TEACHER PROFILE

1. Name of the Faculty : Dr. A.V. CHANDRASEKHAR
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EDUCATIONAL QUALIFICATIONS

S. NO.	QUALIFICATION	COURSE	UNIVERSITY	YEAR	PERCENTAGE
1	M.Sc.	Physics	S.V. University, Tirupati	1989	55.1
2	M.Phil.	Physics	S.V. University, Tirupati	1992	66
3	Ph.D.	Physics	S.V. University, Tirupati	1997	Awarded

TEACHING EXPERIENCE:

S. No.	Designation	Name of the College	Subject Taught	No. of years	No. of Times Spot Valuation Attended
1	Assistant Professor	S.V. Arts College, Tirupati	Physics	15 years	24
2	Junior Lecturer	S.P.W. Junior College, Tirupati	Physics	14 Years	22

CAREER PROFILE

Teaching Experience	Area of Specialization	Course	Subjects
2006 to till date	Physics, Modern Physics, Nanoscience Quantum Mechanics	1st B. Sc.. 3rd B.Sc. M.Sc. Final	Mechanics, Waves & Oscillations Modern Physics, Nanoscience Quantum Mechanics
1992 to 2006	Physics	Intermediate	Physics

REFRESHER COURSES ATTENDED

- Refresher Course in Information Technology, Academic Staff College, S.V. University, Tirupati, India, June 1 to 20th , 2009.
- Refresher Course in Disaster Management, Human Resource Development Centre, S.V. University, Tirupati, July 11-30, 2016.
- Refresher Course in Environmental Studies, Human Resource Development Centre, S.V. University, Tirupati, August 13 to September 1, 2018

LIST OF PAPERS PUBLISHED IN JOURNALS

1. Mn^{2+} and Fe^{3+} impurities in ardennite by spectroscopic investigations. **A.V. Chandrasekhar**, M.Venkataramanaiah, B.J.Reddy & P.S.Rao: *Indian Journal of Pure and Applied Physics (India)*, **34**, 193-196 (1996).
2. Electronic spectra of cobaltite. R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P.S.Rao: "Modern Applications of EPR/ESR from Biophysics to Materials Science" Ed. C.Z.Rudowiz, *Springer (Singapore)*, **1**, 523-527 (1997).
3. Electronic spectra of pseudomalachite and olivenite. **A.V.Chandrasekhar**, M.Venkataramanaiah, R.V.S.S.N.Ravikumar, B.J.Reddy & Y.P.Reddy: *Indian Journal of Pure & Applied Physics (India)*, **35**, 71-72 (1997).
4. Cu(II), Mn(II) in tetragonal site in chrysocolla. R.V.S.S.N.Ravikumar, N.Madhu, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Radiation Effects and Defects in Solids (USA)*, **143**, 263-272 (1998).
5. Optical absorption spectra of nickel and cobalt doped $ZnKPO_4.6H_2O$. N.Madhu, R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, B.J.Reddy & Y.P.Reddy: *Physica Scripta (Sweden)*, **58**, 345-347 (1998).
6. Optical absorption spectra of transition metal doped $ZnKPO_4.6H_2O$ single crystals. R.V.S.S.N.Ravikumar, N.Madhu, **A.V.Chandrasekhar**, B.J.Reddy & Y.P.Reddy: *Bulletin of Electrochemistry (India)*, **14**, 344-348 (1998).
7. Tetrahedral site of Cu(II) in bornite and bournonite. M.Venkata Ramanaiah, R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Ferroelectrics (USA)*, **216**, 27-34 (1998).
8. Orthorhombic site symmetry of Cr^{3+} in $ZnNH_4PO_4.6H_2O$ crystals. R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, S.N.Rao, N.Madhu, B.J.Reddy & Y.P.Reddy: *Crystal Research and Technology (Germany)*, **34**, 911- 914 (1999).
9. Optical absorption and EPR spectral studies on vanadyl doped zinc phosphate glass. R.V.S.S.N.Ravikumar, B.C.Jamalaiah, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P. Sambasiva Rao: *Journal of Alloys and Compounds (UK)*, **287**, 84-86 (1999).
10. Spectroscopic investigations of Mn^{2+} in wavellite. **A.V.Chandrasekhar**, R.V.S.S.N.Ravikumar, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Asian Chemistry Letters (India)*, **3**, 30-35 (1999).
11. Spectroscopic investigations of Cu^{2+} in zinc phosphate glass. R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, B.J.Reddy & Y.P.Reddy: *Asian Journal of Physics (India)*, **8**, 223-226 (1999).

12. EPR and optical absorption spectra of Cu(II) doped zinc potassium phosphate hexahydrate. N.Madhu, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy, R.V.S.S.N.Ravikumar & P.S.Rao: Indian: *Journal of Chemistry (India)*, **38A**, 590-591 (1999).

13. Spectroscopic studies on Cr-tremolite. **A.V.Chandrasekhar**, R.V.S.S.N.Ravikumar, B.J.Reddy, Y.P.Reddy & P.Sambasiva Rao: *Asian Journal of Physics (India)*, **9**, 405-409 (2000).

14. Structural and spectral studies of $ZnKPO_4.6H_2O$ crystals. R.V.S.S.N.Ravikumar, Y.P.Reddy, K.Ikeda, B.J.Reddy & **A.V.Chandrasekhar**: *Crystal Research and Technology (Germany)*, **36**, 1429-1433 (2001).

15. Single crystal EPR and optical studies of paramagnetic ions doped zinc potassium phosphate hexahydrate Part I: Cu(II)-a case of orthorhombic symmetry. P.Sambasiva Rao, T.M.Rajendiran, R.Venkatesan, N.Madhu, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & R.V.S.S.N.Ravikumar: *Spectrochimica Acta (UK)*, **57A**, 2781-2787 (2001).

16. Single crystal EPR and optical studies of paramagnetic ions doped zinc potassium phosphate hexahydrate - Part II: VO(II)-a case of substitutional site. R.V.S.S.N. Ravikumar, N.Madhu, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy, P. Sambasiva Rao, T.M.Rajendiran & R.Venkatesan: *Spectrochimica Acta (UK)*, **57A,** 2789-2794 (2001).

17. Optical and EPR spectra of Ti^{3+} in lamprophyllite from Kola Peninsula, Russia. B.J.Reddy, Jun Yamauchi, Y.P.Reddy, R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar** & M.Venkata-ramanaiah: *Neues Jahrbuch fur Mineralogie Monatshefte, (Germany)*, **2002(3)**, 138-144 (2002).

18. Tetragonal site of transition metal ions doped sodium phosphate glasses. R.V.S.S.N.Ravikumar, V.Rajagopal Reddy, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Journal of Alloys and Compounds (UK)*, **337,** 272-276 (2002).

19. Distorted octahedral sites of Cr^{3+} in sodium phosphate glasses. **A.V.Chandrasekhar**, R.V.S.S.N.Ravikumar, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Glass Technology, (UK)*, **43,** 32-33 (2002).

20. EPR and optical absorption spectra of Mn(II) ions in sodium phosphate glasses. **A.V.Chandrasekhar**, R.V.S.S.N.Ravikumar, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Physics Chemistry of Glasses (UK)*, **43**, 173-175 (2002).

21. EPR and optical absorption spectroscopy on minerals. B.J.Reddy, JunYamauchi, Y.P.Reddy, **A.V.Chandrasekhar** & R.V.S.S.N.Ravikumar: EPR in the 21st Centure: Basic and applications to materials, life and Earth Sciences, Ed. A. Kawamori, Jun Yamauchi & H.Ohto, Proceedings of Third Asia-Pacific EPR/ESR Symposium (APES`01) Elsevier Pub. 575-584 (2002).

22. Spectroscopic investigations on Co(II) doped ZAPH and CAPH crystals. R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, B.J.Reddy, Y.P. Reddy & Jun Yamauchi: *Ferroelectrics (USA)*, **274,** 127-134 (2002).

23. X-ray powder diffraction, DTA and vibrational studies of $CdNH_4PO_4.6H_2O$ crystals. R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & K.Ikeda: *Crystal Research and Technology (Germany)*, **37,** 1127-1132 (2002).

24. Single crystal EPR and optical studies of Cu(II) doped zinc ammonium phosphate hexa-hydrate: A case of rhombic distortion. E.Poonguzhali, R.Srinivasan, R.V.S.S.N.Ravikumar, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P.Sambasiva Rao: *Physica Scripta (Sweden)*, **66**, 391-394 (2002).

25. EPR and optical studies on transition metal doped $LiRbB_4O_7$ glasses. R.V.S.S.N.Ravikumar,R.Komatsu, Ko.Ikeda, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Journal of Physics and Chemistry of Solids (UK)*, **64,** 261-264 (2003).

26. Optical absorption spectrum of dysprosium doped zinc phosphate glass. **A.V.Chandrasekhar**, A.Radhapathy, B.J.Reddy, Y.P.Reddy, L.Ramamoorthy & R.V.S.S.N. Ravikumar: *Optical Materials (USA)*, **22**, 215-220 (2003).

27. Electron paramagnetic resonance and optical absorption spectra of Cr^{3+} ions in cadmium phosphate glass. R.V.S.S.N.Ravikumar, Ryuichi Komatsu, Ko Ikeda, **A.V.Chandrasekhar**, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Solid State Communications (UK)*, **126**, 251-253 (2003).

28. Optical and EPR studies of iron bearing phosphate minerals: satterlyite, gormanite from Yukon Territory, Canada. **A.V.Chandrasekhar**, M.Venkata Ramanaiah, B.J.Reddy, Y.P.Reddy, P.S.Rao & R.V.S.S.N. Ravikumar: *Spectrochimica Acta (UK)*, **59A,** 2115-2121 (2003).

29. Spectroscopic studies of copper doped $ARbB_4O_7$ (A=Na, K) glasses. R.V.S.S.N. Ravikumar, R.Komatsu, K.Ikeda, **A.V.Chandrasekhar**, L.Ramamoorthy, B.J.Reddy, Y.P.Reddy & P.S.Rao: *Physica B Condensed Matter (The Netherlands)*, **334**,398-402 (2003).

30. Site Symmetry of Mn(II) and Co(II) in zinc phosphate glass. R.V.S.S.N.Ravikumar, K.Ikeda, **A.V.Chandrasekhar**, Y.P.Reddy, P.S.Rao & Jun Yamauchi: *Journal of Physics Chemistry of Solids (UK)*, **64**, 2433-2436(2003).

31. Spectroscopic studies of transition metal doped sodium phosphate glasses. R.V.S.S.N. Ravikumar, **A.V.Chandrasekhar**, L.Ramamoorthy, B.J.Reddy, Y.P.Reddy, Jun Yamauchi & P.S.Rao: *Journal of Alloys and Compounds (UK)*, **364**, 176-179(2004).

32. Spectral investigations of iron bearing flouroapatite. R.V.S.S.N.Ravikumar, N.Madhu, **A.V.Chandrasekhar**, B.J.Reddy, P.S.Rao & Y.P.Reddy: *Radiation Effects and Defects in Solids (UK)*, **159**, 87-91 (2004).

33. Optical and EPR investigations on smithsonite minerals. B.J.Reddy, J.Yamauchi, M.Venkataramanaiah, **A.V.Chandrasekhar** & R.V.S.S.N.Ravikumar: *Radiation Effects and Defects in Solids (USA)*, **159,** 141-147 (2004).

34. Identification of chromium and nickel sites in zinc phosphate glasses. R.V.S.S.N. Ravikumar, J.Yamauchi, **A.V.Chandrasekhar**, Y.P.Reddy & P.S.Rao: *Journal of Molecular Structure (UK)*, **740**, 169-173 (2005).

35. Tetrahedral site of iron in natural mineral: sodalite. R.V.S.S.N.Ravikumar, J.Yamauchi, **A.V.Chandrasekhar**, Y.P.Reddy & P.S. Rao: *Radiation Effects and Defects in Solids (USA)*, **160**, 109-115 (2005).

36. Investigations on vanadyl doped $ARbB_4O_7$ (A=Li, Na, K) glasses by optical and EPR studies. R.V.S.S.N.Ravikumar, J.Yamauchi, K.Ikeda, R.Komatsu, **A.V. Chandrasekhar**, Y.P. Reddy & P.S. Rao: *Materials Physics and Chemistry (UK)*, **103**, 5-8 (2007).

37. Strontium Tetraborate glasses doped transition metal ions: EPR and optical absorption study. R.V.S.S.N.Ravikumar, K. Kayalvizhi, **A.V. Chandrasekhar**, Y.P. Reddy, J.Yamauchi, K. Arunakumari & P.S.Rao: *J. Applied Magnetic Resonance (The Netherlands)*, **33**, 185-195 (2008).

38. X-ray powder diffraction, TG-DTA and IR studies of zinc ammonium phosphate hexahydrate crystal. R.V.S.S.N. Ravikumar, **A.V.Chandrasekhar**, Ch.Rama Krishna & Y.P. Reddy: *Opto-Electronics and Advanced Materials –Rapid Communications (Romania)*, **4,** 215-219 (2010).

39. Synthesis and Spectroscopic characterization of Mn(II) doped organic amine templated chlorocadmiumphosphate $CdHPO_4Cl.[H_3N(CH_2)_6NH_3]_{0.5}$ Crystals. Ch.Rama Krishna, U.S.Udayachandran Thampy, D.V. Sathish, Ch.Venkata Reddy, **A.V.Chandrasekhar**, Y.P.Reddy, P.S.Rao & R.V.S.S.N.Ravikumar: *Journal of Coordination Chemistry (UK)*, **64**, 4276-4285 (2011).

40. Synthesis and spectroscopic characterization of Cu(II) containing chlorocadmium-phosphate $Cd(HPO_4)Cl.$ $[H_3N(CH_2)_6NH_3]_{0.5}$ crystals. Ch.Rama Krishna, Ch.Venkata Reddy, U.S. Udayachandran Thampy, **A.V. Chandrasekhar**, Y.P.Reddy, P. Sambasiva Rao & R.V.S.S.N.Ravikumar: *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (USA)*, **85**,160-164 (2012).

41. Anomalous propagation conditions observed over a tropical station using high resolution GPS radiosonde observations. Gouse Basha, M. Venkat Ratnam, G. Manjula and **A.V.Chandrasekhar:** *Radio Science (USA)*, **48**, 42-49 (213).

42. Diurnal variation of ducts observed over a tropical station, Gadanki using high resolution GPS radiosonde observations. G. Manjula, M. Roja Raman, M. Venkat Ratnam, **A.V. Chandrasekhar and** S. Vijaya Bhaskara Rao: *Radio Science (USA)*, (2015).

43. Investigation of ND^{3+}-Doped lithium sodium bismuth borate glassa for NIR applications. M. Parandamaiah, S. Venkatramana Reddy, **A. V. Chandrasekhar:** *International Journal of Advanced Research in Science, Engineering and Technology (India)*, **3**, 9 (2016).

44. Fabrication of core-shell CdO/ZnS nanocomposites: transition metal ions. R. Joyce Stella, **A.V.Chandrasekhar**, Y. Hanumantha Rao, R. V. S. S. N Ravikumar. *Journal of Chemical and Pharmaceutical Sciences*, **10**, 611-614 (2017).

45. Quantification of Surface gusts. C. Nrisimha Ramkiran, **A. V. Chandrasekhar** *Journal of Emerging Technologies and innovative Research (India)*, **5**, 225-232 (2018).

46. Optical and NIR luminescence spectral studies: Nd^{3+}-doped borosilicate glasses. M Deepa, Ramachari Doddoji, C.S.Dwraka Viswanath, **A.V.Chandrasekhar:** *Journal of Luminescence*, **213**, 191-196 (2019).

47. Structural and optical properties of Sm^{3+}-doped borate glasses for luminescent applications. M Deepa, Ramachari Doddoji, **A. V. Chandrasekhar:** *Optical and Quantum Electronics*, **51**, 395 (2019).

48. Long-term changes in land surface temperature due to land use land cover over a mega city in south India. G. Rambabu, P. Prasad, M. Roja Raman, M. Venkata Ratnam, S. Srinivasa Gowd, **A.V. Chandrasekhar** and S. Vijaya Bhaskara Rao: *Journal of Indian Geophysical Union*, **24(6)**, 1-14 (2020).

49. Observation of structural, spectral characterizations and correlation of physical parameters on Vo^{2+} ions doped cadmium lithium sodium borate glasses. M. Avinash, S.J.Basha, V.Khidhirbrahmendra, **A.V.Chandrasekhar**, R.V.S.S.N. Ravikumar: *Journal of Metals, Materials and Minerals*, **30(3)** (2020).

50. NIR emission from Nd^{3+}-doped $Aa_2o + Li_2O + CdO + B_2O_3$ glasses: a study of structural, physical and radiative properties. M Deepa, Ramachari Doddoji, **A.V. Chandrasekhar:** *Journal of Optics*, **1** (01) (2021).

51. Spectral Investigations of Mn^{2+} in natural mineral Zincite. **A.V. Chandrasekhar**, R.V.S.S.N. Ravikumar, B.J. Reddy, Y.P. Reddy & P.S. Rao: *Materials Physics and Chemistry (UK).*

LIST OF PAPERS PRESENTED AT NATIONAL CONFERENCES

1. Spectral studies of nickel doped ZPPH crystals. N. Madhu, R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: National Seminar on Materials Science: An Indian Scene, Bharathidasan University, Trichy (India) Jan 19-20 (1998).

2. Tetragonal distortion of Fe^{3+} and Fe^{2+} ions in microcline. R.V.S.S.N. Ravikumar, M.V. Ramanaiah, **A.V. Chandrasekhar**, B.J. Reddy, Y.P. Reddy and P.S. Rao: National Conference on Advances in Condensed Matter Physics, University of Pondicherry, Pondicherry (India) Feb 26-28 (1998).

3. Electronic spectra of Bornite mineral. R.V.S.S.N. Ravikumar, M. Venkataramanaiah, B.J. Reddy, Y.P. Reddy, **A.V. Chandrasekhar** and P.S. Rao: National Conference on Advances in Condensed Matter Physics, University of Pondicherry, Pondicherry (India) Feb 26-28 (1998). Spectroscopic investigations of Cu^{2+} in zinc phosphate glass.

4. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: National Seminar on Spectroscopy, Lasers and Laser Applications, Cochin University of Science and Technology, Kochi (India) March 23-26 (1998).

5. Optical absorption spectra of transition metal doped $ZnKPO_4 6H_2O$ single crystals. R.V.S.S.N. Ravikumar, N. Madhu, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: CECRI Golden Jubilee year Seminar Cum Workshop on Materials & Characterization, Central Electro-chemical Research Institute, Karaikudi 630 006 (India) July 13-17 (1998).

6. X-ray, TGA-DTA and IR spectra of CAPH crystals. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: National Seminar on Recent Trends in Solid State Sciences, Dept. of Physics, S.V.University, Tirupati (India) Nov. 23-24 (1998).

7. Optical and EPR spectral studies on VO^{2+}: $ZnKPO_4 6H_2O$. N. Madhu, R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: Eighth National Seminar on Crystal Growth, Anna University, Chennai (India) Feb. 3-5 (1999).

8. Spectroscopic Investigations of Mn^{2+} in wavellite. **A.V. Chandrasekhar**, R.V.S.S.N. Ravikumar, B.J. Reddy, Y.P. Reddy and P.S. Rao: National Conference on Lasers and Spectroscopy, Meerut College, Meerut (India) Feb.25-28 (1999).

9. Electronic spectra of cobalt doped CAPH crystals. R.V.S.S.N. Ravikumar, M. Venkataramanaiah, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: National Seminar on Recent Trends in Materials Science, Dept. of Physics, S.V.University, Tirupati, Nov.25-27 (1999).

10. Structural and spectral studies of $ZnKPO_4.6H_2O$ crystals. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: Symposium on Fundamentals of Crystal Growth, Anna University, Chennai, Nov. 6-7 (2000).

11. Characterization of Co(II) doped CAPH crystals by Optical and EPR studies. **A.V. Chandrasekhar**, R.V.S.S.N. Ravikumar, M. Venkataramanaiah, B.J. Reddy, Y.P. Reddy, Jun Yamauchi: National Seminar on Recent Trends in Crystal Growth Processes and Applications, Nehru Memorial College, Puthanampatti, Tiruchirapalli, March 9-10 (2001).

12. Spectroscopic studies on VO^{2+} and Cu^{2+} doped Sodium Phosphate glasses. V. Rajagopal Reddy, R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy, Y.P. Reddy and P.S. Rao: National Seminar on Current Trends in Materials Science, Mahatma Gandhi University, Kottayam, March 23-24 (2001).

13. Optical absorption spectra of transition metal doped sodium phosphate glasses. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: National Seminar on Solid State Spectroscopy (NSSS-2001), S.V.University, Tirupati, Aug.29-31 (2001).

14. Spectroscopic investigations on Co^{2+} doped ZAPH and CAPH crystals. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: National Seminar on Solid State Spectroscopy (NSSS-2001), S.V.University, Tirupati, Aug.29-31 (2001).

15. Spectroscopic studies of smithsonite minerals from USA and UK. B.J. Reddy, Jun Yamauchi, Y.P. Reddy, R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar** and M. Venkataramaniah: National Seminar on Solid State Spectroscopy (NSSS-2001), S.V. University, Tirupati, August 29-31 (2001).

16. Optical absorption spectrum of dysprosium doped Zinc phosphate glass. **A.V. Chandrasekhar**, A. Radhapathy, B.J. Reddy, Y.P. Reddy, L. Ramamoorthy and R.V.S.S.N. Ravikumar: National Seminar on Solid State Spectroscopy (NSSS-2001), S.V. University, Tirupati, August 29-31 (2001).

17. EPR and optical studies of copper doped $ARbB_4O_7$ (A=Na, K) glasses. R.V.S.S.N. Ravikumar, R. Komatsu, K. Ikeda, **A.V. Chandrasekhar**, L. Ramamoorthy, B.J. Reddy, Y.P. Reddy and P.S. Rao: National Seminar on Recent Trends in Optoelectronic Materials and Devices (NSRTOM-2002) S.V. University, Tirupati, Nov., 21-22 (2002).

18. X-ray powder diffraction, DTA and IR studies on $ZnNH_4PO_4.6H_2O$ crystals. R.V.S.S.N. Ravikumar, R. Komatsu, K. Ikeda, **A.V. Chandrasekhar**, Y.P. Reddy and L. Ramamoorthy: National Seminar on Recent Trends in Opto-electronic Materials and Devices (NSRTOM-2002) S.V. University, Tirupati, Nov., 21-22 (2002).

19. Spectroscopic studies on transition metal ions doped sodium phosphate glasses. **A.V. Chandrasekhar,** R.V.S.S.N. Ravikumar, B.J. Reddy, L. Ramamoorthy, P.S. Rao, Jun Yamauchi and Y.P. Reddy: National Seminar on Recent Trends in Opto-electronic Materials and Devices (NSRTOM-2002) S.V. University, Tirupati, Nov., 21-22 (2002).

20. CW-ESR and optical absorption studies on Cu^{2+} doped SrB_4O_7 glass. R.V.S.S.N. Ravikumar, J. Yamauchi, **A.V. Chandrasekhar**, Y.P. Reddy and P.S. Rao: National Symposium on Electron Magnetic Resonance Spectroscopy (NSEMRS), Pondicherry University, Pondicherry, Feb. 4-5 (2005).

21. EPR and optical spectral investigations on natural zincite. **A.V.Chandrasekhar**, R.V.S.S.N.Ravikumar, J.Yamauchi, Y.P.Reddy and P.S.Rao: National Symposium on Electron Magnetic Resonance Spectroscopy (NSEMRS), Pondicherry University, Pondicherry, Feb. 4-5 (2005).

22. Absorption and EPR studies on transition metal doped strontium tetraborate glasses. R.V.S.S.N. Ravikumar, V. Vijaya, P.S. Rao, **A.V. Chandrasekhar** and Y.P. Reddy: National Seminar on Advances in Amorphous Materials (NAAM 2007) Acharya Nagarjuna University PG Centre, Nuzvid, Feb.1-3, (2007).

23. Distorted octahedral sites of Cr^{3+} in $ARbB_4O_7$ (A = Li, Na, K) glasses. K.S.N. Murthy, N. Krishna Jyothi, P. Narayana Murthy, R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, P.S. Rao and Y.P. Reddy: National Seminar on Advances in Amorphous Materials (NAAM 2007) Acharya Nagarjuna University PG Centre, Nuzvid, Feb.1-3, (2007).

24. EPR and Optical spectral investigations on natural mineral covellite. G. Subhashchandra Bose, P. Narayana Murty, **A.V. Chandrasekhar**, P.S. Rao, Y.P. Reddy and R.V.S.S.N. Ravikumar: National Conference on Advanced Materials Devices and Technologies (NCAMDT-2008), S.V. University, Tirupati, Feb., 20-22 (2008).

25. EPR and Optical studies on natural mineral diopside. **A.V.Chandrasekhar**, B.Sekhar, Y.P. Reddy P. S. Rao and R.V.S.S.N. Ravikumar: National Conference on Emerging Materials, (NCEM-2009), NBKR Science & Arts College, Vidyanagar, July 18-19, (2009).

26. Spectral investigations on Cu^{2+} doped Barium borate nano powders. Ch. Venkata Reddy, Ch. Rama Krishna, Y.P. Reddy, **A.V. Chandrasekhar**, P.S. Rao, and R.V.S.S.N. Ravikumar: National Conference on Materials for Energy Storage and Conversion (NCMESC-2010), S.V.University, Tirupati, Jan. 23-24, (2010).

27. Spectroscopic Investgations of Tennantite from Tsumeb, Namibia. G.S.C.Bose, **A.V.Chandrasekhar**, Ch.Venkata Reddy, Y.Srinivasa Rao, P.S.Rao and R.V.S.S.N.Ravikumar: AP Science Congress 10, Jawaharlal Nehru Technological University, Hyderabad, 18-20 Nov, 2010.

28. Grading of natural minerals with their trace elements: Spectroscopic investigations. G.S.C. Bose, G. Rama Sundari, Ch.Venkata Reddy, **A.V.Chandrasekhar**, P.S.Rao and R.V.S.S.N.Ravikumar: National Seminar on Development and sustainability of earth resources and Environment (DSERE 2011) Adikavi Nannaya University, Rajahmundry, 12-13, March 2011.

29. Spectroscopic investigations into the nature of the Mn(II) active sites in $CdHPO_4Cl$ $[H_3N(CH_2)_6NH_3]_{0.5}$ Crystals. Ch.Rama Krishna, U.S.Udayachandran Thampy, **A.V.Chandrasekhar**, D.V.Sathish, Ch.Venkata Reddy, Y.P.Reddy, P.S.Rao and R.V.S.S.N.Ravikumar: Multifunctional Nanomaterials and Nanocomposites (NCMNN2011) Bharathiar University, Coimbatore, March 24-25, 2011.

30. Ducting Climotology over tropical region, **A.V. Chandrasekhar**: 17th National Space Science Symposium, S.V. University, Tirupati, February 14-17, 2012.

31. One day National Seminar on Nanomaterials and Nano Technology, Government Degree PG College, Puttur, Andhra Pradesh, October 2, 2013.

32. Diurnal variation of ducts observed over a Tropical station using High Resolution GPS Radiosonde observations, 1st AP Science Congress, S.V. University, Tirupati, January 27-29, 2016.

33. Variability of surface fluxes over a hilly terrain obtained by reanalysis data sets and instrumented tower: 104th Indian Science Congress Association, S.V. University, Tirupati 3-7, 2017.

34. Investigation on Nd^{3+}-doped fluoro-borosilicate glasses for NIR laser applications. M. Deepa and **A. V. Chandrasekhar**: National conference on Novel Materials for Device Applications (NCNMDA-2018), S.V. University, Tirupati, November 4-5, 2018.

35. Optical analysis of Europium doped CdLNB Glasses. M. Deepa and **A.V. Chandrasekhar**. National Seminar on Emerging Trends in Nano-Materials and their Engineering Applications(NSENMEA-2019), Gayathri Vidya Parishad College of Engineering (A),Visakhapatnam, September 19-20, 2019.

LIST OF PAPERS PRESENTED AT INTERNATIONAL CONFERENCES

1. Studies on a naturally occurring mineral, Satterlyite. B.J. Reddy, **A.V. Chandrasekhar**, R.V.S.S.N. Ravikumar and P.S. Rao: International Conference on Spectroscopy: Perspectives & Frontiers (INCONS) Bhabha Atomic Research Centre, Bombay (India) Jan.3-5 (1996).

2. EPR and optical absorption spectral investigations on Cr-tremolite. **A.V. Chandrasekhar**, R.V.S.S.N. Ravikumar, Y.P. Reddy, B.J. Reddy and P.S. Rao: 2nd Inter-national conference on "Electron Paramagnetic Resonance of Radicals and Metal Complexes", Institute of Nuclear Chemistry and Technology, Warsaw, (Poland) Sept. 8-13 (1996).

3. Electronic spectra of cobaltite. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: First Asia-Pacific EPR/ESR Symposium at City University of Hong Kong, Hong Kong, Jan. 20-24 (1997).

4. EPR and optical absorption spectra of Cr-tremolite. **A.V. Chandrasekhar**, B.J. Reddy and R.V.S.S.N. Ravikumar: First Asia-Pacific EPR/ESR Symposium at City University of Hong Kong, Hong Kong, Jan. 20-24 (1997).

5. Spectroscopic studies on Cr-tremolite. **A.V. Chandrasekhar**, R.V.S.S.N. Ravikumar, B.J. Reddy and Y.P. Reddy, P. Sambasiva Rao: International Conference on Lasers and their Applications, St.Joseph's College, Trichy, (India) March 1-4 (2000).

6. Electron Paramagnetic Resonance of Vanadyl doped sodium phosphate glasses. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, B.J. Reddy and Y.P. Reddy: Ampere Summer School, Applications of Magnetic Resonance in Novel Materials, Nafplion, Greece, 3-9 Sept. (2000).

7. EPR and optical absorption spectroscopy on minerals. B.J. Reddy, Jun Yamauchi, Y.P. Reddy, **A.V. Chandrasekhar** and R.V.S.S.N. Ravikumar:Third Asia-Pacific EPR/ESR symposium (APES`01) Kobe University, Kobe (Japan), Oct. 29 –1 Nov. (2001).

8. EPR spectra of Fe^{3+} ion in silicate minerals. R.V.S.S.N. Ravikumar, M. Venkataramanaiah, **A.V. Chandrasekhar**, B.J. Reddy, Y.P. Reddy and P.S. Rao:Third Asia-Pacific EPR/ESR symposium (APES`01) Kobe University, Kobe (Japan) Oct.29 – 1 Nov. (2001).

9. EPR and Optical absorption spectra of VO^{2+}, Cr^{3+}, Mn^{2+} and Cu^{2+} in sodium phosphate glasses. **A.V. Chandrasekhar**, R.V.S.S.N. Ravikumar, B.J. Reddy, Y.P. Reddy and P.S. Rao: Third Asia-Pacific EPR/ESR symposium (APES`01) Kobe University, Kobe (Japan) Oct.29 – 1 Nov. (2001).

10. EPR of Cr(III) doped zinc phosphate glass. R.V.S.S.N. Ravikumar, J. Yamauchi, **A.V. Chandrasekhar**, P.S. Rao and Y.P. Reddy: Inter- national School on EPR in radicals APES'04 Satellite School, BARC, Mumbai (India), Nov. 17-20 (2004).

11. EPR and optical studies on VO^{2+} doped $ARbB_4O_7$ (A=Li, Na, K) glasses. R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, Y.P. Reddy, R. Komatsu, K. Ikeda, P.S. Rao and J. Yamauchi: **4th** Asia-Pacific EPR/ESR symposium (APES`04), Indian Institute of Sciences (IISc.) Bangalore (India), Nov. 22-25 (2004).

12. Tetrahedral site of Fe(III) ions in natural sodalite from Brazil. **A.V. Chandrasekhar**, Y.P.Reddy, B.J. Reddy, P.S. Rao, R.V.S.S.N. Ravikumar and J. Yamauchi: **4th** Asia-Pacific EPR/ESR symposium (APES`04), Indian Institute of Sciences (IISc.), Bangalore (India), Nov. 22-25 (2004).

13. Spectral studies of natural incrustation material grown in wells: Rayalaseema region of Andhra Pradesh, India. Y. Srinivasa Rao, **A.V. Chandrasekhar**, Y.P. Reddy, P.S. Rao, R.V.S.S.N. Ravikumar and J. Yamauchi: **4th** Asia-Pacific EPR/ESR symposium (APES`04), Indian Institute of Sciences (IISc.) Bangalore (India), Nov. 22-25 (2004).

14. Bonding nature of Cr^{3+} and Ni^{2+} doped zinc phosphate glasses. Y.P. Reddy, R.V.S.S.N. Ravikumar, **A.V. Chandrasekhar**, P.S. Rao and J. Yamauchi: **4th** Asia-Pacific EPR/ESR symposium (APES`04), Indian Institute of Sciences (IISc.) Bangalore (India), Nov. 22-25 (2004).

15. Strontium Tetraborate glasses doped transition metal ions: EPR and optical absorption study. R.V.S.S.N. Ravikumar, K. Kayalvizhi, **A.V. Chandrasekhar**, Y.P. Reddy, J. Yamauchi, K. Arunakumari and P.S. Rao: Asia-Pacific EPR/ESR Symposium 2006 (APES'06), Institute of Chemical Kinetics and Combustion, Novosibirsk, (Russia), Aug. 24-27, (2006). **Best Poster Prize awarded.**

16. Study of Structural and Optical properties of Samarium doped Alkali borate glass. M. Deepa, **A.V. Chandrasekhar:** International Conference on Science, Technology and Applications of Rare Earths (ICSTAR-218), Tirupati.

17. Spectroscopic studies on Nd^{3+} doped Alkali Borate Glasses for NIR Laser Applications. M. Deepa, **A.V. Chandrasekhar**: International Conference on Nanoscience and Nanotechnology (ICONN-2019), January 28-30, 2019.

LIST OF CONFERENCES / WORKSHOPS ATTENDED

1. Sixth National Seminar on Crystal Growth, held at Anna University, Madras (India) Feb 2-4, 1995.
2. International School on Advance Electronics Materials held at Anna University, Madras (India) Feb 6-15, 1995.
3. International Conference on Spectroscopy: Perspectives & Frontiers (INCONS) held at BARC, Bombay (India) Jan 3-5, 1996.
4. National Conference on Fundamentals of Crystal Growth held at Anna University, Madras (India) Jan 29-30, 1996.
5. Seventh National Seminar on Crystal Growth held at Alagappa University, Karaikudi (India) Jan 6-8, 1997.
6. First Asia Pacific ESR/EPR Symposium held at City University of Hong Kong, Hong Kong (UK) Jan 20-24, 1997.
7. Frontier Lecturers in Chemistry held at S.V.University, Tirupati (India) Nov 6-8, 1997.
8. National Seminar on Materials Science: An Indian Scene held at Bharathidasan University, Trichy (India) Jan 19-20, 1998.
9. National Conference on Advances in Condensed Matter Physics held at Pondicherry University, Pondicherry (India) Feb. 26-28, 1998.
10. National Seminar on Spectroscopy Lasers and Laser Applications, held at Cochin University of Science and Technology, Kochi (India), March 23-26, 1998.

11. National Seminar on Recent Trends in Solid State Sciences held at S.V.University, Tirupati (India) Nov. 23-24, 1998.

12. Eighth National Seminar on Crystal Growth held at Anna University, Chennai (India) Feb.3-5, 1999.

13. National Conference on Lasers and Spectroscopy, held at Meerut College, Meerut (India) Feb 25-28, 1999.

14. National Seminar on Recent Trends in Materials Science held at S.V.University, Tirupati (India) Nov 25-27, 1999.

15. International School on Crystal Growth Methods & Processes held at Anna University, Chennai (India) 24 Jan.- 4 Feb. 2000.

16. International Conference on Lasers and their Applications (INCOLA-2000) held at St. Joseph's College, Trichy (India) March 1-4, 2000.

17. Symposium on Fundamentals of Crystal Growth held at Anna University, Chennai (India) Nov. 6-7, 2000.

18. One day seminar on internet and e-governance held at S.V.University, Tirupati (India) Dec. 23rd, 2000.

19. National Seminar on Solid State Spectroscopy (NSSS-2001), S.V. University, Tirupati (India) August 29-31, 2001.

20. Third Asia - Pacific EPR/ESR Symposium (APES`01), Kobe University, Kobe (Japan) October 29–1 November 2001.

21. National Seminar on Recent Trends in Crystal Growth Processes and Applications, Nehru Memorial College, PUthanampatti, Tiruchirapalli, March 9-10, 2001.

22. Management of Technology (MOT), Venture Business Laboratory, Yamaguchi University, Ube (Japan) March 15, 2002.

23. National Seminar on Recent Trends in Opto-electronic Materials and Devices (NSRTOM-2002) S.V.University, Tirupati (India) Nov., 21-22, 2002.

24. YU-VBL- 2002 Annual Conference Venture Business Laboratory, Yamaguchi University, Ube (Japan) March 11, 2003.

25. YU-VBL- 2003 Annual Conference Venture Business Laboratory, Yamaguchi University, Ube (Japan) Oct.31, 2003.

26. Fourth Winter School on Indian MST Radar, National MST Radar Facility and S.V. University, Tirupati, January 21-30, 2004.

27. 8th ESR forum, Niigata University, Niigata (Japan) June11-12, 2004.

28. 6th Value added Education for Teachers of TTD, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, November 1-3, 2004.

29. Fourth Asia - Pacific EPR/ESR Symposium (APES`04), Indian Institute of Sciences, Bangalore (India) November 22-25, 2004.

30. 54th Hands on Computer Practice, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, December 1-2, 2004.

31. 100th Facilities Management, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, India, January 10-12, 2005.

32. 1st District Office Manual, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, India, July 1-2, 2005.

33. National Conference on Novel Materials and Technologies (NCNMT-2006), S.V. University, Tirupati, February 17-18, 2006.

34. National Symposium on Electron Magnetic Resonance Spectroscopy (NSEMERS), Pondicherry University, Pondicherry March 24-25, 2006.

35. National Seminar on Advances in Amorphous Materials (NAAM 2007) Acharya Nagarjuna University PG Centre, Nuzvid, Febraury1-3, 2007.

36. Seminar on advances in materials science, P.B.Siddhartha College of Arts & Sciences, Vijayawada, February, 10, 2007.

37. 57th Orientation programme, Academic Staff College, Sri Venkateswara University, Tirupati, India, June 11 to July 7, 2007.

38. Training-cum-Orientation Programme for TePP Outreach Centres, SIDBI Innovation & Incubation Centre, Indian Institute of Technology, Kanpur, India, July 30-31, 2007.

39. Know your Office Computer, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, India, August 20-23, 2007.

40. Technology Delivery Center Exhibition (TePP, DSIR, New Delhi) Audisankara College of Engineering & Technology, Gudur, Dec. 14-15, 2007.

41. 95th Indian Science Congress Bharat Expo, Andhra University, Visakhapatnam, January 3-7, 2008.

42. National Seminar on Natural Calamities- Role of Scientists and Administrators, Y.N.College, Narsapur, February 2, 2008.

43. TUC- coordinators meet and 85th TePP screening committee meeting, Techno Park, Trivandrum, February 4-5, 2008.

44. Workshop on Herbal Cosmetics, Tepp Outreach Centre, Acharya Nagarjuna University, Nagarjuna Nagar, Feb. 13-14, 2008.

45. First International Workshop on frontiers of Atmospheric Physics and Technology, Yogi Vemana University, Kadapa (India) February 20-22, 2008.

46. TUC-Coordinators meet and 88th TePP screening committee meeting, Institute of Technology -Banaras Hindu University, Varanasi, Aug.22-23, 2008.

47. Seminar on Nano-Technology, Nalanda Degree College, Vijayawada, Sept.11, 2008.

48. Five day Training Programme for TePP Phase I Innovators, S.P.Jain Institute of Management and Research (SPJIMR), Mumbai, Sept. 2-6, 2008.

49. 13th International Human Genome meeting (HGM 2008) Hyderabad International Conventional Hall, Hyderabad, Sept. 27th- 30th 2008.

50. AP Science Congress 2008, Osmania University, Hyderabad, Nov 14-16, 2008.

51. Seminar on Preparation of Transition Metal doped ZnO nano materials at TJPS Degree College, Guntur, A.P on Feb.18, 2009.

52. Sensitization Camp on Technopreneur Promotion Programme (TePP), TePP Outreach Centre, Acharya Nagarjuna University, Nagarjuna Nagar, March 9-10, 2009.

53. International Seminar on Science and Technology of Glass Materials, Acharya Nagarjuna University, Nagarjuna Nagar, A.P., India, March.16-19, 2009.

54. Orientation Programme, Academic Staff College, S.V. University, Tirupati, India, May 4-30, 2009.

55. Refresher Course in Information Technology, Academic Staff College, S.V. University, Tirupati, India, June 1 to 20th , 2009.

56. Seminar on Advanced Materials preparation and characterization, Sir C.R.Reddy College, Eluru, A.P. India, June 26th 2009.

57. National Conference on Advances in Nano Materials Devices and Technologies (NCANDT -2009), S.V. Degree College, Kadapa, India, July 11-12, 2009.

58. National Seminar on Recent Trends in Multifunctional Oxide Materials, Osmania University, Hyderabad, July 17-18, 2009.

59. National Conference on Emerging Materials, (NCEM-2009), NBKR Science & Arts College, Vidyanagar, July 18-19, 2009.

60. National Seminar on Recent Trends in Emerging Frontiers of Physical Sciences, Sindri College, Sindri, India, November, 2-3, 2009.

61. 2nd AP Science Congress, SV University, Tirupati, November 14-16, 2009.

62. Microsoft Excel, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, India, December 4, 2009.

63. Guest Lecturer in X-rays and Molecular Physics, UG-& PG College Vidya Kendram Vidyasamstalu Dec. 8, 2009.

64. National Seminar on Nano Materials and their Applications, D.A.R. College, Nuzvid, India, December, 10-11, 2009.

65. International workshop on Recent Advances in Microwave and Optical communication Technology (RAMOCT'09), SRM University, Chennai, December 21, 2009.

66. APSCHE Training cum Refresher Course in Physics, SV University, Tirupati, January 4-9, 2010.

67. National Conference on Materials for Energy Storage and Conversion (NCMESC-2010), S.V. University, Tirupati, January 23-24, 2010.

68. Two day workshop on Development of Self Learning Materials (SLMS), S.V. University, Tirupati, June 24-25, 2010.

69. National seminar on Development in Higher Education-Impacts and Implications, Unnatha Vidya Parirakshana Samithi, Sri Padmavathi Mahila Viswavidhyalam, Tirupati, August 29-30, 2010.

70. Refresher course on Introduction to Nanomaterials: Synthesis, Characterization and their Applications: Jawaharlal Nehru Technological University-Hyderabad, Hyderabad, Sep13-Oct 4, 2010.

71. National Seminar on Emerging Trends in Material Science-An Application to Amorphous, Nano & Liquid Crystals, Sir C.R.Reddy (A) College, Eluru, 30 Oct, 2010.

72. National level Seminar on Biodiversity – Environmental issues and concerns, AP Pollution Control Board, Kasireddy Venkata Reddy Govt. College, Kurnool, December 28-29, 2010.

73. National seminar on Recent Advances in Physics, P.R.Govt. College, Kakinada, January 5-6, 2011.

74. Regional workshop on Innovative Experiments in Physics, Vigya Prasar, DST, Govt. of India, New Delhi, APCOST, Govt. of AP and S.V. University, Tirupati, February 7-10, 2011.

75. XV National Seminar on crystal Growth, PSN College of Engineering & Technology, Tirunelveli, 23-25, Feb. 2011.

76. Theme Meeting on LASER Glass Science & Technology, Department of Atomic energy Board of Research in Nuclear Sciences, India, S.V. University, Tirupati, March 12, 2011.

77. UGC CAS Program National Conference on Advances in Atmospheric Remote sensing, Weather Prediction and climate change (ARWPCC-2011), S.V. University and National Atmospheric Research Lab., Gadanki, March 10-11, 2011.

78. National Symposium on Renaissance in Chemistry (NSRC–2011) Pondicherry University, Puducherry, March 30, 2011.

79. National Seminar on Current Trends and Development in Organic synthesi (CTDOS), S.V. Arts College, TTD. , Tirupati, December 9, 2011.

80. Bhakthula Nithya Sevalo, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, India, August 13-14, 2012.

81. A.P. Society for Mathematical Sciences, S.V. University, Tirupati, December 7-9, 2012.

82. UGC Sponsored Two day state level workshop on Experiments for Young Engineers and Scientists, PVKN Govt. College, Chittoor, India, November 15-16, 2013.

83. 17th Health Care Management, Sri Venkateswara Employees' Training Academy, Tirumala Tirupati Devasthanams, Tirupati, India, March 11-12, 2014.

84. Sri Venkateswara Vedic University sponsored Veda Sandesa Sibiram, S.V. Oriental College, Tirupati, April 25 – May 24, 2014.

85. UGC-SERO sponsored National Seminar on Recent Trends in Chemistry Research (NSRTCR), Govt. College, Kodur RS, July 30, 2014.

86. The Role of Nano Technology in the fields of Physical and Biosciences, BT College, Madanapalle, October 29-30, 2014.

87. State Level Seminar on Human Resource Development in Higher Education and the Role of Govt. Degree Colleges in AP, S.V. University, Tirupati, December 13, 2014.

88. Seminar on Science Communication in Science and Technology for Developing Indigenous India, Indian Science Congress Association, Tirupati Chapter, S.V. University, Tirupati, October 28, 2015.

89. National Consultation on Science and Technology for development of indigenous India (NCST-2016), Indian Science Congress Association, Tirupati Chapter, Vemu Institute of Technology, P. Kothakota, March 25-26, 2016.

90. Refresher Course in Disaster Management, Human Resource Development Centre, S.V. University, Tirupati, July 11-30, 2016.

91. 2nd Conference on India Radar Meteorology, iRAD-2018, National Atmospheric Research Laboratory, Gadanki, Tirupati, January9-11, 2018.

92. Refresher Course in Environmental Studies, Human Resource Development Centre, S.V. University, Tirupati, August 13 to September 1, 2018.

93. Indian Science Congress Association, University of Agricultural Sciences, Bangalore, January 3rd -7th , 2020.