awareness and sanitation among Tribal population : A case study of Pathapatnam, Srikakulam District, Andhra Pradesh. International Symposium on Social Business for Sustainable development. Andhra University, Visakhapatnam in association with YunusCenter, Dhaka
- Anaerobic Digestion of *Ocimum sanctum*: Effect of Inoculum density and Substrate concentration and Micronutrient Selenium. International Conference AP Bio 2017 from 10 to 11<sup>th</sup> August, 2017. GITAM University, Visakhapatnam
- Diabetes: A cross-sectional survey on awareness among Kakinada residents. International Conference AP Bio 2017 from 10 to 11<sup>th</sup> August, 2017. GITAM University, Visakhapatnam
- Anaerobic digestion of *Ocimum sanctum*: Effect of Inoculum and Trace Metals, International Conference on Environmental Biotechnology (A promise to clean energy and green future) EBIO – 2017 held during 23<sup>rd</sup> to 25<sup>th</sup> November, 2017, Department of Chemical Engineering AUCEA (A), Andhra University, Visakhapatnam

### **Seminar/ Conferences/Workshops Attended**

- ❖ National Workshop on Recent Advances in Genomics and Proteomics. Department of Biotechnology, Biochemistry and Microbiology, GITAM Institute of Science, GITAM University, 14<sup>th</sup> February, 2009
- ❖ National Seminar on New Horizons in Microbiology. Department of Microbiology, GITAM Institute of Science, GITAM University, 23<sup>rd</sup> February, 2010.
- ❖ National Seminar on Role of Geo-Spatial Technologies in Regional Development A focus on Nizamabad District – Telangana State in Department of Geo Informatics, Telangana University, Nizamabad, 12<sup>th</sup> -13<sup>th</sup> March, 2015
- ❖ Global summit on Emerging Science & Technologies: Impact on Environment & Human Health (ESTIEH-2014) & Special Symposia on “ Cancer Therapy & Environmental Toxicology”, Department of Biotechnology, Vikrama Simhapuri University, Nellore, 01-03 August, 2014
- ❖ Participated in a two day national Seminar on “Genetics and Genome Analysis for Novel Therapeutics” organised by Government Degree College Men, Srikakulam from 19<sup>th</sup> to 21<sup>st</sup> December, 2016

- ❖ Two Day National Workshop on Remote Sensing in water resources evaluation and sustainable management (RSWESM) organised by Department of Geo-Engineering and Centre for Remote Sensing during 22-23 March, 2017
- ❖ National workshop on Dissemination of Geo-spatial Technology for development of Andhra Pradesh” organised in association with APSAC, Vijayawada on 7<sup>th</sup> March, 2017
- ❖ One day workshop on “ Internal Quality Assessment and Enhancement “ organised by IQAC, BRAU, Srikakulam on 2<sup>nd</sup> December, 2016
- ❖ One day national workshop on “ Electron spin resonance spectrometer” held on 7<sup>th</sup> April, 2017 at Advanced Analytical Laboratory, DST-Purse Programme, Andhra University, Visakhapatnam
- ❖ Workshop on Capacity building in Biology and Allie Sciences by Govt Degree College, Srikakulam from 1<sup>st</sup> to 3<sup>rd</sup> April, 2017
- ❖ National workshop on “ Next Generation Sequencing: A new advancement in Bioinformatics” during 17<sup>th</sup> to 19<sup>th</sup> February, 2017
- ❖ Six day training workshop on “Science & Technology Communication through Digital Media” from 16<sup>th</sup> December to 22<sup>nd</sup> December, 2016 organised by AASRA, Vizianagaram and Supported by NCSTC, DST, GOI, New Delhi
- ❖ National Workshop on Advanced Techniques Related to Analytical, Molecular, Material Testing and Statistical Tools organized by Advanced Analytical Laboratory, Andhra University during 27-29 March, 2018
- ❖ National workshop on Recent Advances in Geo-spatial Technology with Special Emphasis on Disaster Management organized by Department of Geosciences, Dr B.R. Ambedkar University, Srikakulam in association with APSAC, Vijayawada on 4<sup>th</sup> April, 2018

#### **Seminars/Conference/Workshops Organised**

- ❖ International Conference on Sustainable Environmental Sanitation and Water Resources During the New Millennium (*SESNM-2008*), Visakhapatnam, 26 March, 2008.
- ❖ Co-convener, Workshop cum Exhibition on “Biodiversity Conservation for Sustainable Development”. 12 March, 2008
- ❖ Co-convener, Workshop on “Climate Change”. 19 March, 2009.
- ❖ Active member, Advisor and Mentor for Exhibition on Ozone Day, 16<sup>th</sup> September, 2007.
- ❖ Co- convener, Workshop on “Solid Waste Management”, 21<sup>st</sup> March, 2007.
- ❖ Active member, Advisor and Mentor for Science Expo, February, 2007and 2009.
- ❖ Workshop on “ Environmental Pollution and its Impact on Climate Change”, 3<sup>rd</sup> December, 2009
- ❖ Co-convener, Workshop on “Climate Change Challenges and Future Prospects”, 9<sup>th</sup> February, 2010.

- ❖ Member, Industrial Meet – 2011. Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam, 18<sup>th</sup> August, 2010.
- ❖ Organizing Secretary, National Workshop on New Horizons in Biotechnology. Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam, 18<sup>th</sup> March, 2011.
- ❖ Convener, XXIX Annual Convention of AHI and National Seminar on Hydrology with a special Colloquium on Management of Rural Water Resources. Association of Hydrologists of India and Department of Geosciences, Dr B.R. Ambedkar University, Srikakulam, 15 – 17<sup>th</sup> July, 2011.
- ❖ Member, National Seminar on Irrigation Development Policy and Agriculture in India Since Independence. Department of Rural Development, Dr B.R. Ambedkar University, Srikakulam. 25-26<sup>th</sup> November, 2011.
- ❖ Member, Workshop on Current Trends in Drug Development. Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam, 18<sup>th</sup> March, 2011.
- ❖ Organizing Secretary, International Workshop on Water, Air, Sanitation and Hygiene : Attitudes and Practices (WASH-2018) conducted by Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam on 27<sup>th</sup> January, 2018
- ❖ Member, National Workshop on ODF and ODF+ conducted by Dr B.R. Ambedkar University, Srikakulam, on 30<sup>th</sup> January, 2018
- ❖ Organized many workshops, exhibitions and seminars in the Department of Environmental Studies, GITAM Institute of Science, GITAM University upto April 2010.

### **Short Term/ Refresher/ QIP Programmes Attended**

- ❖ Refresher course on “**Biotechnology**” in the Department of Biotechnology, Andhra University from 14<sup>th</sup> July to 4<sup>th</sup> August, 2008.
- ❖ Staff development Programme/ Quality Improvement Programme on “Instructional Design and Delivery System” conducted by National Institute of Technical Teachers Training and Research (NITTTR), at GITAM institute of Science, GITAM University, Visakhapatnam- 45 from 1<sup>st</sup> to 6<sup>th</sup> May, 2009.
- ❖ Orientation Programme conducted at Academic Staff College, Andhra University, Visakhapatnam from January 19<sup>th</sup> to February 15<sup>th</sup>, 2013.
- ❖ Refresher Course on Life Sciences at Academic Staff College, Andhra University from 7<sup>th</sup> March, 2015 to 27<sup>th</sup> March, 2015

### **Extension Activities**

- A survey on the crop productivity variations with different crop varieties to farmers
- A Survey on ODF in different villages of five mandals of Srikakulam District, Andhra Pradesh
- A survey on Life threatening diseases in different villages of Etcherla and Ponduru Mandal, Srikakulam
- Free medical camp at Anganwadi Centre, Etcherla Mandal, Srikakulam
- Farmers congress for awareness on Natural Farming and Organic Farming in Etcherla Village, Etcherla Mandal, Srikakulam

**Membership**

Life Member, Forum for Intellectual Academicians and Researchers (No. FIAR 13034)

**Personal Details**

Father's Name	:	K.S. Chowdary
Date of Birth	:	8 December 1980
Nationality	:	Indian
Marital Status	:	Married
Sex	:	Female

**(K.SWAPNA VAHINI)**