

Guru Ghasidas Vishwavidyalaya

(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)

Koni, Bilaspur – 495009 (C.G.)

Report on XX National seminar on ferroelectric Dielectrics 2018

Date of Event: 14-16th December, 2018

Venue - Department of Pure and Applied Physics, GGV Bilaspur



Details of Event Proceedings

Date (DD-MM- YYYY)	Details of the Session	Details of Resource Person	Number of Participants
14-12- 2018	Registrati on at Rajat Jayanti Sabhagha r, GGV, Bilaspur,		300
	Inaugurati on of XX National Seminar on Ferroelect rics and Dielectric s, 2018 at Rajat Jayanti Sabhagha r, GGV, Bilaspur		300
	Key note address	Dr Ajit Sinha Director, UGC DAE CSR, Indore	300
	NSFD Theme Talk	Prof R N P Choudhary, SOA, Bubhaneshwar	200
	Session I	Chairman: Prof R N P Choudhary Invited Talk 1: Prof V R K Murthy, Former Head, Dept of Phy, IIT, Chennai Title of the talk: "Microwave Sintering Studies on Bulk and Nano Ceramics" Invited Talk 2: Prof M T Sebastian Retired Chief scientist, CSIR-NIIST, Trivandrum Title of the talk: "Materials for 5 th generation (5G)	200



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Invited Talk 3:Prof D Pamu Dept of Phy, IIT, Guwahati Title of the talk: The role of nanoceramics in microwave applications Oral Presentations 1. The Role of Rare-Earth Substitution in Modification of Electrical, Magnetic and Ferroelectric Properties of Multi-Perovskite Solid Solutions C. Behera 2. Dielectric and Domain Behaviour of Ferroelectric Al-doped KNbO ₃ Single Crystal. Sanjay kumar, H. Sham kuwar, Naresh M. Patil, Vivek B. Korde 3. Dielectric anomalies in Bismuth ferrite 4. Pardeep K. Jha and R.K. Dwivedi 5. Structural, Dielectric and Electrical Properties of Lead-Free Complex Perovskite Ferroelectric: (Sr0.2Bi0.8)(Fe0.8Ce0.2)O3 6. Bijuni C Sutar, Rutuparna Das, R.N.P. Choudhary 5. Structural and Dielectric Studies of Lead Doped Bismuth Layered Ceramics 6. P. L. Deepti-, Amrita Nayak, S. K. Patri and R. N. P Choudhary Poster Presentation 100 Session II Chairman : Dr V R K Murthy Invited Talk 4: Dr. A Dixit Depart of Phy, IIT, Jodhpur Title of the talk: "Magnetic ordering driven unconventional ferroelectrics" Invited Talk 5: Dr A K Himanshu VECC, Kolkatta Title of the talk: "Structural and ferroelectric studies of Sr ²⁺ -PZT: A potential material for high power piezoelectric transformer application" Oral Presentations Dysprosium substituted PZT dielectric ceramics S. C. Panigrahi, Piyush R. Das 7. Piezo-multiferroicity in Pb free perovskite		wireless communication and internet of things (IOT)"	
1. The Role of Rare-Earth Substitution in Modification of Electrical, Magnetic and Ferroelectric Properties of Multi-Perovskite Solid Solutions C. Behera 2. Dielectric and Domain Behaviour of Ferroelectric Al-doped KNbO ₃ Single Crystal. Sanjay kumar, H. Sham kuwar, Naresh M. Patil, Vivek B. Korde 3. Dielectric anomalies in Bismuth ferrite 4. Pardeep K. Jha and R.K. Dwivedi 5. Structural, Dielectric and Electrical Properties of Lead-Free Complex Perovskite Ferroelectric: (Sr0.2Bi0.8)(Fe0.8Ce0.2)O3 6. Bijuni C Sutar, Rutuparna Das, R.N.P. Choudhary 5. Structural and Dielectric Studies of Lead Doped Bismuth Layered Ceramics 6. P. L. Deepti ¹ , Amrita Nayak, S. K. Patri and R. N. P Choudhary Poster Presentation 100 Session II Chairman: Dr V R K Murthy Invited Talk 4: Dr. A Dixit Depart of Phy, IIT, Jodhpur Title of the talk: "Magnetic ordering driven unconventional ferroelectrics" Invited Talk 5: Dr A K Himanshu VECC, Kolkatta Title of the talk: "Structural and ferroelectric studies of Sr ²⁺ -PZT: A potential material for high power piezoelectric transformer application" Oral Presentations Dysprosium substituted PZT dielectric ceramics 8. C. Panigrahi. Piyush R. Das		Dept of Phy, IIT, Guwahati Title of the talk: The role of nanoceramics in microwave	
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7. Piezo-multiferroicity in Pb free perovskite		Depart of Phy, IIT, Jodhpur Title of the talk: "Magnetic ordering driven unconventional ferroelectrics" Invited Talk 5: Dr A K Himanshu VECC, Kolkatta Title of the talk: "Structural and ferroelectric studies of Sr ²⁺ -PZT: A potential material for high power piezoelectric transformer application" Oral Presentations Dysprosium substituted PZT dielectric ceramics	200
•		7 Piezo-multiferroicity in Ph free perovskite	



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		-7/m:	
		structured materials	
		Priyanka A. Jha and P. Singh	
		8. Relaxor behavior and Dielectric relaxation in $Sr_xBa_{1-x}Nb_2O_6$ (SBN) Electro-ceramic	
		K.N. Singh and P.K. Bajpai	
		9.Phase transitions in $(Ba_{1\text{-}x}Gd_x)(Ti_{1\text{-}x}Fe_x)O_3$ (0.1≤ x $\leq\!0.5$	
		Sushrisangita Sahoo, P K Mahapatra R N P Choudhary	
15-12-	Session II	Chairman: Dr A K Sinha	100
2018		Invited Talk 6: Prof D K Bisoyi NIT , Rourkela Title of the talk: "Material Characterization at Nano order length scale – A SAXS study" Invited Talk 7: Dr C Arora GGV, Bilaspur Title of the talk: "Synthesis, characterization and adsorptive removal of toxic organic dye using Iron based metal organic framework" Oral Presentations 10. Al ₂ O ₃ Modified BaSnO ₃ Thick Films with Improved Gas Sensing Properties 11. Rakesh Kumar Kurre and P.K. Bajpai 12. Investigation of Dielectric and Ferroelectric Properties of Triglycine Sulphate Crystal 13. Muzaffar Iqbal Khan and Trilok Chandra Upadhyay 12. THREE DIMENSIONAL SHAPES OF ELLIPTICAL GALAXY: NGC 7619 Arun Kumar Singh Invited Talk 8: Prof Smita Acharya RTM Nagpur University, Nagpur Title of the talk: "Interface engineering for tailoring ferroelectric and ferromagnetic behaviour of perovskite - spinel composite in multiferroic system" Invited Talk 9: Prof K Prasad T M Bhagalpur University, Bhagalpur Title of the talk: "Deformation-induced electromagnetic radiation using cement- piezoceramic composites – A step towards structural health monitoring"	
		Invited Talk 10: Dr Subhash Banerjee	



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		Title of the talk: "Design and Development of Hybrid Functional Nanomaterials for Organic Synthesis" Oral Presentations 13. Structural & Optical Properties of Dysprosium doped Calcium Zirconate Phosphor Ishwar Prasad Sahu* 14. Use of single source molecular precursors to synthesize metal chalcogenide nanoparticle 15. A. K. Tiwari and P. K. Bajpai 15. Electrical and Optical behavior of Pb _{0.5} Ba _{1.5} BiNbO ₆ double Perovskite B. N.Parida, Niranjan Panda, R.Padhee and R. K.Parida 16. Analysis of temperature and frequency dependent dielectric study, dynamic hysteresis loop and thermal energy conversion in BaZr _{0.05} Ti _{0.95} O ₃ ceramic G. Nag Bhargavi, T. Badapanda, A. Khare, S. Anwar, Nameeta Brahme	
16.12.2018	Session III	Chairman: Prof M T Sebastian Invited Talk 8: Prof Smita Acharya RTM Nagpur University, Nagpur Title of the talk: "Interface engineering for tailoring ferroelectric and ferromagnetic behaviour of perovskite - spinel composite in multiferroic system" Invited Talk 9: Prof K Prasad T M Bhagalpur University, Bhagalpur Title of the talk: "Deformation-induced electromagnetic radiation using cement- piezoceramic composites – A step towards structural health monitoring" Invited Talk 10: Dr Subhash Banerjee GGV, Bilaspur Title of the talk: "Design and Development of Hybrid Functional Nanomaterials for Organic Synthesis" Oral Presentations 13. Structural & Optical Properties of Dysprosium doped Calcium Zirconate Phosphor Ishwar Prasad Sahu*	150



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	Invited Talk 14: Dr D K Singh	
Session V	Chairman: Prof S B Kondawar	150
	Poster Presentation	100
	Ravi K. Shukla and K.K. Raina	
	nanocomposites and their devices applications	
	19. Soft materials-based dielectric/ferroelectric	
	B.B.Mohanty	
	18. TB structured ferroelectrics in Materials Research	
	M. Z. Khan, D.Uthra and Anil Kumar Choubey	
	calcium aluminate phosphor and combustion technique	
	Oral Presentations 17. Thermoluminescence (TL) of europium doped	
	Title of the talk: "Electrochemically PreparedPolyaniline and its Applications"	
	University of Lucknow, Lucknow	
	in real sample analysis" Invited Talk 13: Prof R K Shukla	
	fluorescent colorimetric chemosensors for detection of hazardous ions and their applications	
	Title of the talk: "Novel benzohydrazide based	
	Invited Talk 12: Prof G K Patra GGV, Bilaspur	
	Title of the talk: "Infrared to visible light-up- conversion effects in ferroelectric host materials"	
	Delhi University, New Delhi	
IV	Invited Talk 11: Prof K Srinivas	
Session	Chairman: Prof S K Rout	150
	G. Nag Bhargavi, T. Badapanda, A. Khare, S. Anwar, Nameeta Brahme	
	dielectric study, dynamic hysteresis loop and thermal energy conversion in BaZr _{0.05} Ti _{0.95} O ₃ ceramic	
	K.Parida16. Analysis of temperature and frequency dependent	
	B. N.Parida, Niranjan Panda, R.Padhee and R.	
	15. Electrical and Optical behavior of Pb _{0.5} Ba _{1.5} BiNbO ₆ double Perovskit	
	A. K. Tiwari and P. K. Bajpai	
	14. Use of single source molecular precursors to synthesize metal chalcogenide nanoparticles	



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	Title of the talk: "Nano-diamonds with Engineered Nitrogen-vacancies (NV): Photo- stable Source of single photons and uniformly bright bio-marker" Invited Talk 15: Prof S K Rout BIT, Mesra Title of the talk: "Energy Harvesting from Mechanical Vibration of Lead-Free piezoceramics" Invited Talk 16: Dr Rahul Singhal NIT, Jaipur Title of the talk: "Cu Nanoparticles in Fullerene C70 matrix" Oral Presentations 20. CURRENT RESEARCH IN FEROELECTRIC OXIDES Priyadarshini Sanghamitra Sahoo 21. Structural and electrical properties of dysprosia/lanthana doped nano-zirconia based electrolyte materials for intermediate-temperature solid oxide fuel cell. M. Pastor 22. Molecular polarizability and Perturbation of Absorption Spectroscopic Studies of Biologically Important Molecules: 2-Amino-4methyl-3-Nitro Pyridine by Polar and Non-Polar Solvents Vaishali Dixit	
Session VI	Chairman: Prof Smita Acharya Invited Talk 17: Prof Anurag Srivastava IITM, Gwalior Title of the talk: "Air Pollution Challenges and Opportunities: 1D and 2D Nanomaterial based Sensors" Invited Talk 18: Dr Ayush Khare NIT, Raipur Title of the talk: "An investigation on structural, electrical and optical properties of heterovalent ions doped Barium Zirconium Titanate ceramics" Invited Talk 19: Prof Balak Das University of Lucknow, Lucknow Title of the talk: "Studies on structural transformation, enhanced magnetic and optical	150



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	properties of Mn-substituted BiFeO3 thin films"	
	Oral Presentations 23. Experimental evidence of magnetoelectric Coupling in BaTiO ₃ / Fe ₃ O ₄ , MultiferroicHeterostructures	
	B.K. Pandey and S.B. Krupanidhi	
	24. A versatile single electron transfer living radical polymerization to prepare well defined design of polymacromonomers	
	Bhaskar Sharma	
	25. Synthesis, Structural, dielectric and electrical characteristics of BiFeO ₃ -NaNbO ₃ solid solutions: A case study for Bi _{0.8} Na _{0.2} Fe _{0.8} Nb _{0.2} O ₃	
	Manojit De*, Sugato Hajra, Rashmi Tiwari, Sushrisangita Sahoo, R.N.P. Choudhary, H.S. Tewari	
Session	Chairman: Prof K Prasad Invited Talk 20: Prof Anachal Srivastava University of Lucknow, Luckn Title of the talk: "ZnO Based Films as Transparent Conducting Electrode" Invited Talk 21: Dr M N Tripathi GGV, Bilaspur Density Functional Study of Lead-free Photovoltaic Materials Invited Talk 22: Dr S K Singh GGV, Bilaspur Title of the talk: "From metal to metal – free nano catalysis routes to sustainable chemistry" Oral Presentations 26. Dielectric and magnetic studies of phase pure GaFeO ₃ multiferroic material Ranajit Dey and P. K. Bajpai	100
	27. Quantum Oscillations and Spin-momentum locking in (Sn/Pb)Bi2Te4 3D Topological insulator	
	Priyanath Mal, Ganesh Bera, G. R.Turpu, C. V. Tom and Pradip Das	
	28. Induced Ferroelectricity in Cr doped FeVO4 Multiferroic materials	
	Ganesh Bera, V. R. Reddy, A. Surampalli, P. Mal, P. Das and G. R. Turpu	
	29. Deposition and characterization of CuS/PVA nanocomposite thin films using sol-gel route: Effect	



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	of annealing Sandhya Yadav and P.K. Bajpai	
Session	Chairman: Prof K Prasad	300
VI	Invited Talk 23: Prof S B Kondawar RTM Nagpur University, Nagpur Title of the talk: "Recent advancement of nanofibers fabrication for energy, sensor, textiles and biomedical applications" Invited Talk 24: Dr Soma Das GGV, Bilsapur Title of the talk: "De-stabilization of charge order state through in-homogeneity in Oxygen content in polycrystalline Eu _{0.2} La _{0.3} Sr _{0.2} Ca _{0.3} MnO ₃ " Invited Talk 25: Dr S P Patel GGV, Bilsap Title of the talk: "Growth and Properties of Glancing Angle deposited Co thin films on Ion Eroded Rippled Surfaces"	300
	Oral Presentations 30. Structural, Optical and Morphological Properties of CdTe Nanoparticles Synthesized using a hree Steps Hydrothermal Route Rekha Garg Solanki and P Rajaram 31. Chiral Recognition of (R) and (S) Valuable Terminal Epoxides by Vibrational Circular Dichroism Spectra: Density Functional Theory	
	Approac Santosh Singh Thakur and Deepak Pate 32. Structural, Morphological and Vibrational Characterization of La doped Ni-Zn Ferrites Rashmi Tiwari, Vasundhara Shahu, Manojit De, M.P. Sharma, and H. S. Tewari	
	33. Electrical properties of Nd doped 0.5BiNdxFe1-xO3-0.5PbZrO3 (x = 0.05, 0.1 and 0.2) Ambika Ray, Tanmoy Basu, <u>Banarji Behera</u> and P. Nayak	
	34. Opto-electronic properties of ZnO phases along predicted route of phase transition: A first-principles sSantosh Singh, and Madhvendra Nath Tripathi	



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A Brief Abstract of the Event (Maximum 500 Words):

Report on XX - National Seminar on Ferroelectrics and Dielectrics (NSFD) National Conference

A bi-annual conference of National Seminar on Ferroelectrics and Dielectrics (NSFD) being organized at Guru Ghasidas Vishwavidyalaya from 14 – 16 December, 2018. This is the 20th occurrence of this conference which is highly acclaimed for its success in furthering research in the area of ferroelectrics and dielectrics, spreading research culture and networking various groups with in the country. The conference wasinaugurated by Dr Ajit Sinha, Director, UGC DAE CSR, Indore along with Prof Kamal Singh, former Vice Chancellor, Amaravati University on 14th December 2018. Dr Sinha, delivered key note address where he mentioned about the researches carried out by the faculty members of the department by utilizing the facilities of UGC DAE CSR, and the role of the scientists from the department in the area of materials science. The conference hosted around 20 invited talks by various national and international repute scientists including wide ranging areas in the field of materials science. The conference is attended by more than 150 delegates and several poster presentations and oral presentations were made by the attendees. The conference was very much fruitful in bringing together all the researchers working in this field and laid path for collaborations between various institutes.



Some glimpses of the conference including the opening ceremony





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