## Curriculum Vitae

Full Name:	Dr. SURESH CHANDRA GAIROLA				
Designation:	Professor				
Department:	Physics				
Campus:	Pauri				
Telephone:	(01368) 2222	275	<b>Fax:</b> (01368) 221509		
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Mobile:	9456368043				
Email		vahoo co in	scoair	ola@rediffmail.com	
Education Qua	_	Degree,	_	Jniversity,	Year
		-		University, Srinagar (Garhwal)	(1988)
				niversity, Faizabad, U.P.	(1992)
Teaching Expe			ars	Research Experience:	_29 Years
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Membership of					
1. Indian Physic		94 <b>_</b> 4.10110			
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3. Nuclear Track	•				
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3. 'Electron and Phonon in Raman Spectra of LO phonon of Gallium Phosphide' presented in 4<sup>th</sup> International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with applications (CDAMOP-2015), organized by Department of Physics & Astrophysics, University of Delhi, Delhi, India from March 11<sup>th</sup> -14<sup>th</sup>, 2015.

4. 'Effect of Electron Phonon Interaction on Microwave Attenuation of silicon' presented in the **International Conference on Condensed Matter & Applied Physics(ICC2015),** organized by Department of Physics, Govt. Engineering College, Bikaner during October 30-31, 2015.

5. 'Electron phonon interaction in Raman Spectra of transverse optical(TO) phonon of Gallium phosphide' presented in the **International Conference on Condensed Matter & Applied Physics(ICC2015),** organized by Department of Physics, Govt. Engineering College, Bikaner during October 30-31, 2015.

## National

1. 'Phonon - Phonon Interaction in Microwave Attenuation of Semiconductor Crystals' presented in the **National Conference on Advances in Material Science for Energy Applications** (AMSEA-2014), organized by Department of Physics, University of Petroleum and Energy Studies (UPES), Dehradun, India held on January 9-10, 2014.

2. 'Theory of Phonon - phonon Interaction in an Isotopically Disordered Semiconductor Crystals' presented in the National Conference on Future Perspectives of Science & Technology In Society and Governance(FPSTSG-2014), organized by Department of Chemistry, Physics & Mathematics, S.S.V. College, Hapur (U.P.),India, held on 29-30 November, 2014.

3. 'Phonon - Phonon Interaction in Optical Absorption of Gallium Phosphide' in the 8<sup>th</sup> National Conference on Thermophysical Properties (NCTP-2015), organized by Department of Physics, Malaviya National Institute of Technology Jaipur, held from December 14-16, 2015.

4. 'Anharmonic Effects on Debye-Waller Factor of Semiconductor Crystals' in the **3<sup>rd</sup> National Conference on Multifunctional Advanced Materials,** organized by Himalayan Center of Excellence in Nanotechnology, Shoolini University, Solan(H.P.), India from May 11-13, 2016.

5. 'Anharmonic Effects on Phonon Lifetime in Isotopically Disordered Semiconductor Crystals' in the **National Conference on Science & Technology for National Development**, organized by The Indian Science Congress Association: Haridwar Chapter and Department of Chemistry, Gurukula Kangri Vishwavidyalaya, Haridwar, held from November 20-22,2016.

6. 'Theory of Electron Density of States in Isotopically Disordered Semiconductor Crystals' in the **National Conference on Current Trends in Applied Sciences,** jointly organized by I.Q.A.C. & Faculty of Science, J.V.Jain College, Saharanpur, UP, held on 18<sup>th</sup> & 19<sup>th</sup> March-2017.

7. Active participation and Worked as a convener of transport committee in the **19<sup>th</sup> annual** conference of  $Vij\tilde{n}ana$  Parishad of India on Recent Advances in Mathematics and

Mathematical Sciences and their Applications (RAMMSA 2016) & Symposium on Fixed Point Theory and Applications held during November 10-12, 2016, organized by Department of Mathematics, H. N. B. Garhwal University Campus Pauri, Pauri, Pauri(Garhwal), Uttarakhand, India.

8. Participated in one day **National Seminar on Higher Education and Possibilities of Open University** on dated 02.12.2014, organized by Uttarakhand open University, held at H. N. B. Garhwal University Campus Pauri, Pauri, Uttarakhand, India.

Publications during last five years (2014-2019)

Journals

1. Debye-Waller Factor in an Isotopically Disordered Semiconductor Crystal, Gairola, S. C., Acta

Physica Polonica A,129(6), pp 1141-1146(2016).ISSN: 0587-4246. Indexed Journal Journal Impact factor: 0.43 2.Phonon – Phonon Interaction in Raman Scattering of Germanium Chauhan, A. and Gairola, S. C. International Research Journal of Natural and Applied Sciences(IRJNAS) 2(4),pp 210-220(2015). ISSN(Online): 2349-4077 Indexed Journal Journal Impact factor : 2.818 3.Anharmonic Effects on Raman Scattering of Longitudinal Optical(LO) Phonon of Gallium Phosphide Chauhan, A. and Gairola, S. C. International Journal of Research in Engineering and Applied Sciences(IJREAS),5(4),pp 124-134(2015). ISSN(o): 2249-3905, ISSN(p):2349-6525. Indexed Journal Journal Impact factor-5.088 4.Phonon – Phonon Interaction in Spectral Density Function of Semiconductor Crystals Gairola, S. C. International Journal of Research in Engineering and Applied Sciences(IJREAS) 5(4), pp 106-114(2015). ISSN(o): 2249-3905, ISSN(p):2349-6525. **Indexed Journal** Journal Impact factor-5.088 5. Theory of Phonon Density of States of an Isotopically Disordered Semiconductor Crystals Gairola, S. C. International Journal of Research in Engineering and Applied Sciences(IJREAS) 5(3),pp 101-108(2015).ISSN(o): 2249-3905, ISSN(p):2349-6525. Indexed Journal Journal Impact factor-5.088 Books 1. Phonon Phonon Interaction in Infrared Absorption of Semiconductor Crystals Gairola, S. C. Published in the Book entitled Advances in Nanoscience, Editors A. K. Shukla, P. K. Jha, Manmohan, published by Nirmal Publication (India), Delhi,ch.20, pp 186-194(2015). ISBN: 978-81-931751-6-3 2. Theory of Electron Phonon Interaction in Semiconductor Crystals Gairola, S. C. Published in the Book entitled Electron Collision Processes in Atomic and Molecular Physics "Editor P. C. Minaxi Vinodkumar, Published by Narosa Publishing House Pvt. Ltd., New Delhi, ch. 3,pp 193-196(2014). ISBN : 978-81-8487-343-6.

**Total Number of Research Publications: 24**