CURRICULUM – VITAE

1.	Name:	Dr. H. S. Tewari
2.	Present Position:	Associate Professor in Physics
3.	Father's Name :	Shri R. J. Tewari
4.	Date of Birth:	June 01, 1963
5.	Permanent Address :	Dr. H.S. Tewari, A-10, Ganesh Enclave, Near Petrol Pump, Chhoti
		Koni, Bilaspur – 495009 (C.G.), India

 Address for communication:Dr. H. S. Tewari, Physics Department of Pure & Applied Physics Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur –495009, INDIA E-mail : tewarihs@yahoo.com; tewari.hs@gmail.com Mobile : 094241 40587
Area of Pasaarah : Materials Science, Electronic Caramics, Multiferroics

7. Area of Research : Materials Science, Electronic Ceramics, Multiferroics.

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8. Academic Qualifications

- (i) Ph. D. (Materials Engg. Metal. Engineering) in 1994 from Indian Institute of Technology – Banaras9Formerly known as Institute of Technology Hindu University, India from Centre of Advance Study in Metallurgy, Department of Metallurgy, Varanasi
- (ii) M. Tech. (Materials Technology) in 1987 from Indian Institute of Technology Banaras Hindu University, School of Materials Science and Technology. Varanasi
- (iii) M. Sc. (Physics) 1984 from D. D. U. Gorakhpur University, Gorakhpur, India

8. Publications:

- Total 17 papers published in international and national journals.
- Approximately 35 conferences/seminars attended to present research work.
- One book jointly edited (2006)

9. Experience (Teaching and Research):

At present, working as Associate Professor in Physics, Guru Ghasidas University since September 2005till date. From Sept. 1996 to Aug. 2005 worked as a lecturer and senior lecturer respectively. Before this I have research and teaching experience while working as a research associate from March 1994 to September 1996 in Barkatullah University and Guru Ghasidas University, Bilaspur

10. Other Activities/Achievements:

- 1. Warden: Boy's Hostel (session 2003 2004)
 - 2. Program Officer: National Service Scheme (1999 2002)
 - 3. Associate Editor: Chhattisgarh Journal of Science and Technology (upto 2006)

11. Membership of Professional Societies/ Organizations:

1. Life Member : Materials Research Society of India

a. **Post Doctoral Work**:

- 1) Research experience in the field of dielectrics and high temperature superconductivity from March 1994 to April 1996 in the Department of Physics, BarkatullahUniversity, Bhopal.
- 2) Research experience in the field of preparation and characterization of electronics ceramics for sensor and other application as a Research Associate of C.S.I.R. at the School of Pure and Applied Physics, GuruGhasidasUniversity, Bilaspur from May 01, 1996 to September 20, 1996. First C. S. I. R. direct Research Associate in GuruGhasidasUniversity.
- 3) Visited as a expatriate faculty from Oct. 23, 2006 to July 31, 2008 to Department of Physics, Addis AbabaUniversity, Addis Ababa, Ethiopia, N E Africa for teaching UG and PG students.

Research Experience:

During Ph.D. (1987 – 1993): Total Seven Years Experience on preparation and characterization of Electronics Ceramics in the department of Metallurgical Engineering, B. H.U., Varanasi.

Post Doctoral Work:

Research experience in the field of dielectrics and high temperature superconductivity from March 1994 to April 1996 in the Department of Physics, Barkatullah University, Bhopal.

Research experience in the field of preparation and characterization of electronics ceramics for sensor and other application as a Research Associate of C.S.I.R. at the School of Pure and Applied Physics, GuruGhasidasUniversity, Bilaspur from May 01, 1996 to September 20, 1996. First C. S. I. R. direct Research Associate in Guru Ghasidas University.

Visited as a expatriate faculty from Oct. 23, 2006 to July 31, 2008 to Department of Physics, Addis AbabaUniversity, Addis Ababa, Ethiopia, N E Africa for teaching UG and PG students.

After Ph.D. (1994 - onwards): Total two years' experience on perpetration and Characterization of Dielectric and super conducting materials while working as a research associate of U.G.C. project in department of Physics, Barkatullah University from March 1994 to April 1996.

Total five months experience on synthesis and characterization of Oxide ceramic materials while working as a Research Associate of C.S.I.R. from May 1, 1996 to September 20, 1996 at department of physics, Guru Ghasidas University, Bilaspur.

Total approximately seventeen years' experience in the fields of Materials Science while working as a lecturer, Reader and Associate Professor of Physics, Guru Ghasidas University, Bilaspur.

- 1. Attended a **refresher course** in Physics organized by Department of Physics, University of Jammu and Academic Staff College, University of Kashmir, Srinagar from March 08 -28, 1999.
- 2. Attended an **orientation course** organized by Academic Staff College, Banaras Hindu University, Varanasi from Nov. 30 to Dec 27,1999.
- 3. Participated in QIP short-term course on "**Modern Magnetic Materials**" organized by Advanced Centre for Research in Electronics, Indian Institute of Technology, Powai, and Mumbai during May 15 26, 2000.
- 4. Participated in the **Regional Training course on Fiber Optics** University/College Teachers of South East Asia Sponsored by **UNESCO** and organized by Department of Physics, Indian Institute of Technology, Kharagpur during Feb. 12-24, 2001.
- 5. First C. S. I. R. direct Research Associate in Guru Ghasidas University.

- 6. Worked as Program Officer of **National Service Scheme** for University Teaching Department Guru Ghasidas University, Bilaspur (C.G.) from 1998 to 2002.
- 7. Attended ten days Training and orientation programme organized by Training and OrientationCenter, NSS, VikramUniversity, Ujjain (M.P.) during Oct. 8-17, 1999.
- 8. Participated in the Regional Training Course in University Science Teaching sponsored by **UNESCO** an organized by Indira Gandhi National Open University, New Delhi for teachers of South East Asia from November 15-26, 1999.
- 9. Working as a Warden, Boys Hostel, GuruGhasidasUniversity, Bilaspur.
- 10. Associate Editor, **Chhattisgarh Journal of Science & Technology;** A joint publication of G.G. University and Chhattisgarh Council of Science and Technology, Raipur till 2006.

LIST OF PUBLICATIONS:

Structural and dielectric properties of $Ba_4R_2Ti_4Nb_6O_{30}$ (R= Y, Sm and Dy) ferroelectric ceramics R Palai, RNP Choudhary, HS Tewari Journal of Physics and Chemistry of Solids 62 (4), 695-700	34	2001
Dielectric relaxator behaviour of Sr _{0.8} La _{0.2} Ti _{0.8} Co _{0.2} O ₃ O Parkash, L Pandey, HS Tewari, VB Tare, D Kimar Ferroelectrics 102 (1), 203-211	8	1990
Antiferroelectric phase transition in Pb $(Mg_{\frac{1}{2}}X_{\frac{1}{2}})O_3$ (X= Mo and W) R Palai, R N P Choudhary, H S Tewari Materials chemistry and physics 73 (1), 86-92	4	2002
Study of Electrical Conduction Behavior of the System $La_{1-x}Na_xCo_{1-x}Nb_xO_3$ (x ≤ 0.50) O Parkash, H S Tewari, V B Tare, D Kumar, L Pandey Journal of the American Ceramic Society 75 (11), 3141-3144	4	1992
Effect of Hg addition on synthesis of Bi-based superconductors V Shelke, H S Tewari, N K Gaur, R K Singh Physica C: Superconductivity 300 (3), 217-224	3	1998
Study of the electrical conduction behaviour of the $Ba_{1-x} La_x Ti_{1-x} Ni_x O_3$ (x ≤ 0.10) system O Parkash, H S Tewari, V B Tare, D Kumar Journal of alloys and compounds 190 (2), 243-247	3	1993
Electrical conduction in calcium yttrium titanium cobalt oxide $Ca_{1-x}Y_xTi_{1-x}Co_xO_3$ (x ≤ 0.15) O Parkash, HS Tewari, VB Tare, D Kumar Journal of Physics D: Applied Physics 26 (4), 676	2	1999
Dielectric properties of the system $Ca_{1-x}Y_xTi_{1-x}Co_xO_3$ (x ≤ 0.15) H S Tewari, O Parkash, V B Tare, D Kumar Journal of Materials Science 25 (4), 2181-2184	1	1990
Preparation and structure of the system $Ca_{1-x}Y_xTi_{1-x}Co_xO_3$ (x ≤ 0.15) HS Tewari, O Parkash, VB Tare, D Kumar Journal of materials science letters 7 (10), 1088-1089	1	1988
Dielectric Studies on B-site Double Mixed Barium Titanate System H S Tewari, S Chakraborty Journal of Pure Applied and Industrial Physics Vol 2 (3), 142-285		2012

Synthesis and electrical characterisation of the system Sr _{1-x} Gd _x Ti _{1-x} Co _x O ₃ using impedance spectroscopy H S Tewari, R K Singh ASIAN JOURNAL OF PHYSICS 6, 142-146	1997
Electrical conduction in the system $Sr_{0.90}La_{0.10}Ti_{0.90}M'_{.0.10}O_3$ (M'= Co, Ni or Cr) HS Tewari, RK Singh Bulletin of Materials Science 19 (6), 1067-1071	1996
Synthesis and Electrical Characterisation of the System Sr _{1-x} Y _x Ti _{1-x} Co _x O ₃ H S Tewari, V K Shelke, N K Gaur, R K Singh Materials Science Forum 223, 257-260	1996
The Electrical Conduction Behavior of the $Ba_{1-x}La_xTi_{1-x}Ni_xO_3$ (x ≤ 0.10) System O PARKASH, HS TEWARI, VB TARE, D KUMAR ChemInform 24 (13), no-no	1993
Study of electrical conduction behavior of the system $La_{1-x} Na_x Co_{1-x} Nb_x O_3 (x \le 0.50)$ O Parkash, HS Tewari, VB Tare, D Kumar, L Pandey Journal of the American Ceramic Society;(United States) 75 (11), 3141-4	1992
Model Investigation of radiative lifetime and internal quantum efficiency of small scale silicon nanostructures, S K Ghoshal, H S Tewari and Sioma Debala, ISST J. of Applied Physics, 2(1), (2011), 1-5	
DIELECTRIC RELAXATOR BEHAVIOUR OF $Sr_{0.8}La_{0.2}Ti_{0.8}Co_{0.2}O_3$ H S TEWARI, V B TARE, D KUMAR, OM PARKASH Proceedings of Indo-United States Workshop on Electronic Ceramics and	1990
Dielectric properties of the system Ca1-xYxTi1-xCoxO3 (x ≤ 0.15) HS Tewari, O Parkash, VB Tare Journal of Materials Science 25 (4), 2181-4 Dielectric characterization of the system Sr1-xGdxTi1-xCoxO3 (x = 0.10) using impedance spectroscopy H.S. Tewari1 and P.K. Sakharkar2 Volume 7 No. 2 Page No. 499-504 Dec 2010 Syntheses and Thermal Characterisation of Mixed (Sm-Y) Oxalates Prepared by Coprecipitation Method Presenjit Pauri, S.K. Ghoshal and H.S. Tewari, Material Science Research India , Volume 8 No. 1 Page No. 113-117 Jun 2011 Photonic applications of Silicon nanostructures S.K. Ghoshal and H.S. Tewari, Publication date 2010/12 Material Science Research India, Volume 7, Volume 7, D. D. Delivity in Chine Publication date 2010/12 Material Science Research India, Volume 7,	1990

Deposition and Characterization of SiO2 Films Using PECVD System R.K. PANDEY, H.S. TEWARI, A. M. MAHAJAN, D.K. GAUTAM, Proceedings of International conference on nanoscience, engineering & advanced computing (icneac-2011)

Volume-03, ISBN No. 978-81-8465-683-1, Page 295 - 298

Model investigation of Temperature and concentration dependent luminescence of erbium doped tellurite glasses,

S K Ghoshal, S R Sahar, H S Tewari and M S Rohani, AIP conference proceeding on "XVI National Seminar on Ferroelectrics and Dielectrics (NSFD- XV), 1372, (2011), 449-462

Nanophotonics for 21 Century and Beyond 21st Century, Ghoshal S. K., Tewari H S, Pandey R. K., Sahar M. R. and Rohani M. S., Published in Proceeding of National Seminar on "Current Trends on Nanoscience and Nanotechnology - 2011" held on June 25th-26th, 2011 Organized by Rungta College of Engineering and Technology, Bhilai, page 6-10

Conference/Seminar Presentations

Dielectric Relaxor Behaviour of Sr0.80La 0.20Ti 0.80Co0.20O3 Om Prakash, H. S. Tewari, V. B. Tare and Devendra Kumar Presented in INDO – US Workshop held at National Chemical Laboratory, Pune during Jan. 8-9, 1989 Studies on Electric Behaviour of the System, Ca1-xY1-xTi1-xCoxO3 (X<0.15) using Complex Plane Impedance Analysis Om Parkash, H.S. Tewari, V.B. Tare and Devendra Kumar Presented in 1st Annual General Body Meeting of Materials Research Society of India held in Pune, Feb. 9-10, 1990 Barrier Layer Formation in Sr0.70Nd0.30 Ti 0.70 Co 0.30 O3 Om Prarkash and H.S. Tewari Presented in 2nd Annual Meeting of Materials Research Society of India held in National Physical Laboratory New Delhi, Feb. 9-10, 1991. Electron Microscopic Investigation during the Study of Kinetics of Heterogeneous Reactions V.B. Tare, J. S. Kachhawaha, Vikram Singh, B.D. Tripathi, U.S. Yadava, H.S.Tewari. Om Parkash and D.Kumar Presented at the Workshop cum Seminar on Scanning Electron Microscopy held in Department of Metallurgy, Banaras Hindu University, Varanasi during Feb. 25-26 1991 Effect of Cooling Rates on Dielectric Properties of the System Sr0.70Nd 0.30Ti 0.70Co0.30O3 Om Parkash, H.S. Tewari and V.B. Tare Presented in 56th Annual Meeting of Indian Ceramic Society held in Bhilai (M.P.) Studies on Electrical Conduction Behaviour of the System Ba1-xLaxTi1-xNixO3 Om Parkash, H. S. Tewari, V. B. Tare and D. Kumar Presented in 3rd Annual Meeting of Materials Research Society of India held in Indian Institute of Sciences, Bangalore, Feb. 9-10, 1992. Effect of Ionic Radii on Properties of the System Sr0.90La0.1Ti 0..90 M 0.1O3(M = Cr , Ni & Co) H. S. Tewari Presented as a Technical Paper during 57th Annual Session of the Indian Ceramic Society held in New Delhi Dec. 2-4, 1993 Studies on Dielectric Properties of Ceramics using Complex Plane Impedance Analysis L. Pandey . Om Parkash , H. S. Tewari , O. P. Thakur and D. Kumar Presented in 4th Annual Meeting of the Materials Research Society of India held at Regional Research Laboratory ,Trivendrum Feb. 9-10, 1993 Dielectric Properties of the System Ba1-xLa xSn1-xCoxO3 H. S. Tewari, Om Parkash and V. B. Tare Invited Presentation in National Seminar on "Materials for Marine Applications" organized by Naval Chemical and Metallurgical Laboratory, Defence Research and Development Organization (DRDO), Naval Dockyard, Bombay, March 3-4, 1994

Dielectric and Electrical Properties of Some Valence Compensate Perovskite Oxide H. S. Tewari Thesis presentation in Department of Atomic Energy Sponsored Solid State Physics Symposium - 94 held in University of Rajasthan, Jaipur during Dec. 27-31, 1994 Synthesis and Electrical Characterization of the System Ba1-xLa xSn1-xCoxO3 H.S.Tewari, V.B. Tare and Om Parkash Presented in 6th Annual Meeting of Materials Research Society of India held in Indian Institute of Technology ,Kharagpur, Feb. 7-10, 1995 Studies on Synthesis and Dielectric Characterizations of Valence Compensated System Sr1-xGd xTi1-xCox O3 H. S. Tewari Presented in 59th Annual Meeting On Indian Ceramic Society organized by Anna University, Madras during Jan. 10-11, 1996 Electrical Properties of the System Sr1-xYxTi x Co xO3 H. S. Tewari, Vilas Shelke, N.K. Gaur and R.K. Singh Presented in an International Seminar on Disordered Materials organized by Kurukshetra University, Kurukshetra Studies on Effect of Processing Parameters on Superconducting Behaviour of Hg doped Bi-2212 Ceramic H. S. Tewari, Vilas Shelke and R.K. Singh Presented in 15th National Symposium on Cryogenics (FNSC -96) organised by National Physical Laboratory, New Delhi and Indian Cryogenic Council during September 12-14, 1996 Dielectric Behaviour of the System La1-xNa1-xCo1-xNb1-xO3 H. S. Tewari and R.K. Singh Presented in National Symposium of Ferroelectrics and Dielectrics (NSFD - IX) held at National Physical Laboratory, New Delhi on Oct. 8-11, 1996 Synthesis and Electric Characterization of the System Sr1-xGd xTi1-xCoxO3 using Impedance and Modulus spectroscopy. H. S. Tewari and R. K. Singh Presented in DAE – BRANS Symposium on Electroceramics, organised by Saurastra University, Rajkot, March 13-15, 1996. Structural and Dielectric Characterisation of rare earth substituted perovskite oxide, Sr0.9Ln 0.1Ti0.9Co0.1O3(Ln = La, Nd and Gd)H.S. Tewari , AnshumanVyas and R. K. Singh Presented in Xth National Seminar on Ferroelectrics and Dielectrics, Organised by Indian Institute of Technology, Madras, 1998. Effect of dopant concentration on the dielectric behaviour of alanine doped TGS crystals P.K. Bajpai, N. K. Chandan, H. S. Tewari, T. Kundu and D. Chakravorthy Presented in DAE sponsored Solid State Physics symposium organized by Indira Gandhi Atomic Research Centre, Kalpakkam during Dec. 27-31, 1999 Effect of rare earth substitution on Dielectric properties of the system Sr0.9Ln0.1Ti0.9Co 0.1O3 H. S. Tewari, G.D. Verma, P.K. Bajpai and R.K. Singh Presented in the "National Seminar On Recent Trends in Materials Science " held in ShriVenkateswaraUniversity, Tirupati during Nov. 25-27, 1999 Studies on dielectric properties of barium stannate based ceramics using impedance analysis H.S. Tewari Presented in XI National Seminar on Ferroelectrics and Dielectrics organized by Jammu University, Nov.1-3, 2000 Transport Properties of lanthanum cobaltate substituted barium stannate H.S.Tewari Presented in 64th annual Session of the Indian Ceramic Society held at Hyderabad during Jan. 28-31, 2001 Synthesis, Structure and Dielectric Characterization of lanthanum cobaltate substituted Barium stannate. H. S. Tewari Presented in Vth conference of the International Academy of Physical Sciences held in Jhansi and organized by Bundelkhand University during April 7-9, 2002. High Pressure studies of Titanium Carbide.

AnuragSrivastava, P. Shiva Kumar, H. S. Tewari, and R. K. Singh

Presented in 45th DAE sponsored Solid State Physics symposium organized by Panjab University, Chandigarh (vol. 45, page 53) during Dec. 27-31, 2002

Effect of rare earth ions substitution on dielectric properties in strontium titanate based system. H. S. Tewari

Presented in National conference on current trends in Condensed Matter Research organized by Kakatiya University, Warangal during September 20 - 22, 2004.

Studies on dielectric properties of perovskite based Sr1-xGdx Ti1-xCoxO3 System.

Tewari H.S., Thirteenth National Seminar on Ferroelectrics and Dielectrics(NSFD-XIII), Nov 23-25, 2004, Delhi.

Synthesis ,Structure and Electrical Behavior of Yttrium and Cobalt Doped Calcium Titanate.

H. S. Tewari and Amit Godbole,

International Conference on Emerging Frontiers in Physical Science, Dec 21-23, 2004, Allahabad.

Synthesis and Electrical Studies on Yttrium Cobaltite Substituted Strontium Titanate.

Tewari H.S., Godbole Amit, Parkash O. and Kumar D.,

Thirteenth National Seminar on Ferro-electrics and Dielectrics (NSFD-XIII), Organised by Univ. of Del during Nov 23-25, 2004, Delhi.

Studies on dielectric properties of perovskite oxide based Sr1-xGdxTi1-xCoxO3 (x<0.50) system Tewari H. S.,

Thirteenth National Seminar on Ferro-electrics and Dielectrics (NSFD-XIII), Organised by Univ. of Delhi during Nov 23-25, 2004, Delhi.

Preparation and composition depedent dielectric properties of valence compensated solid solution,

Sr1-xYxTi1-xCoxO3.

Tewari H. S. and Godbole Amit,

Presented at National Seminar Organized by Manipur Central University during Feb. 17-18, 2005.

Synthesis and dielectric studies on sodium niobate substituted lanthanum cobaltate La1-xNaxCo1-xNbxO3.

H. S. Tewari and Amit Godbole

Presented in National Seminar on Advanced Materials Science held in D D University, Gorakhpur during March 17-19, 2005.

Optimization of efficiency of Polymer light emitting diodes

Devnath Dirhe, S. Tiwari and H S Tewari

Presented in National conference on Advances in Electronic materials and DevicesOrganised by Department of Pure & Applied Physics, Guru Ghasidas University, Bilaspur during March 5-6, 2006.

High Pressure elastic properties of $TiC_{1-x}N_x$.

A Srivastava, K G Roy, H S Tewari, R K Singh and B D Diwan

Presented in National conference on Advances in Electronic materials and Devices Organised by Department of Pure & Applied Physics, Guru Ghasidas University, Bilaspur during March 5-6, 2006.

Effect of Pressure on elastic constants of GaP

Anurag Srivastava, Alka Singh, Ishwar, H S Tewari and R K Singh

Presented in National conference on Advances in Electronic materials and Devices, Organized by Department of Pure & Applied Physics, Guru Ghasidas University, Bilaspur during March 5-6, 2006.

The Optical Band Gap of Silicon Quantum Dots: The Influence of Surface Passivation

S. K. Ghoshal, H. S. Tewari, G. A. Desalegn & E. A. Abebe

Presented in International conference organised by International Academy of Physical Sciences (CONIAPS-X) at Guru Ghasidas University, Bilaspur during Dec. 17-19, 2007

Microstructural studies on $(Ba,La)(Sn,Co)O_3$ ceramics using complex plane impedance spectroscopy H S Tewari

Presented in International Conference on multifunctional oxide materials organized Department of Physics, Shimla University, Shimla during April 16-18, 2009

Dielectric studies of double mixed perovskite oxide Ba_{0.90}La_{0.10}Ti_{0.90}Me_{0.10}O₃ T(Me=Co, Ni and Cr) Tewari H S and Alok Shukla

Presented in an International conference (CONIAPS – XI) of International Academy of Physical Sciences held in Allahabad at University of Allahabad during Feb. 19-21, 2010