

Bio-data

Dr. Puneet Negi

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Department of Physics

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Associate Editor: [Prabha Materials Science Letters \(PMSL\)](#)

Member of Editorial Board: [International Journal of Institutional & Industrial Research \(IJIR\)](#)

Reviewer: [Scientific Reports](#), [Current Journal of Applied Science & Technology](#), [Journal of Electronic Materials](#), [Current Microbiology](#), and [Vacuum](#).

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Research IDs: [Scopus](#) ; [Research Gate](#); [Orcid Id](#); [Google Scholar](#) (h-index: 13; i10-index: 15)

Research Interest: **Biophysics, Materials Science, Nanotechnology, Solar Energy Materials, Solar Energy Technology**

PERSONAL DETAILS

Date of Birth: October 29, 1984

Father's Name: Shri Yashpal Singh Negi

Mother's Name: Smt. Rekha Negi

Wife's Name: Mrs. Deepti

Daughter's Name: Ms. Vaanya

Sex: Male

Nationality: Indian

Permanent Address: S/O: Shri Yashpal Singh Negi, Vaidik Sadan (90), Shiv Colony, Shivalpur Pandey, Ramnagar, Ramnagar Range, Nainital, Uttarakhand -244715.

Residential Address: Room No.- 05/65, Sangat Building, Eternal University, Baru Sahib, Via Rajgarh, Ditt.- Sirmaur, Himachal Pradesh, Pin- 173101

PROFESSIONAL OBJECTIVE

To establish a career in the field of Teaching, Research and Development, where I can hone my skills and endorsed to the utmost.

EDUCATIONAL QUALIFICATIONS:

Exam. Passed	Board/Univ.	Roll No. (Year of Passing)	Marks Obtained/ Total Marks (%marks)	Div.	Subjects	Remarks
Ph.D.	G.B. Pant University of Ag. & Tech. Pantnagar (College of Basic Science & Humanities)	36992 (2014)	(76.46%)	First	Physics	Awarded
*Title of the Thesis: Swift Heavy Ion Irradiation Induced Effect on Nanostructured Multiferroic Gadolinium Manganite ($GdMnO_3$) and It's Derivatives University Name: G.B. Pant University of Agriculture and Technology, Pantnagar Guide's Name: Dr. H.M. Agrawal, (Rtd.) Prof. & Head Department of Physics, GBPUAT, Pantnagar Date of Award: 11 July 2014 (PDC); 15 April 2015 (Degree)						
B.Ed.	H.N.B. Garhwal University (K.L.D.A.V.P.G. College Roorkee)	51661390 (2007)	444/600 (74%) (Theory) & 176/200 (88%) (Practical)	First	Teaching of Mathematics & Science & others	
M.Sc.	Kumaun University, Nainital (D.S.B. Campus, Nainital)	56639 (2006)	767/1200 (63.9%)	First	Physics	Specialization in Electronics
B.Sc.	Kumaun University, Nainital (P.N.G. Govt. P.G. College Ramnagar, Nainital)	41881 (2004)	993/1350 (73.6%)	First	Physics Chemistry Mathematics	
Intermediate	U.P. Board (G.I.C. Ramnagar, Nainital)	239151 (2001)	339/500 (67.8%)	First	General Hindi, English, Physics, Chemistry, Mathematics	Distinction in Physics
High School	U.P. Board (G.I.C. Vanbhoolpura, Haldwani, Nainital)	476729 (1999)	447/600 (74.5%)	First	English, Hindi, Social Science, Biology, Science-Two, Mathematics-Two	Distinction in Hindi, Social Science & Biology

TEACHING EXPERIENCE: (08 Years 11 Months 10 Days)

Designation	University	Duration	From	To	Pay Scale
Assistant Professor (Regular)	Department of Physics (ACBS), Eternal University, Baru Sahib (H. P.)	07 Y 04 M 20 D	10/02/2016	30/06/2023 (Continuing)	15600-39100 (6000)
Assistant Professor (Ad hoc)	Department of Physics (ACBS), Eternal University, Baru Sahib (H.P.)	00 Y 02 M 04 D	05/12/2015	09/02/2016	15600-39100 (6000)
Teaching Personnel (Contractual)	Department of Physics (CBSH), G. B. Pant University of Ag. & Tech. Pantnagar, Uttarakhand, India. (01 Y 04 M 16 D)	00 Y 03 M 19 D	11/08/2015	30/11/2015	30000
		00 Y 04 M 10 D	20/01/2015	30/05/2015	20000
		00 Y 04 M 17 D	07/08/2014	24/12/2014	20000
		00 Y 04 M 00 D	21/01/2014	21/05/2014	20000

RESEARCH EXPERIENCE: [3 Years (during Ph. D.) + 3 Years (as a Project JRF along with Ph.D.) + 8 Years 11 Months 10 Days (during Teaching) = 14 Years 11 Months 10 Days]

- ✓ Worked as JRF in a research project entitled “**Swift Heavy Ion Irradiation Induced Effect on thin films of Nanostructured Multiferroic Gadolinium Manganite ($GdMnO_3$) and its derivatives**” at Department of Physics, G. B. Pant University of Ag. & Tech. Pantnagar, Uttarakhand, funded by IUAC, New Delhi through UGC from 1 April 2011 to 31 March 2014.
- ✓ Some outstanding experiments were performed at following well recognized labs:
 - Inter University Accelerator Centre (IUAC) New Delhi.
 - UGC-DAE Consortium for Scientific Research (Indore).
 - UGC-DAE Consortium for Scientific Research (Kolkata).
 - Jawaharlal Nehru University (JNU) Delhi.

TECHNICAL SKILLS:**(1) Synthesis/ Modification Techniques:**

- Synthesis of metal oxides (bulk and nanoparticles) using sol-gel and co-precipitation techniques.
- Thin film deposition using Pulsed laser deposition Technique (PLD), their characterizations & analysis.
- Swift heavy ion irradiation.

(2) Characterization Techniques:

- X-ray Diffraction Spectroscopy
- Raman Spectroscopy
- Fourier Transform Infrared Spectroscopy
- UV-Visible Spectroscopy
- Scanning Electron Microscopy
- Transmission Electron Microscopy

- Rutherford Backscattering Spectrometry
- Atomic Force Microscopy
- Vibrating Sample Magnetometry
- Superconducting Quantum Interference Device Magnetometry
- Dielectric Spectroscopy

(3) **Scientific Software's/ programming:**

- Basic knowledge of PowderX, Fullprof, Origin, SRIM, WSxM, Xrump, SIMNRA.
- Basic knowledge of FORTRAN 77, C Programming Language, MATLAB.

ACHIEVEMENTS/AWARDS AND HONORS/RECOGNITIONS:

- ✓ Received “**Meritorious Teacher Award- 2020**” in the 8th Convocation of Eternal University Baru Sahib held on May 07, 2022.
- ✓ Received **International Travel Support (ITS) grant** (Sanction order: Vide Diary No. SERB/F/7533/2014-15 Dated 02-02-2015) and under the same received reimbursement of amounting Rs. 96957 /- in year 2014-15 (Order: File No. SB/ITS-Y/01682/2014-15 Dated 19-02-2015).
- ✓ **JRF in a research project** entitled “Swift Heavy Ion Irradiation Induced Effect on thin films of Nanostructured Multiferroic Gadolinium Manganite ($GdMnO_3$) and its derivatives” **funded by IUAC, New Delhi** through UGC from 1 April 2011 to 31 March 2014.
- ✓ Qualified **GATE Exam in Year 2010**.
- ✓ **Received the First Prize in oral presentation** for presenting a research paper entitled “*Fabrication of Low Cost Solar Drying System Using Locally Available Materials for Preserving Agriculture and Horticulture Commodities*” in a multi-track national conference (SLIETCON–2019) organized by Sant Longowal Institute of Engineering and Technology, Longowal during March 01-02, 2019 at National Institute of Technical Teachers Training and Research, Chandigarh.
- ✓ **Resource person for Scientific Project Report Competition** ” in 28th HP Children’s Science Congress 2020 organized by the Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE), Kasumpti, Shimla through online mode during January 28 -30, 2021.
- ✓ **Resource person** in a two days workshop on “**Robotics, LED Making, Model Rocketry, Astronomy and Hydroponics**” in *Science Exhibition* during 2nd International Conference on Innovative Research in Engineering, Science and Technology (IREST-2017) at Eternal University, Baru Sahib organized by ACET, Eternal University, Baru Sahib & Sponsored by DST (New Delhi) in association with Vigyan Prasar (Noida) and Himachal Pradesh Patent Information Center (Shimla), India during April 07 -08, 2017.
- ✓ **Resource Person** for the demonstration of solar dryer system and involved in Panel Discussion in two days’ National workshop on “Solar and Smart Energy Systems for Sustainable Environment” during 6-7 April, 2018.
- ✓ **Resource person as an evaluator** of “**Science Model**” in 25th HP Children Science Congress 2017 organized by the Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE), Kasumpti, Shimla at Dr. Y. S. Parmar University of Horticulture & Forestry, Nauni, Solan during October 30th - November 02nd, 2017.

- ✓ Delivered **Guest Lecturer** on “**Basics of Raman Effect, Nanostructures Around Us and The Inspired Materials**” in **DST INSPIRE Internship Science Camp 2018 (DIISC-2018)** sponsored by Department of Science & Technology, New Delhi and organized by Eternal University Baru Sahib (H.P.) during January 03-09, 2018.
- ✓ **Resource Person** for demonstration of Physics Experiments in **DST INSPIRE Internship Science Camp 2018 (DIISC-2018)** sponsored by Department of Science & Technology, New Delhi and organized by Eternal University Baru Sahib (H.P.) during January 03-09, 2018.
- ✓ **Delivered a Guest lecture** on “**Save Energy**”, organized by **Save Energy Club, IB School, Baru sahib** on July 18, 2020.
- ✓ Invited as an **Eminent Speaker**: Delivered a popular science lecture on “**Nanoscience and Nanotechnology: Inspired From Existing Science in Nature**” during **VIRTUAL SCIENCE FESTIVAL-2021** [February 28, (National Science Day) - March 06, 2021] on March 02, 2021 organized by Physics Association and Botany Association of Radhey Hari Govt. P.G. College, Kashipur Uttarakhand.
- ✓ **Received appreciation letter** as being **Active Member of AQAR compilation committee** from Director, IQAC for successfully submitting the AQAR 2018-19 of Eternal University on Oct 19, 2019.
- ✓ **External Examiner**: Evacuated the M.Sc. thesis entitled “**Investigation of Structural and Elastic Parameters of Nickel Ferrite by XRD and FTIR**” of Ms. Nidhi Rawat (Id No.: 53986), Department of Physics, G.B. Pant University of Agriculture and Technology Pantnagar, Ditt.- U.S. Nagar, Uttarakhand. The viva-voce examination was conducted through online mode using Google meet link: <http://meet.google.com/wif-cboi-dip> on February 12, 2021.
- ✓ **External Examiner**: Evacuated the M.Sc. thesis entitled “**Study of Gamma Radiation Shielding Potential of Erbium-Zinc-Boro-Tellurite (EZBT) Glass Matrix**” of Mr. Manish Singh Rautela (Id No.: 56616), Department of Physics, G.B. Pant University of Agriculture and Technology Pantnagar, Ditt.- U.S. Nagar, Uttarakhand. The viva-voce examination was conducted through online mode using Google meet link: <http://meet.google.com/xut-upxv-mpa> on November 09, 2022.
- ✓ **External Examiner**: Invited as an external examiner for the End Semester Practical Examinations of B.Sc. (IIIrd) and M.Sc. (IInd) year students at the Department of Physics, School of Basic and Applied Sciences, Lingaya's Vidyapeeth, Faridabad on July 30- 31, 2020.
- ✓ **Associate Editor of Prabha Materials Science Letters** (*Ram Arti Publishers, India*).
- ✓ **Reviewer** of an International Journals “**Nature Scientific Report**”, “**Journal of Electronic Materials**”, “**Current Microbiology**”, “**Current Journal of Applied Science & Technology**” and “**Vacuum**”.

PROJECT PRINCIPAL INVESTIGATOR/ CO-PRINCIPAL INVESTIGATOR:

Project Co-PI: From Dec 28, 2017 to April 10, 2018

Project PI: From April 11, 2018 to 2020

Project Title: Design of Low Cost Mixed Solar Drying System for Horticultural and Agricultural Commodities of H.P.

Funding Agency: Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)/ State Council for Science, Technology & Environment (SCSTE), Himachal Pradesh

Sanction Order: Diary No.: SCSTE /F(8)-1/2017- 5075-76, dated 28-12-2017

Amount: Rs. 5,80,000 /-

PATENT:

1. A provisional Patent has been filed entitled “**AN IMPROVED SOLAR DRYER AND ITS APPLICATION THEREOF**” with Ref. No.: 202011035818 and Application No.: TEMP/E-1/39733/2020-DEL on August 20, 2020.

PUBLICATIONS:

Research Articles:

1. Tuning of structural, electrical and transport behaviour of cobalt nanoferrite by dysprosium ions substitution (2023) Hemaunt Kumar, **Puneet Negi**, Jitendra Pal Singh, Ramesh Chandra Srivastava, Subia Ambreen, K Asokan *Ceramics International*, 49(16) 27294-27302. DOI: <https://doi.org/10.1016/j.ceramint.2023.05.284> [Impact Factor: **5.532**], ISSN: 0272-8842; E-ISSN: 1873-3956. (31-05-2023)
2. Tailoring of structural, optical and electrical properties of anatase TiO₂ via doping of cobalt and nitrogen ions (2022) Anchal Sharma, **Puneet Negi**, Ruhit Jyoti Konwar, Hemaunt Kumar, Yogita Verma, Shailja, Prakash Chandra Sati, Bhargav Rajyaguru, Himanshu Dadhich, N.A. Shah, P.S. Solanki *Journal of Materials Science and Technology* 111: 287. <https://doi.org/10.1016/j.jmst.2021.09.014> [Impact Factor: **10.320**] ISSN: 1005-0302. (01-06-2022)
3. Utilization of biodegradable novel insulating materials for developing indigenous solar water heater for hill climates (2022) Sarbjeet Kaur, Ruhit Jyoti Konwar, **Puneet Negi**, Shashi Dhar, Kuldeep Singh, Shyam Singh Chandel, *Energy for Sustainable Development* 67: 21- 28. <https://doi.org/10.1016/j.esd.2022.01.001> [Impact Factor: **5.655**] ISSN: 0973-0826. (22-01-2022)
4. Effect on the dielectric properties due to In–N co-doping in ZnO particles (2021) Manpreet Kaur, Vishesh Kumar, Prabhsharan Kaur, Madan Lal, **Puneet Negi**, Rakesh Sharma, *Journal of Materials Science: Materials in Electronics* 32: 8991–9004. <https://doi.org/10.1007/s10854-021-05570-w> [Impact Factor: **2.779**] ISSN: 0957-4522; E-ISSN: 1573-482X (03-03-2021)
5. Recent advances on magnetoelectric coupling in BiFeO₃: Technological achievements and challenges (2021) Manish Kumar, Prakash Chandra Sati, Arvind Kumar, Mohit Sahni, **Puneet Negi**, Hemant Singh, Sunil Chauha, Sujeet Kumar Chaurasia, *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2020.10.685> ISSN: 2214-7853. (09-01-2021)
6. Structural, morphological and optical properties of Eu-N co-doped zinc oxide nanoparticles synthesized using co-precipitation technique (2018) M Kaur, P Kaur, G Kaur, K Dev, **P Negi**, R Sharma, *Vacuum* 155: 689-695. DOI: <https://doi.org/10.1016/j.vacuum.2018.06.046> [Impact Factor: **4.110**], ISSN: 0042-207X. (27-03-2019)
7. Effect of Pr³⁺ substitution on structural, dielectric, electrical and magnetic properties of BiFe_{0.80}Ti_{0.20}O₃ [Bi_{1-x}Pr_xFe_{0.80}Ti_{0.20}O₃, x = 0.05, 0.10, 0.15] ceramics (2018) P C Sati, M Sahni, M Kumar, M Arora, P Negi, M Tomar, V Gupta, N Kumar, *Integrated Ferroelectrics*, 193:11-13. DOI: 10.1080/10584587.2018.1514876 [Impact Factor: **0.836**], ISSN: 1058-4587; E-ISSN: 1607-8489. (27-03-2019)

8. Morpho-structural and Opto-electrical Properties of Chemically Tuned Nanostructured TiO₂ (2018) G Kaur, P Negi, M Kaur, R Sharma, RJ Konwar, A Mahajan *Ceramics International*, 44 18484-18490. DOI: <https://doi.org/10.1016/j.ceramint.2018.07.068> [Impact Factor: 5.532], ISSN: 0272-8842; E-ISSN: 1873-3956. (09-07-2018)
9. Tuning of structural and optical properties by sintering of multiferroic GdMnO₃ precursor (2017) Puneet Negi, Gagan Dixit, HM Agrawal, Hemaunt Kumar, RC Srivastava, PC Sati, Vinay Gupta, K Asokan, *Ferroelectrics* 519: 200- 208. [Impact Factor: 0.695], ISSN: 0015-0193, E-ISSN: 1563-5112. (05-12-2017)
10. Investigations of structural and transport properties of Ca doped yttrium manganites (2017) Gagan Dixit, Parmod Kumar, Puneet Negi, K Asokan, *Ferroelectrics*, 516:(1) 74-81. [Impact Factor: 0.695], ISSN: 0015-0193, E-ISSN: 1563-5112. (07-11-2017)
11. Magnetic Behaviour of Granular GdMnO₃ Film (2017) Puneet Negi, HM Agrawal, Jitendra Pal Singh, Hemaunt Kumar, RC Srivastava, K Asokan, Keun Hwa Chae, *Journal of Superconductivity and Novel Magnetism*, 30: 1419-1425. [Impact Factor: 1.675], ISSN: 1557-1939; E-ISSN: 1557-1947. (05-12-20216)
12. Structural and Magnetic study of Dysprosium substituted Cobalt Ferrite Nanoparticles (2016) Hemaunt Kumar, RC Srivastava, Jitendra Pal Singh, P Negi, HM Agrawal, D Das and Keun Hwa Chae, *Journal of Magnetism and Magnetic Materials*, 401: 16-21. [Impact Factor: 3.097], ISSN: 0304-8853; E-ISSN: 1873-4766. (30-09-2015)
13. Consequences of electronic excitations in CoFe_{1.90}Dy_{0.10}O₄ (2015) Hemaunt Kumar, Jitendra Pal Singh, RC Srivastava, P Negi, HM Agrawal, K Asokan, Sung Ok Won and Keun Hwa Chae, *Curr. Appl. Phys.*, 15: 1650-1656. [Impact Factor: 2.856], ISSN: 1567-1739; E-ISSN: 1878-1675. (17-06-2015)
14. Onset of size independent cationic exchange in nano-sized CoFe₂O₄ induced by electronic excitation (2015) Hemaunt Kumar, Jitendra Pal Singh, RC Srivastava, P Negi, HM Agrawal, Kandasami Asokan, Sung Ok Won, Keun Hwa Chae, *Journal of Alloys and Compounds.*, 645: 274–282. [Impact Factor: 6.371], ISSN: 0925-8388; E-ISSN: 1873-4669. (07-05-2015)
15. Structural, specific heat and magnetoresistive properties of Gd_{0.7}Ca_{0.3}MnO₃ (2014) P Negi, HM Agrawal and RC Srivastava, *Int. J. Materials Engineering Innovation*, 5(3): 216. ISSN: 1757-2762. (15-08-2014)
16. Effect of Sintering Temperature on the Structural Properties of Cobalt Ferrite Nanoparticles (2014) Hemaunt Kumar, RC Srivastava, Puneet Negi, HM Agrawal, Anurag Singh, *Int. J. Materials Engineering Innovation*, 5(3): 227. ISSN: 1757-2762. (15-08-2014)
17. FTIR and Electrical Study of Dysprosium Doped Cobalt Ferrite Nanoparticles (2014) Hemaunt Kumar, Jitendra Pal Singh, RC Srivastava, P Negi, HM Agrawal, K Asokan, *Journal of Nanoscience*, Volume 2014, Article ID 862415, 10 pages. ISSN: 2314-6931. (18-05-2014)

18. Dielectric Behaviour of Cobalt Ferrite Nanoparticles (2013) Hemaunt Kumar, RC Srivastava, P Negi, HM Agrawal & K Asokan, *International Journal of Electrical and Electronics Engineering (IJEET)* 2: 59-66, ISSN: 2278-9944; E-ISSN: 2278-9952. (01-02-2013)
19. HRTEM and FTIR investigation of nanosized zinc ferrite irradiated with 100 MeV oxygen ions (2013) Jitendra Pal Singh, Gagan Dixit, RC Srivastava, Puneet Negi, HM Agrawal, Ravi Kumar, *Spectrochim. Acta. A* 107: 326–333. [Impact Factor: 4.831], ISSN: 1386-1425. (10-01-2013)
20. Effect of Ce Doping on the Magnetic Properties of NiFe₂O₄ Nanoparticles (2013) G Dixit, P Negi, JP Singh, RC Srivastava, HM Agrawal, *Journal of Superconductivity and Novel Magnetism*, 26: 1015-1019. [Impact Factor: 1.675], ISSN: 1557-1939; E-ISSN: 1557-1947. (29-12-2012)
21. Structural, Optical and Magnetic Properties of Multiferroic GdMnO₃ Nanoparticles (2013) P Negi, G Dixit, HM Agrawal, RC Srivastava, *J. Supercond. Nov. Magn.* 26 1611-1615. [Impact Factor: 1.675], ISSN: 1557-1939; E-ISSN: 1557-1947. (19-12-2012)

Full Length Paper in International Conference Proceedings:

1. Fabrication of multiferroic GdMnO₃ thin film by pulsed laser deposition technique (2012) Puneet Negi, HM Agrawal, RC Srivastava, K Asokan, *AIP Conference Proceedings* 1451 169-171. ISSN: 1551-7616. (26-06-2012)
2. Magnetic Anomalies in Specific Heat and Dielectric Properties of Multiferroic GdMnO₃ (2013) Puneet Negi, Hemaunt Kumar, HM Agrawal, RC Srivastava, *AIP Conference Proceedings* 1512, 96-97. ISSN: 1551-7616. (06-02-2013)

Book Chapters:

1. Perspective of Agro-Based Bioenergy for Environmental Sustainability and Economic Development. (2021) Singh D, Singh M, Sharma IP, Gabba D, Gola U, Suyal N, Singh N, Negi P, Kumar N, Giri K, Soni R, Suyal DC In: *Renewable Energy and Green Technology Principles and Practices* (Eds. N. Kumar et al.). CRC Press, pp. 10.
2. Advances in Microbial Bioresources for Sustainable Biofuels Production: Current Research and Future Challenges. (2020) Kaur T, Devi R, Kour D, Yadav N, Prasad S, Singh A, Negi P, Yadav AN In: *Biofuels Production–Sustainability and Advances in Microbial Bioresources* (Eds. Yadav AN et al.) Springer International Publishing, Switzerland ISBN: 978-3-030-53933-7. DOI: 10.1007/978-3-030-53933-7
3. Technologies for biofuel production: current development, challenges, and future prospects (2019) D Kour, KL Rana, N Yadav, AN Yadav, AA Rastagari, C Singh, P Negi, K. Singh, AK Saxena, In: *AA Rastegari, AN Yadav, A Gupta (Eds) Prospects of Renewable Bioprocessing in Future Energy Systems*, Springer International Publishing AG, Switzerland, pp 1-52, ISBN: 9783030144630
4. Bioprospecting of Microbes for Biohydrogen Production: Current Status and Future Challenges (2019) S Kumar, S Sharma, S Thakur, T Mishra, P Negi, S Mishra, AEL Hesham, AA Rastegari, N

Yadav, AN Yadav, *In: G Molina, VK Gupta, BN Singh, N Gathergood (Eds) Bioprocessing for Biomolecules Production*, John Wiley & Sons- Scientific Publishers, United State, pp 443-472, ISBN: 9781119434320

5. Structural, Specific Heat and Conduction Mechanism in $Gd_{0.7}Ca_{0.3}MnO_3$ (2012) **P Negi**, HM Agrawal and RC Srivastava, *In: V Rajendran, R Yuvakkumar, K Thyagarajah, KE Geckeler (Eds) Application of Nano Materials: Electronics, Energy and Environment*, Bloomsbury Publishing India Pvt. Ltd., pp. 65-70. ISBN: 9789382563358
6. Raman Study of Cobalt Ferrite Nanoparticles (2012) Hemaunt Kumar, RC Srivastava, **Puneet Negi**, HM Agrawal and Anurag Singh, *In: V Rajendran, K Saminathan, P Paramasivam, KE Geckeler (Eds) Nano Materials Synthesis and Characterization*, Bloomsbury Publishing India Pvt. Ltd., pp. 163-168. ISBN: 9789382563365

Popular Articles:

1. **Dr. Puneet Negi** "Origin of the Universe: A Mysterious Story" EU Voice: Annual Magazine of Eternal University, pp. 35-37, Vol: II (2016).
2. **Dr. Puneet Negi**, Dr. Ajra Nath Yadav, Dr. Vinod Kumar "Thanks to Microbial Fuel Cells!" EU Voice: Annual Magazine of Eternal University, pp. 32-34, Vol: II (2016).
3. Ms. Gursimran Kaur, **Dr. Puneet Negi** "Titanium Dioxide (TiO_2): A Globally Demanding Material" EU Voice: Annual Magazine of Eternal University, pp. 23-24, Vol: III (2017).
4. **Dr. Puneet Negi**, Er. Kuldeep Singh "Scope of Solar Drying System in Himalayan Regions" EU Voice: Annual Magazine of Eternal University, pp. 38, Vol: IV (2018).
5. Mr. Sandeep Kumar, **Dr. Puneet Negi** "Design of Solar Water Heating System Using Locally Available Material" EU Voice: Annual Magazine of Eternal University, pp. 27, Vol: V (2019).
6. **Dr. Puneet Negi**, Anchal Sharma, Shailja, Yogita Verma "Perovskite Solar Cell: A Promising Photovoltaic Technology" EU Voice: Annual Magazine of Eternal University, pp. 30-31, Vol: V (2019).
7. **Dr. Puneet Negi**, Dr. Ruhit Jyoti Konwar "Reduced Graphene Oxide: A highly Desirable Material" EU Voice: Annual Magazine of Eternal University, (2020).
8. Dr. Ruhit Jyoti Konwar, **Dr. Puneet Negi** "Hydrogen: A Potential Energy Carrier" EU Voice: Annual Magazine of Eternal University, (2020).

Research Communications:

1. "Co-precipitation Preparation of Ternary doped (N-Ce-Cu)/ TiO_2 Nanoparticles and Their Characterizations" Gursimran Kaur, Manpreet Kaur, Aman Mahajan, Rakesh Sharma, Ruhit Jyoti Konwar, **Puneet Negi**; Conference on "National Conference on Functional Materials for Device Applications (NCFMDA)", at Guru Nanak Dev University Amritsar, Punjab, India during 9-10 March, 2018.
2. "Synthesis and characterization of Ternary doped (N-Fe-Cu)/ TiO_2 nanoparticles for Solar Cell application" Gursimran Kaur, Manpreet Kaur, Rakesh Sharma, Aman Mahajan, **Puneet Negi**;

Conference on “International Conference on Advance in Science & Technology, (ICAST-2018)”, at Rayat Bahra Ropar Campus, Punjab, India during 16-18 March, 2018.

3. “*Study of Nanostructured TiO₂ Synthesized by Two Different Chemical Techniques*” Gursimran Kaur, Manpreet Kaur, **Puneet Negi**, Rakesh Sharma, Ruhit Jyoti Konwar, Aman Mahajan; Conference on “4th National Conference on current advances in physical sciences, (CAPS-2018)”, at Khalsa College Amritsar, Punjab, India during 22 March, 2018.
4. “*Synthesis and Characterization of Ternary Doped (N-Ce-Cu)/TiO₂ Nanoparticles for Solar Cell Application*” Gursimran Kaur, Manpreet Kaur, **Puneet Negi**, Rakesh Sharma, Aman Mahajan; International Symposium on Functional Materials (ISFM-2018) held at Panjab University Chandigarh on April 13-15, 2018.
5. “*Preparation of Cu-N co-doped ZnO nanoparticles via sol-gel method and their application in dye sensitized solar cells*” Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh Sharma; 10th National Conference on Chemical and Environmental Sciences: Innovations and Advances-2018 (CES:IA-2018) held at Department of Chemistry, Punjabi University, Patiala on February 15-16, 2018.
6. “*Cu and N co-doped ZnO nanoparticles synthesized using co-precipitation method: Application in dye sensitized solar cells*” Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh Sharma; International Conference on Clean Technologies and Sustainable Development organized by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on February 23-24, 2018 at Chitkara University, H.P.
7. “*Structural, optical and electrical properties of In/N co-doped ZnO nanoparticles via co-precipitation method*” Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh Sharma; National Conference on Functional Materials for Device Applications (NCFMDA) at Guru Nanak Dev University, Amritsar on March 9-10, 2018.
8. “*Structural, Dielectric and Electrical properties of Eu and N co-doped ZnO Nanoparticles via Co-precipitation Method*” Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh Sharma; International Conference on Advance in Science & Technology, (ICAST-2018) held at Rayat Bahra Ropar Campus on March 16-18, 2018.
9. “*Comparative Study of ZnO Nanoparticles Synthesized by Co-precipitation and Sol-gel Method for Dye Sensitized Solar Cell Application*” Manpreet Kaur, Gursimran Kaur, Rakesh Sharma, Aman Mahajan, **Puneet Negi**; International Symposium on Functional Materials (ISFM-2018) held at Panjab University Chandigarh on April 13-15, 2018.
10. “*Synthesis and Structural Modification of Nickel Ferrite by Strontium Doping*” Sweta Sharma, Manpreet Kaur, Gursimran Kaur, Chirag, Manjeet Singh, Shilpa Kumari, Nitish Thakur, Rakesh Sharma, Ruhit Jyoti Konwar, **Puneet Negi**; International Conference on Science and Technology: Trends and Challenges (ICSTTC-2018) held at Gujranwala Guru Nanak Khalsa College, Civil lines, Ludhiana on 16-17 April 2018.

11. "Effect of Strontium Doping on Crystal Structure of Nanostructured Nickel Ferrite" Chirag, Manpreet Kaur, Gursimran Kaur, Sweta Sharma, Shilpa Kumari, Manjeet Singh, Nitish Thakur, Rakesh Sharama, Ruhit Jyoti Konwar, **Puneet Negi**; International Conference on Science and Technology: Trends and Challenges (ICSTTC-2018) held at Gujranwala Guru Nanak Khalsa College, Civil lines, Ludhiana on 16-17 April 2018.
12. "Cesium doped methylammonium lead iodide thin film: a perovskite light absorber for solar cell applications" Anchal Sharma, Yogita Verma, Shailja, **Puneet Negi**, National conference on "New Insights in Biological and Environmental Sciences (NIBS-2019)" held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019 (NIBES/PP/32).
13. "Methylammonium Bismuth Iodide Thin Film: A Promising Material for Solar Cell Application" Yogita Verma, Anchal Sharma, Shailja, **Puneet Negi**, National conference on "New Insights in Biological and Environmental Sciences (NIBS-2019)" held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019 (NIBES/PP/33).
14. "Importance of Tolerance Factor to Fabricate Perovskite Nano thin-films as a Solar Radiation Absorber" Shailja, **Puneet Negi**, Anchal Sharma, Yogita Verma, National conference on "New Insights in Biological and Environmental Sciences (NIBS-2019)" held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019 (NIBES/PP/34).
15. "Strain induced Magnetic Properties of Multiferroic GdMnO₃ thin film fabricated by Pulsed Laser Deposition" **P. Negi**, H. Kumar, H.M. Agrawal, R.C. Srivastava and K. Asokan, **Abstract Book 12th Joint MMM-Intermag**, Chicago, Illinois, **USA**, 643-644 (2013).
16. "200 MeV Ag Ion Irradiation Effect on Multiferroic GdMnO₃ Thin Films" **Puneet Negi**, Gagan Dixit, H. M. Agarwal, R. C. Srivastava and K. Asokan, **IUAC Annual Report 2012**.
17. "100 MeV O⁷⁺ Ion Irradiation Induced Effect on Multiferroic GdMnO₃ Nanoparticles" **Puneet Negi**, H. M. Agarwal, R. C. Srivastava and K. Asokan, **IUAC Annual Report 2013**.

CONFERENCES:

(a) International (Abroad):

1. Presented a research paper entitled "Study of Multiferroic GdMnO₃ Thin Film: An Exciting Magnetic Behavior" in the "XII International Conference on Nanostructured Materials (NANO-2014)" organized by Lomonosov Moscow State University at **Moscow, Russian Federation** during July 13 – 18, 2014.
[I am grateful to DST/SERB for selecting me as a Young Scientist to participate in the Conference under the International Travel Support scheme].
2. Presented a research paper entitled "Structural, Optical and Magnetic Properties of Multiferroic GdMnO₃ Nanoparticles" in **3rd International Conference on Superconductivity and Magnetism (ICSM) -2012 organized by Ankara University** at Kumburgaz, Istanbul-Turkey, 29 April-04 May, 2012.

(b) International (within country):

3. Presented a paper entitled "*Tuning of structural and optical properties by sintering of multiferroic GdMnO₃ precursor*" in the **International Conference on Technologically advanced Materials and Asian Meeting on Ferroelectrics (ICTAM-AMF10)**, at **University of Delhi** during November 7-11, 2016.
4. Presented a paper entitled "*Dye Sensitized Solar Cell: An Emerging Photovoltaic*" during 2nd International conference on "**Innovative Research in Engineering, Science and Technology (IREST-2017)**", at Eternal University, Baru Sahib organized by ACET, Eternal University, Baru Sahib & Sponsored by DST (New Delhi) in association with Vigyan Prasar (Noida) and Himachal Pradesh Patent Information Centre (HPPIC), Shimla, India during April 07 -08, 2017.
5. Presented a research paper entitled "*Study of Multiferroic GdMnO₃ Thin Film Fabricated by Pulsed Laser Deposition Technique*" in the "**2nd International Conference on Advanced Functional Materials (ICAFM-2014)**" organized by CSIR-National Institute for Interdisciplinary Science and Technology (NIIST) Council of Scientific and Industrial Research at Thiruvananthapuram, India during 19-21 February 2014.
6. Presented a paper entitled as "*Magnetic properties of diffused multilayered film of multiferroic GdMnO₃*" in **International conference on Magnetic Materials and Applications (MagMA-2013)** at IIT, Guwahati 05-07 December, 2013.
7. Presented a paper entitled as "*Nanostructured Multiferroic GdMnO₃: Optimization of Synthesizing Conditions and its Characteristics*" in **International Conference on Nanoscience and Nanotechnology (ICNN-2013)** at BBAU, Lucknow, 18-20 Nov. 2013.
8. Presented a paper entitled "*Magnetic study of multiferroic GdMnO₃ thin film irradiated by 200 MeV Ag⁺¹⁵ ion beam*" in **Swift Heavy Ions in Materials Engineering and Characterization (SHIMEC-2012)** at IUAC, New Delhi, October 9-12, 2012.
9. Presented a research paper entitled "*Structural and Electronic Transport Properties of Gd_{0.7}Ca_{0.3}MnO₃ Nanoparticles*" in "**International conference on Nanomaterials and Nano technology (ICNANO)**", 18- 21 December 2011 at Conference Centre, University of Delhi, Delhi, India.
10. Presented a paper entitled as "*Structural, specific heat and conduction mechanism in Gd_{0.7}Ca_{0.3}MnO₃*" in **6th International Symposium on Macro and supramolecular Architectures and Materials (MAM-12) Special theme: Nano Systems & Applications** at Le Meridien, Coimbatore, organised by College for Nanoscience& Technology, K. S. Rangasamy college of Technology, Tiruchengode, Namakkal, Tamilnadu, India, 21-25 December, 2012.

(c) National:

11. Presented a research paper entitled "*Fabrication of Low Cost Solar Drying System Using Locally Available Materials for Preserving Agriculture and Horticulture Commodities*" in a multi-track national conference (SLIETCON–2019) organized by **Sant Longowal Institute of Engineering**

and Technology, Longowal during March 1- 2, 2019 at **National Institute of Technical Teachers Training and Research, Chandigarh.**

12. Presented a paper entitled "*Design of Low Cost Mixed Solar Drying System for Horticultural and Agricultural Commodities of Himachal Pradesh*" in **Rural Innovators Startup Conclave-2018 (RISC-2018) at National Institute of Rural Development and Panchayati Raj (NIRD&PR), Rajendra nagar, Hyderabad** during august 30th – 31st, 2018.
13. Presented a paper entitled "*Finding of weak ferromagnetism at room temperature in granular GdMnO₃ film*" in a symposium on "**Science, Technology and Entrepreneurship for Human Welfare in the Himalayan Region**", the 86th Annual Session of the National Academy of Sciences, India at **Uttarakhand State Council for Science & Technology (UCOST) Dehradun**, on December 2- 4, 2016.
14. Presented a paper entitled "*Sintering effect on structural and optical behaviour of Multiferroic GdMnO₃*" in a **5th National Conference on "Chemical Sciences: Emerging Scenario and global challenges"** at **Arya P. G. College Panipat, Haryana** on 26 March, 2016.
15. Presented a paper entitled "*Magnetic Anomalies in Specific Heat and Dielectric Properties of Multiferroic GdMnO₃*" in **57th DAE, Solid State Physics Symposium (SSPS)** at IIT, Bombay, 03-07 December 2012.
16. Presented a research paper entitled "*Fabrication of Multiferroic GdMnO₃ Thin Film by Pulsed Laser Deposition Technique*" in "**Indian Vacuum Society Symposium on Thin films: Science & Technology (TFST-2011)**", 9-12 November 2011 at BARC, Trombay, Mumbai.

(d) State:

17. Presented a paper entitled "*Performance Evaluation of Flat Plate Collector Based Solar Water Heating System using Pine Needles as Insulating Material*" under the theme "**Chemical Sciences, Earth Sciences & Renewable Energy**" in **3rd H.P. Science Congress organized by Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE)** held at IIT, Mandi during 22-23rd October, 2018.
18. Presented a paper entitled "*Weak Ferromagnetism at Room Temperature in Granular GdMnO₃ Film*" under the theme "**Physical Sciences, Material Sciences and Nano Technology**" in **2nd H.P. Science Congress organized by Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE)** held in the Hotel *Peterhoff*, Shimla during 20-21st November, 2017.
19. Presented a research paper entitled "*Colossal Magnetoresistance Perovskite Manganites: A New Approach*" in **6th Uttarakhand State Science & Technology Congress-2011**, 14-16 November, 2011 at S. S. J. Campus, Kumaun University, Almora.
20. Presented a research paper entitled "*Structural and Optical Properties of Multiferroic GdMnO₃ Nanoparticles*" in **5th Uttarakhand State Science & Technology Congress-2010**, 10-12 November, 2010 at **Doon University, Dehradun.**

FACULTY DEVELOPMENT PROGRAM:

1. Participated in the **14-days Online Faculty Development Programme on “MATERIALS SCIENCE & NANOTECHNOLOGY (FDP-MSNT-2020)”** organized by Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai-48, during the period 03rd August to 17th August 2020.
2. Attended a **“Five days faculty development program on R-Programming”** during June 15-19, 2020 organized by Uttarakhand Science Education and Research Centre, Department of Information & Science Technology, Govt. Of Uttarakhand with IIT Mumbai, Spoken Tutorial & School of Computer Science & IT, Uttarakhand Open University, Haldwani.
3. Participated and successfully completed **3-days “Faculty Development Program for Student Induction (FDP-SI)”** during November 21-23, 2019 at Eternal University, Baru Sahib, Distt Sirmour, organized by All India Council for Technical Education (AICTE).

REFRESHER COURSES/ TRAINING PROGRAM:

1. Successfully completed an online training course on **“MATLAB Onramp”** on July 23, 2020 certified by MathWorks training services.
2. Participated in **“Two-Week Refresher Course on Experimental Physics”** from June 20 to July 05, 2017 in Department of Physics at G. B. Pant University of Ag. & Tech. Pantnagar, Uttarakhand organized by IASc, INSC & NASI.
3. Participated in **“Two-Week Refresher Course on Experimental Physics”** from April 14- 29, 2015 at IASc, Bangalore organized by IASc, INSC & NASI.

WORKSHOPS/LECTURE/SEMINAR/ WEBINAR:

1. Attended a **lecture** on **“The Future of Batteries”** on June 18, 2020 presented by Kelsey Hatzell, Yifei Mo, and Nella Vargas-Barbosa through BrightTALK.
2. Attended the **India First Leadership Talk webinar** broadcasted on May 02, 2020 organized by MHRD’s Innovation Cell.
3. Attended a **webinar** on **“Raman Spectroscopy and its applications”** delivered by Dr. Vasant Sathe on April 28, 2020 organized by Amity University.
4. Participated in the **“World’s Largest Drug Awareness Webinar”** with 1.05 Lakh views on YouTube and Facebook (Live) on June 26, 2020 organized by Kalgidhar Society, Baru Sahib (H.P.).
5. Attended a **lecture** on **“Homeopathy and Agro-homeopathy at a Glance: Facts and Figures”** delivered by Dr. Lakhwinder S Dhaliwal, Ph.D., DHMHS HOM(ON) in the university auditorium on February 20, 2020.

6. Participated in a **Python Workshop** organized by MSME-Technology Centre, Kaniya, Ramnagar on July 27, 2020.
7. Attended a National workshop on “**Innovative techniques of characterization, optimization & data analysis (ITCOD)**”, Chitkara University, Rajpura, Punjab, India, July 8-12, 2019.
8. Attended the one day workshop on "**Intellectual Property Rights: Issues and Challenges**" at Eternal University, Baru Sahib on March 28, 2019 organized by IPR Cell, Eternal University, Baru Sahib in association with HP Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh.
9. Attended special session on “**Intellectual Property Management for Research & Development**” at Eternal University, Baru Sahib organized by IPR Cell, Eternal University, Baru Sahib in association with Himachal Pradesh Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh during 2nd International Conference on Innovative Research in Engineering, Science and Technology (IREST-2017) held in Eternal University, Baru Sahib, H. P. on April 07 -08, 2017.
10. Attended the one day seminar on “**Renewable Energy: Sustaining a Green Future**” organized by the State Council for Science, Technology & Environment, Himachal Pradesh and the Energy Resource Institute (TERI), New Delhi on 23rd March, 2017 at Hotel Holiday Home, Shimla.
11. Attended the one day workshop on “**Intellectual Property Rights: Issues and Challenges (IPRIC-2017)**” at Eternal University, Baru Sahib on March 14, 2017 organized by IPR Cell, Eternal University, Baru Sahib in association with HP Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh.
12. Participated in an awareness workshop on “**The facilities of UGC-DAE Consortium for Scientific Research**”, jointly organised by the Department of Physics, D. S. B. Campus, Kumaun University (Nainital) and UGC-DAE-CSR centre (Indore) held at the Department of Physics (UGC Centre of advanced study) D. S. B. Campus, Kumaun University (Nainital), during 05-07 April 2016.
13. Participated in the National Workshop on “**Scientific / Research Paper writing**” organized by the National Academy of Sciences, India held from April 05-07, 2013 at Mohanlal Sukhadia University, Udaipur, Rajasthan.
14. Participated in the workshop on “**Radiation Science and Applications**” at Christ Church College, Kanpur organized by **UGC-DAE-CSR Centre, Kolkata** held during the period of February 10-11, 2012.
15. Participated in an orientation workshop on “**Thin Film Magnetism**” at **UGC-DAE-CSR Centre, Indore** held during the period of March 14-16, 2012.
16. Attended National School cum workshop on “**Magnetic Phase Transitions and Transformations**” organized by Department of physics, Jadavpur University, Kolkata & **UGC-DAE Consortium for**

Scientific Research, Kolkata Centre at Jadavpur University Main Campus, Jadavpur, Kolkata;
from August 3rd to 9th, 2011.

17. Participated in the one-day workshop on “**Advanced Materials and Nanotechnology**”, held in **Jaypee Institute of Information Technology**, NOIDA on 21st November, 2009.

Summer/Winter Schools:

1. Attended **3rd DST-SERC Summer School** on “**Solid State and Materials Chemistry**” held in **SSCU, Indian Institute of Science (IISc) Bangalore** from June 17 to July 07, 2010.
2. Participated in the First Winter School on “**Experimental Condensed Matter Physics**” from March 05- 20, 2010, held in **Department of Physics, Banaras Hindu University, Varanasi**.

Ph.D. Teaching Program, Advanced Lecture Series:

1. Attended **Ph.D. Teaching Program, Advanced Lecture Series**, semester- II, Module 2.4: **Cryogenics and Superconductivity** at **IUAC, New Delhi** from March 30 to April 21, 2010.
2. Attended the “**Webinar Series on Conceptual and Applied**”, jointly organized by department of Physics, School of Science, RK University and Department of Nanoscience& Advanced Material, Saurashtra University, Rajkot during May 5- 8, 2020.

ONLINE COURSES/ SURVEYS:

1. Successfully completed online course entitled “**Communication Skill**” offered by TCSiON, Digital Learning Hub, during April 28-29, 2020.
2. Successfully completed online course entitled “**Presentation Skill**” offered by TCSiON, Digital Learning Hub, during April 27- May 06, 2020.
3. Successfully completed online course entitled “**Culture and E-mail Writing**” offered by TCSiON, Digital Learning Hub, on June 19, 2020.
4. Successfully completed online course entitled “**Interview Skills**” offered by TCSiON, Digital Learning Hub, on May 08- 11, 2020.
5. A record of achievement was received on “**Standard precautions: Environmental cleaning & disinfection**” from World Health Organization under Health Emergencies Programme on May 30, 2020.
6. A record of achievement was received on “**Standard precautions: Hand Hygiene**” from World Health Organization under Health Emergencies Programme on May 31, 2020.
7. Received a confirmation of participation on “**COVID-19: How to put on and remove personal**

protective equipment (PPE)” from World Health Organization under Health Emergencies Programme on May 30, 2020.

8. Successfully completed a survey on **“Knowledge, Attitude and Practice regarding COVID-19” on 23 May 2020.**
9. Successfully completed a **short term course on “Research and Development in Composite Materials (RDCM-2020)** jointly organized by Department of Mechanical Engineering and Department of Physics, J.C. Bose University of Science and Technology, YMCA during July 27- 31, 2020.

ORGANIZED CONFERENCES/WORKSHOPS:

- ✓ **Member of organizing committee** of National conference on **“New Insights in Biological and Environmental Sciences (NIBS-2019)”** held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019.
- ✓ **Member of organizing committee** of 2nd International Conference on **“Innovative Research in Engineering, Science and Technology (IREST-2017)”** held in Eternal University, Baru Sahib, H. P. on 07- 08 April, 2017.
- ✓ **Organizing committee member** for the event of “Slogan and Poster Competition” under the theme **‘My contribution towards making India Clean’** in the Swachhata Pakhawada-2017 during September 1-15, 2017 at Eternal University, Baru-Sahib (H.P.).
- ✓ **Organizing committee member** and **event coordinator** for the event of “Slogan and Poster Competition” under the theme **‘My contribution towards making India Clean’** in the Swachhata Pakhawada-2018 during May 1-15, 2018 at Eternal University, Baru-Sahib (H.P.).
- ✓ **Co-ordination Committee member** of **Corporate Social Responsibility (CSR) Conference** held on September 22-23, 2018 at Eternal University Baru Sahib.
- ✓ **Organizing committee member** of the one day workshop on **"Intellectual Property Rights: Issues and Challenges"** at Eternal University, Baru Sahib on March 28, 2019 organized by IPR Cell, Eternal University, Baru Sahib in association with HP Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh.
- ✓ **Organizing committee member** in the National Conference on **“Healthcare in India: Need for Paradigm shift”** on August 31-September 01, 2019 organized by Eternal University, Baru Sahib (H.P.) in association with Helpage India and International Institute of Health Management Research (IIHMR), Delhi.
- ✓ **Organizing committee member** in the one day Seminar on **"Importance of Intellectual Property Rights"** at Eternal University, Baru Sahib on November 30, 2019 organized by IPR Cell, Eternal University, Baru Sahib in association with PHD Chamber of Commerce & Industries Himachal Pradesh Chapter.
- ✓ **Organizing committee member** in 21st INDO-US Flow Cytometry Workshop **“Basics of Flow Cytometry and its Applications in Plant Biology”** Jointly organized by Live Education Task

Force, International Society for Advancement of Cytometry (LETF-ISAC), Trust for Education and Training in Cytometry (TETC) & Eternal University at Eternal University, Baru Sahib, Himachal Pradesh February 6- 7, 2020, Via Rajghar, Distt.- Sirmour, Himachal Pradesh- 173101.

- ✓ **Organized a hands-on workshop-cum-training program** on February 23, 2020 (Sunday) at Gram Panchayat: Mattal Bakhog, Block: Rajgarh, District: Sirmour (H.P.) under the HIMCOSTE, Shimla funded project entitled “**Design of low cost mixed solar drying system for horticultural and agricultural commodities of Himachal Pradesh**” (Project Code: SCSTE / F(8)-1/2017-5075-76) as being **Principal Investigator** of the Project.
- ✓ **Faculty Coordinator** in National Conference “**Advanced in Food Science and Technology-2017**” on 24-25 March 2017 held at Eternal University, Baru Sahib, Sirmour (H.P.).

ADMINISTRATIVE WORK:

- ✓ **Head, Department of Physics**, since September 10, 2020 to till date.
- ✓ **Secretary, academic committee** of department of Physics.
- ✓ **Member Secretary**, committee constituted for Sponsored Research and Industrial Consultancy (SRIC).
- ✓ **Member** of Institution's Innovation Council
- ✓ **Member** of AQAR compilation committee
- ✓ **Deputy Examination Coordinator** in end semester examination June/July 2016 and December 2016 of Eternal University, Bar Sahib, India.
- ✓ **EU-Quiz Coordinator**, Eternal University Baru Sahib
- ✓ **Admission Coordinator** of Akal College of Basic Sciences, Eternal University, Bar Sahib, India.
- ✓ **Class In-Charge** of B.Sc. (2016-17) Batch of Akal College Basic Sciences, Eternal University Baru Sahib (H.P.).
- ✓ **Usher** in 5th, 6th and 7th convocation of Eternal University, Baru Sahib held on December 2, 2017, November 24, 2018 and November 23, 2019 respectively.
- ✓ **Active team member and (Mentor for focused area: Nanomaterials and Renewable Energy)** for the development of **proposed Atal Community Innovation Centre, Eternal University Baru Sahib** under Atal Innovation Mission, Niti Aayog, GOI.
- ✓ **Active member** of **Centralized Time Table Committee** for the smooth functioning of Academic session 2019-20 (Odd Semester).
- ✓ **Member Secretary** of **Centralized Time Table Committee** for the smooth functioning of Academic session 2019-20 (Even Semester).

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- ✓ Life time Member [Id: 4538] of the **Solar Energy Society of India (SESI)**.
- ✓ Life time Member [Id: 10675-L6868] of the **Indian Association of Physics Teachers (IAPT)**.
- ✓ Life time Member [Id: L29145] of **The Indian Science Congress Association (ISCA)**.
- ✓ Life time Member [Id: LMB2772] of the **Material Research Society of India (MRSI)**.
- ✓ Life time Member [Id: LM1736] of the **Electron Microscope Society of India (EMSI)**.
- ✓ Sessional Member of **The National Academy of Science, India (NASI)** in year 2016.

Ph.D. & M.Sc. STUDENTS GUIDED/ GUIDING:

S.No.	Name	Thesis Title	Status/ Date of Completion
DEGREE AWARDED			
Ph.D. Students			
1.	Ms. Gagandeep Kaur (BS20PSPHY001)	Study of transition metal and non-metal doped nanostructured titanium dioxide for solar energy applications (Tentative)	Pursuing (Synopsis Writing)
2.	Ms. Himani (BS17PSPHY001)	Study of structural and electrical properties of barium titanate based lead-free ferroelectric composite materials	Submitted (Feb. 2022)
3.	Ms. Gursimran Kaur (BS15PSP001)	Synthesis and characterization of tri-doped titanium dioxide nanostructures for dye sensitized solar cell application	Awarded (Sep. 14, 2019)
M.Sc. Students			
1.	Ms. Sweta Sharma (BS16MSPHY005)	Study the effect of strontium doping on nickel site in nanostructured nickel ferrite	Awarded (Sep. 28, 2018)
2.	Mr. Chirag (BS16MSPHY001)	The influence of strontium substitution on nickel site in nanostructured nickel ferrite	Awarded (Sep. 28, 2018)
3.	Mr. Arun (BS15MSP002)	The influence of magnesium substitution on nickel site in nanostructured nickel ferrite	Awarded (Sep. 21, 2017)
4.	Ms. Roman Ayoub (BS15MSP004)	Study the effect of aluminium doping on nickel site in nanostructured nickel ferrite	Awarded (Sep. 21, 2017)
5.	Ms. Anchal Sharma (BS18MSPHY002)	Study the doping effect of metal and non metal ions in nanostructured TiO ₂ for photovoltaic application	Awarded (May 07, 2022)
6.	Ms. Shailja (BS18MSPHY005)	Synthesis and characterization of titanium dioxide and its derivatives for photovoltaic application	Awarded (May 07, 2022)
7.	Ms. Yogita Verma (BS18MSPHY008)	Study the influence of transition metal ions doping in nanostructured TiO ₂ for photovoltaic application	Awarded (May 07, 2022)
UNDER SUPERVISION			
M.Sc. Students			
1.	Ms. Nisha Devi (BS21MPHY001)	Study of carbon doped nanostructured titanium dioxide for solar energy applications	Synopsis Submitted (Dec. 2022)
2.	Ms. Anjana Sharma (BS19MSPHY001)	Study of structural, optical, electrical and anti-microbial properties of TiO ₂ synthesized by sol-gel technique	Submitted (Oct. 2021)
3.	Ms. Diksha Chauhan (BS19MSPHY003)	Performance evaluation of a hybrid Solar drying system fabricated from locally available materials	Submitted (Oct. 2021)

REFERENCES

Dr. H. M. Agrawal (Advisor)

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Prof. Baldev Singh Sohal

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Declaration: I do hereby confirm that the information given in this resume is true and correct to the best of my knowledge.

Date: 28/06/2023

Place: Baru Sahib



(Puneet Negi)