

## CURRICULUM VITAE

### *Personal details*

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*Father’s name* : Late. A. Shivananda Adhikari, *Mother’s name:* Late. A. Rajamma.

*Date of birth, and age:* 9<sup>th</sup> October 1954, 60 years

*Place of birth* : Airody village, Udupi Taluk and District.

*Sex* : Male

*Marital Status* : Married, two sons; first, MBBS; second, B.E. (E & C).

*Spouse* : Mrs. Shakunthala V. Adhikari, Housewife.

*Nationality* : Indian.

*Languages known* : English, Kannada (mother tongue), Hindi and Tulu (local language)

*Hobbies* : Classical music, Thabla (instrumental), Photography, Gardening.

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### *Education and Training*

- Ph.D. in (Synthetic) Organic Chemistry, from Karnatak University, Dharwad-4, India; Title of thesis: “Studies in Antibacterials”, (Synthesis and antimicrobial studies new Isoxazolo[5,4-d]pyrimidines) under the guidance of Prof. V. V. Badiger, Registrar of KUD, Chemistry Department. Awarded in the year 1987 (Duration: 1982-87).
- M.Sc. (General Chemistry in I year and Organic Chemistry in II year, two year program), from Manasa Gangorty, Mysore University, Mysore-4, India. Awarded in the year 1976, (1974-76)

- B.Sc. (Chemistry, Physics and Mathematics as special subjects, English, Kannada and Social Science, 3 year program), from M.G.M. College, Udupi-2, (under Mysore University). Awarded in the year 1974, (1971-1974)
- Undergone one moth training in “*Teaching Methodology and Evaluation*” in B.Ed. College, Udupi-2, during June 1975
- Participated in 16 summer / winter schools of total duration 7 months, conducted during vacation period in various Institutes like IITs, NITs during the service period.

### ***Professional Experience (38 years)***

- At present, working as **Professor**, in Department of Chemistry, **National Institute of Technology Karnataka**, Surathkal, Srinivasnagar, with effect from **30-10-2006 (8 yrs)** and teaching Organic Chemistry (theory and Lab.), Polymer Chemistry, Spectroscopy for I-IV semesters of M.Sc. program, Chemistry (theory and lab.) for B.Tech. program, Synthesis of nanomaterials and Advanced characterization techniques for I and II sem. M.Tech. (Nano Tech.), Organic Chemistry and Instrumental Analysis Lab. for B.Tech. (Met. Engg./Chem. Engg.) program. Guiding M.Sc. and Ph.D. students in the Department.
- Worked as Assistant Professor (**Associate**) in Department of Chemistry, **NITK**, Surathkal, from 13-01-1998 to 29-10-2006 (**8 yrs**) and taught Chemistry (theory and lab.), Technical Chemistry I, Tech. Chemistry Lab., Polymer Chemistry (theory and lab.) for B.Tech. (Chem/Met. Engg.) program. Environmental Engg. For M.Tech.(Civil Engg.). Guided B.Tech. and M.Tech. project students of Engg. stream. Supervised Ph.D. students.
- Served as Senior Lecturer, in Department of Chemistry, **NITK**, Surathkal, from 13-01-1994 to 12-01-1998 (**4 yrs**) and taught Engg. Chemistry, Polymer Chemistry, Technical Chemistry (theory and lab.) for B.Tech programs of various branches. Guided both B.Tech. and M.Tech. project students of B.Tech (Chem./Met.Engg.) programs.
- Worked as Lecturer in Chemistry Department, **NITK**, Surathkal, from 13-01-1989 to 12-01-1994 (**5 yrs**) and taught Engg. Chemistry, Tech. Chemistry for B.Tech. programs of various branches including Chemical and Met. Engg.
- Worked as Lecturer in Department of Chemistry, S.D.M. College of Engg. and Tech., Dharwad, from 05-06-1980 to 12-01-1989 (**8½ yrs**) and taught Chemistry (theory and lab. courses), Material Science, Environ. Engg. for B.E.(Civil) programs.
- Served as Lecturer in Department of Chemistry, R.V. College of Engineering, Bangalore, from 01-03-1980 to 04-06-1980 (**one sem.**) and taught Engg. Chemistry (theory and lab. courses) for B.E. program.

- Worked as Lecturer in Department of Chemistry, Poornaprajna College, Udupi, from 01-09-1976 to 31-08-1979 (**3 yrs**) and taught Chemistry (theory and lab. courses) for I, II PUC and I, II and III B.Sc. programs.

### ***Research Activities***

- Developed Synthetic Organic Chemistry Laboratory augmented the facilities with vital requirements for smooth synthesis, isolation and purification of organic compounds.
- Successfully supervised fourteen research students (thirteen sole and one shared) leading to their Ph.D., sixteen M.Sc. students for their project work, two students for their M.Tech. project and sixteen students for their B.Tech. (Chemical and Metallurgical Engg.) project work since the date of joining the Institute. (List containing the details enclosed). Guided three students under Students Internship Program (during vacation).
- Credit of more than 90 publications in peer reviewed national/international journals with average impact factor more than 1.50 and more than 50 research paper presentations in national/international conferences.
- Completed several research projects funded by external sources as principal investigator and co-investigator in the Department.
- Reviewing the research papers of reputed Journals and reporting the comments to the editor.
- Assisted many investigators giving them valuable technical advises for their research projects.
- Conducting the conferences, acting as sessional chairman, organizing committee members, judges for selection of papers for award and presenting the research papers in various national/international level conferences.
- Attending the international conferences to interact with top level scientists/researchers.
- Joint research program with Dr. James Stables, NIH, USA [National Institute of Neurological Disorders and Strokes, NIH, USA under ASP]
- Joint research activities with Dr. Ramakrishna Shabaraya, Principal, Srinivasa Pharmacy College, Volachil, Mangalore, on biological screening of newly designed molecules.
- Collaborative research activities with Dr. Yiyang Wu, Department of Chemistry and Biochemistry, The Ohio State University, Columbus, 43210, USA, on DSSCs based on p-type sensitizers.

### ***Teaching activities***

- Taught, developed and coordinated courses for UG (B.Tech.) and M.Sc. programs as well as M.Tech. in Nanotechnology.
- Modernized laboratories, introduced computers, designed new experiments and authored laboratory manuals for labs. Developed course work and experiments for new UG and PG laboratories.
- Preparation of ppts and teaching aids/models, conducting tutorials, seminars, education trips, sharing knowledge and experience with students are the major activities.

### ***Professional memberships***

- Life Member, ISTE, New Delhi; Life Member, Indian Council of Chemists, Agra; Member, Indian Chemical Society, Calcutta; Member, Asian Journal Chemistry, Ghaziabad; SPIE-International Society for Optical Engineering, Washington; International Conference Physical Science and Technology (ICPST), Dubai; Life Member, Asian Polymer Association, IIT, Delhi. Advisor, Indian Association for Hydrogen Energy & Advanced Materials (IAHEAT), University of Kerala.

### ***Research Projects Undertaken***

- Ongoing project, 2010 - 2014 (Five years): “Augmentation of Research Facilities, i.e. Single Crystal X-ray Diffractometer, funded by DST under FIST program, with project grant of Rs. 128 lakhs, along with matching grant of Rs. 25 lakhs from NITK, working as **Coordinator** and also as coordinator for “Project Implementation Group” for the same.
- Completed a three year project (2009 - 2012): “Catalytic synthesis of carbon nanotubes and its applications as hydrogen storage materials”, funded by DRDO, with project grant of Rs. 21 lakhs, worked as **Co-investigator** with Dr. B. R. Bhat, Principal Investigator.
- Completed a three year project (2007 - 2010): “Molecular Interaction in Dipeptide – Metal salt Solution Systems”, funded by DRDO, with project grant of Rs. 14.12 lakhs, worked as **Co-investigator** with Dr. D. K. Bhat, Principal Investigator.
- Completed a two year project (2007-2009): “Preparation and characterization of doped polymers for optical limiters”, funded by DEIT, with project grant of Rs. 14.29 lakhs, worked as **Co-investigator** with Dr. G. Umesh, Physics Department, Principal Investigator.
- Completed a three year project (2003-2007): “Synthesis and evaluation of electrical, electronic and optoelectronic properties of new polyheteroaromatics” (Conducting

Polymers), funded by DRDo, with project grant of Rs. 15.21 lakhs, worked as **Principal Investigator**.

- Completed a two-year joint project (2007-2009): “Development of new Chitosan based biodegradable polymers using Microwave irradiations”, funded by TEQIP-I, NITT, with a project grant of Rs. 5.00 lakhs, worked as **Investigator** from NITK with Dr. Velamathi of NIT-Thirchi. This is an inter-institute joint project.
- Completed a two-year project (1994-1996): “Development of bright zinc plating using non-cyanide bath on carbon steels”, funded by Staff Research Project (SRP), NITK, with a project grant of Rs. 19,000/- worked as **Co-investigator** with Dr. T. V. Venkatesh, Principal Investigator.

### *Honors, awards and achievements*

- Executive committee member of Asian Polymer Association, IIT, Delhi. Member of various committees at Institute level. Participated in SPIE conference held in USA and IUPAC conference held in Japan. Invitation for delivering guest lectures. Guided 14 Ph.Ds. and 90 Publications since 2004. Good academic records throughout the education career. Rated as an Excellent Teacher in all respect by students.
- Book Chapter 6: Electrical and Electronic Engineering: “Nonlinear Optics”, Book edited by Natalia Kamania, ISBN 978-953-51-0131-4, published in Feb. 29, 2012. Title: Donor-Acceptor – Conjugated Polymer and their Nano-composites for Photonic Applications” by D. Udaya Kumar, John Kiran, M.G. Murali and A. V. Adhikari.
- Gold medal and Korea Special Award for outstanding invention: “Photo-alignment based plastic displays for future generation using thiophene derivatives”, International Conference and Exposition on Invention of Institutions of Higher Learning (PECIPTA 2013), KLCC, Kuala Lumpur, Malaysia, Nov. 7-9, 2013. Authors: G. Hedge, A. R. Yuvaraj, M. M. Yusop, L. Komitov and Airody Vasudeva Adhikari.
- Best Poster Presentation award to Vishnumurthy K. A., research student, for the paper on Polythiophenes presented in international conference on “Recent trends in material science and technology” October 28-30, 2010 (Organized by ICMST), Tiruvananthapuram. A publication appeared in EJMC was one among the best twenty five papers viewed during 2010.

### *Responsibilities executed*

- Worked as **Head of the Department** of Chemistry from 11-08-2008 to 10-08-2011 (for full three years) and rendered my service effectively to elevate the research activities of the department to a new peak with increased addition of new instrumental facilities

required for active research work. (Department with eight faculty, six nonteaching staff and about 40 Ph.D. students).

- Coordinated, one week STTP (AICTE) on “Recent Advances in Polymer Science”, August 1-5, 2011. Chairman, a three day national workshop on “Modern Electrochemical Techniques in Synthesis and Characterization of Advanced Materials”, during September 5-7, 2008; a three day national workshop on “Advances in Coordination Chemistry (ACC-09)”, during January 8-10, 2009; a three day national workshop on “Advances in Organic Chemistry and Allied Applications, AOCAA-09”, during February 16-18, 2009. Interaction program on Recent Research Trends in Chemistry between Faculty & PG students of NITT and NITK during September 27-28, 2008, held in NIT Thiruchy, TN. (TEQIP). National conference on Recent Trends in Chemical Research (NCRTCR-2010), during March 8-10, as part of NITK Golden Jubilee Celebrations.
- Chairman, syllabus revision committee for chemical and polymer board, (Diploma) Govt. of Karnataka.
- External member, BOS, Bangalore University; External examiner for Ph.D. thesis, M.Tech. thesis of different Universities; Member of faculty selection board of different Universities, UPSC; Question paper setter for various Universities and Competitive Entrance Examinations.
- Member/Secretary/Chairman for various academic activities of NITK like DRPC, DPGC, DUGC, DTAC, DAAB etc.
- Recognized as Research Supervisor (Guide) in Mangalore University, Mangalore, Manipal University, Manipal and NITK, Surathkal for guiding PhD students for their Ph.D. degree.
- Worked as Co-coordinator, for Modernization of Polymer Laboratory of Met. Engg. Department of NITK, with a grant of Rs. 16 lakhs, from MHRD, during 2002-2003.
- Assisting the Head of the Department in handling academic affairs, curriculum planning execution, documentation of data and other administrative activities of the Department.

### ***Research Interests***

- Design and synthesis of new conducting/conjugated polymers based on heteroaromatics; evaluation of their electrical, optoelectronic and other related properties for applications for NLO and solar cells. Polymer based nanomaterials.

- Synthesis and biological studies of new heterocyclic compounds: Design of new heterocycles as effective anticonvulsants, anti-inflammatory agents and antimicrobials (particularly anti-tubercular agents).
- Design, synthesis, characterization and performance studies of new dyes as potential sensitizers for DSSC applications.
- Design of new organic molecules as blue light emitters for OLED applications.
- Corrosion inhibition studies of new organic molecules and development of new heterocyclic corrosion inhibitors for steel in acidic/basic/neutral medium.
- Design, synthesis and investigation of Liquid Crystalline properties of new heterocyclic compounds for optoelectronic applications.
- Synthesis of Biodiesels: Development of new catalysts based on polymer/transition metals for trans-esterification of vegetable oil.
- Design and development of new organic sensors for special applications.

### ***Contribution to Department***

- Departmental member of Continuing education cell, Guest lecturer for Chemistry course of IGNOU, Departmental member of ISO 9000 committee, Member of Library Advisory Committee, Faculty in charge for M.Sc. and Ph.D. admissions, Faculty advisor for B.Tech and M.Sc. programs, Buyer/Purchase committee member for purchasing various instruments/equipments of the Department. Faculty in charge for Chemical Society (Chemsplash) of the Department, Counseling faculty for students, Faculty in charge for Summer sessions, Time table, Ring presentation, Stock verification of other Departments. Organizing-committee member of various conferences/workshops/summer schools conducted by the Department. Departmental member of Continuing education cell. Guiding M.Sc./Ph.D./SIP students. Curriculum development for various subjects under Chemistry. Drafted proposal to start M.Sc. Chemistry, M.Tech. in Surface Modifications, M.Sc. Applied Chemistry. Prepared documents for purchase of equipments under TEQIP-I.

### ***Contribution to Institution***

- Handling SC/ST coaching classes of I/II semester of B.Tech.. Mentoring weak students for better performance. Conducting summer schools, National level workshops and Conferences in Chemistry Department. Anti-ragging committee member of the Institute. Purchase Committee member of Instruments /Equipments of high cost. Convener for coding and decoding work related to examination in KREC/NITK. Convener for flying squad. Credit of setting Polymer Lab. in Met. Engg. Assisting the consultancy project of Chem. Engg. Department in Chemical Analysis of Engg. Materials. Coordinated

research interactions program with DCU of Ireland (MOU). Member, Strategic Planning, NITK. Participation in cultural activities of the Institute.

### ***Contribution to other Institutions***

- Delivering guest lectures in other Institutes/Universities on special topics. Inaugurating the academic programs like Workshops/Science exhibitions/Awareness programs etc. Interaction with students in Nurturing programs/Inspire programs conducted to create awareness in Science education. Expert, Syllabus Framing Committee to other Institutions.
- Consultancy and testing work for various industries like MRPL, MCF, BASF, KIOCL, NMPT etc. Organizing training programs in Hindustan Livers Ltd., MCF, Mangalore.
- Acting as an expert for various committees of other Institutions to promote their activities related to education and research fields.
- Organizing committee member for various workshops/conferences/symposium conducted in other Institutions.
- Ph.D. Thesis evaluation as well as conducting practical examinations for PG.

### ***Community service***

- **Principal Coordinator**, District Biofuel Information and Demonstration Center, NITK, administered and funded by Karnataka Biofuel Development Board, Bangalore, GoK. The center is equipped with 5 kg Biogas unit, 50 L capacity biodiesel production unit from non-edible oilseeds and biodiesel testing facilities. Its yearly budget is Rs. 10 lakhs and five staff are working. This center is to act as a nodal hub for bio fuel activities in DK district and to take up the bio fuel developments to greater heights through demonstration of the technologies, awareness camps, research and training programs with upgraded and well-exposed state of the art technologies, in order to fulfill the major objectives of the KSBDB.
- Life member, Brahmins association, Surathkal. Life member, Koota Mahajagattu, Kota.
- Delivering general lectures at Schools, Public Organizations, Community functions etc.

### ***Abroad visits (Paper presentation and interactions)***

- Chemistry Department. The Ohio State Univ., **Columbus**, OH 43202, USA, July 8-21, 2014
- San Francisco, USA, January 18-30, 2012, SPIE Conference, Liquid Crystals.
- Dubai, UAE, December 26-31, 2011, ICPST Conference, Electronic Materials.
- Okazaki, Japan, July 1-9, POC 06 Conference, Conducting Polymers.



## *Publications and conferences*

**Journal publications of Prof. (Dr.) A. V. Adhikari, Chemistry Department, NITK, Surathkal.**

1. Dickson D. Babu, Saritha Reddy Gachumale, Sambandam Anandan, **Airody Vasudeva Adhikari\***, (2014). "New D- -A type indole based chromogens for DSSC: Design, synthesis and performance studies". *Dyes Pigm.*, 112, 183-191.
2. T.N. Ahipa and **Airody Vasudeva Adhikari\***, (2014) "New cyanopyridone based luminescent liquid crystalline materials: Synthesis and characterization". *Photochem. Photobiol. Sci.*, 2014, DOI: 10.1039/C4PP00031E.
3. T.N. Ahipa and **Airody Vasudeva Adhikari\***, (2014) "2-Methoxypyridine Derivatives: Synthesis, Liquid Crystalline and Photo-physical Properties". *New J. Chem., RSC* (2014), DOI: 10.1039/c4nj00911h.
4. T.N. Ahipa, Vijith Kumar, Doddamane S. Shankar Rao, Subbarao Krishna Prasad and **Airody Vasudeva Adhikari\***, (2014), "New 4-(2-(4-alkoxyphenyl)-6-methoxypyridin-4-yl)benzonitriles: Synthesis, liquid crystalline behavior and photophysical properties". *Crystal Engineering Communications*, 16, 5573-5582
5. T.N. Ahipa, and Airody **Vasudeva Adhikari\*** (2014). "Trihydrazone functionalized cyanopyridine discoids: synthesis, mesogenic and optical properties". *Tetrahedron Letters*, 55, 2, 495-500.
6. Ahipa. T. N., Vijith Kumar and **Airody Vasudeva Adhikari\***, (2014), "New columnar liquid crystal materials based on luminescent 2-methoxy-3-cyanopyridines". *Structural Chemistry*, 25, 1165-1174.
7. T.N. Ahipa, Pooja R. Kamath, Vijith Kumar, **Airody Vasudeva Adhikari\***, (2014), New luminescent 2-methoxy-6-(4-methoxy-phenyl)-4-p-tolyl-nicotinonitrile: synthesis, crystal structure, DFT and photophysical studies, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 124, 230-236.
8. T.N. Ahipa, Vijith Kumar and **Airody V. Adhikari\***, (2013). "Synthesis, structural analysis and solvatochromic behaviour of 4,6-bis(4-butoxyphenyl)-2-methoxynicotinonitrile mesogen." *Liq. Cryst.*, 40, 31-38.
9. Ahipa T.N. and **Airody Vasudeva Adhikari\***, (2012). "Synthesis and mesomorphism of new 2-methoxy-3-cyanopyridine mesogens." *Proc. SPIE 8279, Emerging Liquid Crystal Technologies VII*, 827915.
10. Shrikanth Ulloora, Santhosh Kumar, Ramakrishna Shabaraya and Airody **Vasudeva Adhikari\***, (2013). "New dihydropyridine derivatives: Anti-inflammatory, analgesic and docking studies." *Med. Chem. Res.*, 22(04), 1549-1562.
11. Shrikanth Ulloora, Ramakrishna Shabaraya, Syed Aamir, **Airody Vasudeva Adhikari\***, (2013). "New imidazo[1,2-a]pyridines carrying active pharmacophores: Synthesis and anticonvulsant studies." *Bioorg. Med. Chem. Lett.*, 23(05), 1502-1506.
12. Shrikanth Ulloora, Ramakrishna Shabaraya and **Airody Vasudeva Adhikari\***, (2013). "Facile synthesis of new imidazo[1,2-a]pyridines carrying 1,2,3-triazoles via click chemistry and their antiepileptic studies." *Bioorg. Med. Chem. Lett.*, 23(11), 3368-3372.
13. Shrikanth Ulloora, Ramakrishna Shabaraya, **Airody Vasudeva Adhikari\***, (2013). "Synthesis and antiepileptic studies of new imidazo[1,2-a]pyridine derivatives." *Chin. Chem. Lett.*, 24, 853-856.

14. Shrikanth Ulloora, Rajesh Ranganathan and **Airody Vasudeva Adhikari\***, (2013). "Synthesis, anticonvulsant and anti-inflammatory studies of new 1,4-dihydropyridin-4-yl-phenoxycetohydrazones." *Eur. J. Med. chem.*, 70, 341-349.
15. Shrikanth Ulloora, Ramakrishna Shabaraya and **Airody Vasudeva Adhikari\***, (2013). "New 6-bromoimidazo[1,2-*a*]pyridine-2-carbohydrazide derivatives: Synthesis and anticonvulsant studies." *Med. Chem. Res.*, June 2014, Volume 23, Issue 6, pp 3019-3028.
16. M.S. Sunitha, K.A. Vishnumurthy, **A.V. Adhikari\***, "Synthesis and two-photon absorption property of new  $\pi$ -conjugated donor-acceptor polymers carrying different heteroaromatics." *J.Chem.Sci.* 125, 1, 2013, 29-40.
17. K.A.Vishnumurthy, M.S.Sunitha, **A.Vasudeva Adhikari\***, "New optical limiting polymeric materials with different  $\pi$ -electron conjugation bridge structures: Synthesis and characterization." Communicated to *European Polymer Journal*. 48, 9, 2012, 1575-1585.
18. K.A. Vishnumurthy, M. S. Sunitha, **A. Vasudeva Adhikari\***, "Synthesis and Characterization of Thiophene Based Donor-Acceptor Type Polyimide and Polyazomethines for Optical Limiting Applications". *Polymer bulletin*. 70, 2012, 147-169.
19. M.S. Sunitha, **A.V. Adhikari\***, K.A. Vishnumurthy, R. Philip. "Nonlinear optical properties of a newly synthesized thiophene based conjugated polymer" *Phenomena, Materials, Devices and Characterization AIP Conf. proc.*, 1391 (2011) 703-705.
20. M.S. Sunitha, **A.V. Adhikari\***, K.A. Vishnumurthy, N. Smijesh N, R. Philip. "Electrochemical and nonlinear optical properties of new D-A type  $\pi$ -conjugated polymers carrying 3,4-benzyloxythiophene, oxadiazole and 3,4-alkoxythiophene systems." *Chemistry Letters*, 41 (2012) 234-236.
21. M.S. Sunitha, **A. V. Adhikari\***, K.A. Vishnumurthy, K. Safakath, R. Philip. "Large third order nonlinearity of new  $\pi$ -conjugated donor-acceptor polymers with substituted thiophene and 1,3,4-oxadiazole moieties." *International Journal of Polymeric Materials*, 61(2012) 1–22.
22. M. S. Sunitha, **A. V. Adhikari\***, and K. A. Vishnumurthy, "Nonlinear Optical Studies of a D-A Type Conjugated Polymer Containing Heterocyclic" Moieties *International Journal of Applied Physics and Mathematics*, 2, 436-438.
23. K.A. Vishnumurthy, M.S. Sunitha, K. Safakath, Reji Philip, **Airody Vasudeva Adhikari\***, "Synthesis, electrochemical and optical studies of new cyanopyridine based conjugated polymers as potential fluorescent materials." *Polymer* 52 (2011), 4174-4183.
24. K.A. Vishnumurthy, **A. Vasudeva Adhikari\***, M.S. Sunitha, K.A. Ann Mary, Reji Philip, "Design and synthesis of a new thiophene based donor-acceptor type conjugated polymer with large III order nonlinear optical activity." *Synthetic Metals*, 161 (2011), 1699–1706.
25. K.A. Vishnumurthy, M.S. Sunitha, Reji Philip, **Airody Vasudeva Adhikari\***, "New diphenylamine-based donor-acceptor-type conjugated polymers as potential photonic materials." *Reactive & Functional Polymers*, 71 (2011), 1119–1128.
26. K.A.Vishnumurthy, **A.Vasudeva Adhikari\***, M.S.Sunitha, Reji Philip, "Synthesis and Characterization of a New Conjugated Polymer Bearing Pyrazole and Thiophene Moieties as Potent NLO Material." *Optics: Phenomena, Materials, Devices, and Characterization AIP Conf. Proc.* 1391, 652-654 (2011).

27. K. D. Thomas, **Airody Vasudeva Adhikari\***, Imran H. Chowdhury, Sumesh Eswaran, Nishith K. Pal, "New quinolin-4-yl-1,2,3-triazoles carrying amides, sulphonamides and amidopiperazines as potential antitubercular agents." *European Journal of Medicinal Chemistry*, Volume 46, Issue 6, June 2011, 2503-2512.
28. K. D. Thomas, **Airody Vasudeva Adhikari\***, Imran H. Chowdhury, Sandeep Telkar, Riaz Mahmood, Nishith K. Pal, Sumesh. E (2014), "Design, synthesis and docking studies of quinoline-oxazolidinone hybrid molecules and its antitubercular properties." *European Journal of Medicinal Chemistry*, 46, 4834-4845.
29. Thomas K D, **Airody Vasudeva Adhikari\***, N. Suchetha Shetty, "Design, synthesis and antimicrobial activities of some new quinoline derivatives carrying 1,2,3-triazole moiety". *European Journal of Medicinal Chemistry*, 45(9),2010, 3803-3810.
30. Pramod Kumar Hegde, **A. Vasudeva Adhikari\***, Manjunatha M. G, C. S. Suchand Sandeep, Reji Philip "New thiophene based conjugated polymers carrying oxadiazole and naphthalene moieties for photonic switching applications". *Advances in Polymer Technology*, 30, 4, (2011) 312-321.
31. Sumesh Eswaran, **Airody Vasudeva Adhikari\***, Imran H. Chowdhury, and Nishith K. Pal, "New quinoline derivatives: Synthesis and investigation of antibacterial and antituberculosis properties", *European Journal of Medicinal Chemistry*, 45, 8 (2010) 3374-3383.
32. Pramod Kumar Hegde, **A. Vasudeva Adhikari\***, Manjunatha M. G, C. S. Suchand Sandeep, Reji Philip "A Novel Donor-Acceptor Type Conjugative Poly2-[4-(1-cyanoethenyl)phenyl]-3-(3,4-didodecyloxythiophen-2-yl)prop-2-enenitrile}: Synthesis and NLO Studies", *Synthetic Metals*, 160 (15-16), 2010, 1712-1717.
33. Pramod Kumar Hegde, **A. Vasudeva Adhikari\***, Manjunatha M. G, C. S. Suchand Sandeep, Reji Philip, "Novel poly(3,4-dialkoxythiophen)s carrying 1,3,4-oxadiazolyl biphenyl moiety: Synthesis and NLO studies", *Polymer International* – Volume 60, Issue 1, January 2011, Pages: 112–118.
34. Pramod Kumar Hegde, **A. Vasudeva Adhikari\***, M. G. Manjunatha "Electrochemical and optical properties of a new donor-acceptor type conjugated polymer derived from 3,4-dialkoxythiophene", *Bulletin of Material Science* - December 2010, Volume 33, Issue 6, pp 677-682.
35. Sumesh Eswaran, **Airody Vasudeva Adhikari\***, Nishith K. Pal, Imran H. Chowdhury, "Design and synthesis of some new quinoline-3-carbohydrazone derivatives as potential antimicrobial agents", *Bioorganic & Medicinal Chemistry Letters*, Volume 20, Issue 3, 1 February 2010, pages 1040-1044.
36. Manjunatha M. G, **Airody Vasudeva Adhikari\***, Pramod Kumar Hegde, "Optical and electrochemical properties of a new donor-acceptor type conjugated polymer derived from thiophene, carbazole and 1,3,4-oxadiazole units", – *Current Application of Polymers and Nano materials, Material Science Form Vol. 657* (2010), *Trans Tech Publication*, Switzerland, doi: 10.4028/www.scientific.net/MSF.657.46, pp 46-55.
37. Pramod Kumar Hegde, **Airody Vasudeva Adhikari\***, Manjunatha M. G., Suchand Sandeep C. S., Reji Philip. "Nonlinear optical studies on new poly{2-(biphenyl-4-yl)-5-[3,4-didecyloxy-5-(1,3,4-oxadiazol-2-yl)thiophen-2-yl]-1,3,4-oxadiazole}". *Current Application of Polymers and Nano materials, Material Science Form Vol. 657* (2010), *Trans Tech Publication*, Switzerland, doi: 10.4028/www.scientific.net/MSF.657.56, pp 56-61.

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34. Udayakumar D and **A.V. Adhikari**. "Synthesis and Characterization of Light-Emitting Copolymers Containing 1,4-bis(1,3,4-oxadiazolyl)benzene and 3,4-dialkoxythiophenes" International conference on MEMS and Semiconductor Nanotechnology (MEMSNANO 2005), at IIT, Kharagpur, December, 2005.
35. T. Karabasanagouda and **Airody Vasudeva Adhikari**, "Synthesis and antimicrobial activities of some novel 6-aryl-3-[(4-methyl/ethylthio or sulphonyl phenoxy) methyl] [1,2,4] triazolo [ 3,4-b] [1,3,4] thiadiazoles and 6-aryl-3-[(4-methyl/ethylthio or sulphonylphenoxy)methyl]-7H- [1,2,4] triazolo [ 3,4-b] [1,3,4] thiadiazines" OO-19, p 88 Presented in 24<sup>th</sup> Annual Conference of 'Indian Council of Chemists' held at BIT Mesra, Ranchi (Jharkhand) December 2005.
36. **Adhikari A. V.** and Karabasanagouda T, "Synthesis, characterization and biological investigations of new 2-[[4 (Alkylthio/sulphonyl)phenoxy]methyl]-5-aryl-1,3,4-oxadiazole and 5-[[4- (Alkylthio/sulphonyl phenoxy)methyl]-1,3,4-oxadiazole-2-

- substituted thiols” “Indian council of Chemists” conference held in Birla Institute of Technology, Ranchi, during December 16-19, 2005.
37. Shivananda Wagle and **A.V. Adhikari**, “Synthesis of some 1,2,4-triazolo[3,4-*b*][1,3,4]thiadiazines and 1,2,4-triazolo[3,4-*b*][1,3,4]thiadiazoles carrying quinoxaline moiety as potent biological agents”, OO-29, pp-60;. Presented in 24th Annual Conference of ‘Indian Council of Chemists’ held at BIT Mesra, Ranchi (Jharkhand) December 2005.
  38. Karabasanagouda. T, **A.V. Adhikari** and Suchetha Shetty, Synthesis, characterization and biological investigations of novel 3-{{4-(Alkylthio/sulphonyl)phenoxy}methyl}-6-aryl[1,2,4]triazolo[3,4-*b*][1,3,4]thiadiazole and 3-{{4-(alkylthio/ulphonyl) phenoxy}methyl}-6-aryl-7H-[1,2,4]triazolo[3,4-*b*][1,3,4]thiadiazine, ICC National Conference, Dec. 16-19, 2005, BIT, Ranchi, Jarkhand.
  39. Karabasanagouda. T; A.V. Adhikari and Suchetha shetty, “Synthesis, characterization and biological investigations of novel 3-methyl-1-[(6-aryl-7H-[1,2,4]triazolo[3,4-*b*][1,3,4]thiadiazin-3-yl)methyl]quinoxalin-2(1H)-one and 3-methyl-1-[(6-aryl-7H-[1,2,4]triazolo[3,4-*b*][1,3,4]thiadiazole-3-yl)methyl]quinoxalin-2(1H)-one”, ICC National Conference, Dec. 16-19, 2005, BIT, Ranchi, Jarkhand.
  40. Udayakumar D and **A.V. Adhikari**, “Synthesis and Characterization of p-n Diblock Light-Emitting Polymers”, National Conference on Recent Trends in Materials Science and Technology-2005 at Vellore Institute of Technology, Vellore (August 2005).
  41. Ramesh Salian and **A. V. Adhikari**, “Mercapto Propionic acid Hydrazide containing quinoline moiety as an effective inhibitor of mild steel corrosion in HCl. Solution”, 12<sup>th</sup> National Convention of Electrochemists, held in Thyagarajar College of Engineering, during 18-19, Feb. 2005.
  42. Ramesh Salian and **A. V. Adhikari**. “Mercapto Propionic acid Hydrazide containing quinoline moiety as an effective inhibitor of mild steel corrosion in HCl. Solution” 12<sup>th</sup> National Convention of Electrochemists, held in Thyagarajar College of Engineering, during 18-19 Feb. 2005. (20).
  43. Karabasanagouda. T, **A. V. Adhikari** and P. M. Akberali, “Synthesis, characterization and biological investigations of novel 6-(2-methyl-1,8-naphthyridin-3-yl)-2-oxo-4-aryl-1,2-dihydropyridine-3-carbonitrile and 2-amino-6-(2-methyl-1,8-naphthyridin-3-yl)-4-arylnicotinonitrile”, ICC National Conference, 29<sup>th</sup> to 31<sup>st</sup> October 2005, K. C. College Mumbai.
  44. Ramesh Salian and **A. V. Adhikari**, “Mercapto propionic acid hydrazide containing quinoline moiety as an effective inhibitor of mild steel corrosion in HCl solution” Twelfth National Convention of Electrochemists [NCE-12], held at Thiagarajar College of Engineering, Madurai, during Feb. 18-19, 2005 (Abstracts and Souvenir; 4.15).
  45. Shivananda Wagle and **A. V. Adhikari**, “Synthesis, characterization and biological investigations of novel 3-methyl-1-[(5-aryl-1,3,4-oxadiazol-2-yl)methyl]quinoxalin-

- 2(1*H*)-one”, 23<sup>rd</sup> “Indian Council of Chemists” conference, held in K. C. College, Bombay, during November 26-29, 2004.
46. T. Karabasanagouda, **Airody Vasudeva Adhikari**, and P.M. Akaberali, “Synthesis and antimicrobial activities of some novel 4-aryl-6-(2-methyl-1,8-naphthyridin-3-yl)-2-oxo-1,2-dihydropyridine-3-carbonitriles and 2-amino-4-aryl-6-(2-methyl-1,8-naphthyridin-3-yl) nicotinonitriles” OO-19, pp 85. Presented in 23<sup>rd</sup> Annual Conference of ‘Indian Council of Chemists’ held at K. C.College, Mumbai from 29<sup>th</sup>–31<sup>st</sup> November 2004.
  47. Shivananda Wagle, **A.V.Adhikari**, P.M.Akberali Synthesis of 2-(3-methyl-7substituted-2-oxoquinoxaliny)-5-(aryl)-1,3,4- oxadiazoles as possible antimicrobial agents”, OP-63, pp 163-164.Presented in 23<sup>rd</sup> Annual Conference of ‘Indian Council of Chemists’ held at K. C. College, Mumbai from 29<sup>th</sup>–31<sup>st</sup> October 2004.
  48. **Adhikari, A.V.**, Badiger V. V., attended 28<sup>th</sup> Annual Convention of Chemists, held in Jadavpur University, Calcutta, and December 17-21, 1991 and presented a research paper on “Studies on nitrogen bridge-head heterocycles – Synthesis and Biological activity”.
  49. **Adhikari, A.V.**, Badiger V. V., attended the 27<sup>th</sup> Annual Convention of Chemists, held in Magadh University, Bodhgaya, Bihar, December 26-30, 1990 and presented a research paper “Synthesis and antibacterial activities of certain isoxazole derivatives”.
  50. **Adhikari, A.V.**, Badiger V. V., attended the 25<sup>th</sup> Annual Convention of Chemists, held in Venkateshwara University, Thirupathi, December 26 – 30, 1988, and presented a research paper on “Synthesis and antimicrobial activities of some new heterocyclic compounds”.
  51. **Adhikari, A.V.**, Badiger V. V., attended the 24<sup>th</sup> Annual Convention of Chemists, held in Jiwaji University, Gwalior, December 24 – 26, 1987, and presented a research paper on “Synthesis of some new isoxazole derivatives and investigation of their pharmaceutical properties”.

#### Details of Ph.D completed so far

Sl. No	Name of the Student	Name of the Guide	Year completed	Title of the Thesis
1.	Udaya Kumar D	Dr. A. V. Adhikari	2007	Synthesis and evaluation of optical, electrochemical properties of novel conjugated polythiophenes
2.	Shivananda Wagle	Dr. A. V. Adhikari	2008	Synthesis and Investigation of Biological studies of Some New Quinoxaline Derivatives
3.	T.Karabasana gouda	Dr. A. V. Adhikari	2008	Synthesis and Biological Investigations of New Heterocyclic Compounds
4.	Ramesh Saliyan	Dr. A. V. Adhikari	2008	A study of effect of organic inhibitors on the corrosion of mild steel in acid media

5.	K. Ravi	Dr. A. V. Adhikari	2009	Synthesis and Anticonvulsant study of some new thiophene derivatives
6.	Pramod Kumar Hegde	Dr. A. V. Adhikari	2010	Synthetic, electrochemical and optical studies of some new thiophene based conjugated polymers
7.	Manjunath M. G.	Dr. A. V. Adhikari	2010	Studies on new donor acceptor type conjugated polymers derived from thiophene
8.	Sumesh Eswaran	Dr. A. V. Adhikari	2011	Synthetic and antimicrobial studies of some new quinoline derivatives
9.	Nagaraja Upadhy P.	Dr. Srinivas, Dr. A. V. Adhikari	2011	Development and Evaluation of Novel Glass Ionomer Cement Composition for Luting Applications
10.	Thomas K. D.	Dr. A. V. Adhikari	2012	Synthesis, Characterization and Biological Studies of Some New Quinoline Derivatives
11	Sunitha M. S.	Dr. A. V. Adhikari	2012	Synthesis and characterization of new donor-acceptor type conjugated polymers for NLO applications
12	Vishnumurthy K.A.	Dr. A. V. Adhikari	2012	Design and synthesis of new donor-acceptor type conjugated polymers for photonic applications
13	Shrikanth	Dr. A. V. Adhikari	2013	Synthetic and anticonvulsant studies of some new pyridine derivatives
14.	Ahipa T. N.	Dr. A. V. Adhikari	2014	Synthesis, characterization and mesomorphic properties of new pyridine derivatives

**M.Sc. projects supervised so far (Two are working now)**

Sl. No	Name of the student	Name of the Guide	Year completed	Title of the project thesis
1	Ms. Sally Maben	Dr. A. V. Adhikari	2009	Synthesis of some new of thiophene derivatives and study of their antimicrobial properties
2.	Ms. Vidyalaxmi	Dr. A. V. Adhikari	2009	Synthesis and evaluation of antimicrobial activity of some new hydrazones derived from thiophene
3.	Ms. Shubhalaxmi	Dr. A. V. Adhikari	2009	Third order NLO studies of some new carbazole derivatives

4.	Ms. Manaswi A.	Dr. A. V. Adhikari	2010	Synthesis, characterization and antimicrobial studies of some new thiophene based bishydrazones
5.	Ms. Shobhitha	Dr. A. V. Adhikari	2010	Study of optical properties of some new oxadiazole derivatives
6.	Mr. Deepak A.	Dr. A. V. Adhikari	2010	Synthesis and antimicrobial studies of some new pyridine derivatives
7.	Mr. Arun N. L.	Dr. A. V. Adhikari	2011	Synthesis and bioactivity studies of some new cyanopyridines
8.	Mr. Mahesh Poojary M.	Dr. A. V. Adhikari	2011	Extraction and evaluation of medical activity of extracts from medicinal plant Mamecydon malabaricum and Mammea suriga
9.	Ms. Nandini K	Dr. A. V. Adhikari	2011	Synthesis, characterization and biological activities of some new thiophene based hydrazones
10.	Ms. Ramya P.S.	Dr. A. V. Adhikari	2012	Synthesis, characterization and antimicrobial studies of new pyrazolopyridines
11.	Ms. Swathi Bhat C. S.	Dr. A. V. Adhikari	2012	Synthesis and antimicrobial studies of some new cyanopyridines
12.	Ms. Valeen Rashmi Pereira	Dr. A. V. Adhikari	2012	Synthesis of some new coumarin derivatives with liquid crystalline property
13.	Mrs. Lolakshi	Dr. A. V. Adhikari	2013	Synthesis, characterization and antimicrobial studies of new cyanopyridines
14.	Ms. Pooja R. Kamath	Dr. A.V. Adhikari	2013	Synthesis, characterization and optical properties of some new cyanopyridine derivatives
15.	Ms. Pearl	Dr. A. V. Adhikari	2014	New cyanopyridines: Synthesis and investigation of optoelectronic properties
16.	Mr. Nagaraja	Dr. A. V. Adhikari	2014	Studies on new antimicrobial agents.

**List of B.E. and M.Tech. project guided successfully:**

Sl. No.	Title of Project work undertaken	Year	Course
1.	Enzymatic modification of Groundnut Protein	1992	M. Tech. (Chem.)
2.	Electro-organic synthesis	1994	B. E. (Chem.)
3.	Studies on Polymer Concrete.	1995	M. Tech. (Civil)
4.	Studies on Polymer blends	1996	B. E. (Met.)
5.	Studies on new organic dyes	1997	B. E. (Chem.)
6.	Enzymatic inter-esterification of Palm oil fraction	1997	B. E. (Chem.)
7.	Mechanical properties of epoxy composites	1997	B. E.. (Mech.)
8.	Cashew-nut shell oil and its application to polymer synthesis.	1998	B. E. (Chem.)
9.	Corrosion inhibition studies of some benzimidazole derivatives on mild steel in HCl.	2001	M. Tech. (Met.)
10.	Studies on biodegradable polymers based on Poly Lactic acid.	2001	B. E. (Chem.)
11.	Synthesis of hydrogel based on starch.	2002	B. E. (Chem.)
12.	Sono-chemical degradation of chlorinated organic compounds	2003	M. Tech. (Chem.)
13.	Studies on biodegradable polymers based on starch acetate.	2004	B. Tech. (Chem.)
14.	4-Chloro-3,5-dimethyl phenol: Sonochemical degradation studies	2004	B. Tech. (Chem.)
15.	Synthesis and performance evaluation of Biodiesels from used vegetable oils (Chem. Engg. Department)	2005	B. Tech. (Chem)
	Synthesis & assessment of surface treated granite particle reinforced polymer matrix composite.	2005	B. Tech. (Met.)
16.	Organic corrosion inhibitors in controlling corrosion of mild steel	2006	B. Tech. (Met.)
17.	Synthesis of biodiesel (Transesterification) from Gimnekrantha Kenerica oil and its effect on engine performance	2006	B. Tech. (Chem)
18.	Studies on Montmorillonite clay as effective catalyst for Friedel Craft's acetylation of Thiophene	2006	B. Tech. (Chem)
19.	Studies on Biodiesel from used Vegetable Oils	2006	B. Tech. (Chem)
20.	Studies on composites of Bismaleimides with carbon nanotubes	2007	B. Tech. (Chem)



21.	Biodiesel from Linseed oil and its effect on engine performance.	2007	B. Tech. (Chem)
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### Refresher courses participated:

Sl. No	Title of the course and sponsorship	Duration	Department	Institution
1.	Teaching Methodology, Evaluation and Trends & Problems in education, sponsored by UGC and University of Mysore.	29-05-1977 to 01-07-1977 One month	Edu- cation	Manipal College of Education, Udupi.
2.	Scientific Instruments, sponsored by DST, Govt. of India.	01-05-1989 to 05-05-1989 One week	Chemistry Dept.	I.I.T. Chennai.
3.	Bioconversion, Process Optimiza-tion & Computer Modelling, sponsored by AICTE/ISTE.	04-12-1989 to 16-12-1989 Two weeks	Chem. Engg. Dept.	N.I.T.K. Surathkal.
4.	Computer Awareness for Teachers, sponsored by NITK.	08-01-1990 to 13-01-1990 One week	Computer Engg. Dept.	N.I.T.K., Surathkal.
5.	Industrial Exposure for Chemical Engg. Teachers, sponsored by AICTE/ISTE.	28-05-1990 to 07-06-1990 Two weeks	Industry (Public secotor)	I.P.C.L., Vadodara.
6.	Biotechnology in combating pollution, sponsored by ISTE.	25-06-1990 to 07-07-1990 Two weeks	Chemical Engg. Dept.	I.I.T., Kharagpur WB
7.	Winter School on Polymers, sponsored by AICTE/ISTE.	10-12-1990 to 21-12-1990 Two weeks	Polymer Science Dept.	I.I.T., Delhi
8.	Food Process and Preservation Engineering, sponsored by AICTE/ISTE.	01-06-1992 to 13-06-1992 Two weeks	Agri- cultural Engg. Dept.	I.I.T., Kharagpur.
9.	Institutional Planning and Manage-ment, sponsored by AICTE/ISTE.	05-01-1997 to 11-01-1997 One week	Mech. Engg. Dept.	N.I.T.K. Surathkal.
10.	Industry Institute Partnership, sponsored by AICTE/ISTE.	03-02-1997 to 08-02-1997 One week	Mech. Engg. Dept.	Tamil Nadu Govt. Polytechnic

				Madurai.
11.	Industry Institute Partnership, sponsored by AICTE/ISTE.	16-03-1997 to 22-03-1997 One week	Mech. Engg. Dept.	N.I.T.K. Surathkal.
12.	Quality Assurance in Engineering Education, sponsored by AICTE/ISTE.	14-07-1997 to 19-07-1997 One week	Mech. Engg. Dept.	N.I.T.K. Surathkal.
13.	Mechatronics, sponsored by AICTE/ISTE.	28-07-1997 to 09-07-1997 Two weeks.	Mech. Engg. Dept.	N.I.T.K. Surathkal
14.	Environmental Pollution Control and Repercussions, sponsored by AICTE/ISTE.	01-12-1997 to 13-12-1995 Two weeks	Mech. Engg. Dept.	N.I.T.K. Surathkal.
15.	Site Investigation Tech. for Civil Engg. Constructions and Development of Engg. Geology and Geotech. in India, sponsored by AICTE/ISTE.	29-12-1997 to 10-01-1998 Two weeks	Civil Engg. Dept.	N.I.T.K. Surathkal
16.	Advances and Latest Trends in Engineering Geology and Geotechnology, sponsored by AICTE/ISTE	31-12-2002 to 12-01-2003 Two weeks	Civil Engg. Dept.	N.I.T.K. Surathkal
17.	Solar Energy and its applications, Sponsored by AICTE/ISTE.	20-01-2003 to 02-02-2003 Two weeks	Electrical Engg. Dept.	N.I.T.K. Surathkal
18	National Symposium on “Current Trends in Materials”	05 - 07, Dec. 2005	Dept. of Chemistry	IIT, Kanpur, UP
19	National workshop on “Computational Portal in Chemistry”	18 -19, March, 2006	Dept. of Managem ent.	IIITM – K Tri- vendrum
20	Workshop on “Model Curriculum for B.Tech. & M.Tech. in Chem. Engg	26 - 27, Nov. 2004	Chem. Engg. Dept.	NITK, Surathkal.
21	Management Capacity Development Programme on “Knowledge Management”, sponsored by TEQIP	29-01-2007 to 02-02-2007 One week	Managem ent Dept.	N.I.T., Trichy Tamil Nadu

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