



# Dr Vijayalekshmi V

Assistant Professor of Chemistry

## ADDRESS & EMAIL

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## QUALIFICATION

MSc, B.Ed, Ph.D

## DATE OF JOINING

08/10/2012

## EXPERIENCE IN YEARS

8 years

## AREA OF SPECIALIZATION

Polymer Science  
Rubber Technology  
Nano Sciences

## ADMINISTRATIVE DISTINCTION

- Internal mentor of WWS 2015 - 2017
- Co-ordinator of college calendar revision
- FIST committee member
- Internal mentor of SSP 2019
- CBCSS Internal exam committee member 2018
- Doing an Extension activity for testing the quality of NR latex

## PAPER PRESENTATIONS

- Presented a paper at national seminar on “Green approaches towards chemical synthesis” organized by Dept. of Chemistry S.G College Kottarakkara, on 7/11/2019 and 8/11/2019, Sponsored by Science and Engineering Research Board (DST-SERD) Govt of India.
- Nano Chemistry of bio active molecules-2019 at Christian college Kattakada Co- sponsored by KSCSTE on 19<sup>th</sup> and 20<sup>th</sup> August 2019.
- Presented paper on three day National seminar (BIOMEET -2017) on Recent trends in biomaterials 15<sup>th</sup> - 17<sup>th</sup> February 2017 held at Bishop Moore college, Mavelikkara, organized by DST -SERB and KSCSTE.
- Presented a paper in national symposium on ‘The innovative Trends in chemical education and research: Hurdles and successive Progress’ (ITCER-2017) held at Sree narayana college, kollam during march 22-24, 2017 organized by society for material chemistry, chemistry division, BARC, Mumbai and KSCSTE, TVM.
- Presented paper on national conference on material science and technology, IIST, TVM July 12-14,2016

- Presented a paper on "Oil resistance and Dynamic mechanical analysis of Nitrile rubber latex Cloisite 30B/ TiO<sub>2</sub>Nanocomposites" International symposium on advanced functional materials (ISAFM-2018MarIvanios college, TVM on 14.10.2018
- Presented a paper, in UGC sponsored NATIONAL SEMINAR ON ADVANCED ANALYTICAL TECHNIQUES (NSAAT 2016) organized by the PG & Research Department of chemistry, Mar Ivanios college (Autonomous) Thiruvananthapuram from 9<sup>th</sup> to 11<sup>th</sup> March 2016.
- Presented a paper on Mechanical and antimicrobial studies on MMT clay /TiO<sub>2</sub> nanocomposites in 4<sup>th</sup> International science congress, held at Udaipur, Rajasthan, India from 8<sup>th</sup>-9<sup>th</sup> December 2014.
- Presented paper on "Studies on the effect of montmorillonite clay in combination with TiO<sub>2</sub> on the properties of chitosan" in a national conference on material science and technology, IIST, TVM -,2014.
- Has presented a paper on "Thermal and ageing properties of maleated natural rubber/ organoclay nanocomposites" in an international conference on Emerging frontiers and challenges in Chemistry (ICEFGCC-2014) organized by All saints College, Tvm and DST (SERC division) from 17<sup>th</sup> to 18<sup>th</sup> February.
- Has presented a paper on "Strain sweep and cure characteristics of nitrile rubber/cloisite 30B Nanocomposites" in a national seminar on Applications of advanced nano materials (NS-NANO-2014) organized by Sree Narayana college Physics in association with UGC, ACT, Kerala from 25-26 February.

## **PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS**

- Participated in the G Chem Paint training organized at D.K.M. College for Women in January 2020 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay funded by the National Mission on Education through ICT, MHRD, Govt. of India from 04.05.2020 to 10.05.2020. The Faculty Development Programme included hands on exposure in G Chem Paint and LibreOffice Suite Writer.
- Has participated in Faculty Development Programme from 2020-05-25 to 2020-05-29 on Moodle Learning Management System organized by Sree Narayana College, Chengannur with course material provided by Spoken Tutorial Project, IIT Bombay. This training is offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India.
- Has participated and completed one week faculty Development programme on "Future materials Nanocomposites from 15<sup>th</sup> June 2020 to 21<sup>st</sup> June 2020 organised by department of mechanical engineering Bharati Vidyapeeth deemed university, Pune.
- Participated in the International Webinar on 'Nanotechnology Against COVID-19', Organised by Post Graduate and Research Department of Chemistry, Sree Narayana College for Women, Kollam, Kerala, India on 23 July 2020.

- Has participated in the “International Webinar on Recent Advances in Chemical Science” jointly organized by Postgraduate & Research Department of Chemistry S N College Kollam and Internal Quality and Assurance Cell (IQAC), Sree Narayana College, Kollam from 28th - 31st May 2020.
- participated in the International Webinar on 22nd July 2020 organized by the Post Graduate and Research Department of Physics, Sree Narayana College for Women, Kollam, Kerala.
- Participated in one day webinar –“An Introduction to smart Materials “ Conducted by the department of chemistry, ST Gregorious College, Kottarakkara on 23.05.2020
- participated in the national Webinar on “Hymn of herbs : searching for pancreas from western Ghats” organised by Academy of chemistry teachers (ACT) TVM on 1<sup>st</sup> August.
- Attended a webinar on “Water resource Management “ Organised by the department of chemistry in Association with the IQAC, HHMSPBNSS college foe women, Neeramankara, TVM, Kerala. On 15<sup>th</sup> July 2020.
- Has participated in the International Webinar on “Chemistry for securing Life: Opportunities beyond your Imaginations” on 25/07/2020 Organised by the department of chemistry, St Joseph’s college (Autonomous) Irinjalakuda.
- Has participated in in One day workshop on performance based appraisal system (PBAS)- Academic performance indicators (API) for teachers organised by IQAC and Library, Bharatiya Mahavidyalaya, Amaravathi held on 23<sup>rd</sup> July 2020.
- Has participated on scientific symphoria 2020 on “Polymer nano composites and their Applications” Organised by PG and Research department of chemistry, Mar Ivanious college, TVM on 22<sup>nd</sup> July 2020.
- Attended a three day work shop for college chemistry teachers held in Trivandrum during October 25- 27, 2018 organized by the JNCASR Bangalore and Foundation for capacity building in science (FCBS) Trivandrum
- Attended a two day workshop on “An insight into Analytical instruments in Research” during December 15- 16, 2017 conducted by biomedical technology wing, Sree Chithra Tirunal Institute for Medical sciences and Technology, TVM.
- Participated in the seminar on advanced polymeric materials conducted on 29-07-2017 at D.B college Sasthamcotta organized by ACT KERALA
- Presented a Paper on national seminar on Frontline Approaches in Material science & computational chemistry on 14-16 march 2018 at S.N college for women, Kollam

## **INVITED LECTURES AS RESOURCE PERSON**

- Invited Talk in an international conference on “Studies of MMT in combination with Graphene oxide on the Properties of chitosan” Polymer Processing and characterization (ICPPC-2014) held at Mahatma Gandhi University, Kottayam, Kerala from 11-13 October 2014.

## **PUBLICATIONS IN BOOKS OR JOURNALS**

- Vijayalekshmi V & Chithra P G, Studies on the effect of MMT clay in combination with Graphene oxide on the properties of Chitosan, Applied science and Advanced materials International July 2015, Vol 1(4-5), 133. ISSN-2394-3173.
- Chithra P G & Vijayalekshmi V, Synthesis Characterization and Application of nano dimensional silver tungstate, international Journal of Advance Research in Science and Engineering, Vol.No.4,(2015)260-66. ISSN-2319-8354(E)
- Vijayalekshmi .V, Chithra P.G Dynamic mechanical, Swelling and Oil resistance studies of Montmorillonite clay in grouping with TiO<sub>2</sub> On Natural rubber latex films, Journal of the academy of chemistry teachers 3(1) 2017, 1-3.
- Chithra P.G, Vijayalekshmi.V , Green synthesis, characterization and cyclic voltametric studies of nano zinc oxide, Vol6, Issue-5, ISSN 2320-0294, 2017. ( IF- 6.795)
- UV-Visible, mechanical and antimicrobial studies of chitosan- MMT clay/ TiO<sub>2</sub> nano composites; Vijayalekshmi.V, Research Journal of Recent sciences; 4(2014).
- Studies on maleated natural rubber/ organoclay nanocomposites, Vijayalekshmi V, George K.E, Pavithran C, Progress in Rubber Plastics and Recycling Technology, 2008
- Synthesis Characterization and Application of Sn(IV) Phosphorous Acid in the Nano form, Chithra P.G., Vijayalekshmi V., International J. of Engg. Res. and Management, Vol. 01, Issue 09 (Dec.2014)
- Chapter in book Nanoscience Entitled “Preparation and Characterization of chitosan- Clay nanocomposites” 2017, UGC -HRDC, University of Kerala, Karaivattom, TVM /Better book publishers, TVM
- Has published work in a book titled “Research perspectives in chemistry for sustainable Development” Published in Excel Publishers New Delhi, 2020.

## **MEMBERSHIP IN PROFESSIONAL BODIES**

- Academy of chemistry teachers (ACT)

## **OTHER ACHIEVEMENTS**

- Has done Online refresher course in chemistry for higher education (Swayam- 3months) on 2019, in association with MHRD and UGC.
- Principal Investigator- of one student project Entitled “Natural rubber Graphene oxide nanocomposites” for MSc student sanctioned from STEC, TVM -2016
- Attended the faculty improvement programme in Rubber technology from 21.05.2018 to 29.05.2018 (9 days) RRII, Kottayam, India

- Was an External Expert for evaluating the Green Protocol management at FMN college, Kollam.
- One week short term Faculty Development programme (Interdisciplinary) on “Towards a digital Era of teaching learning” organized by UGC- HRDC, University of Kerala TVM in collaboration with KSMDDB college, Sasthamcotta from August 12-18, 2020.
- Has done a FDP programme on Enhancing Psychological skills for Teaching and Practice of 14 days duration from 15 September 2020 to 29 September 2020 sponsored by MHRD, organized by Ramanujan college, University of Delhi.
- UGC Sponsored Orientation Programme (IT-Oriented) conducted by the UGC – Academic Staff College, University of Kerala, Kariavattom from May 2014.
- UGC - Sponsored Refresher course (Nanoscience) conducted by the UGC – Academic Staff College, University of Kerala, Kariavattom from November 2015.