

## Faculty Profile



1.Name of the Faculty : Dr. I. Vetha Potheher

2.Department and Designation : Physics & Assistant Professor

3.Date of Joining : 30-09-2009

4.Faculty ID: TF 118

5. E-mail Address : potheher11@gmail.com

6. Date of Birth : 11-04-1980

7. Qualification : MSc., PhD.,

8.Specialization : Crystal Growth and Nano Science

9. Professional Experience: 8 years 6 months

10.Research Guidance: Pursuing: 6 Thesis submitted: 1

11.Awards and Honours :

1. Received **“The Best Paper Presentation Award”** in Second national symposium on nonlinear optical crystals and modeling in crystal growth organized by the Department of Physics, Anna University during March 26 – 27, 2007.
2. Received a special award for the **“Outstanding Performance as Coordinator for Students’ Welfare”** in Loyola College during the academic year 2006 – 07.
3. Received **“Star of Loyola Award”** for outstanding achievement in the academic year 2004 – 05.

12. Sponsored Projects: -

13. Patents:-

## 14. Publications

(i) Internationally Refereed Journals : (along with Impact Factor)

1. A comparative analysis on optical, photo luminescence and laser damage properties of conventional and uniaxial method grown semi organic nonlinear optical material – sodium potassium tartrate tetrahydrate: R. Purusothaman, M. Shankar, A. Dennis Raj, M. Vimalan, K. Rajarajan and **I. Vetha Potheher**, **Materials Research Innovations (Accepted, Available online, 2017) (Impact Factor-0.37)**
2. Synthesis of ZnO Nanorods by One Step Microwave-Assisted Hydrothermal Route for Electronic Device Applications: N. Senthilkumar, E. Vivek, M. Shankar, M. Meena, M. Vimalan and **I. Vetha Potheher**, **Journal of Materials Science: Materials in Electronics (Accepted, Available online, 2017) (Impact Factor- 2.019)**
3. Synthesis of ZnO nanoparticles using leaf extract of *Tectona grandis* (L.) and their anti-bacterial, antiarthritic, anti-oxidant and in vitro cytotoxicity activities: N. Senthikumar, E. Nandhakumar, P. Priya, D. Soni, M. Vimalan and **I. Vetha Potheher**, **New Journal of Chemistry 41 (2017) 10347-10356 (Impact Factor-3.269 )**
4. Equilibrium studies on removal of lead (II) ions from aqueous solution by adsorption using modified red mud: S. Lakshmi Narayanan, G. Venkatesan and **I. Vetha Potheher**, **International Journal of Environmental Science and Technology (Accepted and Article in Press) (2017) (Impact Factor-1.415)**
5. Synthesis, Growth, Physicochemical properties and DFT calculations of 2-naphthol substituted Mannich base 1-(morpholino(phenyl) methyl) naphthalen-2-ol: A Non linear Optical Single crystal: A. Dennis Raj, M. Jeeva, M. Shankar, G. Venkatesa Prabhu, M. Vimalan, **I. Vetha Potheher**, **Journal of Molecular Structure 1147 (2017) 763 – 775. (Impact Factor-1.753)**
6. ZnO/Ni(OH)<sub>2</sub> Core-Shell Nanoparticles: Synthesis, Optical, Electrical and Photoacoustic Property Analysis: N. Senthil Kumar, M. Ganapathy, S. Sharmila, M. Shankar, M. Vimalan,

- I. Vetha Potheher, Journal of Alloys and Compounds 703 (2017) 624-632. (Impact Factor-3.133)**
7. 1-((4-methylpiperazin-1-yl)(phenyl)methyl)naphthalen-2-ol: A novel Mannich base organic NLO crystal for the analysis of electro-optic applications: A. Dennis Raj, M. Jeeva, R. Purusothaman, G. Venkatesa Prabhu, M. Vimalan and **I. Vetha Potheher, Journal of Materials Science: Materials in Electronics 28 (2017) 7802-7810. (Impact Factor-2.019)**
  8. Study on the L-Lysine-Iodic acid: Semi Organic Non Linear Optical Single Crystals for Electro-Optic Applications: M. Kumar, R. Kanagadurai, S. Chithra, S. Tamilselvan, **I. Vetha Potheher** and M. Vimalan **Journal of Materials Science: Materials in Electronics 28 (2017) 5154-5164. (Impact Factor-2.019)**
  9. Synthesis and characterization of Zinc Oxide nanoparticles using marine Streptomyces sp. with its investigations on anticancer and antibacterial activity: B. Balraj, N. Senthilkumar, C. Siva, R. Krithikadevi, A. Julie, **I. Vetha Potheher**, M. Arulmozhi, **Research on Chemical Intermediates 43 (2017) 2367-2376. (Impact Factor-1.396)**
  10. Synthesis, Growth, Optical and DFT calculation of 2-naphthol derived Mannich base Organic Non Linear Optical Single Crystal for Frequency Conversion Applications: A. Dennis Raj, M. Jeeva, M. Shankar, R. Purusothaman, G. Venkatesa Prabhu, **I. Vetha Potheher, Physica B: Condensed Matter 501 (2016) 45-56. (Impact Factor-1.386)**
  11. Growth, optical and electrical properties of L-Lysine-L-tartaric acid (LLLT) nonlinear optical single crystals for electro-optic applications: N. Y. Maharani, **I. Vetha Potheher**, M. Vimalan, A. Cyrac Peter, **Journal of Materials Science: Materials in Electronics 27 (2016)12719-12728. (Impact Factor-2.019)**
  12. Synthesis, growth and characterization of (tri) glycine barium chloride single crystal for applications in the domain of optoelectronics and photonics: S. Chennakrishnan, S. M. Ravi Kumar, D. Sivavishnu, M. Ganapathi, **I. Vetha Potheher**, M. Vimalan, **Journal of Materials Science: Materials in Electronics 27 (2016) 10113-10121. (Impact Factor-2.019)**

13. Growth and Characterization of amino based organic nonlinear optical L-Lysine-L-Aspartate (LLA) single crystal for electro-optic applications: N. Y. Maharani, A. Cyrc Peter, S. Gopinath, S. Tamilselvan, M. Vimalan and **I. Vetha Potheher**, **Journal of Materials Science: Materials in Electronics 27 (2016) 5006 – 5015. (Impact Factor-2.019)**
14. A Study on the Synthesis and Charecterization of  $\text{CoMn}_2\text{O}_4$  electrode material for supercapacitor applications: P. Vigneshwaran, M. Kandiban, N. Senthil Kumar, V. Venkatachalam, R. Jayavel and **I. Vetha Potheher**, **Journal of Materials Science: Materials in Electronics 27 (2016) 4653 – 4658. (Impact Factor-2.019)**
15. A Comparative analysis on growth and physicochemical properties of pure and impurity added  $\text{NH}_4\text{SbF}_4$  single crystals: A novel electro-optic material: R. Mary Jenila, **I. Vetha Potheher**, M. Vimalan and T. R. Rajasekaran, **Journal of Materials Science: Materials in Electronics 26 (2015) 6419 – 6426. (Impact Factor-2.019)**
16. Growth and comparison of physicochemical properties of Lewis base adduct of MMTC and CMTC: Efficient nonlinear optical single crystals: **I. Vetha Potheher**, K. Rajarajan, R. Jeyasekaran and P. Sagayaraj, **IOP Conf. Series, Materials Science and Engineering 73 (2015) 012054. (Impact Factor-0.312)**
17. Morphological and topographical analysis of CuS nano thin films grown by silar technique: P. Mani, K. Manikandan, **I. Vetha Potheher**, P.Fermi Hilbert Inbaraj, J. Joseph Prince, **Journal of Chemical and Pharmaceutical Sciences 4 (2014) 55 – 58. (Impact Factor-1.753)**
18. Generation of 532 nm laser radiation and Phase matching properties of organic nonlinear optical material: S. Tamilselvan, M. Vimalan, **I. Vetha Potheher**, R. Jeyasekaran, F. Yogam, J. Madhavan, **Optik – International Journal for Light and Electron Optics 125 (2014) 164 – 169. (Impact Factor-0.769)**
19. Growth, thermal, dielectric and mechanical properties of L-Phenylalanine-Benzoic acid: A nonlinear optical single crystal: S. Tamilselvan, M. Vimalan, **I. Vetha Potheher**, S.

- Rajasekar, R. Jeyasekaran, M. Antony Arockiaraj and J. Madhavan, **Spectrochimica Acta Part A: Molecular and Bimolecular Spectroscopy** **114** (2013) **19 – 26. (Impact Factor-2.536)**
20. Growth, thermal and optical properties of L-Asparagine Monohydrate NLO single crystal: F. Yogam, **I. Vetha Potheher**, R. Jeyasekaran, M. Vimalan, M. Antony Arockiaraj and P. Sagayaraj, **Journal of Thermal Analysis and Calorimetry** **114** (2013) **1153 – 1159. (Impact Factor-1.953)**
21. Synthesis, Structural characterization, Bio potential efficiency and DNA cleavage applications of nicotinamide metal complexes: C. Surendra Dilip, V. Siva Kumar, S. John Venison, **I. Vetha Potheher** and D. Rajalaxmi (a) Subahshini, **J. Molecular Structure** **1040** (2013) **192 – 205. (Impact Factor-1.753)**
22. Growth and Comparison of Physicochemical Properties of Pure, Ca<sup>2+</sup> and Sr<sup>2+</sup> Doped NH<sub>4</sub>Sb<sub>3</sub>F<sub>10</sub> Single Crystals for electro optic applications: R. Mary Jenila, S. Anna Venus, **I. Vetha Potheher**, T. R. Rajasekaran and J. Benet Charles, **Optik – International Journal for Light and Electron Optics** **124** (2013) **3618 – 3622. (Impact Factor-0.769)**
23. Growth, Optical, thermal and Conductivity behaviour of nonlinear optical single crystals of CdHg(SCN)<sub>4</sub>(CH<sub>3</sub>OC<sub>2</sub>H<sub>5</sub>O): **I. Vetha Potheher**, K. Rajarajan, R. Jeyasekaran, M. Vimalan, F. Yogam and P. Sagayaraj, **Journal of Thermal Analysis and Calorimetry** **111** (2013) **1491 – 1497. (Impact Factor-1.953)**
24. Growth and Physicochemical properties of L-Phenylalaninium Maleate: A novel nonlinear optical crystal: F. Yogam, **I. Vetha Potheher**, M. Vimalan, R. Jeyasekaran, T. Rajesh Kumar and P. Sagayaraj, **Spectrochimica Acta Part A: Molecular and Bimolecular Spectroscopy** **95** (2012) **369 – 373. (Impact Factor-2.536)**
25. Synthesis and electrical properties of PbS<sub>x</sub>O<sub>1-x</sub> Nanocomposites: S. Rajasekar, S. Tamilselvan, R. Jeyasekaran, M. Gulam Mohamed, P. Marimuthu, **I. Vetha Potheher** and M. Vimalan, **Nanocomposite materials** **50** (2012) **10624 – 10627.**

26. Investigation on the optical and electrical properties of MMTG crystal: A Lewis base adduct: **I. Vetha Potheher**, K. Rajarajan, M. Vimalan, S. Tamilselvan, R. Jeyasekaran and P. Sagayaraj, **Physica B: Physics of Condensed Matter** **406** (2011) 3210 – 3214. (Impact Factor-1.386)
27. Studies on the nucleation kinetics and growth of tu-SCN ligand based NLO crystal of TMTZ: R. Jeyasekaran, P. Dennis Christy, A. Muthuvinayagam, **I. Vetha Potheher** and P. Sagayaraj, **Archives of Applied Science Research** **3** (2011) 83 – 91. (Impact Factor-0.27)
28. Growth and Characterization of organic nonlinear optical single crystal of L-Asperginium Picrate (LASP): F. Yogam, **I. Vetha Potheher**, A. Cyrac Peter, S. Tamilselvan, M. Vimalan and P. Sagayaraj, **Archives of Applied Science Research** **3** (2011) 267 – 276. (Impact Factor-0.27)
29. Growth and characterization of novel semiorganic nonlinear optical crystals of L-phenylalanine hydrochloride (LPHCl): F. Yogam, **I. Vetha Potheher**, A. Cyrac Peter, S. Tamilselvan, A. Leo Rajesh, M. Vimalan and P. Sagayaraj, **Advances in Applied Science Research** **2** (2011) 261 – 268. (Impact Factor-3.52)
30. Investigation on the growth and characterization of nonlinear optical single crystals of Tris-Allyl Thiourea Mercury Bromide (ATMB): **I. Vetha Potheher**, K. Rajarajan, M. Vimalan, T. Rajesh Kumar, R. Jeyasekaran and P. Sagayaraj, **Archives of Applied Science Research** **2** (2010) 171 – 182. (Impact Factor-0.27)
31. Electrical properties of Mg doped  $ZnS_xO_{1-x}$  nanocomposites: M. Vimalan, T. Rajesh Kumar, **I. Vetha Potheher**, M. Gulam Mohamed and C. K. Mahadevan, **Archives of Applied Science Research** **2** (2010) 68 – 73. (Impact Factor-0.27)
32. Growth, Optical and Electrical properties of Tri-Allylthiourea Mercury Bromide (ATMB) Single Crystal: **I. Vetha Potheher**, K. Rajarajan, R. Jeyasekaran and P. Sagayaraj, **International Journal of Materials Sciences** **4** (2009) 215 – 222. (Impact Factor-0.58)

33. Experimental studies on the dielectric, ac conductivity and photoconductivity behaviour of imetallic thiocyanates, thiourea complex TMTM single crystals: K. Rajarajan, **I. Vetha Potheher**, R. Jeyasekaran, G. Mani, M. Gulam Mohamed and P. Sagayaraj, **International Journal of Materials Sciences** **4** (2009) 233 – 237.
34. Growth and Characterization of Diaquatetrakis (thiocyanato) cobalt (II) mercury (II) N-methyl-2-pyrrolidone (CMTWMP) single crystals: **I. Vetha Potheher**, K. Rajarajan, K. S. Nagaraja, J. Madhavan and P. Sagayaraj, **Journal of Crystal Growth** **310** (2008) 124 – 130. (Impact Factor-1.751)
35. Investigations on the nucleation kinetics of tetrathiourea mercury (II) tetrathiocyanato zinc (II) single crystals, K. Rajarajan, R. Sankar, **I. Vetha Potheher** and P. Sagayaraj, **Materials Letters** **62** (2008) 4480 – 4482. (Impact Factor-2.572)
36. Growth and Characterization of a new nonlinear optical L-histidine acetate single crystals. J. Madhavan, S. Aruna, A. Anuradha, D. Premanand, **I. Vetha Potheher**, K. Thamizharasan, P. Sagayaraj, **Optical Materials** **29** (2007) 1211 – 1216. (Impact Factor-2.023)
37. Growth and optical studies of a novel organometallic complex NLO crystal: Tetrathiourea cadmium (II) tetrathiocyanato zinc (II) K. Rajarajan, Ginson P. Joseph, S. M. Ravi Kumar, **I. Vetha Potheher**, A. Joseph Arul Pragasam, K. Ambujam and P. Sagayaraj, **Materials and Manufacturing Processes** **22** (2007) 370 – 374. (Impact Factor-0.41)
38. Thermal, optical and electrical properties of gel grown ZMTC: K. Ambujam, S. Selvakumar, Ginson P. Joseph, **I. Vetha Potheher**, A. Joseph Arul Pragasam and P. Sagayaraj **Materials and Manufacturing Processes** **22** (2007) 351 – 356. (Impact Factor-0.41)
39. Growth and characterization of organometallic nonlinear optical TMTM crystals: K. Rajarajan, Preema C. Thomas, **I. Vetha Potheher**, Ginson P. Joseph, S. M. Ravikumar, S. Selvakumar and P. Sagayaraj **Journal of Crystal Growth** **304** (2007) 435 – 440. (Impact Factor-1.751)

40. Growth, optical, dielectric and ESR studies on tetrathiourea mercury (II) tetrathiocyanato manganate (II): An organometallic complex NLO crystal, K. Rajarajan, G. Mani, **I. Vetha Potheher**, Joe G. M. Jesudurai, M. Vimalan, P. Dennis Christy and P. Sagayaraj, **Journal of physics and chemistry of solids** **42 (2007) 2370 – 2375. (Impact Factor-0.92)**
41. Optical, dielectric and photoconductivity studeies of Bis(dimethyl sulfoxide) tetrathiocyanato-cadmium(II) mercury(II) NLO single crystals. K. Rajarajan, S. Selvakumar, Ginson P. Joseph, S. Samikkannu, **I. Vetha Potheher** and P. Sagayaraj, **Optical Materials** **28 (2006) 1187 – 1191. (Impact Factor-2.023)**
42. Growth and characterization of a novel NLO crystal bis-glycine hydrogen chloride (BGHC), K. Ambujam, K. Rajarajan, S. Selvakumar, **I. Vetha Potheher**, Ginson P. Joseph, P. Sagayaraj, **Journal of Crystal Growth** **286 (2006) 440 – 444. (Impact Factor-1.751)**
43. Growth, dielectric and photoconducting studies of tetrathiourea mercury (II) tetrathiocyanato Zinc (II) NLO single crystals, K. Rajarajan, S. Selvakumar, Ginson P. Joseph, **I. Vetha Potheher**, M. Gulam Mohamed and P. Sagayaraj, **Journal of Crystal Growth** **286 (2006) 470 – 475. (Impact Factor-1.751)**
44. Growth and characterization of pure and metal doped bis(thiourea) zinc chloride single crystals. S. Selvakumar, K. Rajarajan, S. M. Ravi Kumar, **I. Vetha Potheher**, D. Prem Anand, K. Ambujam and P. Sagayaraj, **Crystal Research and Technology** **41(2006) 766 – 770. (Impact Factor-0.94)**

(ii) National Journals:

1. Mechanical, dielectric and photoconducting properties of a novel non-linear optical crystal. K. Rajarajan, S. Selvakumar, Ginson P. Joseph, M. Gulam Mohamed, **I. Vetha Potheher** & P. Sagayaraj. *Indian Journal of Pure & Applied Physics*. 43(2005) 926-930.
2. Growth, optical and dielectric properties of semi-organic non-linear optical crystals of manganese mercury thiocyanate (MMTC), Ginson.P.Joseph, K.Rajarajan, Joe G. M. Jesudurai, **I.Vetha Potheher**, Preema C.Thomas, A. Anuradha, S. M. Ravi Kumar, P.Sagayaraj, **Convergence** **8 (2006) 39 – 46.**



3. Optical and dielectric properties of nonlinear optical LALA single crystals, M. Vimalan, V. Joseph, J. Packiam Julius, **I. Vetha Potheher**, S. M. Ravi Kumar, S. Aruna, A. Ramanand and P. Sagayaraj, **Convergence 8 (2006) 47 – 53**.

(iii) International Conferences

1. Growth and characterization of semi organic nonlinear optical crystals of MMTC. Ginson P. Joseph, K. Rajarajan, **I. Vetha Potheher**, S. Selvakumar and P. Sagayaraj (ICOL 2005, IRDE, Dehradun, Dec 12 –15, 2005).
2. Optical and Thermal studies of tetrathiourea cadmium(II) tetrathiocyanato zinc(II) NLO single crystals. Rajarajan K, Selvakumar S, Ginson P. Joseph, **Vetha Potheher I** and Sagayaraj P (ICOL 2005, IRDE, Dehradun, Dec 12 –15, 2005).
3. A comparative study of the mechanical and dielectric properties of NLO organometallic crystals. Selvakumar S, Rajarajan K, Ginson P. Joseph, **Vetha Potheher I**, Thamizharasan K and Sagayaraj P (ICOL 2005, IRDE, Dehradun, Dec 12 –15, 2005).
4. Growth, Optical and ESR studies of CMTWMP: a novel organometallic nonlinear optical single crystals: **I. Vetha Potheher**, K. Rajarajan, Ginson P. Joseph, Preema C. Thomas, M. Vimalan, G. Mani, S. M. Ravikumar and P. Sagayaraj, Photonics 2006, held at Hyderabad University, Hyderabad, Dec 13-16, 2006.
5. Growth and characterization of  $\text{Cu}^{2+}$  doped l-tartaric acid - nicotinamide (LTN) organic NLO single crystals: M. Gulam Mohamed, P. Dennis Christy, K. Rajarajan, K. Ambujam, **I. Vetha Potheher**, V. Joseph and P. Sagayaraj, Photonics 2006, Dec 13-16, Hyderabad University, Hyderabad.
6. Growth and characterization of organic NLO crystals of LAM: M. Vimalan, S. Aruna, Preema C. Thomas, G. Mani, J. Packiam Julius, V. Joseph, **I. Vetha Potheher** and P. Sagayaraj, Photonics 2006, Dec 13-16, Hyderabad University, Hyderabad.
7. Growth, optical and electrical properties of Tri – Allylthiourea mercury bromide (ATMB) single crystal: **I. Vetha Potheher**, K. Rajarajan, R. Jeyasekaran and P. Sagayaraj, ICFMAT – 2009, Velammal Engineering College, Chennai, January 29<sup>th</sup> and 30<sup>th</sup>, 2009.
8. Growth and comparison of physicochemical properties of Lewis base adduct of MMTC and CMTC: Efficient non-linear optical single crystals: **I. Vetha Potheher**, ICMST – 2012, St. Thomas College, Pala, Kottayam, Kerala – 686 574, June 10-14, 2012.
9. Green Synthesis of Silver Nanoparticles Using Different Leaf Extracts and their Comparative Structural Analysis: N. Senthil Kumar, S. C. G. Kiruba Daniel, M. Sivakumar and **I. Vetha**

**Potheher**, ICAN 2014, Department of Inorganic Chemistry, University of Madras, Chennai-25, June 20 & 21, 2014.

10. Coriandrum Sativum Mediated Synthesis of Silver Nanoparticle and Evaluation of their Biological Characteristics: N. Senthil Kumar, V. Aravindhana, **I. Vetha Potheher** and K. Ruckmani, International Conference on Nanoscience, Nanotechnology & Advanced Materials (NANOS-2015), December 14-17, 2015.
11. Electrochemical Property Analysis on Mn<sub>3</sub>O<sub>4</sub> Nanoparticles Synthesized by Hydrothermal Method: **I. Vetha Potheher**, M. Ganapathy, N. Senthilkumar and M. Vimalan, ICMST – 2016, St. Thomas College, Pala, Kottayam, Kerala – 686 574, June 5-8, 2016.
12. Synthesis of ZnO/Ni(OH)<sub>2</sub> Core-shell Nanoparticles using for Optical and Electrical Property: N. Senthil Kumar, M. Ganapathy, S. Sharmila, M. Shankar, M. Vimalan, I. Vetha Potheher, TEQIP II Sponsored International Conference on Advances in Biological, Chemical and Physical Sciences (ABCPS), Department of Bio-Technology, Chemistry and Physics, Anna University BIT Campus, Trichy, March 13-15, 2017.
13. Synthesis of Copper Oxide Nanosheets Anchored on Graphene for Supercapacitor Application: Vivek Elangovan, Vetha Potheher I., 4<sup>th</sup> International Conference on Nanoscience and Nanotechnology, Department of Physics and Nanotechnology, SRM University, Chennai, August 9-11, 2017.

(iv) National Conferences

1. Crystal growth, Optical and dielectric studies of semi organic non-linear optical CMTD single crystals. K. Rajarajan, M. Gulam Mohamed, Ginson P. Joseph, **I. Vetha Potheher** and P. Sagayaraj DAE, Amristar, Dec 26 – 30, 2004.
2. Dielectric and photoconductivity studies of semi organic nonlinear optical crystals of MMTC. Ginson P. Joseph, K. Rajarajan, **I. Vetha Potheher**, S. Selvakumar and P. Sagayaraj DAE, Amristar, Dec 26 – 30, 2004.
3. Growth and characterization of Cd<sup>2+</sup> and Mg<sup>2+</sup> doped MMTC crystals. Ginson P. Joseph, K. Rajarajan, **I. Vetha Potheher** and P. Sagayaraj. DAE, Amristar, Dec 26 – 30, 2004.
4. Growth and Optical properties of diaqua tetrakis (thiocyanato) cobalt (II) mercury (II) – n – methyl – 2 – pyrrolidone (CMTWMP) **I. Vetha Potheher**, K. Rajarajan, Ginson P. Joseph, S. Selvakumar, S. M. Ravikumar and P. Sagayaraj, held at Loyola College, Chennai. (September 29<sup>th</sup> & 30<sup>th</sup> 2005).

5. Growth and characterization of semi organic nonlinear optical crystals of MMTC. Ginson P. Joseph, K. Rajarajan, **I. Vetha Potheher**, S. Selvakumar and P. Sagayaraj, Loyola College, Chennai. September 29<sup>th</sup> & 30<sup>th</sup> 2005.
6. Crystal growth, optical and dielectric studies of a semiorganic nonlinear optical CMTD single crystal. K. Rajarajan, M. Gulam Mohamed, Ginson P. Joseph, **I. Vetha Potheher** and P. Sagayaraj, Loyola College, September 29<sup>th</sup> & 30<sup>th</sup> 2005.
7. Growth and Mechanical properties of Pure and  $\text{Cd}^{2+}$  and  $\text{Mg}^{2+}$  MMTC crystals Ginson P. Joseph, K. Rajarajan, S. Selvakumar, **I. Vetha Potheher** and P. Sagayaraj, National Symposium on Crystal Growth and Characterization, Department of Physics, Loyola College, September 29<sup>th</sup> & 30<sup>th</sup>, 2005.
8. Growth, Optical and Dielectric properties of diaqua tetrakis (thiocyanato) cobalt (II) mercury (II)-n-methyl-2-pyrrolidone (CMTWMP) **I. Vetha Potheher**, K. Rajarajan, Ginson P. Joseph, S. Selvakumar, S. M. Ravikumar and P. Sagayaraj, held at VIT, Vellore, Dec 7 - 10, 2005. (NLS 2005).
9. Growth, Thermal and Optical studies of bis-glycine hydrogen chloride: K. Ambujam, K. Rajarajan, Preema C. Thomas, K. Praba, S. M. Ravi Kumar, **I. Vetha Potheher** and P. Sagayaraj (Dec 7 - 10, 2005. NLS 2005).
10. Growth and Optical studies of a new organometallic optical single crystal: Tetrathiourea mercury (II) tetrathiocyanato manganese (II): K. Rajarajan, S. Selvakumar, Ginson P. Joseph, **I. Vetha Potheher**, S. M. Ravi Kumar and P. Sagayaraj (Dec 7 - 10, 2005. NLS 2005).
11. Dielectric and Microhardness studies on  $\text{Zn}^{2+}$  doped bis(thiourea) cadmium acetate single crystals: S. Selvakumar, K. Rajarajan, **I. Vetha Potheher**, S. M. Ravikumar, S. A. Rajasekar and P. Sagayaraj (Dec 7 - 10, 2005. NLS 2005).
12. Growth and characterization of benzamide substituted organic nonlinear hippuric acid: M. Gulam Mohamed, **I. Vetha Potheher**, S. M. Ravi Kumar, Joe G. M. Jesudurai and P. Sagayaraj (Dec 7 - 10, 2005. NLS 2005).
13. Mechanical, Dielectric and Photoconductivity properties of  $\text{Cu}^{2+}$ ,  $\text{Cd}^{2+}$  and Iodine doped BG crystals: D. Prem Anand, M. Vimalan, **I. Vetha Potheher**, S. M. Ravikumar, J. Packiam Julius and P. Sagayaraj (Dec 30 – 31, 2005, P. S. G. College, Coimbatore).
14. Growth and characterization of  $\text{Cd}^{2+}$  and  $\text{Mg}^{2+}$  doped MMTD crystals: Ginson. P. Joseph, K. Rajarajan, S. Selvakumar, **I. Vetha Potheher**, S. M. Ravikumar and P. Sagayaraj (Dec 30 – 31, 2005, P. S. G. College, Coimbatore).

15. FTIR, Dielectric and Microhardness studies on the metal (Cu) substituted LADP single crystals: A. Joseph Arul Pragasam, S. Selvakumar, S. M. Ravikumar, **I. Vetha Potheher**, M. Vimalan and P. Sagayaraj (Dec 30 – 31, 2005, P. S. G. College, Coimbatore).
16. Growth and characterization of diaqua tetrakis (thiocyanato) cobalt (II) mercury (II) –N-methyl-2- pyrrolidone (CMTWMP) **I. Vetha Potheher**, K. Rajarajan, Ginson P. Joseph, M. Vimalan, S. Selvakumar, G. Mani and P. Sagayaraj, (PADIKA, Jan 19 – 21, 2006, Hindu College, Nagercoil).
17. Growth and characterization of Cd<sup>2+</sup> and Mg<sup>2+</sup> doped MMTC crystals: Ginson P. Joseph, K. Rajarajan, S. Selvakumar, **I. Vetha Potheher**, S. M. Ravikumar and P. Sagayaraj (PADIKA Jan 19 – 21, 2006, Hindu College, Nagercoil).
18. Microhardness and photoconductivity studies of tetrathiocyanato cadmium(II) mercury(II) NLO single crystals: K. Rajarajan, Ginson P. Joseph, K. Thamizharasan, K. Ambujam, **I. Vetha Potheher**, S. M. Ravikumar and P. Sagayaraj (PADIKA Jan 19 – 21, 2006, Hindu College, Nagercoil).
19. Growth and optical studies of a novel organometallic complex NLO crystal: Tetrathiourea cadmium (II) tetrathiocyanato zinc (II) K. Rajarajan, Ginson P. Joseph, S. M. Ravi Kumar, **I. Vetha Potheher**, A. Joseph Arul Pragasam, K. Ambujam and P. Sagayaraj (PADIKA Jan 19 – 21, 2006, Hindu College, Nagercoil).
20. Growth, thermal, optical and photoconductivity studies of Bis-glycine hydrogen chloride: K. Ambujam, J. Madhavan, Ginson P. Joseph, **I. Vetha Potheher**, S. M. Ravikumar and P. Sagayaraj (PADIKA Jan 19 – 21, 2006, Hindu College, Nagercoil).
21. Thermal, optical and electrical properties of gel grown ZMTC: K. Ambujam, S. Selvakumar, Ginson P. Joseph, **I. Vetha Potheher**, A. Joseph Arul Pragasam and P. Sagayaraj (PADIKA Jan 19 – 21, 2006, Hindu College, Nagercoil).
22. Growth and characterization of Organic NLO crystals of LTA: M. Vimalan, M. Gulam Mohamed, J. Packiam Julius, **I. Vetha Potheher**, K. Praba, A. Ramanand and P. Sagayaraj (April 21 – 22, 2006, SRM, Deemed University).
23. Growth, Optical and micro hardness studies of a novel organometallic complex NLO crystal: Diaquatetrakis (thiocyanato) cobalt (II) mercury (II) N-methyl-2-pyrrolidone (CMTWMP).**I. Vetha Potheher**, K. Rajarajan, Ginson P. Joseph, S. M. Ravi Kumar, M. Vimalan, S. Selvakumar and P. Sagayaraj held at University of Delhi, Delhi, October 12- 16, 2006.

24. Growth and Spectroscopic studies of nonlinear optical single crystals of LADN and LADI. Preema C. Thomas, S. Aruna, J. Madhavan, **I. Vetha Potheher**, S. M. Ravi Kumar and P. Sagayaraj held at University of Delhi, Delhi, 12- 16<sup>th</sup> October 2006).
25. Optical, dielectric and ESR studies on tetrathiourea mercury (II) tetrathiocyanato manganate(II) single crystal: K. Rajarajan, **I. Vetha Potheher**, Ginson P. Joseph, S. M. Ravi Kumar, M. Vimalan, K. Prabha and P. Sagayaraj, 11<sup>th</sup> National seminar on Crystal Growth, SSN College of Engineering, SSN Nagar, Dec 7-9, 2006.
26. Growth, Thermal and Elemental analysis of Diaquatetrakis (thiocyanato) cobalt (II) mercury (II) N-methyl-2-pyrrolidone - A nonlinear optical crystal, **I. Vetha Potheher**, K. Rajarajan, M. Vimalan and P. Sagayaraj, Second National Symposium on Nonlinear Optical Crystals and Modeling in Crystal Growth, March 26 - 27, 2007, Department of Physics, Anna University, Chennai.
27. Synthesis, growth and optical properties of Manganese mercury thiocyanate glygol monomethyl ether NLO single crystal - A Lewis base adduct of MMTC: **I. Vetha Potheher**, K. Rajarajan, R. Jeyasekaran and P. Sagayaraj, 7<sup>th</sup> National Laser Symposium (NLS - 7), Maharaja Shayajirao University of Baroda, Vadodara, Dec - 17 - 20, 2007.
28. Synthesis, growth and elemental analysis of Lewis base adduct of CMTC: Cadmium mercury thiocyanate glygol monomethyl ether (CMTG): **I. Vetha Potheher**, K. Rajarajan, M. Vimalan and P. Sagayaraj, 7<sup>th</sup> National Laser Symposium (NLS - 7), Maharaja Shayajirao University of Baroda, Vadodara, Dec - 17 - 20, 2007.
29. Second Harmonic Generation by Gadmium Mercury Thiocyanate Glygol Monomethyl Ether (CMTG) Single Crystal: A. Dennis Raj and **I. Vetha Potheher**, DST Sponsored National Seminar on Recent Trends in Physics, Shivani Engineering College, Tiruchirappalli, March – 18-19, 2011.
30. Preparation and characterization of CdS–TiO<sub>2</sub> nanoparticles: M. Ganapathy, R. Jeyasekaran, **I. Vetha Potheher**, M. Vimalan, P. Sagayaraj and P. Dennis Christy, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
31. Growth and characterization of Pure and Ca<sup>2+</sup> Doped NH<sub>4</sub>Sb<sub>3</sub>F<sub>10</sub> Single Crystals: R. Mary Jenila, S. Anna Venus, **I. Vetha Potheher**, T. R. Rajasekaran, and

- J. Benet Charles, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
32. A comparative analysis of Pure and  $\text{Sr}^{2+}$  Doped Ammonium fluoro antimonates Single Crystals: R. Mary Jenila, S. Anna Venus, **I. Vetha Potheher**, T. R. Rajasekaran, and J. Benet Charles, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
33. Electrical properties of L-alaninium fumarate (LAF): an organic nonlinear optical single crystal: J. Suja Rani, M. Ganapathy, R. Jeyasekaran, S. Rajasekar, M. Vimalan and **I. Vetha Potheher**, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
34. Studies on semiorganic single crystal: L-Leucine Hydrobromide (LEHBr): Suja Rani, M. Meena, M. Antony Arockiaraj, S. Rajasekar, M. Vimalan and **I. Vetha Potheher**, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
35. Growth and optical properties of organic nonlinear optical single crystal: S. Tamilselvan, M. Vimalan, **I. Vetha Potheher**, R. Jeyasekaran, F. Yogam and J. Madhavan, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
36. Growth and physicochemical properties of L-Asparagine-L-Tartaric acid (LAsT) – Nonlinear optical single crystal: S. Tamilselvan, M. Vimalan, **I. Vetha Potheher**, M. Antony Arockiaraj and J. Madhavan, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
37. Synthesis, Solubility, Growth and optical properties of L-Phenylalanine-Benzoic acid (LPB) nonlinear optical single crystal: S. Tamilselvan, M. Vimalan, **I. Vetha Potheher**, M. Antony Arockiaraj and J. Madhavan, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
38. Growth, thermal, mechanical and electrical properties of organic nonlinear optical single crystal: S. Tamilselvan, M. Vimalan, **I. Vetha Potheher**, M. Antony Arockiaraj, R. Jeyasekaran and J. Madhavan, CSIR Sponsored National Seminar on Novel Materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
39. Synthesis and Characterization of CdS Quantum Dots: S. Rajasekar, M. Ganapathy, R. Jeyasekaran, **I. Vetha Potheher**, M. Meena and M. Vimalan, UGC Sponsored National

Seminar on Recent Trends in Crystal Growth and Nano Materials (NSCGNM-2013), National College (Autonomous), Tiruchirappalli, March 13 – 15, 2013.

40. Thermal, optical and mechanical properties of a NLO active L-alaninium fumarate (LAF) single crystals: S. Rajasekar, J. Suja Rani, M. Ganapathy, M. Antony Arockiaraj, **I. Vetha Potheher** and M. Vimalan, UGC Sponsored National Seminar on Recent Trends in Crystal Growth and Nano Materials (NSCGNM-2013), National College (Autonomous), Tiruchirappalli, March 13 – 15, 2013.
41. Studies on optical, thermal and mechanical properties of NLO active L-lysine sulphate single crystal: S. Rajasekar, J. Suja Rani, R. Jeyasekaran, **I. Vetha Potheher**, M. Meena and M. Vimalan, UGC Sponsored National Seminar on Recent Trends in Crystal Growth and Nano Materials (NSCGNM-2013), National College (Autonomous), Tiruchirappalli, March 13 – 15, 2013.
42. Growth and characterization of organic nonlinear optical crystals of L-Threoninium picrate (LTHP): S. Rajasekar, M. Ganapathy, R. Jeyasekaran, **I. Vetha Potheher**, J. Suja Rani and M. Vimalan, UGC Sponsored National Seminar on Recent Trends in Crystal Growth and Nano Materials (NSCGNM-2013), National College (Autonomous), Tiruchirappalli, March 13 – 15, 2013.
43. Studies on semiorganic single crystal: L-Leucine Hydrobromide (LEHBr): J. Suja Rani, M. Meena, M. Antony Arockiaraj, S. Rajasekar, M. Vimalan and **I. Vetha Potheher**, National Seminar on Materials and Nano Materials, St. Xavier's College (Autonomous), Palayamkottai, March 7 & 8, 2013.
44. Preparation and characterization of CdS–TiO<sub>2</sub> nanoparticles: M. Ganapathy, R. Jeyasekaran, **I. Vetha Potheher**, M. Vimalan, P. Sagayaraj and P. Dennis Christy, National Seminar on Materials and Nano Materials, St. Xavier's College (Autonomous), Palayamkottai, March 7 & 8, 2013.
45. Electrical properties of L-alaninium fumarate (LAF): an organic nonlinear optical single crystal: J. Suja Rani, M. Ganapathy, R. Jeyasekaran, S. Rajasekar, M. Vimalan and **I. Vetha Potheher**, National Seminar on Materials and Nano Materials, St. Xavier's College (Autonomous), Palayamkottai, March 7 & 8, 2013.
46. Investigation on the Growth, Linear, Non Linear, Z-Scan and Laser Damage Threshold of TMTM single crystal: R. Jeyasekaran, **I. Vetha Potheher**, M. Vimalan, M. Ganapathy and P. Sagayaraj, National Conference on Emerging Trends in Science and Humanities (NCETSH 2013), Saveetha Engineering College, Chennai, April 5, 2013.

47. Synthesis and Characterization of  $Mn_3O_4$  nanoparticles and its electrochemical studies: P. Vigneshwaran, S. Aravindha Raja, M. Kandiban and **I. Vetha Potheher**, National Conference on Advances in Crystal Growth and Nanotechnology (ACN 2015), C. M. S. College, Kottayam, Kerala, January 15 & 16, 2015.
48. Synthesis and Characterization of MgO nanoparticles for photocatalytic applications: M. Kandiban, P. Vigneshwaran and **I. Vetha Potheher**, National Conference on Advances in Crystal Growth and Nanotechnology (ACN 2015), C. M. S. College, Kottayam, Kerala, January 15 & 16, 2015.
49. Crystal growth and Characterization of novel semi organic nonlinear optical crystal: L-Leucinium perchlorate (LLPCI): P. Baskaran, S. Rajasekar, **I. Vetha Potheher**, M. Vimalan and K. Selvaraju, National Conference on Advanced Materials (NCAM) 2015, St. Joseph's College, Trichy, February 6, 2015.
50. Investigation of electrochemical properties of  $Mn_3O_4$  nanoparticles: P. Vigneshwaran, M. Kandiban, S. Aravindha Raja and **I. Vetha Potheher**, National Conference on Advanced Materials (NCAM) 2015, St. Joseph's College, Trichy, February 6, 2015.
51. A comparative analysis of silver nanoparticles developed by green synthesis using different leaf extracts: N. Senthil Kumar, M. Shankar and **I. Vetha Potheher**, National Conference on Advanced Materials (NCAM) 2015, St. Joseph's College, Trichy, February 6, 2015.
52. A Study on photocatalytic property of MgO nanoparticles: M. Kandipan, P. Vigneshwaran and **I. Vetha Potheher**, National Conference on Advanced Materials (NCAM) 2015, St. Joseph's College, Trichy, February 6, 2015.
53. Optical and electrical properties of  $TiO_2$  nanocrystals: M. Ganapathy, **I. Vetha Potheher**, S. Harikrishna Etti, P. Dennis Christy and M. Vimalan, National Conference on Advanced Materials (NCAM) 2015, St. Joseph's College, Trichy, February 6, 2015.
54. Triethanolamine added copper tin sulfide ( $Cu_xSn_{1-x}S_y$ ) nano semiconductor thin films for photovoltaic applications: Mani P., Manikandan K., **Vetha Potheher I.** and Joseph Prince J., National Conference on Advanced Materials (NCAM) 2015, St. Joseph's College, Trichy, February 6, 2015.
55. Optical and Thermal behavior of semiorganic nonlinear optical single crystals: L-Cystine dihydrobromide (LCHB): P. Baskaran, M. Kumar, **I. Vetha Potheher**, M. Vimalan and K. Selvaraju, TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), March 19 & 20, 2015.



56. Growth and electrical properties of L-lysine monohydrochloride dehydrate (LLMHCl) single crystals: M. Kumar, **I. Vetha Potheher**, P. Saravanan, S. Tamilselvan and M. Vimalan, TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), March 19 & 20, 2015.
57. Growth and characterization of LPS single crystals: N.Y. Maharani, S. Tamilselvan, **I. Vetha Potheher**, M. Vimalan and A. Cyrac Peter, TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), March 19 & 20, 2015.
58. Synthesis Of Mgo Nanoparticle For Dye Degradation Applications: M. Kandiban, P. Vigneshwaran and **I. Vetha Potheher**, TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), March 19 & 20, 2015.
59. Green synthesis of silver nanoparticles from different leaf extracts and their comparative analysis: N. Senthil Kumar, M. Shankar and **I. Vetha Potheher**, TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), March 19 & 20, 2015.
60. Synthesis, Growth, Morphology and ESR Analysis of diaquatetrakis (thiocyanato) cobalt (II) mercury (II) N-methyl-2-pyrrolidone (CMTWMP) single crystals: M. Shankar, A. Dennis Raj, M. Vimalan, R. Jeyasekaran, **I. Vetha Potheher**, TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), March 19 & 20, 2015.
61. Synthesis of  $Mn_3O_4$  nanoparticles for electro chemical analysis: P. Vigneshwaran, M. Kandiban, S. Aravindhha Raja and **I. Vetha Potheher**, TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), March 19 & 20, 2015.
62. Facile synthesis route of  $CoMn_2O_4$  electrode and their electrochemical properties in supercapacitor application: P. Vigneshwaran, V. Venkatachalam, M. Kandiban, R. Jayavel and **I. Vetha Potheher**, National Conference on Advanced Functional Materils (NCAFM-2015), May 8 & 9, 2015.
63. Electrochemical Properties of Hetarolite ( $ZnM_2O_4$ ) Electrode Material for High Energy Storage Supercapacitor Applications: M. Kandiban, V. Venkatachalam, P. Vigneshwaran, R. Jayavel and **I. Vetha Potheher**, National Conference on Advanced Functional Materials (NCAFM-2015), May 8 & 9, 2015.

(V) Books Published with ISBN number/ISSN number

Title of the Book: **GROWTH AND PHYSICOCHEMICAL PROPERTIES OF METALLO ORGANIC NLO CRYSTALS**

ISBN Number: **978-3-8383-8753-6**

Publisher: **Lambert Academic Publishing AG & Co, Germany.**

#### 14. CONFERENCES/WORKSHOPS/SEMINAR/ SHORT TERM REFRESHER COURSE ATTENDED

1. Seminar on “Uses of Renewable Energy & Energy Conservation for Educational Institutions” held at Thiagarajar College of Engineering, Madurai.(Dec 13, 2003).
2. DAE Solid State Physics Symposium held at Gurunanak Dev University, Amristar. (December 26<sup>th</sup> – 30<sup>th</sup>, 2004).
3. National Symposium on Crystal Growth and Characterization held at Loyola College, Chennai. (September 29<sup>th</sup> & 30<sup>th</sup>, 2005).
4. 5<sup>th</sup> DAE – BRNS National Laser Symposium (NLS – 2005) held at VIT, Vellore (December 7<sup>th</sup> – 10<sup>th</sup>, 2005).
5. National conference on Preparation and Characterization of Crystalline Materials (PADIKA 2006) held at S. T. Hindu College, Nagercoil. (January 19<sup>th</sup> – 21<sup>st</sup>, 2006).
6. Seminar on Future Trends in Materials and Characterization held at Loyola College, Chennai. (February 28<sup>th</sup>, 2006).
7. Workshop on Thin film Technology (WOTT-2006) held at National Institute of Technology, Trichy (NITT). (March 24<sup>th</sup> & 25<sup>th</sup>, 2006).
8. National Conference on Application Oriented Materials (NCAOM 2006) held at SRM Institute of Science and Technology, Deemed University, Kattankulathur – 603 203. (April 21<sup>st</sup> & 22<sup>nd</sup>, 2006).
9. National conference on Advances in Technologically Important Crystals, held at Department of Physics, Delhi University, Delhi – 110 007 (October 12<sup>th</sup> – 14<sup>th</sup>, 2006).
10. 11<sup>th</sup> National seminar on Crystal Growth, held at SSN College of Engineering, SSN nagar, Chennai – 603 110 (December 7<sup>th</sup> – 9<sup>th</sup>, 2006).
11. Second National Symposium on Nonlinear Optical Crystals and Modeling in Crystal Growth, held at Department of Physics, Anna University, Chennai – 600 025 (March 26<sup>th</sup> & 27<sup>th</sup>, 2007).

12. National seminar on Advances in Materials Science, held at Department of Physics, Loyola College, Chennai – 600 034 (February 28<sup>th</sup>, 2007).
13. Seminar on Curriculum Development – New Perspectives and Innovative Approaches, held at St. Xavier's College, Palayamkottai – 627 002 (September 21<sup>st</sup> & 22<sup>nd</sup>, 2007).
14. 7<sup>th</sup> DAE – BRNS National Laser Symposium (NLS – 7), held at Applied Physics department, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara (December 17<sup>th</sup> – 20<sup>th</sup>, 2007).
15. 52<sup>nd</sup> DAE Solid State Physics Symposium held at University of Mysore, Mysore (December 27<sup>th</sup> – 31<sup>st</sup>, 2007).
16. Seminar on Teacher Empowerment for Classroom Effectiveness held at St. Xavier's College, Palayamkottai – 627 002 (February 1<sup>st</sup> and 2<sup>nd</sup>, 2008).
17. Fourth State level seminar on Recent Advances in Physics held at Scott Christian College, Nagercoil – 629 003 (February 22<sup>nd</sup>, 2008).
18. 6<sup>th</sup> National Conference on Emerging Trends in Crystal Growth and Nano Materials (NECAN – 2008) held at Department of Physics, Loyola College, Chennai – 600 034 (February 28<sup>th</sup> & 29<sup>th</sup>, 2008).
19. National Seminar on Recent Advances in Physics held at Department of Physics, St. Xavier's College, Palayamkottai – 627 002.
20. Bridge course on Physics conducted by Anna University, Chennai – 600 025 (June 20<sup>th</sup> and 21<sup>st</sup>, 2014).
21. Attended Faculty Development and Training Program (FDTP) on Engineering Physics I (PH2111), conducted by Centre for Faculty Development, Anna University Chennai, from 20 to 27, June 2012.
22. International Conference on Lasers & Their Applications (INCOLA – 2000) organized by the Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli – 620 002. (March 1- 4, 2000)
23. XXXI Symposium of the Optical Society of India, International Conference on Optics and Optoelectronics (ICOL-2005) held at IRDE, Dehradun (Dec 12 –15, 2005).
24. Eighth International Conference on Optoelectronics, Fiber Optics and Photonics (PHOTONICS 2006), Organized by Hyderabad University, Hyderabad (Dec 13 – 16, 2006).

25. International conference on Functional Materials for Advanced Technology (ICFMAT – 2009), Organized by Velammal Engineering College, Chennai – 600066, 29<sup>th</sup> & 30<sup>th</sup> January 2009.
26. International conference on Materials Science and Technology (ICMST 2012), Organized by St. Thomas College, Pala, Kottayam, Kerala – 686 574, June 10 – 14, 2012.
27. International conference on Advances in New Materials (ICAN 2014), Organized by Department of Inorganic Chemistry, University of Madras, Chennai – 600 025, June 20 & 21, 2014.
28. International conference on Materials Science and Technology (ICMST 2016), Organized by St. Thomas College, Pala, Kottayam, Kerala – 686 574, June 5 – 8, 2016.
29. Attended UGC sponsored Orientation program conducted by UGC-Academic Staff College, Pondicherry University, Pondicherry from 19-12-2012 to 15-01-2013.
30. Attended TEQIP – II sponsored Faculty Development Programme on Advances in Physics and Applied Research for Technologists – 2013 (APART 2013), conducted by the Department of Physics, Anna University BIT Campus, Tiruchirappalli, from 29-11-2013 to 06-12-2013.
31. Attended TEQIP – II sponsored Faculty Development Programme on New Perspectives in Drug Discovery And Progressive Technological Developments (NPDPTD- 2015), conducted by the Department of Pharmaceutical Technology, Anna University BIT Campus, Tiruchirappalli, from 04-05-2015 to 17-05-2015.

#### 15. CONFERENCES/WORKSHOPS/SEMINAR ORGANISED

- ✓ Served as Organizing Secretary for the TEQIP – II sponsored two days National Seminar on Materials Science and Engineering (NSMSE), 03-12-2013 to 04-12-2013.
- ✓ Served as Organizing Committee member for the TEQIP – II sponsored Faculty Development Program (FDP) on Advances in Physics and Applied Research for Technologists – 2013 (APART 2013), 29-11-2013 to 06-12-2013.
- ✓ Served as Co-coordinator for the TEQIP – II sponsored two days National Workshop on Optoelectronics and Advanced Materials (OPAM – 2013), 12-12-2013 to 13-12-2013.
- ✓ Served as Convener for the CSIR sponsored National Science Day Celebrations – 2014, Regional Level Exposition, 28-02-2014.
- ✓ Served as Steering Committee member for the TEQIP – II sponsored National Conference on Physics of Bulk and Nano Materials & Devices (P-BAND-2015), 19-03-2015 to 20-03-2015.

- ✓ Served as Coordinator for the TEQIP – II sponsored Two Weeks FDP on Advanced Research in Materials for Engineering and Technological Applications (ARMETA-2015), 17-07-2015 to 30-07-2015.
- ✓ Served as Treasurer for the TEQIP – II sponsored International Conference on Recent Advances in Materials (ICRAM-15), 16-10-2015 to 17-10-2015.
- ✓ Served as Coordinator for the TEQIP – II sponsored Two Weeks FDP on Recent Advancements in Materials (FDP RAM-'16), 11-07-2016 to 24-07-2016.

16. Other contribution (if any )

**Invited Lectures Delivered:**

- ✓ Delivered a special lecture on **“Renewable Energy and Its Applications”** organized by the Department of Physics & Mathematics, Meenakshi Chandrasekaran College of Arts and Science, Pattukkottai – 614 626 (15<sup>th</sup> February 2010).
- ✓ Delivered an invited speak on **“Introduction to Nonlinear Optical Materials and Bimetallic Thiocyanates”** at DST Sponsored National Seminar on Recent Trends in Physics, Shivani Engineering College, Tiruchirappalli, March – 18-19, 2011.
- ✓ Delivered a special lecture on **“Crystal Growth and its Applications”** at Mookambigai College of Engineering, Tiruchirappalli, November 10, 2011.
- ✓ Delivered a lecture on **“Basic Concept of Spectroscopy”** at Sri Saradha College for Women, Perambalur, February 9, 2012.
- ✓ Delivered invited lecture on **“The pristine applications of Science in Technology for future applications”** at Bon Secures College, Tanjore, July 19, 2012.
- ✓ Delivered a invited lecture on **“Research methodology in crystal growth and characterization”** at Sardar Raja College of Engineering, Alangulam, August 18, 2012.
- ✓ Delivered invited lecture on **“Development of metallo-organic NLO crystals for frequency conversion applications”** at Srimathi Indra Gandhi College for Women, Trichy, August 28, 2012.
- ✓ Delivered invited lecture on **“Frequency conversion applications of Lewis base adducts of metal-organic nonlinear optical single crystals”** at CSIR sponsored National seminar on novel materials (NSNM 2013), Shivani Engineering College, Tiruchirappalli, March 19, 2013.
- ✓ Delivered a Special Lecture on **“Transistor based Electronic Circuits and their Applications”** at two days Skill Based Training Programme, organized by the

Entrepreneurship Development Cell and Department of Physics, Mother Teresa Women's University, Kodaikanal, 12-09-2013 and 13-09-2013.

- ✓ Delivered a Invited Lecture on “**Development of Metallo – Organic NLO Crystals and their Applications**” at Curriculum Development Cell sponsored two days Workshop on Research in Crystal Growth Processes and Methods, organized by the Department of Physics, Mother Teresa Women's University, Kodaikanal, 23-09-2013 and 24-09-2013.
- ✓ Delivered a **Chief Guest address** at Thirumalai Engineering College, Kanchipuram for the Inauguration of EMPAC Association, 09-11-2013.
- ✓ Delivered a guest lecture on “**Basic methods of crystal growth**” at cluster college meeting, organized by the Department of Physics, ANJA College, Sivakavi, 15-02-2014.
- ✓ Delivered an invited lecture on **FT-IR** at Hands on Training Programme on sophisticated instruments, organized by the Department of Pharmaceutical Technology, Anna University BIT Campus, Tiruchirappalli, 20-02-2015.
- ✓ Delivered an invited lecture on **Basic Techniques in Crystal Growth** at Department of Physics, Mother Teresa Women's University, Kodaikanal, 24-8-2016.
- ✓ Delivered a guest lecture on **Media Awareness** for the NSS students of Mother Teresa Women's University, Kodaikanal, 16-02-2017.

**Membership:**

- Life member in **Indian Association for Crystal Growth.**
- Life member in **Materials Research Society of India.**
- Life member in **Indian Laser Association.**

**Signature**

**HOD**

**Dean**