

CURRICULUM VITAE

Dr. K.V.N. SURESH REDDY

Asst. Professor

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PRESENT EMPLOYMENT

- Working as **Assistant Professor** in Department of **Engineering Chemistry** of GITAM Institute of Technology, GITAM University, Visakhapatnam.

PREVIOUS EMPLOYMENT

- Worked as **Assistant Professor** in Department of **Chemistry** in St. Johns College of Engineering and Technology, Yemmiganur, Kurnool (Dist), AP, India from **Aug 2011 to May 2013**. (*Ratified by University Selection Committee, JNTUA, Anantapur*)
- Worked as **Assistant Professor** in St. Johns College of Pharmaceutical Sciences, Yemmiganur, Kurnool (Dist), AP, India during **Aug 2010 to July 2011**.
- Worked as *Postdoctoral Research Fellow* in Department of Chemistry, *National Chung Hsing University* and *National Chiao-Tung Univeristy, Taiwan* during the period **Oct 2008 – July 2010**.
- Worked as a *Research Analyst* in Analytical Development Department (AR&D) of *Apotex Research Pvt. Ltd*, Bangalore, India during the period Nov 2006 – Oct 2008

EDUCATIONAL QUALIFICATIONS

- **Ph.D** - “**Thermo-Physical properties of Octane Enhancing additives in liquid mixtures**” in **Chemistry Department**, Sri Venkateswara University, Tirupati, AP, India, (2006).
- **B.Ed - Physical & Biological Sciences**, IASE, Sri Venkateswara University, Tirupati, AP, India, (2001)
- **M.Sc - Analytical Chemistry** with **First** Division, Sri Venkateswara University, Tirupati, AP, India, (2000),
- **B.Sc - Chemistry**, Physics and Zoology, Sri Krishnadevaraya University, Anantapur, AP, India (1998)

AREAS OF EXPERTISED

- **Thermo-Physical Properties** of liquid mixtures
- Development and Applications of Different **Nanostructural Materials** (Synthesis and modification of Silver and Gold nanoparticle and their applications for the detection of small molecules)
- **HPLC Method Development** and Validation of Different Commercial Drug Formulations and their In-vitro studies.
- Removal of Toxic Metals from Waste Water by **Biosorption**

FELLOWSHIPS

- Worked as a **“Project Fellow”** in major research project sponsored by University Grants Commission, Govt. of India from 14-09-2001 to 13-09-2004.

RESEARCH GUIDANCE/EDITORIAL MEMBER

- **Two** members are registered for **PhD** programme in the area of **Chromatographic analysis of drugs**.
- Acted as **Research Supervisor/Co-Supervisor** for **four B. Pharmacy projects**.
- **Editorial member** in *Indian Journal of Advances in Chemical Sciences*

ADMINISTRATIVE EXPERIENCE

- Worked as a Vice Principal in St. Johns College of Pharmaceutical Sciences, Yemmiganur, Kurnool (Dist), AP, India during **Aug 2010 to July 2011**.
- Worked as Coordinator for Chemistry Department in St. Johns College of Engineering and Technology, Yemmiganur, Kurnool (Dist), AP, India during **Aug 2011 to May 2013**.

ACADEMIC AND RESEARCH TRAINING

- Development and validation of HPLC methods: New HPLC methods were developed and validated for drugs (Tibolone, Nebivolol, Deslortadine, Olanzapine, Fluoxetine).
- Characterization of Nanostructural Materials by Raman, IR, Florescence and SEM
- Actively associated with the activities of the Chemical Society, Department of Chemistry, Sri Venkateswara University, Tirupati
- Trained in taking practical and theory classes for post graduation students of Chemistry in Department of Chemistry, Sri Venkateswara University, Tirupati

- Knowledge acquired in theoretical calculations for Excess Volumes, Sound Speeds, Viscosities and Vapor Liquid Equilibria for different binary systems based on different theories.
- Knowledge acquired in the development of new generated low cost Biosorbents for toxic metal removal from aqueous solutions.
- Characterisation of Biosorbents by the using of Scanning Electron Microscopy (SEM), Porosimetry, X-ray diffractometry and FTIR techniques

LIST OF PUBLICATIONS

1. **K.V.N. Suresh Reddy**, D.H.L. Prasad and A. Krishnaiah, Vapor-liquid equilibria for the binary systems of dimethoxymethane with some fuel oxygenates, *Journal of Chemical and Engineering Data*, 49 (2004) 1546. (*American Chemical Society*, **IF 1.693**).
2. **K.V.N. Suresh Reddy**, P. Srinivasa Rao and A. Krishnaiah, Densities, speeds of sounds, excess volumes and viscosities of binary mixtures of MTBE with tetralin and decalin at 303.15 K, *Physics and Chemistry of Liquids*, 42 (2004) 561. (*Taylor and Francis*, **IF 0.603**)
3. **K.V.N. Suresh Reddy**, D.H.L. Prasad and A. Krishnaiah, Isobaric vapor-liquid equilibria for the binary systems of fuel oxygenates with aromatic hydrocarbons, *Physics and Chemistry of Liquids*, 43 (2005) 543. (*Taylor and Francis*, **IF 0.603**)
4. **K.V.N. Suresh Reddy**, D.H.L. Prasad and A. Krishnaiah, Phase equilibria for binary systems of octane boosters with 2,2,4-trimethylpentane, *Fluid Phase Equilibria*, 230 (2005) 105. (*Elsevier*, **IF 2.103**)
5. P. Srinivasa Rao, S. Kalyani, **K.V.N. Suresh Reddy** and A. Krishnaiah, Comparison of biosorption of Nickel(II) and Copper(II) ions from aqueous solutions by *Sphaeroplea algae* and acid treated *Sphaeroplea algae*, *Separation Science and Technology*, 40 (2005) 1. (*Springer Group*, **IF 1.088**)
6. **K.V.N. Suresh Reddy**, G. Sankara Reddy and A. Krishnaiah, Excess volumes, densities, speeds of sounds and viscosities for the binary systems of diisopropyl ether with hydrocarbons at 303.15 K, *Thermochimica Acta*, 440 (2006) 43. (*Elsevier*, **IF 1.805**)
7. **K.V.N. Suresh Reddy**, Y.V.L. Ravi Kumar, D.H.L. Prasad and A. Krishnaiah, Vapor-liquid equilibria for binary systems of dimethoxymethane with hydrocarbons, *Journal of Chemical and Engineering Data*, 51 (2006) 326. (*American Chemical Society*, **IF 1.693**)
8. B.V. Reddy, **K.V.N. Suresh Reddy**, J. Sreeramulu and G.V. Kanumula, Simultaneous determination of Olanzapine and Fluoxetine by High performance Liquid Chromatography, *Chromatographia*, 66 (2007) 111. (*Springer Group*, **IF 1.191**)

9. **K.V.N. Suresh Reddy**, P. Srinivasa Rao and A. Krishnaiah, Experimental and theoretical values of sound speeds and viscosities for the binary systems of MTBE with hydrocarbons, *Journal of Molecular Liquids*, 135(1-3) (2007) 14. (*Elsevier*, **IF 1.580**)
10. P. Srinivasa Rao, **K.V.N. Suresh Reddy**, S. Kalyani, and A. Krishnaiah, Comparative biosorption of Copper and Nickel from aqueous solutions by Neem (*Azadirachta indica*) sawdust and acid treated sawdust, *Wood Science and Technology* 41(5) (2007) 427. (*Springer Group*, **IF 1.727**)
11. P. Srinivasa Rao, J. Ajitha Priya, S. Kalyani, **K.V.N. Suresh Reddy** and A. Krishnaiah, Biosorption of hexavalent chromium using Tamarind (*Tamarindus indica*) fruit shell – a comparative study, *Electronic Journal of Biotechnology*, 10(3) (2007) 358. (*Pontificia Universidad Católica de Valparaíso*, **IF 0.97**)
12. P. Srinivasa Rao, S. Kalyani, **K.V.N. Suresh Reddy** and A. Krishnaiah, Biosorption of hexavalent chromium from aqueous solution by using prawn pond algae (*Sphaeroplea*), *Indian Journal of Chemistry A*, 46A (2007) 284. (*NISCAIR-India*, **IF 0.89**)
13. **K.V.N. Suresh Reddy** and **Jyisy Yang**, Preparation and Characterization by Surface-enhanced Raman Spectroscopy(SERS) of Silver nano particles formed on Silicon substrates by electroless deposition (Presented in Analytical Conference held at National Chung Cheng University, Chiayi, *Taiwan* ROC on 9th May, 2009).
14. K. N. Shashi Kumar, Popuri Srinivasa Rao, **K.V.N. Suresh Reddy**, Determination of Diphacinone in Grain Samples by Using Adsorptive Stripping Voltammetry, *International Journal of Research in Chemistry and Environment*, 2-1 (2012) 74.

PAPERS PRESENTED ATTENDED AND CONFERENCES / WORKSHOPS

1. National Seminar on Current Trends in the Chemistry of Heterocyclic Compounds (NCCTCH) held at S.V. University, Tirupati, India during 13 – 14 March, 2000.
2. 22nd Conference of Indian Council of Chemists held at Indian Institute of Technology, Roorkee, India during 17-19 October, 2003.
3. Satellite Seminar on Analytical Techniques for Meeting the Challenges of Nuclear Technology, Tirupati, India during March 15 – 17, 2004.
4. National Seminar on Role of Chemistry in Emerging Areas of Applied Sciences (RCEAS-2004) held at S.V. University, Tirupati, India during 15 -17 March, 2004.
5. National Workshop on Environmental and Pollution Awareness (EPA – 2004) held at D.R.W. College, Gudur, India on 7th August 2004.
6. UGC Seminar on Role of Chemistry in Drug Development Strategies (NSRCDDC) held at S.V. Arts College, Tirupati, India during 13 – 14 August, 2005.
7. 15th National Symposium and Workshop on Thermal Analysis (THERMANS – 2006) held at Rajasthan University, Jaipur, India during 6 -10 February, 2006.

8. National Conference on Novel Materials and Technologies (NCNMT – 2006) held at Sri Venkateswara University, Tirupati, India during 17 – 18 February, 2006.
9. National Seminar on Role of Chemistry in Emerging Areas of Biology and Industries (RCEABI – 2006), Sri Krishnadevaraya University, Anantapur, India during 24-25 March, 2006.
10. Seminar on Analytical Chemistry 2009 held at National Chung Cheng University, Chia-Yi 621, *Taiwan*.
11. Workshop on High Impact Teaching Skills by Mission 10X and Wipro held at St.Johns College of Engineering & Technology, Yemmiganur, Kurnool during 23-27 Nov 2011.

TECHNIQUES KNOWN

1. Ultra Performance Liquid Chromatography (UPLC), Gas and High-Performance Liquid Chromatography Techniques
2. FTIR, Raman, UV-Visible Spectrophotometry, Atomic Absorption Spectrometry, SEM and Fluorimetry
3. Calorimetry, Differential Scanning Calorimetry and Thermo Gravimetry Analysis
4. Dilatometry, Densimetry, Interferometry and Ebulliometry

MEMBERSHIPS IN SCIENTIFIC ORGANIZATIONS

1. Life member, Indian Society of Analytical Scientists (ISAS).

PERSONAL PROFILE

Name : K.V. N. Suresh Reddy
Father Name : K. Thirupem Reddy
Nationality : Indian
Sex : Male
Marital Status : Married
Languages Known : English, Telugu, Kannada and Hindi