CURRICULUM VITAE OF DR. NAWAL KISHORE

(A) Name	:	Prof. Nawal Kishore
(B) Date of Birth	:	13.10.1954
(C) Institution	:	Department of Applied Physics Guru Jambheshwar University of Science & Technology, Hisar – 125001 (Haryana) INDIA E-mail: <u>nks54@rediffmail.com</u> Mob. 094160-51041

(D) (i) Academic Qualifications :

Sr.No	. Degree	Year	Division	University/Institution
1.	Hr. Sec-I	1970	Ist	Board of School Education, Haryana
2.	Hr. Sec-II	1971	Ist	-do-
3.	B.Sc.	1974	Ist	Panjab University
4.	M.Sc.	1976	Ist	K.U.Kurukshetra
5.	Ph.D.	1983	Indian Inst	itute of Technology, New Delhi-110016

(ii) Professional Career:

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nology, Hisar
from GJUS&T)

(E) Topic of Ph.D. Thesis:

MOSSBAUER SPECTROSCOPIC AND OTHER PHYSICAL STUDIES IN SODIUM AND BARIUM BORATE GLASSES CONTAINING IRON

(F) Award/Prize/Certificate etc. won:

Won Merit Certificates for getting third rank in order of merit in M.Sc. in the University and first in B.Sc. in college.

(G) Foreign Assignments:

- Provided guidance to Ph.D. students of Yangon University, Myanmar during my visit to that University for the period March 15 to April 11, 2005and Nov.11 to Dec. 11, 2005 sponsored by Govt. of India through Ed CIL under Indian Assistance to Ph.D. programme
- (2) Visited USA for presenting a paper entitled Comparison between Stimulated Raman and Brillouin Scattering Processes in Magnetized Doped III V Semiconductors during International Symposium on Lasers and Applications in Science & Engineering held at San Jose Convention Center (USA) from January 20- 25, 2007.
- (3) Visited Muscat (Oman) to represent GJUS&T,Hisar in India Education Fair- 2009 held at Muscat Holiday Hotel during Oct.24-26, 2009.
- (4) Visited Bangkok and Pattaya (Thailand) for participation in international study tour/academic networking event on 'Capacity Building for excellence in Higher Education' held on June 22nd to 26th, 2014 under TEQIP-II.

(H) Administrative Experiences

Besides Teaching and research activities, I have managed many key posts of Administration in the university since 2001.

- Member Secretary to conduct State Level Eligibility Test (SLET) for Lectureship in 2004 for Haryana State.
- **Director Distance Education** (2005)
- Dean Students Welfare, G.J.U.S.& T., Hisar. Year 2005-07 and 2009-2011.
- Chief Warden, GJUS&T., Hisar. Year 2002-04
- Dean, Faculty of Science & Technology Interface, GJUS&T., Hisar. Year 2004-07.
- Dean, Faculty of Engineering & Technology, GJUS&T., Hisar. Year 2005-08.
- Chairman, High Power Standing Purchase Committee, GJUS&T., Hisar. Year 2009- 2011
- Head/Chairman, Department of Applied Physics, GJUS&T., Hisar.
 Year 2001-04, 2006-08, 2009-2012.
- Head/Chairman, Department of Printing Technology, GJUS&T., Hisar. Year 2005-09.
- Head/Chairman, Department of Biomedical Engineering, GJUS&T., Hisar. Year 2005-09.
- Head/Chairman, Department of Electronics & Communication Engineering, GJUS&T., Hisar. Year 2004.
- Chairman, Committee to deal Unfairmeans Cases, GJUS&T., Hisar. Year 2002-05.
- Chairman, Space Allottment Committee, GJUS&T., Hisar (2013-2014)
- Member, House Allottment Committee, GJUS&T., Hisar (2003)
- Coordinator, TEQIP-II (World Bank Project), GJUS&T., Hisar Year 2010- 2014.

(I) Other Responsibilities

- 1. Member Executive Council, GJUS&T Hisar (2004-2006)
- 2. Member of delegation for meeting H.E. the President of India (2003)
- 3. Member Proctorial Board, GJUS&T Hisar (2002-07)
- 4. Member Admission Committee, GJUS&T Hisar
- 5. Member University Court, GJUS&T Hisar (2004-2006, 2011-13)
- 6. Member, Finance Committee, CDLU Sirsa (2008-2010)
- 7. Member Academic Council, GJUS&T, Hisar (2002-2006, 2012-14) and CDLU, Sirsa (2005-2009, 2011-13)
- Member Selection Committee (GJUS&T Hisar, KU Kurukshetra and CDLU Sirsa, DCRUST Murthal, TITS Bhiwani, Jammu University Jammu, MDU Rohtak, Central University of Haryana, Mahendergarh)
- Chairman, UG & PGBOS GJUS&T Hisar (2001-04, 2006-08, 2009-12)
 Member-Expert, UG/PGBOS GJUS&T Hisar, KU Kurukshetra, CDLU Sirsa, DCRUS&T, Murthal and NIT Kurukshetra, MM College Israna, Central University of Haryana, Mahendergarh, G.G.D. University Bilaspur)
- 10. Member Monitoring Committee for Credit Based System (2005-07)
- 11. Member Expert Committee for Establishment of Private Universities in Haryana, constituted by State Government (2010-11)
- (J) Field of Specialization: Materials Science, Thin Films, Optical Characterization & Spectroscopy

(K) Research Projects :

<u>Sr.No</u>	<u>. Title</u>	Sponsoring Age	ency Dura	ation _	Amount
(i)	Electronic and Photo electronic Properties of Modified Amorphou Semiconductors (Principal Investigator)		hi 3 ye		s.17.33. lacs 999-2003)
(ii)	Study of Electronic & Optical Properties of I Irradiated Semi-Condu (Co- Principal Investig	ctors	GC 4 ye		s. 1.06 lacs 990- 1994)
(iii)	Electronic and Optical Properties of Modified Semiconducting Materi (Principal Investigator)		2 3 ye		s. 5.34 lacs 003 -2006)
(iv)	Study of Electron Parar Resonance, Electrical a Properties of Oxide Gla (Co-Principal Investig	nd Optical asses	GC 3 ye		s. 6.06 lacs 004 -2007)
(v)	Development and chara of Optical Materials for Systems and Devices (Principal Investigato)	Photonic	DRDO	2	s.4.98 crores 2008-2011)
(vi)	Synthesis and Character of Nano composites/M crystallites based glass (Principal Investigator	icro	DRDO	•	s. 14.91 lacs 009 - 2012)
(vii)	Studies on base line rad in environment matrice nuclear power plant site Haryana (Principal Investigato)	s around e in	E-BRNS	5	. 16.05 lacs 009-2014)
(viii)	Study of Thermal Elect and Structural Propertie conducting polymers (Co-Principal Investig	es of	C 3 1		s. 10.04 lacs 12 till date)

(L) Departmental Projects

(i)	DST-FIST (Chairman)	DST	5 years	Rs. 40 lacs (2006–011)
(ii)	SAP (Member)	UGC	5 years	Rs. 20 lacs (2007–2012)

(M) Courses Taught:

(i) Under Graduate:

Properties of matter, heat and thermodynamics, electricity and magnetism, modern physics, optics, sound, waves and oscillations.

(ii) Post Graduate:

Classical mechanics, Electronics, Solid State Theory, Statistical Mechanics, Spectroscopy, Quantum Mechanics, Materials Science, Condensed Matter Physics, Nuclear and Particle Physics, Atomic and Molecular Physics.

(iii) **Pre- Ph.D. Course:**

Experimental /Analytical Techniques, Research Methodology

(N) Summer Institutes/Refresher Courses attended:

- (1) Summer Institutes in Physics (Electronics) sponsored by UGC held at Sukhadia University, Udaipur, India on June 1-21, 1985.
- (2) UGC Refresher Course in Physics held at Indian Institute of Science, Bangalore, India, on April 1–17, 1990.

(O) Invited Talks/Extension lectuers delivered

- Delivered two invited talks in 'In Service Refresher Course for Govt. College Teachers' held at D. Govt. College, Gurgaon in Jaunary, 1992.
- Delivered an invited talk in Govt. College, Narnaul in 1998
- Delivered extension lectures in Ahir College Rewari and S.K.Govt. College, Kanwali in March, 2003.
- > Delivered invited lectures in Refresher Course held in GJUS&T, Hisar, Dec. 2009.
- Delivered invited lectures in Orientation Course held in GJUS&T,Hisar, Oct, 2009 and Jan-Feb.2010.

> Delivered extension lecture in Ahir College, Rewari in 2013 and 2014.

(P) Radio talks delivered

Delivered talks on nuclear pollution at AIR Rohtak Station and another talk on Agni Missile.

(Q) <u>TV Programmes</u>

- > Delivered programmes on LASER's on DD Hisar
- > Delivered TV Program on Atomic Energy on DD Hisar on 07-10-2008.
- > Delivered TV Talk on Glasses- An Introduction on DD Hisar on 29-02-2008.
- > Delivered TV Talk on Time Machine on DD Hisar
- Delivered TV Talk on Nano Science and Nano Materials, which has been telecast on D.D. Hisar a number of times in 2009 onwards.
- Delivered two lectures on Crystalline and Amorphous Solids which were telecast as EDUSAT lectures for B.Sc. students by DHE, Haryana.

(R) <u>Research Guiding Experience</u>:

- (a) Guided <u>M.Phil.</u> students for their dissertations as detailed below :
- Electron Paramagnetic Resonance Studies of Vanadyl and Ferric Ions in CaO-B₂O₃ Glass System by Ms. Veena Kumari (1989)
- (2) Electron Paramagnetic Resonance Studies of K₂O-V₂O₅-Fe₂O₃ Glass System by Mr. Satyavir Singh (1990)
- (3) DC Conductivity of Se $_{100-x}$ Te_x and Se₇₆Te₂₀M₄ (M=Zn and Cd) Glass Systems by Mr. Satish Kumar (1993)
- (4) Thickness Determination and DC conductivity Studies of Amorphous Thin films of As₂S₃ and (As₂S₃) _{1-x} (Pbs)_x by Ms. Rekha Rani (1993)

(b) <u>Ph.D.</u>

(i) Completed : Seventeen

(1) **Thesis Title :**

"Electronic and Structural Properties of Some Amorphous Chalcogenide Semiconductors Containing Transition/ Non-Transition Metallic Impurities" by R.S. Kundu (1995) Supervisors: Dr. K.L.Bhatia and <u>Dr. Nawal Kishore</u>

(2) **Thesis Title** :

"Optical and electronic properties of some binary and ternary amorphous chalcogenide semiconductors in bulk and thin film forms". By Mahender Singh (1996)

Supervisors: Dr. Nawal Kishore and Dr. K.L.Bhatia

(3) **Thesis Title :**

"Characterization of ion-bombarded amorphous/crystalline semiconductors and investigation of their electronic and optical properties" by Partap Singh (1996)

Supervisors: Dr. K.L.Bhatia and Dr. Nawal Kishore

(4) **Thesis Title** :

"Study of Electronic Conduction in some Amorphous Semi-Conductors". By C.R.Singla (2001) Supervisors: Dr. C.L. Mittal and <u>Dr. Nawal Kishore</u>

(5) **Thesis Title** :

"Optical and Electronic Properties of Modified Amorphous/Crystalline Semi-Conductors".

By Jitender Malik (Dec., 2002). Supervisor: **Dr. Nawal Kishore**

(6) **Thesis Title** :

"Study of Electron Paramagnetic Resonance Optical and Electrical Properties (Conductivity) of Glasses". By Ashish Agarwal (2003) Supervisors: Dr. V.P.Seth & <u>**Dr. Nawal Kishore**</u>

(7) **Thesis Title** :

"Devlopment and characterization of Polymer Composites Suitable for Sensors". By Harrindra Singh (2006) Supervisors: <u>**Dr. Nawal Kishore**</u> & Dr. R.M.Mehra

(8) **Thesis Title** :

"Climate Change over the Schirmacher Region, East Antarctica". By Ved Prakash (2007) Supervisors: **Dr. Nawal Kishore** & Dr.H.N.Dutta

(9) **Thesis Title:**

"Synthesis and Characterization of Metal OxideNanocomposites derived from Sol-Gel Technique " By Surender (2009) Supervisors: <u>**Dr. Nawal Kishore**</u> & Dr. P.Aghamkar

(10) **Thesis title:**

"Investigation of Electronic and Optical Properties of Modified Amorphous Semiconductors" by Mahender Singh Sheoran (2010) Supervisors: <u>**Dr. Nawal Kishore**</u> & Dr. A.S. Maan

(11) **Thesis Title:**

"Randon Estimation and Mitigation Strategies"by Ram Saran (2010)Supervisors: <u>Dr. Nawal Kishore</u> & Dr. S.K. Chakravarti

(12) Thesis Title:

"Investigation of Structural, Optical and Transport Properties of Synthesized Oxide and Non-Oxide Glasses Containing Transistion Metal Ions" By Sanjay (Thsis submitted Jan. 2011) Supervisor: <u>**Dr. Nawal Kishore**</u>

(13) **Thesis Title:**

"Study of Electronic Transport Properties of Some Modified Semiconductors" By Rajesh Punia (2013) Supervisors: **Dr. Nawal Kishore** & Dr. R.S.Kundu

(14) **Thesis Title:**

"Synthesis and Characterization of Some Oxide/Chalcogenide Glasses" By Jai Pal Singh Hooda (2014) Supervisors: <u>**Dr. Nawal Kishore**</u> & Dr. R.S.Kundu

(15) **Thesis Title:**

"Study of Optical Second and Third Harmonic Generation from Non-centro Symmetric Chalcogenide Materials" By Sunita Rani (2014) Supervisors: <u>Dr. Devendra Mohan & Dr. Nawal Kishore</u> Thesis Title:

(16) Thesis Title: "Study of Oxide Glasses Containing Heavy Metals" By Sanjay Dahiya (2014) Superviseret Dr. Ashuini Sharma & Dr. Neural Kiele

Supervisors: Dr. Ashwini Sharma & Dr. Nawal Kishore

(17) Thesis Title: "Synthesis and Characterization of Nanomaterials and Nanocomposites" By Rajesh Kumar Sharma (2014) Supervisors: Dr. Ashwini Sharma & Dr. Nawal Kishore

ii) Thesis Submitted:

Thesis Title:

"Synthesis and Characterization of Doped and Undoped Conducting Polymers" By Asha (Submitted on March 13,2015) Supervisors: <u>Dr. Sneh Lata Goyal & Dr. Nawal Kishore</u>

iii) Thesis in Progress: Two

(S) Current Research / Teaching Interests

Synthesis and characterization of amorphous/crystalline semiconductors in bulk and in thin film using XRD, DTA, DSC, EPMA etc. Investigations of electronic and optical properties of synthesized materials using DC conductivity, AC conductivity, dielectric relaxation, thermoelectric power, photoconductivity, transmission and reflectivity measurements.

Study of MeV energy heavy ion induced defects in synthesized amorphous/ crystalline semiconductors in bulk and in thin film form, which is front line area of research, is also being undertaken. The defects are monitored by optical studies, AC and DC conductivity measurements. The findings have been published in various International/National Journals of repute and presented during many International/ National Conferences/Symposia etc. Preparation and study of nanomaterials has also been initiated.

Work on development, characterization and properties of silver and Nd composites in silicate glass matrices have also been undertaken. Polymers have also been synthesized and studied. The findings have been published in international journals. Presently the work on TeO2 based glasses and ceramics is in progress. The study will help developing materials for specific uses including the ones used in optitcal coatings for HUD.

Courses for M.Sc. have been modified in GJUS&T, Hisar to include recent topics/materials such as magnetic materials, nano materials etc. New contents in M.Tech. Optical Engineering have been introduced. The M.Sc. Physics course at CBLU, Bhiwani is also being modified.

(T) **PUBLICATIONS**

- 1. Research Papers in Journals of International Repute: More than 80
- 2. Research Papers in Conferences/ Symposia: More than 100
- (a) Full papers : More than 15
- (b) Abstracts : More than 85
 - 3. Books Published: 12

(U) DETAILS OF RESEARCH PUBLICATIONS:

DETAILS OF RESEARCH PUBLICATIONS :

(a) In International/National Journals

- "Mossbauer spectra of xNa₂O (1-x-y) B₂O₃ yFe₂O₃ glass system" R.Kamal, S.S. Sekhon, <u>N.Kishore</u>, R.G.Mendiratta J.Non-Crystalline Solids 53 (1982) 227-33
- "Infrared spectra of sodium and barium borate glasses doped with iron" <u>N.Kishore</u>, K.Agarwal, R.Kamal, R.G.Mendiratta Phys. & Chem. Glasses 23 (1982) 202-204
- "Effect of Additives on properties of zinc-manganese ferrites" K.H.Rao, <u>N.Kishore</u>, K.Agarwal, R.G.Mendiratta J.App. Physics 53 (1982) 1122-26
- "Electron paramagnetic and direct current resistivity studies on barium borate glasses containing iron"
 <u>N.Kishore</u>, T.K.Bansal, R.Kamal, R.G.Mendiratta Phys. & Chem. Glasses 23 (1984) 52-55
- "Mossbauer spectroscopic studies in BaO-B₂O₃-Fe₂O₃ glass systems" <u>N.Kishore</u>, T.K.Bansal, R.Kamal, R.G.Mendiratta J.Non-Crystalline Solids 69 (1985) 213-19
- 6. "Mossbauer spectroscopic studies in the 0.1 Fe_2O_3 0.3 $B_2O_30.6$ (x B_2O_3 (1-x) V_2O_5) glass system" T.K.Bansal, <u>N.Kishore</u>, R.G.Mendiratta Phys. & Chem. Glasses 26 (1985) 94-96
- 7. "Electron spin resonance studies of Mn in Ge-rich bismuth-modified amorphous semiconductors (Ge₄₂S₅₈) 99.5-xBixMn_{0.5}"
 V.K.Bhatnagar, K.L.Bhatia, V.S.Yadav N.Kishore Phys. Rev. B 39 (1989) 11203-06
- "EPR of Mn-doped Pb-modified amorphous germanium chalcogenide semiconductors" S.K.Malik, K.L.Bhatia, <u>N.Kishore</u>, J.S.Phor" J.Non-Crystalline Solids 142 (1992) 55-62
- 9. "Electronic conduction in Pb-modified amorphous semiconductors Pb₂₀ Ge_x Se_{80-x} exhibiting p- n transition"
 K.L.Bhatia, S.K.Malik, <u>N.Kishore</u>, S.P.Singh Philos.Mag B 66 (1992) 587-599

- "Optical study of MeV energy heavy ion-induced effects in crystalline Ge and Si" K.L.Bhatia, P.Singh, M.Singh, <u>N.Kishore</u>, N.C.Mehra, D.Kanjilal Nucl. Instr. Methods B 94 (1994) 379-387
- 11. "Electronic conduction in vitreous semiconductors in pseudo-binary system (As2S3) 1-x (PbS)x"
 M.Singh, K.L.Bhatia, <u>N.Kishore</u>, P.Singh, R.S.Kundu
 J.Non-cyrst. Solids 180 (1995) 251-259
- 12. "Optical and electronic properties of Bi-modified amorphous thin films Ge₂₀ Te _{80-x} Bi_x" K.L.Bhatia, M.Singh, T.Kitagawa, <u>N.Kishore</u>, M.Suzuki Semicond. Sci. & Techno 10 (1995) 65-70
- "Doping of chalcogenide glassy semiconductors by implanting Ni-ion"
 P.Singh, K.L.Bhatia, <u>N.Kishore</u>, M.Singh, S.K.Malik, D.Kanjilal
 J.Non-cyrst. Solids 191 (1995) 146-154
- 14. "Effect of addition of Zn-impurity on the electronic conduction in semiconducting Glasses Se_{80-x} Te₂₀ Zn_x" R.S.Kundu, K.L.Bhatia, <u>N.Kishore</u>, C.Vijayaraghavan Philos.Mag.(1995) B 513-528
- 15. "Electronic conduction in MeV energy ion-beam irradiated semiconducting glass Pb₂₀ Ge₁₉ Se₆₁"
 K.L.Bhatia, P.Singh, <u>N.Kishore</u>, S.K.Malik Philos. Mag.B. 72 (1995), 417-433
- 16. "Electronic conduction in Bi-modified amorphous thin films Ge₂₀ Te_{80-x} Bi_x exhibiting absence of p-n transition"
 K.L.Bhatia, M.Singh, <u>N.Kishore</u> & M.Suzuki Philos.Mag.B 73 (1996), 383-393
- 17. "Surface Morphology and optical properties of MeV energy heavy ion irradiated c-Si and c-Ge; possibility of formation of porous material"
 K.L.Bhatia, P.Singh N.Kishore, D.Kanjilal & N.C.Mehra Philos.Mag.B 74 (1996) 751-775.
- "AC Conductivity of (AS₂S₃)_{1-x} (PbS)_x in bulk vis-a-vis thin film forms"
 M.Singh, K.L.Bhatia, P.Singh, R.S.Kundu & <u>N.Kishore N.Kishore</u> Mater.Sci.Forum, 223-224 (1996), 271-274
- "Electronic conduction in amorphous semiconducting system Ge_{42-x}Se₅₈ Pb_x"
 P.Singh, K.L.Bhatia, M.Singh, R.S.Kundu, S.K.Malik & <u>N.Kishore</u>. Mater.Sci.Forum 223-224 (1996) 267-270

- 20. "Optical characterization of ion-beam induced disorder in semi-conductors irradiated with heavy ions"
 K.L.Bhatia, P.Singh & <u>N.Kishore</u> Mater. Sci. Forum 223-224 (1996) 419-428
- 21. "Effect of addition of Mn-impurity on the electronic properties of amorphous semiconductor (Se₇₀Te₃₀)_{99.9} Mn_{0.1}"
 K.L.Bhatia, R.S.Kundu, N.Kishore & V.K.Jain Phil. Mag. B.74 (1996) 317-30
- 22. "Electronic transport properties of Mn-doped a-Se _{80-x}Te₂₀ Zn_x system" R.S.Kundu, K.L.Bhatia, <u>N.Kishore</u>, M.Singh & P.Singh Solid State Phenomena.55 (1997) 110-12
- "Electrical effects in MeV energy ion-irradiated amorphous As₂ Se₃"
 M.Singh, K.L.Bhatia, <u>N.Kishore</u>, R.S.Kundu, P.Singh & D.Kanjilal Vacuum 48 (1997) 969-72
- 24. "Electrical and optical properties of thermally evaporated thin films of (As₂S₃)_{1-x} (PbS)_x"
 K.L.Bhatia, M.Singh <u>N.Kishore</u> Thin Solid Films 293 (1998) 303-09
- 25. "High Energy ion-implantation induced electrical effects in bulk amorphous As₂S₃"
 M.Singh, K.L.Bhatia, <u>N.Kishore</u>, R.S.Kundu & D.Kanjilal Nucl. Instrum. Methods.B.140 (1998) 349-60
- 26 "Study of the effects of thermal annealing on the optical and electrical properties of vacuum evaported amorphous thin films in the system Ge₂₀ Te _{80-x} Bi_x" K.L.Bhatia, <u>N.Kishore</u>, J.Malik, M.Singh, A.Sharma & B.K.Srivastav Semicond. Sci. Techno. 17 (2002), 189-97
 - 27. "MeV Energy Lithium Ion-Irradiated Crystalline GaAs: an optical study" J.Malik, K.L.Bhatia, <u>N.Kishore</u>, D.Kabiraj and A.S.Maan Radiation Measurements 36 (2003) 647-52
- 28. "Influence of ZnO on optical properties and dc conductivity of vanadyl dopted alkali bismuthate glasses"
 P.S.Gahlot, V.P.Seth, A.Agarwal, <u>N.Kishore</u>, S.K.Gupta, M.Arora, D.R. Goyal *Rad*. Effects & Defects in Solids 159 (2004) 223-231
- 29. "Effect of Bi₂O₃ content on the optical band gap, density and electrical conductivity of MO. Bi₂ O₃. B₂ O₃ (M=Ba, Sr) glasses"
 S.Sindhu, S.Sanghi, A.Agarwal, V.P.Seth, <u>N.Kishore</u> Materials Chemistry & Physics **90** (2005) 83-89

- 30. "Electron paramagnetic resonance, optical and electrical properties of vanadyl doped alkali germanoborate glasses"
 P.S. Gahlot, V.P. Seth, A. Aggarwal, <u>N.Kishore</u>, S.K. Gupta and M. Arora Physics and Chemistry of Solids 66 (2005) 766-772
- 31. "The role of V₂O₅ in the modification of structural optical and electrical properties of vanadium barium borate glasses"
 S.Sindhu, S. Sanghi, A. Aggarwal, Sonam, V.P.Seth & <u>N.Kishore</u> Physica B 365 (2005) 65-75.
- 32. "Structural, optical, physical and electrical properties of V₂O₅.SrO.B₂O₃ glasses"
 S.Sindhu, S.Sanghi, A.Agarwal, V.PSeth, <u>N.Kishore</u>
 Spectro. Chemica Part A, 64 (2006) 196-204
- 33. "Influence of Piezoelectricity and Magnetic field on Stimulated Brillouin Scattering in *III-V Semiconductors*"
 M. Singh, P. Aghamkar, <u>N.Kishore</u> and P.K. Sen J. Nonlinear Opt. Phys. & Mat. 15, (2006), 465-479,
- 34. "Effect of V₂O₅ on Structure and Electrical Properties of Zinc Borate Glasses"
 S. Sindhu, S. Sanghi, A. Agarwal, <u>N.Kishore</u> and V.P. Seth Journal of Alloys and compounds 428 (2007) 206-213
- 35. "Steady-State and Transient Brillouin Gain in Magnetoactive Narrow Gap Semiconductors"
 P. Aghamkar, M. Singh, <u>N.Kishore</u>, S. Duhan and P.K. Sen, Sem. Sc. & Tech. 22 (2007) 749-754.
- 36. "A Unique plant over Schirmacher region East Antarctica ; signature of the beginning of global warming"
 H.N.Dutta, Kh.Gazananda., V.Parkash, <u>N.Kishore</u>. J.Singh, V.Lagun.
 J. Ecophysiol, Occup. Hlth. 7 (2007) 119-123.
- 37. "Effect of Percolation on Electrical and Dielectric Properties of Acrylonitrile Butadiene Styrene/Graphite Composite"
 H.S.Dahiya, <u>Nawal Kishore</u> & RM.Mehra Applied Polymer Science 106 (2007) 2101-2110
- 38. "Stimulated Raman scattering in weakly polar transversely magnetized doped semiconductors"
 M.Singh, PAghamkar, <u>N.Kishore</u>, P.K.Sen and M.R Perrone Phys. Rev.B. 76 (2007) 012302
- 39. "Effect of ZnO/CdO on the Structure and Electrical Conductivity in Li₂O.MO.Bi₂O₃.B₂O₃ glasses (M= Zn, Cd)"
 S. Rani, S. Sanghi, Anshu, A. Agarwal <u>N.Kishore</u> and V. P. Seth Journal of Physics & Chemistry of Solids 69 (2008) 1855-1860

- 40. "Effect of thermal anealing on Nd₂O₃ doped silica powder prepared by the solgel process"
 P.Aghamkar, S.Duhan, M.Singh, <u>N.Kishore</u> and P.K.Sen, J.Sol-Gel Sci. Technol. 46 (2008) 17-22.
- 41. "Investigation of near constant loss contribution to conductivity in lithium bismo-Silicate Gasses"
 N. Ahlawat, S. Sanghi, A.Agrawal, <u>N.Kishore</u>, S.Rani Journal of Non-Crystalline Solids (2008) 3767-72
- 42. "Nonlinear absorption and refractive index of Brillouin scattered mode in piezoelectric semiconductor plasmas by an applied magnetic field"
 M.Singh, P. Aghamkar, <u>N.Kishore</u>, P.K. Sen.
 Optics & Laser Technology 40 (2008) 215-222
- 43. "Thermal and electrical properties of MoO₃-Bi₂O₃-B₂O₃Glasses" Sanjay, <u>N.Kishore</u>, A.Agarwal, V.P.Seth & M.S.Sheoran Indian Journal of Pure & App. Physics 46 (2008) 719-721
- 44. "Effect of growth temperature on the structural of Nd-doped silica prepared by the chemical method"
 P.Aghamkar, S.Duhan, <u>N.Kishore</u>, Bhajanlal Materials Chemistry and Physics 114 (2009) 103-106
- 45. "Radon, Thoron and their Progeny in Some Dwellings of Northern Haryana using SSNTDs"
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 <u>Nawal Kishore</u>, Jitender Malik, M.Singh, P.Singh and K.L.Bhatia
 National Symposium on Frontiers in Condensed Matter Physics (NSFCMP'02)
 G.J.University, Hisar, March 22-23, 2002.
- 45. Electron Paramagnetic Resonance of Cr(III) in Ti_x K₁-xA1(SO₄)₂12H₂O
 V.K.Jain and <u>N.Kishore</u>
 National Symposium on Frontiers in Condensed Matter Physics (NSFCMP'02)
 G.J.University, Hisar, March 22-23, 2002
- Study of Sequentially Annealed Amorphous Thin Films of Ge₂₀ Te_{80-x} Bi_x
 Jitender Malik, Mahender Singh, <u>Nawal Kishore</u>, K.L.Bhatia, R.S.Kundu & S.K.lMalik
 National Symposium on Frontiers in Condensed Matter Physics (NSFCMP'02)
 G.J.University, Hisar, March 22-23, 2002
- An optical Study of MeV Energy Lithium Ion-Irradiated GaAs
 J.Malik, K.L.Bhatia, <u>N.Kishore</u>, D.Kabiraj, A.S.Maan
 21st International Conference on Nuclear Tracks in Solids, India Hobitat Centre, New Delhi on Oct. 21-25, 2002.

- 48. Divacancy formation and Optical Absorption Edge Spectra of c-Si Irradiated with 75 MeV Heavy Ions (Ti, Co, Ni, Ge,Ag)
 J.Malik, K.L.Bhatia, <u>N.Kishore</u> and P.Singh
 Proc. DAE Solid State Physics Symposium, held at P.U.Chandigarh on Dec. 26-30, 2002.
- Surface Morphology and Optical Effects of 50 MeV Li-Ion Irradiated Crystalline GaAs J.Malik, K.L.Bhatia, <u>N.Kishore</u>, N.C.Mehra, A.S.Maan, D.R.Goyal Proceedings DAE Solid State Physics Symposium, held at Jiwaji University, Gwalior on Dec. 26-30, 2003.
- Effect of MoO3 on EPR and Optical Transmission of vanadyl doped sodium borate glasses A.Agarwal, V.P.Seth, <u>N.Kishore</u>, M.Arora and S.K.Gupta XX International Congress on Glass, Kyoto (Japan) Sept. 26 - Oct. 01,2004
- 51. Effect of Fe₂O₃ on the DC conductivity of Lead Borate Glasses Sanjay, Sonam, Anshu, M.S.Sheoran, Ashish.Agarwal, V.P.Seth and <u>Nawal Kishore</u> National conference on All aspects of Condensed Matter Physics including Nano Materials BARC & TIFR Mumbai Dec. 5-9,2005
- 52. Semiconductor Photo Refracting Mixing in Applied Magnetic Field D.Sharma, P.Aghamkar,M.Singh, Surender,S.Rohilla & <u>Nawal Kishore</u> National Conference on All aspects of Condensed Matter Physics including Nano Materials BARC & TIFR Mumbai Dec. 5-9, 2005
- 53. Effect of Externally Applied Electric and Magnetic Fields on Semiconductor Photorefractivity D.Sharma, P.Aghamkar, M.Singh, Surender, S.Rohilla, <u>N.Kishore</u> National Laser Symposium-2005 Vellore Institute & Technology Vellore Dec 7-10,2005
- 54. Non Linear Absorption and Self Phase Modulation of Brillouin Stokes Mode in Magnetized Ill-V Semiconductor Waveguide M.Singh, P. Aghamkar, D.Sharma, Surender, S.Rohilla & <u>N.Kishore</u> National Laser Symposium-2005 Vellore Institute & Technology Vellore Dec 7-10,2005
- 55. Formation and Eraser of Photorefractive Gratting in GaAs : Cr in presence of dc Electric and Magnetic Fields
 D.Sharma, P.Aghamkar, M.Singh, Surender, S.Rohilla <u>N.Kishore</u>
 International Conference on Optics and Optoelectronics (ICOL) IRDE Dehradun Dec. 12-15,2005
- 56. Study of the Effect on Thermal Annealing of x B_2O_3 (95-x) TeO₂ 5 F₂O₃ Glass <u>N.Kishore</u>, Myo Lwin, Pho Kaung, M.S.Sheoran & P.K.Bajpai International Conference on Inter Disciplinary Approach in Physical Sciences C.CS University, Meerut Dec. 29 - 31,2005
- 57. Delivered on Invited Talk on "Swift Heavy Ion Solid Interaction in Chaleogenide Glasses" in International Conference on Inter Disciplinary Approach in Physical Sciences C.CS University, Meerut Dec. 29 - 31,2005

- 58. Attended EDUSAT workshop of Resource Persons on Scripit Writing and Multimedia Video Production at NITTR Chandigarh organized by Commissioner Higher Education Chandigarh on April 3-7, 2006.
- 59. Attended Indo-Japan Workshop 2006 on ZnO Thin Films and Devices held at University of Delhi South Campus, Delhi on Dec. 18 20, 2006.
- 60. Synthesis and Characterization of Nd₂O₃:/SiO₂ Nano Composition S.Duhan, P.Aghamkar, M.Singh & <u>N.Kishore</u> Proc. DAE Solid State Physics Symposium p 317-18 (2006) held on Barkatullah University Bhopal on Dec. 26 - 30, 2006.
- 61. Electrical Characterization and Dielectric Behaviour of Fe₂O₃ in Li₂O Bi₂O₃ B₂O₃ Glasses S.Rani, AAgarwal, Anshu & <u>N.Kishore</u> Proc. DAE Solid State Physics Symposium p 399-400 (2006) held on Barkatullah University Bhopal on Dec. 26 - 30,2006.
- 62. Structural Modification on Alkali Borate Glasses in Presence of W0₃ Anshu, S.Rani, AAgarwal, S.Sanghi, V.P.Seth & <u>N.Kishore</u>
 Proc. DAE Solid State Physics Symposium p 383-84 (2006)
 held on Barkatullah University Bhopal on Dec. 26 30, 2006.
- 63. Thermal & Electrical Properties of Mo0₃ PbO B₂0₃ Glasses Sanjay, M.S.Sheoran, <u>N.Kishore</u>, AAgarwal & V.P.Seth Proc. DAE Solid State Physics Symposium p 409-410 (2006) held on Barkatullah University Bhopal on Dec. 26 - 30, 2006.
- 64. Control of Optical Properties of Weakly Polar III-V Semiconductors by an Internal Magnetic Field
 M.Singh, P.Aghamkar, S.Duhan & <u>N.Kishore</u>
 Proc. DAE Solid State Physics Symposium p 811-12 (2006) held on Barkatullah University Bhopal on Dec. 26 30, 2006.
- 65. Attended EDUSAT workshop of Resource Persons at NITTR Chandigarh organized by Commissioner Higher Education Chandigarh on April 3-7, 2006.
- 66. Comparison between stimulated Raman and Brillouin Scattering Processes in Magnetized Doped III-V Semiconductors
 <u>N.Kishore</u>, M. Singh and P. Aghamkar SPIE, 6455, (2007), 38,(USA)
 Oral Presentation at San Jose Convention Centre San Jose, (USA) during International Symposium on Lasers & Applications in Science & Engineering held on Jan. 20-25, 2007.
- 67. Study of Electron Paramagnetic Resonance in Vandyl Doped Tungsten Lithin Borate Glasses
 Anshu, S.Rani, A Agarwal, S.Sanghi, <u>N.Kishore</u> & V.P.Seth 2nd National Conference on Condensed Matter and Material Physics (Abstract page c-6) held at University of Rajasthan, Jaipur on Feb. 1 3, 2007.

- 68. Structural Role of Transition Metal Oxide Li₂O Bi₂O₃ B₂O₃ Glasses Sonam Rani, Anshu, S.Sanghi, AAgarwal & <u>N.Kishore</u> 2nd National Conference on Condensed Matter and Material Physics (Abstract page c-16) held at University of Rajasthan, Jaipur on Feb. 1 - 3, 2007.
- 69. Thermal and Electriacal Properties of MoO₃ Bi₂O₃ B₂O₃ Glasses Sanjay, <u>N.Kishore</u>, AAgarwal, V.P.Seth & M.S.Sheoran 2nd National Conference on Condensed Matter and Material Physics (Abstract page c-20) held at University of Rajasthan, Jaipur on Feb. 1 - 3, 2007.
- 70. Attended the workshop on "Recent Trends in Nanotechnology" as Resonce person and delivered an invited Talk on Basics of Nan science organized by Deptt. Of Engineering and Technology M.D. University, Rohtak on 27.03.2007
- 71. Study of Electron Paramagnetic Resonance in vanadly doped tungsten lithium borate glasses, Anshu, S. Rani, A. Agarwal, S. Sanghi, <u>N.Kishore</u> and V.P. Seth.
 II National Conference on Condensed Matter and Material Physics, University of Rajasthan, Jaipur, Feb 1-3, 2007
- 72. Structural role of transition metal oxide in Li₂O. Bi₂O₃. B₂O₃, Anshu, S. Rani, A. Agarwal, S. Sanghi, <u>N.Kishore</u> and V.P. Seth. II national Conference on Condensed Matter and Material Physics, University of Rajasthan, Jaipur, Feb 1-3, 2007
- 73. Attended Seminar on "Nuclear Energy & Environment", Organised by Deptt. of EVS, GJUS&T, Hisar on 25-10-07.
- Paper entitled 'Radon, Thoron and their Progeny in Some Dwellings of Northan Haryana using SSNTDs'
 R. S. Saini, Mahabir Nain, R.P. Chauhan, S.K.Chakarvarti& <u>Nawal Kishore</u>, 15th National Symposium on Solid State Nuclear Track Dectector and Their Applications, June-21-23, 2007, HNB Garhwal University (Uttarnchal)
- 75 Attended National Workshop on E-Waste Management, Organised by Deptt. of EVS, GJUS&T, Hisar on 15-12-07.
- 76. Attended Workshop on Impact of TEQIP & Excellence in Engineering Education"Organised by NIT Kurukshetra on 24 & 25-12-07.
- 77. Oral presentation on "Comparison between stimulated Raman and Brillouin Scattering Processes in Magnetised doped III-V semiconductors" during international symposium on lasers and applications in Science and Engineering held at San Jose Convention Centre, USA on January 20-25, 2007.
- 78. Attended Workshop on "Contemporary Communication Technology" 4 March 2008, organized by Department of Electronics and Communication Engineering, GJUS&T, Hisar

- 79. Delivered an invited talk "Nanotechnology A solution for world's future energy problem" during state level seminar on Energy Scenerio in India held at GCW, Rohtak on March 24-35, 2008
- 80. Attended International Conference on "Changing Environmental Trends and Sustainable Development (CETAS 2009)" organized by Deptt. of Environmental Science and Engineering, GJUST, Hisar. (February 9-11, 2009).
- 81. Attended Two-day National Conference on "Advances in Computer Networks & Information Technology (NCACNIT 09)" organized by Deptt. of Computer Science and Engineering, GJUST, Hisar. (March 24-25, 2009).
- 82. Attended National Workshop on "Recent Trends in Engineering & Technology (RTET 09)" organized by the Faculty of Engineering & Technology, GJUST, Hisar (March 17, 2009).
- 83. Attended International Training Programme conducted by University of Manitoba, Canada on "Introduction to Emerging Technologies for Learning" at Deptt. of Computer Science and Engineering, GJUST, Hisar (March 23-29, 2009).
- 84. Paper entitled 'Variation in concentration of radon and thoron with depth'
 R. S. Saini, R.P. Chauhan, S.K.Chakarvarti & <u>Nawal Kishore</u>,
 Sixteenth National Symposium on Solid State Nuclear Track Dectector and Their Applications, Nov.9-11, 2009 at GNDU, Amritsar
- 85. Attended International Workshop on Radiation Ecology held at BARC Mumbai on March 8-12, 2010.
- 86. National workshop on "Recent Trends in Engineering and Technology" GJUS&T, Hisar held on March 15, 2011
- Paper entitled "Synthesis and optical absorption studies of nano size cadmium oxide powder" in the International Conference on Advances in Condensed & Nano Materials (ICACNM-2011) on February 23- 26,2011 held at Panjab University, Chandigarh, India.
- Paper entitled "Investigation of Structural and Optical properties of MoO₃-PbO-B₂O₃: V₂O₅ Glasses" in the International Conference on Advances in Condensed & Nano Materials (ICACNM-2011) on February 23-26,2011 held at Panjab University, Chandigarh, India.
- 89. Paper entitled "Effects of Bi₂O₃ on the Dielectric Properties of Ternary Zinc Bismuth Vanadium Glasses" in the International Conference on Advances in Condensed & Nano Materials (ICACNM- 2011)
 on February 23-26,2011 held at Panjab University, Chandigarh, India.

- 90. Paper entitled "MeV energy ions induced effects on electronic transport properties of Ge-S glassy system" in National seminar on Advanced Materials and Devices GVM College, Sonepat from July 3-4, 2011
- 91. Paper entitled "Characterization and Optical Properties of Iron containing Bismuth Borate Glasses"in International Conference on Specialty Glass and Optical Fiber: Materials Technology and Devices (ICGF- 2011), 4-6 August, 2011 at CSIR-CGCRI, Kolkata.
- 92. Attended national workshop on "Patent awareness VIS-À-VIS intellectual property rights" organized by IPR & TC Cell, GJUS&T, Hisar on August 9, 2011
- 93. Attended national Seminar on "Hindi Bhasha, Media & Vaishwik Chunautiyan" organized by Deptt. of Advt. Mgt. & PR, GJUS&T, Hisar on September 16, 2011
- 94. Paper entitled "Study of Optical Properties of MoO₃ doped Bismuth Borate Glasses" National Conference on Recent Trends in Materials Science (RTMS-2011), 08-10 October-2011, at JUIT Solan – 173234, H.P., India
- 95. Synthesis and optical absorption studies of nano-size cadmium oxide powder, S.Dhankhar,
 R.S. Kundu, R. Punia, R. Dhar, J. Hooda and N.Kishore, Proceedings of International Conference on advances in Condensed and Nano Materials held at P.U. Chandigarh on February 22-26,2011
- 96. Delivered an Invited talk on Synthesis and Characterisation of Nanopowder and Thin Film of materials during National Conference on Recent Trends in Materials Science held at Dayal Singh College, Karnal on February 25-26, 2012
- 97. Attended National Conference on Global Challenges-Role of Sciences & Technology in Giving Their Solutions (GCRSTS-2012) Deptt. of Applied Sciences & Hum., ECE & CSE GJUS&T, Hisar March 3-4,2012
- 98. Participated in the Procurement and PMSS Training at Chandigarh 15 March 2012
- 99. Attended National Conference on "Role and Application of ICT in Inaaccessible Areas" Deptt. of Computer Science and Engineering GJUS&T, Hisar March 21, 2012
- 100. Interational Conference on Materials Science and Technology (ICMST 2012). Deptt. of Physics, St. Thomas College Pala Kottaayam, Kerala 10-14 June 2012
- 101. Attended consultaion programme of Senior Teachers and Administrators at IIM Indore on December 14-15, 2012 under TEQIP-II.

- 102. Delivered an invited talk on Imact of Nanotechnology on Environment during International Conference on "Emerging Trends in Physics for Environmental Monitoring & Management (ETPEMM-12)" held at Punjabi University Patiala on December 17-19, 2012 and chaired a session therein
- 103. Effect of Fe₂O₃ on Optical Properties of Heavy Metal based Silicate Glasses, proceedings of National Conference on Functional Material held at GVM Girls College Sonepat by MRSI, Delhi Chapter on September 24-25, 2012
- 104. Optical Properties of Ternary SiO₂Bi₂O₃TiO₂ Glass system, proceedings of National Conference on Functional Material held at GVM Girls College Sonepat by MRSI, Delhi Chapter on September 24-25, 2012
- 105. Effect of Nd₂O₃ on Optical basicity and electronic polarizibality of barium-zinc borate Glasses, proceedings of National Conference on Functional Material held at GVM Girls College Sonepat by MRSI, Delhi Chapter on September 24-25, 2012.
- 106. Synthesis of Ni doped ZnO nano particles by Sol-gel method, proceedings of National Conference on Functional Material held at GVM Girls College Sonepat by MRSI, Delhi Chapter on September 24-25, 2012
- Synthesis and Optical Properties of TeO₂-BaO-ZnCl₂ Glasses, Proceedings of National Conference on Functional Material held at GVM Girls College Sonepat by MRSI, Delhi Chapter on September 24-25, 2012
- 108. Effect of Fe₂O₃ on Physical and optical properties of Bismuth Silicate Glasses, R. Parmar, R.S. Kundu, R. Punia, S. Dhankhar, P. Aghamker and N.Kishore, Proceedings of International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials held at University of Delhi, Delhi on March 13-16,2012
- 109 Development of Novel tellurite based glasses for optic mid IR applications, S. Dhankhar, R.S. Kundu, R.Dhar, J.Hooda. R. Parmar and N.Kishore, Proceedings of International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials held at University of Delhi, Delhi on March 13-16,2012
- 110 Study of structural properties of heavy metal based oxide glasses, S. Dahya, A.Sharma, Sanjay, N.Kishore, R.S. Kundu, Proceedings of International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials held at University of Delhi, Delhi on March 13-16,2012
- 111. Synthesis and characterisation of Bi₂O₃-B₂O₃-ZnO glasses, Meenakshi, Kirti, Sarita Sharma, S.Dhankhar, R.S. Kundu and N.Kishore, Proceedings of International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials held at University of Delhi, Delhi on March 13-16,2012
- 112. Structural investigation on Ni-doped ZnO Nano particles, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013

- 113. Improtance of transition metal doped ZnO Nano materials, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 114. Applicability of Dyre's Random free energy barrier model to bismuth modified zinc vanadate glasses, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 115. Rare earth ions modified glassy networks for optoelectronic applications, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 116. Effect of Temperature on Real Part of the Electric Modulus of Bismuth Zinc Vanadate Glass, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 117. Effect of transition metal ions on optical basicity and electronic polarizability of bismuth silicate glasses, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 118. Effect of bismuth on the physical properties of novel tellurite based glass, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 119. Structural study of Zinc doped bismuth boro-tellurite glasses, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 120. Effect of Nd₂O₃ on optical basicity and electronic polarizability of barium-tellurite-borate glasses, Proceedings of New Frontiers in Physics held at D.N. College, Hisar during March 12-13, 2013
- 121. Study of optical properties of bismuth modified zinc vanadate glasses by spectroscopic ellipsometry, Proceedings of International Conference on Electron Microscopy and XXXV Annual Meeting of EMSI held at University of Delhi, Delhi on July 9-11,2014
- 122. Physical and Structural Characterization of bismuth, zinc vanadate glass ceramics, Proceedings of International Conference on Electron Microscopy and XXXV Annual Meeting of EMSI held at University of Delhi, Delhi on July 9-11, 2014
- 123. Physical and Structural Properties of B₂O₃-SiO₂-Bi₂O₃-TeO₂ glass system, Proceedings of International Conference on Electron Microscopy and XXXV Annual Meeting of EMSI held at University of Delhi, Delhi on July 9-11,2014
- 124. Fabrication and effect of annealing temperature of structural properties of Sol-gel derived ZnO thin films, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014

- 125. Effect of Fe₂O₃ on Physical and thermal properties of Bismuth Silicate Glasses, Rajesh Parmar, R.S. Kundu, R. Punia, P. Aghamkar and **N.Kishore**, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 126. Structural analysis of Fe₂O₃ doped bismuth silicate glasses by Raman spectroscopy, R.S. Kundu, R. Parmar, R. Punia, P. Aghamkar and N.Kishore, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 127. Phase formation and electrical properties of vanadium substituted barium titanate, Preeti, R.S Kundu, R.Punia, N. Ahlawat, N.Kishore, J.K. Juneja, Sangeeta Singh, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 128. Structural characteristics of TiO₂ containing bismuthate glasses by FTIR spectroscopy, R.S. Kundu, Meenakshi Dult, Sarita Sharma, R.Punia and N.Kishore, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 129. Optical properties of 50SiO₂:(50-x)Bi₂O₃.xFe₂O₃ glasses, Rajesh Parmar, R.S Kundu, R. Punia, P. Aghamkar and N.Kishore, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 130. Effect of TiO₂ on physical and thermal properties of bismuth silicate glasses, Meenakshi Dult, Kirti Nanda, R. Punia, R.S Kundu and **N.Kishore**, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 131. Structural investigations of TiO₂ containing silicate glasses by Raman Spectroscopy, R.Punia, Meenakshi Dult, Rajesh Parmar, N.Kishore and R.S. Kundu, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014.
- 132. Reitveld Refinement of Ni doped ZnO Nano Particles Synthesized by Sol-Gel method, R.S. Kundu, Sarita Sharma, Preeti Sharma, R. Punia and N.Kishore, Proceedings National Symposium on Electroceramics, Materials and Devices (NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014.

- 133. MeV Ni+/Ag+ ions induced effects on elecronic transport properties of Ge₄₂S₅₈ and Ge₂OS₈₀ glassy system, R.S. Kundu, N.Kishore, R. Punia, Jai Pal Hooda, Proceedings of International Seminar on High Temprature Materials held at Institute of Technology BHU, Deptt. of Mechnical Engg., Varanasi, India on February 23-25, 2009.
- 134. Frequency dependant dielectric studies of Ni doped ZnO nano particles, Sarita Sharma, Kirti Nanda, R. Punia, R.S. Kundu and **N.Kishore**, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014.
- 135. Optical properties of Nd³⁺ containing BaO-ZnO-B₂O₃ glasses, Kriti Nanda, Sarita Sharma, R. Punia, R.S. Kundu and **N.Kishore**, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014.
- 136. Optical characterization of Ni doped ZnO nano particles synthesized by sol-gel route, R.Punia, Sarita Sharma, Meenakshi Dult, R.S. Kundu and N.Kishore, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 137. Physical properties and DC conductivity of ZnO modified MoO₃.V₂O₅ glasses, R. Punia, Rakesh Sharma, Kirti Nanda, R.S. Kundu and **N.Kishore**, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 138. Applicability of hydrogenic excitonic model for Nd³⁺ modified barium-zinc borate glasses, R.S. Kundu, Kirti Nanda, R.Parmar, R.Punia and **N.Kishore**, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 139. Optical Characterization of Fe₂O₃ Modified Bismuth Silicate Glasses: An applicability of Hydrogenic Excitionc Model. R.Punia, R. Parmar, R.S. Kundu, P. Agahmker and N.Kishore, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 140. Structural Investigations of TiO₂ Containing Silicate Glasses by Raman Spectroscopy, R.Punia, Meenakshi Dult, R. Parmar, **N.Kishore** and R.S. Kundu, Proceedings National Symposium on Electroceramics, Materials and Devices(NSE-MD-2014) organized by GVM Girls College, Sonipat and MRSI, Delhi Chapter on February 21-22.2014
- 141. DC electrical Conductivity studies on PANI/Zinc nitrate composites, S.L. Goyal, Smriti Sharma and **N.Kishore**, Proceedings National Conference on Photonics and Materials Science held at GJUS & T., Hisar on March 20-21,2014

- 142. Third order non-linear optical properties of amorphous chalcogenide thin films, Sunita Rani, D.Mohan, **N.Kishore** and Ajay Shanker, Proceedings National Conference on Photonics and Materials Science held at GJUS & T., Hisar on March 20-21,2014
- 143. Impedance studies of Ni doped ZnO nanoparticles synthesized by Sol-gel method, R. Punia, Sarita Sharma, R.S. Kundu, Meenakshi Dult and N.Kishore, Proceedings National Conference on Photonics and Materials Science held at GJUS & T., Hisar on March 20-21,20

(V) BOOKS PUBLISHED

- Advanced College Physics Volume-I V.P.Seth, S.P.Taneja, <u>N.Kishore</u> Vijaya Publications, Ludhiana (Pb.) (1989)
- Advanced College Physics Volume-II S.P.Taneja, <u>N.Kishore</u>, V.P.Seth Vijaya Publications, Ludhiana (Pb.) (1989)
- Solid State Physics and Electronics S.P.Taneja, <u>N.Kishore</u>, V.P.Seth Vijaya Publications, Ludhiana (Pb.) (1990)
- Nuclear Physics and Elementary Particles
 <u>N.Kishore</u>, V.P.Seth, S.P.Taneja
 Vijaya Publications, Ludhiana (Pb.) (1991)
- Advanced College Practical Physics <u>N.Kishore</u> & V.P.Seth Vijaya Publications, Ludhiana (Pb.) (1992)
- Electronics and Nuclear Physics <u>N.Kishore</u>, V.P.Seth, S.P.Taneja Vijaya Publications, Ludhiana (Pb.) (1992)
- Optics: Waves and Oscillations
 V.P.Seth, S.P.Taneja and <u>N.Kishore</u>
 Vijaya Publications, Ludhiana (Pb.) (1994)
- Solid State Physics, Atomic, Molecular and Laser Physics V.P.Seth, and <u>Nawal Kishore</u> Vijaya Publications, Ludhiana (Punjab) (2004)
- Quantum Mechanics and Nuclear Physics <u>Nawal Kishore</u> and V.P.Seth Vijaya Publications, Ludhiana (Punjab) (2004)

- Atomic, Molecular, Laser and Nuclear Physics
 V.P.Seth, and <u>Nawal Kishore</u>
 Vijaya Publications, Ludhiana (Punjab)
 (2011)
- Solid State Physics and Quantum Mechanics
 V.P.Seth, and <u>Nawal Kishore</u>
 Vijaya Publications, Ludhiana (Punjab)
 (2011)
- 12. Quantum Mechanics, Laser and Nuclear Physics <u>Nawal Kishore</u> and V.P.Seth Vijaya Publications, Ludhiana (Punjab) (2011)

(W) SYMPOSIA/CONFERENCES/WORKSHOPS/PROGRAMMES ORGANISED

(a) As Convenor/Chairman/Director

- 1. National Symposium on Frontiers in Condensed Matter Physics (NSFCMP-02). March 22-23, 2002.
- 2. Workshop on "Recent Trends in Security Printing", GJUS&T, Hisar, 2008.
- 3. National Seminar on "Recent Trends in Printing Technology". GJUS&T, Hisar, March13-14, 2009.
- 4. Workshop on "Emerging Trends in Packaging Technology",GJUS&T, Hisar in April 2009.
- 5. Workshop on "IUAC Acquaintance Programme on Accelerator Based Science & Technology", GJUS&T, Hisar, October 23, 2009.
- 6. Celebration of UN day on October 24, 2010 was made by organizing a lecture on Activities and Utility of United Nations by Sh. Madan Lal Goyal, Deptt. of Political Science, Govt. College Hisar. The function was attended by Hon'ble Vice Chancellor, Registrar, other dignitaries, staff members and students of the University.
- 7. Workshop on "Trends in Optical Coatings for Head-Up-Display and High Laser Damage Threshold' on June 27, 2011
- 8. Organised National Science Day function on February 28, 2012 with Hon'ble Vice-Chancellor as Chief Guest and Dr. S. Gumasta, Add. Chief Engineer, NPCIL, Hisar as Keynote speaker in the Department of Applied Physics. The Speaker delivered a talk on Clean Energy and Nuclear Safety.
- 9. Organised Faculty Development Programme under TEQIP-II on September 20-28, 2013.
- 10. Organised Staff Development Programme under TEQIP-II on September 26-27, 2013.
- 11. Organised Technical Staff Development Programme under TEQIP-II on September 27-28, 2013.
- 12. Organised Workshop on Vacuum, Plasma and Thin film deposition techniques November 24-25, 2014 at CBLU, Bhiwani.

(b) As Member

1. National Conference on Photonics and Material Science held by the Deptt. of Applied Physics, GJUS&T, Hisar on March 20-21, 2014.