



Title	Dr.	First Name	AMBIKA	Last Name		Photograph
Designation	ASSISTANT PROFESSOR					
Address	108A/9 Kishangarh, Vasant Kunj, New Delhi-110070					
Phone No Office						
Residence						
Mobile	+91-9990603644					
Email/ Web-Page	ambikanegi@gmail.com					
Educational Qualifications						
Degree	Institution				Year	
Ph. D (Physics)	H.N.B.G. UNIVERSITY SRINAGAR, UK, INDIA				2012	
M. Sc. (Physics)	H.N.B.G. UNIVERSITY SRINAGAR, UK, INDIA				2005	
B. Sc. (Physics)	H.N.B.G. UNIVERSITY SRINAGAR, UK, INDIA				2003	
Career Profile						
Teaching Experience <ul style="list-style-type: none">• 2016 – Till Date: Assistant Professor (Physics) -Adhoc at Department of Physics, Acharya Narendra Dev College (ANDC), University of Delhi, India.• January 2015 to August 2016: Assistant Professor (Physics)-(Adhoc/Guest), at Physics Department, Acharya Narendra Dev College, University of Delhi.						
Research Experience <ul style="list-style-type: none">• Dr D S Kothari post-Doctoral Fellow at Department of Physics and Astrophysics, Delhi University, India from February 2012 – January 2015.						
Administrative Assignments						
Committee Members: <ul style="list-style-type: none">• Alumni Committee• Fellowship Committee• Eco Club• Cultural Committee & Canteen Committee at ANDC, University of Delhi.						

Areas of Interest / Specialization
<ul style="list-style-type: none"> • Material Science • Non-conducting Polymers • Ion Beam Irradiation/Implantation.
Subjects Taught
<ul style="list-style-type: none"> • Thermal Physics • Solid State Physics • Mechanics • Physics Lab.
Research Guidance
Publications Profile
<ol style="list-style-type: none"> 1. Swift Heavy Ion induced modifications in CR-39 (DOP) and PET polymers. R.C.Ramola, Subhash Chandra, Ambika Negi, J.M.S.Rana, R.G.Sonkawade, P.K.Kulriya, and S.Annapoorani, Physica B: Condensed Matter 404 (2009) 26-30. 2. Effect of swift heavy ion irradiation on optical and structural properties of PSU Polymer films. Anju Semwal, Ambika Negi, R.G.Sonkawade, J.M.S.Rana and R.C.Ramola. Ind. J. Pure Appl. Phys. 48 (2010) 496-499. 3. Modifications induced by Li⁺³, Ni⁺⁹ and Au⁺⁹ ion beams to CR-39 polymer track detector. Ambika Negi, Subhash Chandra, R.G.Sonkawade, D.Kanjilal, J.M.S.Rana and R.C.Ramola. Radiation Measurements 46 (2011) 127-132. 4. Modifications in structural and optical properties of Makrofol-KG and PET by 120 MeV Ni⁺⁹ ion beam irradiation. R.C.Ramola, Ambika Negi, Anju Semwal, Subhash Chandra, J.M.S.Rana, R.G.Sonkawade and D.Kanjilal. J. Applied Polymer Science (2011) 121,3014-3019. 5. Opto-chemical response of Makrofol-KG to swift heavy ion irradiation. Ambika Negi, Anju Semwal, R.V.Hariwal, R.G.Sonkawade, D.Kanjilal, J.M.S.Rana and R.C.Ramola. Pramana (2011)77,707-714. 6. The role of Electronic energy loss in PET Polymer. Ambika Negi, Anju Semwal, R.V.Hariwal, D.Kanjilal, J.M.S.Rana and R.C.Ramola. Radiat. Effect & deffects in solids 166,8-9 (2011) 621-627. 7. A comparison of modifications imduced by Li and Ni ion beam to Lexan Polycarbonate. Anju Semwal, Ambika Negi, R.G.Sonkawade, J.M.S.Rana and R.C.Ramola Radiat. Effect & deffects in solids, Doi.org/10.1080/10420150.2013.777443. 8. Effect of Li and Ni ion beam on Polyethersulphone polymer Anju Semwal, Ambika Negi, R.G.Sonkawade, J.M.S.Rana and R.C.Ramola. Advance polymer in Technology,2013,3,21360. 9. Effects of Li and Au ion beams irradiation on Makrofol-KG by Ambika Negi, Anju Semwal, R.V.Hariwal, D.Kanjilal, J.M.S.Rana and R.C.Ramola. Radiat. Effect & deffects in solids, 168.(2013) 580-586.

10. Dielectric response of PMMA/ZnFe₂O₄ composites under 400 KeVAr⁺² ions by **Ambika Negi**, Fouran Singh, R.K.Kotnala, D. Kanjila and S. Annapoorni, Advance Science Letter. **20**, 1089-1093 (2014).
11. Ion Beams Induced Modifications in Polysulphone Polymer, by Anju Semwal, **Ambika Negi**, Teena Sehgal, Veena Joshi, Indra Sulania, F. Singh, and R. C. Ramola , Advance Science Letter. **20**, 1151-1154 (2014).
12. β -detected NMR of ⁸Li⁺ in Bi, Sb and the Topological Insulator Bi_{0.9}Sb_{0.1} MacFarlane, C.D.P. Levy, M.R. Pearson, T. Buck, K.H. Chow, **A.N. Hariwal**, R.F. Kiefl, F.H. McGee, G.D. Morris, and D. Wang, B Physical Review B: Condensed Matter and Materials Physics, 90 (21), 214422-1-214422-13.
13. “Modelling of Pinning-Depinning Reversal Mechanism in Ion-Irradiated Co/Al₂O₃ Thin Films” Rajan Goyal, Rekha Gupta, **Ambika Negi**, Kandasami Asokan, Dinakar Kanjilal, Subhalakshmi Lamba, and Subramanian Annapoorni* Phys. Status Solidi A 2018, DOI: 10.1002/pssa.201800141 .
14. “The Initial State of Optically Polarized ⁸Li⁺ from the β -NMR in Bismuth” W A MacFarlane, C D P Levy, M R Pearson, T Buck, K H Chow, **A N Hariwal**, R Kiefl, F H McGee, G D Morris and D Wang, Journal of Physics: Conference Series 551 (2014) 012059.
15. Rajesh V hariwal, Hitendra K Malik, **Ambika Negi**, and Ashoken Kandasami; Controlling room temperature ferromagnetism and band gap in ZnO nano-structured thin films by varying angle of implantation. Royal Society of Chemistry, **8**, 6278-6287 (2018).

Conference/ Presentations/Workshops

1. Presented a Thesis Proposal in the “Accelerator User Workshop” during 6-7 July 2006, at Inter University Accelerator Center New Delhi.
2. Presented paper in the conference “Fifteenth National Symposium on Nuclear Track Detector and their applications (SSNTS-15)” during 21-23 June 2007, at Department of Physics, H.N.B.Garhwal University Badshahi Thaul Campus, India.
3. Presented paper in the conference “3rd Uttarakhand State Science & Technology Congress-2008” at Indian Institute Of Technology, Roorkee, India during 10-11 November 2008.
4. Presented paper in the International conference “International Conference on Transport and optical Properties Of Nanomaterials” at University of Allahabad, India during 5-8 January 2009.
5. Presented paper in the conference “National Conference on Semiconductor Materials & Technology” at Gurukul Kangri University, Haridwar, India during 16-18 October 2008.
6. Presented paper in the International conference “International Conference on Metal Oxide Material” during 16-18 April 2009 at Himanchal University Shimla, India.
7. Presented paper in National Symposium on “**Nuclear Track Detectors And Their Applications** (SSNTD-16)” during 9-11 november 2009 at Department of Physics, Guru Nanak Dev University, Amritsar, India
8. Presented paper in the National conference “**Accelerator and Low level Radiation Safety**” during 18-20 November 2009, at Inter University Accelerator Center, New Delhi, India.

9. Presented paper in the National conference “**Accelerator and Low level Radiation Safety**” during 18-20 November 2009, at Inter University Accelerator Center, New Delhi, India.
10. Presented paper in the National conference “**Swift Heavy Ions in Materials Engineering and Characterization**” during 6-9 October 2010, at Inter University Accelerator Center, New Delhi, India.
11. Presented paper in the National conference “**ICNN**” during 18-20 November 2013, at Dr BhimRao Ambedker University, Lucknow, India.
12. Presented paper in the National conference on nanotechnology and renewable energy during 28-29 April 2014, at Jamia Islamia University New Delhi, India.

NATIONAL CONFERENCES / WORKSHOP ATTENDED

1. Conference on, “**Accelerator and Low level Radiation Safety**” during 26-27 April 2007, at Inter University Accelerator Center, New Delhi, (India).
2. National Symposium on “**Nuclear Track Detectors and Their Applications (SSNTD-15)**” during 21-23 June 2007 at Department of Physics, H.N.B.Garhwal University, Campus Badshahi Thaul, India.
3. Conference on “**Semiconductor Materials & Technology**, at Gurukul Kangri University, Haridwar, India during 6-18 October 2008.
4. Conference on “**3rd Uttarakhand State Science & Technology Congress-2008**” at Indian Institute Of Technology (IIT), Roorkee, India during 10-11 November 2008.
5. Workshop on” **Radio Chemistry and Applications of Radioisotopes**” at department of Physics at Kurukshetra University, Kurukshetra, India during 29 November –8 December 2007.
6. National Workshop on “**Material Science with Swift Heavy ions**” at Inter University Accelerator Center, New Delhi, (India) during 17-18 September 2007.
7. National Workshop on “**School On Optical Characterization**” at Inter University Accelerator Center, New Delhi, (India) during 29June-2July, 2008.
8. National Workshop “**Accelerator Based Research on Polymer**” on 25 August 2008 at Inter University Accelerator Center, New Delhi, India
9. National Symposium on “**Nuclear Track Detectors and Their Applications (SSNTD-16)**” during9-11 november 2009 at Department of Physics, Guru Nanak Dev University, Amritsar, India
10. Conference on, “**Accelerator and Low level Radiation Safety**” during 18-29 November 2009, at Inter University Accelerator Center, New Delhi, (India).
11. Conference on, “**Swift Heavy Ions in Materials Engineering and Characterization**” during 6-9 October 2010, at Inter University Accelerator Center, New Delhi, India.
12. Conference on, “**Swift Heavy Ions in Materials Engineering and Characterization**” during 6-9 October 2013,

at Inter University Accelerator Center, New Delhi, India.

13. 'Thin film school" during 13-9 November 2013, at Inter University Accelerator Center, New Delhi, India.

14. National conference "ICNN" during 18-20, November 2013, at Dr BhimRao Ambedker University,,Lucknow , India

INTERNATIONAL CONFERENCE ATTENDED

1. International conference on, "**International Conference on Transport and optical Properties of Nanomaterials**" during 5-8 January 2009 at University of Allahabad, India.

2. International conference on "**International Conference on Metal Oxide Material**" during 16-18 April2009 at Himanchal University Shimla, India.

3. International conference on, "**Scanning Electron Microscopy**" during 5-8 July 2009 at University of Delhi, India.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

- **UGC JRF.**
- **CSIR SRF (DIRECT).**
- **DR.D.S.KOTHARI POST DOCTORAL FELLOSHIP.**
- **UGC WOMEN PDF.**

Association With Professional Bodies

- **Visiting Faculty at Department of Physics and Astrophysics, University of British Columbia, Canada.**
- **Ion Beam Accelerator based Research Experience at Inter-University Accelerator Centre, Delhi, India.**
- **Department of Physics and Astrophysics, University of Delhi, India.**

Other Activities

- **Life time membership in Nuclear Track Society of India (NTSI).**