



Dr.SUSAMMA A.P.

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EDUCATIONAL QUALIFICATION

- Pre Degree and B.Sc. Chemistry from Assumption College Changanacherry
- M.Sc. Chemistry from S.B.College Changanacherry in 1982 with **Distinction. Kerala University First Rank**
- Ph.D. from Polymer Science and Rubber Technology, CUSAT in 2003
- P.D.F. (**Commonwealth Academic Fellowship 2009**) Did 6 months post doctoral research in the Department of **Chemical Engineering, Imperial College, London**

PROFESSIONAL EXPERIENCE

- Total 33 years' experience as lecturer/Associate Professor/Principal under Collegiate Education Department ,Government of Kerala, India.
- Currently working as Director, Planning and Development, KUFOS, Kochi
- H O D of Chemistry ,Maharaja's College Ernakulam and Principal, Government College Thrissur and Government College Tripunithura
- Experience in handling computerised administration/ legal/financial/ establishment matters
- President , Cluster of Colleges, Ernakulam
- Recognized Research Guide M G University Kottayam, 3 research scholars doing research and one student submitted the thesis.
- Coordinator, DST FIST Programme , Maharajas College Ernakulam
- 10 Research papers published in International Journals and 10 Research papers presented successfully.
- Completed 2 Major projects 1 under KSCSTE and 1 under UGC, and 1 minor Project under U G C.
- Reviewer of 4 International Peer Reviewed journals .

Honours and Awards

- P.V Nair Gold Medal for securing the highest percentage of marks for MSc Degree in April 1982 awarded by University of Kerala.
- JawaharlalNehru award including 2 books of JawaharlalNehru for securing first rank for M.Sc Chemistry in the year1982.
- Got Commonwealth Academic Staff Fellowship Award 2009 for doing 6 months postdoctoral research at Imperial College London.
- Recipient of Assumption Alumina Award 2013 instituted by Alumini Association , Assumption College Changanacherry

PUBLICATIONS &RESEARCH DETAILS

Research Publications in International Journals

1. **A.P Susamma**, V.T.E Mini and A.P Kuriakose "Studies on Novel Accelerator System in the Sulphur Vulcanization of Natural Rubber". *Journal of Applied Polymer Science* (2001) 79, 1-8.
2. **A.P Susamma**, Mary Kurian and A.P Kuriakose "A New Binary Accelerator System for Filled Natural Rubber Vulcanization". *Iranian Polymer Journal* (2002) 11(5), 311-323.
3. **A.P Susamma**, and A.P Kuriakose "New Binary Accelerator System for Vulcanization of Polychloroprene Rubber". *Progress in Rubber Plastics and Recycling Technology*. (2003) 19 (4), 231-250.
4. Mary Kurian, **A.P Susamma**, and A.P Kuriakose "Amidinothiourea as a Secondary Accelerator for the Vulcanization of Filled Natural Rubber *Progress in Rubber Plastics and Recycling Technology*. (2004) 20(2) 133-162
5. **A.P Susamma**, Mary Kurian and A.P Kuriakose "New Binary Accelerator Systems for Sulphur Vulcanization of Styrene Butadiene Rubber". *Plastics, Rubbers and Composites*. (2004) 33 (2/3) 63-70
6. **A.P Susamma** A.M Mini and A.P Kuriakose "Amidino phenyl thiourea as a Secondary Accelerator for Vulcanization of Natural rubber-Polychloroprene Blends" *Journal of Rubber Research*. (2008) 11(2) 114-123
7. **A.P Susamma** , N.M Clamma, Ajalesh B Nair and A.P Kuriakose. "Studies on New Binary Accelerator Systems for the Vulcanisation and Rheological Behaviour of Natural Rubber Latex" (2010) *Journal of Applied Polymer Science*, Vol. 115, 2310–2316
8. **A.P Susamma** , Ajalesh B Nair, A.M.Mini and A.P Kuriakose "Studies on new vulcanization ingredients (Amidinophenyl thiourea as accelerator, Rice husk and Coir pith as fillers, Oil from refinery sludge and Rice bran oil as process aids) for NR-SBR blends" Communicated to *Journal of Material Science*
9. **A.P.Susamma** and Jophy Jose "Studies on Natural rubber Nanocomposites by incorporating amine functionalised Graphene Oxide" *Plastics, Rubber and Composites* , Publied online : 09 October 2020.

10. A.P.Susamma and Jophy Jose “Studies on Natural rubber Nanocomposites by incorporating Zinc oxide modified Graphene oxide” Journal of Rubber Research. Published online : 07-10-2020.

Research Papers Presented

1. “Effect of Fillers on a New Binary Accelerator System for Sulphur Vulcanization of NR” Paper presented in the thirteenth Kerala Science Congress held at Thrissur 29-30 January 2001
2. “New Binary Accelerator System for Vulcanization of NR-CR Blends”. The International Seminar on Advances in Polymer Technology (APT 04) at **CUSAT**, Kochi on 16th & 17th January 2004
3. “Novel Accelerator System for Vulcanization of Natural rubber-Polychloroprene Blends” The International Seminar on Elastomers (ISE2005) held during 5th to 8th April 2005, in Rio de Janeiro, **BRAZIL**
4. “Effective use of eco-friendly Waste materials - rice husk and coir pith - as fillers And oil from refinery sludge as process aid In the vulcanisation of rubber” The International Seminar on Biodiversity utilization (Biocam 2008) held during 6th to 9th Feb 2008 at CMFRI, CUSAT.
5. "Studies on Natural Rubber Composites Containing Novel Natural Fillers: Rice Husk and Coir Pith" International seminar on Material science ICMSRN-2008 during 26th to 28th Feb. 2008 at Mother Teresa Women's University, Kodaikanal, Tamil Nadu, India.
6. “Novel accelerator system in the vulcanization of NR-SBR blends” National Symposium on polymer-prospects and challenges POLMSYM 2008 on 4th, 5th April 2008 at National Institute of Technology Calicut, Kerala, India.
7. “Effective use of oil from refinery sludge as process aid In the vulcanization of natural rubber and their blends” National Seminar on Current Advances in Chemical Sciences at S.H College Thevara, India on 26th & 27th November 2008
8. “Rubber nanocomposites with nickel ferrite-Preparation, mechanical and electrical Characterisation” International Conference on Materials for the Millennium MATCON 2010 organized by Department of Applied Chemistry, **CUSAT** during 11th to 13th January 2010
9. “Microporous Polymer Foams from Natural Rubber and Soybean oil Medium Internal Phase water-in-oil Emulsions” International Conference on Rubber and Rubber like Materials,(ICRRM– 2013), March 6-9, 2013
10. “Synthesis and characterization of Nano ZnO” National Seminar on **on Trends in Physical Sciences TriPS – 2013** at Sree Sankara College, Kalady during 25th and 26th July 2013
11. “Synthesis of Nano zinc oxide powder by Gel combustion method” National Seminar on Advances in Nanomaterials and Polymers at Bharat matha Colllege Trikkakkara during 11th and 12th March 2014.

Research projects undertaken

1. “New vulcanization Ingredients for Rubber Product Manufacture” Funded by Kerala State Council for Science, Technology and Environment (**KSCSTE**) Major project. Duration 3 years (Principal Investigator)- **Completed**
2. “Novel vulcanization Ingredients for Synthetic Rubber Product Manufacture” Funded by **U G C** Minor project. Duration 2 Years. (Principal Investigator) **Completed**
3. Development of Microporous Polymer Foams from Natural Rubber and Soybean oil Medium Internal Phase water- in -oil Emulsions (**Commonwealth** Academic Post doctoral fellowship at **Imperial College London**)
4. “Development of Graphene oxide based rubber nanocomposites and studies on its mechanical and electrical properties” Funded by **U G C** Minor project. Duration 2 Years. (Principal Investigator) **Completed**

Reviewer for 4 international Peer reviewed journals.

1. *Polymer Science* Impact factor 5.23,
2. *Soft matter* Impact factor 4.7,
3. *R S C Advances* Impact factor 2.56,
4. *Journal of Materials Chemistry A* Impact factor 7.44,

PERSONAL PROFILE

Name	Dr.Susamma A. P.
Age & DOB	60, 30 – May – 1960
Marital Status	Married, 2 Children &Grandma of Eliza , Serah, Emelyn and Joe
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Nationality	Indian
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