

Name : **Dr.Rachamalla Shyam Sunder**

Designation : Professor and Principal

Department : Dept. Of Chemical Engineering

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Area of Interest : **Heat Transfer:** Heat Transfer in Boiling and Condensation.

Pharmaceutical Technology: Formulation, Evaluation and Stability studies of tablets /emulsions / suspensions.



Educational Qualifications:

S.NO	Degree	University/Institution	Year of Passing	Division	Specialization
1.	B.Tech	Osmania University	1983	First	Chemical Engineering
2.	M.Tech	Osmania University	1988	First	Chemical (Technology of Pharmaceuticals & Fine Chemicals)
3.	Ph.D.	Osmania University	2006	--	Chemical Engineering (Condensation Heat Transfer)

Job Experience: 29 Years (18 Years of Teaching + 11 Years of Industrial Experience)

Work Experience:

Teaching Experience:

University	Designation	Period	Duration
Osmania University	(i) Professor	January 2008 to till date	18 Years PG & UG
	(ii) Associate Professor	31 st October, 1997 to 31 st December,2007	

Industrial Experience:

Name of the Organization	Designation	Period	Duration
* 1. Hindusatan Fluoro Carbons Ltd. (A Govt. of India Under taken)	<ul style="list-style-type: none">• Asst. Manager• Production• Shift Superintendent• Plant Engineer• M.T.	Nov.1986 to 31 st Oct.1997	10 ½ years
2. SAIL (Rourkela Steel Plant).	• M.T →	Nov.1985 to Nov.1986	1 year

Membership in Professional Bodies:

1. IIChE - Indian Institute of Chemical Engineers – Life members L M 19226.
2. ISCA – Indian Science Congress Association – Life member LM.

S.No.	Position Held	Duration
1.	Chairman – Indian Institution of Chemical Engineers – Hyderabad Regional Center	2012-2013.
2.	Vice- Chairman - IIChE	2009-2011.
3.	Honorary Regional Secretary	2005 - 2009.
4.	Joint Secretary for 2002 – 03	2002 - 2003.
5.	Local OUTA Secretary OUCT	two years.

Books Published:

1. Contributed one chapter course material as Co- Author on principles of Heat Transfer for Drug Technology unit operations. Book published in 2003 by Dr.B.R.Ambedkar Open University Hyderabad.

Papers Published in International/National Journals:

1. Aravind G.S., Arun Y., **Shyam Sunder R.**, Subramanian S., Natural Convection Heat Transfer in Coiled Heat Exchanger, IE (I) Journal – CH, Vol.84, Sept,2003,5-7
2. Hanumath Sastry V., Amareshwar P., and **Shyam Sunder R.**, Studies on Diclofenac Sodium Loaded Ethyl cellulose Microcapsules, Journal of pharmacy and chemistry(An international research Journal of Pharmaceutical and Chemical Sciences.) Accepted for publications on 12-12-2007. Volume – 2, January – March 2008, 79-81.
3. **Shyam Sunder R.**, Sailu CH., Vail SM., Hanumath Sastry V., Invitro Studies on Adsorption of Omeprazole by activated charcoal. Journal of Pharmacy and Chemistry (An International research Journal of Pharmaceutical and Chemistry Sciences.). Volume – 2, Issue – 2, April- June 2008, 123 – 127.
4. Hymavathi T., Sanker B., **Shyam Sunder R.**, A Quasilinearisation approach to MHD Visco-Elastic Fluid flow and Heat Transfer over a Non – Isothermal stretching sheet embedded in a porous medium. International Journal of Computational Intelligence Research and applications,2(1) January – June , 2008, 56-70.
5. Shanker B., Hymavathi T., **Shyam Sunder R.**, A Quasilinearisation approach to mixed convection flow of Non-Newtonian fluid on a vertical surface. International Journal of logic based intelligent systems, Vol.2,No-1, January – June 2008, 15-30.
6. **Shyam Sunder R.**, Rajendra Prasad K., Mohib Khan and Vemuri Sastry. Antibacterial activity of different extracts of bark of *barringtoniaacutangula* (L.) Gaertn. Journal of Chemical and Pharmaceutical Sciences. Vol.2, Issue – 2, April – June, 2009.
7. Nivethithai P., Hanumath Sastry V., Syeda Rana Nikhat., Rajesh Babu P., Mohib Khan and **Shyam Sunder R.**, Evaluation of Impact of Patient Medication Counseling in Socio – Economically Deprived Anemic Pregnant Women. Journal of Chemical and Pharmaceutical Sciences.Vol.2, Issue – 3, July – September,2009.
8. Sirisha. M., **Shyam Sunder R.**, and Amareshwar P., Comparative and Quantitative analysis of solvent extracted Linseed oil of Indian Origin, based on dielectric constant and expressed oil with other varieties. Journal of Pharmacy and Chemistry.Vol.3, Issue -4, October – December,2009.
9. Sirisha M^{*1},**Shyam Sunder R**²,Amareshwar P³. Know more about Propitious Seed-FLAX. International Journal of Pharmacy and Technology. Vol.2, Issue-02, June 2010, pages -246-258.
10. Chinna Gangadhar B., **Shyam Sunder R.**, Vimal Kumar Varma M., Sleeva Raju M., Sai Kiran M. Formulation and Evaluation of Indomethacin Microspheres using natural and synthetic polymers as Controlled Released Dosage forms. International Journal of Drug Discovery,ISSN:0975 – 4423.Vol.2, Issue – 1, 2010, pp – 08-16.
11. Kiran A. Ramisetty¹ and **Shyam Sunder R.** ^{1*}. Effect of Ultrasonication on Stability of Oil in Water Emulsions. International Journal of Drug Delivery 3 , 2011 133-142.

12. Sirisha M., **Dr. Shyam Sunder R.**, Ashajyothi V. Formulation, Evaluation, Microbial Study and Acute Toxicity Study of Linseed oil Ointment using different Bases. International Journal of Pharmacy & Technology. Vol.4, Issue – 2, July – 2012, Pg. 4577-4590.
13. Bhargavi¹ P., Krishna Sailaja² and **Shyam Sunder R.**³. Formulation and Evaluation of Ranitidine Hydrochloride Floating Tablets using various Polymers. International Journal of Pharmacy and Integrated Life Sciences. ISSN: 2320- 0782. Vol.1, Issue -5, April – 2013 Pg.150-161.
14. Shirisha Mittapally*¹, **Prof. Shyam Sunder Rachamalla** ². Comparison and characterization of linseed available in India, World Journal of Pharmacy and Pharmaceutical Sciences, ISSN 2278-4357 Volume-3, Issue-3, 2014, 1496-1503,.
15. ¹*Maheshwara Rao J, ²**Shyam Sunder R.**, ³Krishna Shilaja A. Formulation Characterization and optimization of process variables of Chitosan Nano particles Containing Sulfasalazine. Has been accepted for publication, Volume -7, Issue-2 2014, Journal of Chemical and Pharmaceutical Sciences, ISSN:0974-2115.
16. Sri Harsha Mainum*¹, Dr.P.Shashikala . Extraction, Nanoformulation and Evaluation of Curcumin, International Journal of Pharmacy and Integrated Life Sciences, Vol -2, Issue – 5, Pg : 47-58 , ISSN:2320 – 0782, April 2014.
17. Bidya Dhar Sahu ^a, Srujana Tatireddy ^b, Meghana Koneru ^a , Roshan M. Borkar ^c, Jerald Mahesh Kumar ^d, Madhusudana Kuncha^a , Srinivas R.^c, **Shyam Sunder R.**^e, Ramakrishna Sistla.^{a*}. Naringin ameliorates gentamicin – induced nephrotoxicity and associated mitochondrial dysfunction, apoptosis and inflammation in rats: Possible mechanism of nephroprotection. Journal of Toxicology and Applied Pharmacology, 277 (2014)8-20.
18. Bidya Dhar Sahu ^a, Harika Anubolu ^a, Meghana Koneru ^a, Jerald Mahesh Kumar ^b, Madhusudana Kuncha ^a, **Shyam Sunder Rachamalla**^c, Ramakrishna Sistla ^{a*}. Cardioprotective effects of embelin on isoproterenol- induced myocardial injury in rats: Possible involvement of mitochondrial, Journal Life Science 107 (2014) 59-67.
19. Bidya Dhar Sahu, Uday Kumar Patcha, Madhusudana Kuncha, **Shyam Sunder Rachamalla**, Ramakrishna Sistla. Carnosic acid promotes myocardial antioxidant response and prevents isoproterenol-induced myocardial oxidative stress and apoptosis in mice. Molecular and Cellular Biochemistry (2014) 394:163 – 176. An International Journal for Chemical Biology in Health and Disease, ISSN 0300-8177, Vol-394, Combined 1-2.
20. Bidya Dhar Sahu¹, Anil Kumar Kalvala², Meghana Koneru¹, Jerald Mahesh Kumar³, Madhusudana Kuncha¹, **Shyam Sunder Rachamalla**⁴, Ramakrishna Sistla^{1*}. Ameliorative Effect of Fisetin on Cisplatin-Induced Nephrotoxicity in Rats via Modulation of NF-Kb Activation and Antioxidant Defence. September 2014, Vol-9, Issue-9, e 105070.
21. Bidya Dhar Sahu · Madhusudana Kuncha · **Shyam Sunder Rachamalla** · Ramakrishna Sistla · Lagerstroemia speciosa L. Attenuates Apoptosis in Isoproterenol-Induced Cardiotoxic Mice by Inhibiting Oxidative Stress: Possible Role of Nrf2/HO-1, 23 May 2014.

22. D Pooja, S Panyaram, H Kulhari, S Chinde, **SS Rachamalla**, R Sistla. (2015). Natural gum capped biocompatible gold nanoparticles as drug delivery carrier for anticancer drugs. *International Journal of Biological Macromolecules* 80:48-56. (IF: 3.096).
23. D Pooja, H Kulhari, L Tunki, S Chinde, M Kuncha, P Grover, **SS Rachamalla**, R Sistla. (2015) Nanomedicines for targeted delivery of etoposide to non-small cell lung cancer using transferrin functionalized nanoparticles. *RSC Advances* 5, 49122-49131. (IF: 3.840).
24. D Pooja, H Kulhari, MK Singh, S Mukherjee, **SS Rachamalla**, R Sistla. (2014). Dendrimer-TPGS mixed micelles for enhanced solubility and cellular toxicity of taxanes. *Colloids and Surfaces B: Biointerfaces* 121, 461-468. (IF: 4.152).
25. D Pooja, S Panyaram, H Kulhari, **SS Rachamalla**, R Sistla. (2014) Xanthan gum stabilized gold nanoparticles: characterization, biocompatibility, stability and cytotoxicity. *Carbohydrate Polymers* 110, 1-9. (IF: 4.074)
26. Teelavath Vijayakumari, Mangilal.T, **Shyam Sunder.R**, Jayaprakash.D, Ravindernath.A and Rao Patnaik.K.S.K. Formulation and Evaluation of Colon targeted drug delivery system containing anti diabetic agent. *International Journal of current research*. Vol 7, Issue, 01, Pages 12057-12073, January 2015.
27. *¹Teelavath Kavitha, ¹Mangilal T, ²Shyamsunder R, ²Jayaprakash D, ²Ravindranath A, ²Rao Patnaik,K.S.K. Formulation and Evaluation of Bisoprolol Fumarate Extended Release Tablets. *International Journal of Current Research*. Vol.07, Issue.03, Pages: 13316 – 13337, March,2015.
28. Satheesh Jogala, **Shyam Sunder Rachamalla**¹,Jithan Aukunuru. Development of Subcutaneous sustained release nanoparticles encapsulating low molecular weight heparin. *Journal of Advanced Pharmaceutical Technology and Research*.Vol-6,Issue-2, April – June 2015.
29. A.Dharamsingh^{1*},DipakKumar¹,T.Mangilal²,**R.ShyamSunder**²,D.Jayaprakash²,A.Ravindranath²Formula tion and Evaluation of Bilayer Buccal Tablets of Salbutamol Sulphate using a Combination of Polymers. *World Journal of Pharmaceutical Research*. Vol- 4,Issue-9, Pages:1565-1584, 19 August 2015.
30. Thirupathaiah Attapu*, Sandeep Ankam, Shyam Sundher R., Ravindranath A. Acetazolamide Induced Effects in Glaucoma Patient – A Case Report. *European Journal of Biomedical and Pharmaceutical Sciences*. Vol – 3, Issue – 4 Pages:441-442, 2016.

31. B.Rambabu^{1*}, K.S.K.Rao Patnaik¹, R.Shyam Sunder¹, P.Shashikala¹, E.Nagabhushan ¹. Anticonvulsant Activity of Ethanolic Extracts of Flowers of Jasminum sambac, Chamomilla capitula, Lilium candidum and Sorghum Halpense Linn. Vol - , Issue – 4, ISSN: 0976 -3805, 30 July 2016.
32. Satheesh Jogala¹, Shyam Sunder Rachamalla² and Jithan Ankunuru. Development of PEG –PLGA based Intravenous Low Molecular weight Heparo (LMWH) Nanoparticles Intended to treat Venous Thrombosis, Current Drug Delivery,2016, Vol – 13, 2016.

PAPERS PRESENTED IN NATIONAL /INTERNATIONAL CONFERENCES :

1. Shyam Sunder R and Subrahmaniyam S, Study of Condensation in Finned Heat Exchanger, presented in Chem – con 2002, during 19-22 December 2002, Technical sessions proceedings, page No.6.
2. Ananthakumar V., Thimmarusu, Shyam Sunder R and Subrahmaniyam S, modeling of External Condensate Flows. Presented in Chem – con 2002, during 19-22 December 2002 Technical sessions proceedings, page No.76.
3. Madusudhan Raju R, Chaitanya Reddy K.K., Srikanth Reddy G.,Shyam Sunder R and Subrahmaniyam S. Study on Condensation Heat Transfer on a Finned Tube. Presented Chem – con 2003, during 19-22 December 2003, Technical sessions proceedings.
4. Madusudhan Raju R., Shyam Sunder R and Subrahmaniyam S, Study on Condensation Heat Transfer on a Finned Tube Exchanger. Presented Chem –con 2003, during 19-22 December 2003, Technical sessions proceedings.
5. Devesh Raju P., Uma T, Shyam Sunder R., Subrahmaniyam S, Experimental Investigation of Condensation Heat Trasfer Co – Efficient on a Horizontal Multi – Fin and Multi – tube condenser. Chem – con – 2005. During 17-20 December 2005.
6. Swathi K., Narsireddy M, Ranganayakulu S.V., Shyam Sunder R, Venkateswar S, Venkateswarao L., Effect of 36 KHz Ultrasound on Anti Biotic Activity upon several Bacterial Species, Presented in a National Symposium on advances in Chemical Engineering (ACheme) Organized by OUCT Osmania University Hyderabad. November 22nd to 24th 2007.
7. Paramesha A, Mahesh Kumar P, Anjaneyulu Y, Shyam Sunder R, Basava Rao V.V., Effect of Mode of Settling on Drug Coefficient of Non – Spherical particles in various fluids. Presented in Chem – con – 2007. During 27-30, December 2007.
8. Shiva Shankar N., Dr. Shyam Sunder R., Dr. Basava Rao V.V., A Study on Flow behavior and Enhanced Heat Transfer Characteristics of Nano Fluids. Presented in Chem – con - 2012. During 27-30 December 2012.

International Workshop attended

1. A 5 – Day International training program on Pneumatics & Electro – pneumatics conducted by S.M.C Sydney, Australia, During December 11 to 15 2006.
2. A 3 – Day International training program on Particulate solids at Particulate solid research, Inc, Chicago, IL, USA during 5th March to 9th March 2009.

ADMINISTRATIVE POSITIONS HELD IN THE UNIVERSITY:

S.No.	Position Held	Duration
1.	Principal, University College of Technology(A), Osmania University	April 2017-Till Date
	Dean, Faculty of Pharmacy, Osmania University	W.e.f -18-01-2012.
2.	Dean, Faculty of Pharmacy, Shathavahana University, Karimnagar	W.e.f -18-01-2012.
3.	Regional Coordinator for EAMCET	2013,2014 and 2015
4.	Andhra Pradesh Task Force Committee Member	2012-2013
5.	Additional Controller of Examinations, O.U	24-02-2009 to 2011.
5.	Chairman, BOS in Pharm –D, O.U	2009 to 2011.
7.	Chairman, BOS in Pharmacy, O.U	2007 to 2010.
8.	Head Department of Pharmaceutical & Fine Chemicals, University College of Technology	2006-2017
9.	Officer Incharge Examination Cell	2004 – 05, 2005 – 06, 2006 - 2007.
10.	Student Advisor	2001-2006.
11.	Officer - in – charge examination cell (Confidential) University College of Technology	
12.	Member in Selection Committees as University Nominee for various affiliated colleges under O.U.	
13.	Member for Board of Studies in Pharmacy – JNTU	
14.	Member for board of Studies in Technology, O.U.	
15.	Member for Board of Studies in Pharmaceutical Chemistry, M.G. University	
16.	Member for Governing body for various Affiliated Colleges under O.U	
17.	Member in standing committee of Academic senate, O.U	
18.	Member in Academic Senate of O.U	