



Dr. Namrata Ghildiyal

Gendre: Female

DOB: 29 August 1971

Nationality: Indian

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Current Position and Contact Address:

Assistant Professor
Department of Chemistry
H. N. B. Garhwal University
Srinagar (Garhwal), 246174, Uttarakhand, India
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Education:

- **D. Phil. (Chemistry), 2016, H. N. B. Garhwal University**, Srinagar-Garhwal, Uttarakhand, India
D. Phil Topic: A Study on Metal Ion Uptake by Fluorescent Crown Ethers.
- **M. Tech. (Materials Science), 1996, Banaras Hindu University**, Varanasi, India.
Dissertation work (D.M.S.R.D.E., Kanpur, India): Development of metal powder-epoxy composites. Determination of their tensile properties, toughness, hardness and wear.
- **M.Phil. (Chemistry), 1994, University of Madras**, Chennai, Tamil Nadu, India (Synthesis of Random Co-Polyesters using an acid chloride and two diols. Determination of their viscosities, UV-Visible spectra, IR spectra, NMR spectra and Thermal degradation patterns for these co polyesters).
- **M.Sc. (General Chemistry), 1993, University of Madras**, Chennai, Tamil Nadu, India
- **B.Sc. (Chemistry), 1991, University of Madras**, Chennai, Tamil Nadu, India.
- **XII, ISC Board, 1988.**
- **X, ICSE Board, 1986.**

Scholarships:

1. National Scholarship for obtaining 5th rank in University of Madras in B. Sc. Level.
2. National Eligibility Test-JRF (NET-JRF) for research and lecturership- qualified in 1994
3. GATE

Classes taught:

Graduate, Post Graduate and Pre-PhD classes

Topics taught:

Physical Chemistry (Undergraduate level), Quantum Chemistry, Chemical Dynamics, Classical Thermodynamics, Electrochemistry, BioPhysical Chemistry, Group Theory, Stereochemistry (PostGraduate Level), Asymmetric Synthesis (Pre-Ph.D)

Research Interests:

Macrocyclic Chemistry, Biophysical Chemistry, Polymer Chemistry

Employment Details:

- 1997- 1999 **Project Associate:** Center for Polymer Science and Engineering. Indian Institute of Technology -Delhi, India, Project Title: Development of polyolefin's for specialized applications under IPCL sponsored project.
- 2003-2005 **Temporary Lecturer** Lucknow Christian P.G. College, Lucknow.
- 2005-2007 **Temporary Lecturer** Sardar Bhagwan Singh P.G. Institute of Biomedical Sciences and Research, Deradun, Uttarakhand.
- 13/03/2007 onwards **Assistant Professor**, H.N.B. Garhwal University, Srinagar –Garhwal Uttarakhand, India.

Teaching Experience

17 years

Research Experience:

7 years (Ph.D and Project Associate IIT-Delhi)

Publications :	<ol style="list-style-type: none"> 1. Development of Epoxy –Metal Particulate Composite, Singh,N., Ghildiyal, N., Khelawan, R., Singh R.,S., Venkatramani, P., S., Mathur, G., Shankar,V., (in <i>Proceedings of the Second International Conference on Advances in Composites, ADCOMP-96, 1996, I.I.Sc.,Bangalore, Foundation for Advanced Materials Education, Paper 45</i>),Advances in Composites ADCOMP-96, Author(s) : Dwarakadasa, E.S. Eds.;Nair, C.G.K. Eds, Allied Publishers, 257-260, 1996. 2. Ghildiyal, N.; Joshi nee Pant, G.; Rawat and M. S. M. and Singh, K., Spectral investigation of the effect of anion on the stability of non covalent assemblies of 2,3,5,6,8,9,11,12-octahydro-1,4,7,10,13-benzopentaoxacyclopentadecene (benzo-15-crown-5) with sodium halides, <i>Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy</i>, 2017, 171, 507–514, doi: 10.1016/j.saa.2016.07.044, ISSN:1386-142. Impact Factor -2.5. Citations 2 3. Ghildiyal, N.; Joshi nee Pant, G. and Rawat, M. S. M., Benzo-15-crown-5 (2,3,5,6,8,9,11,12-octahydrobenzo[<i>b</i>] [1,4,7,10,13] pentaoxacyclopentadecine) and dibenzo-15-crown-5 (6,7,9,10,17,18-hexahydrodibenzo[<i>b,h</i>][1,4,7,10,13] pentaoxacyclopentadecine as fluorescent probes for physiologically important potassium ion, <i>Inorganica Chimica Acta</i> , 2019, (available online from November 2018), 487, 120-127, doi: 10.1016/j.ica.2018.11.052 ISSN: 0020-1693. Impact Factor- 2.2.
Other Published Work:	<ul style="list-style-type: none"> • Book chapter: Problem solving skills, <i>Chemical Education</i>, edited by Savita Ladage and S. D. Samant, Narosa Publishing House Pvt. Ltd, New Delhi, 2012, 105-112, ISSN/ISBN No. 978-81-8487-336-9. • Popular Articles: <ol style="list-style-type: none"> 1. Geeta Joshi, Namrata Ghildiyal, Vigyan Paricharcha, 6:4, April-June 2016, 44-46, ISSN-2394-4501 2. Namrata Ghildiyal, Geeta Joshi” Mukta Mulaka Vah Koshika Kshati”, Vigyan Paricharcha,7:2, October-December,2016, 45-46, ISSN-2394-4501.
Membership Of Scientific Organisations:	<ol style="list-style-type: none"> 1. Life Member of Indian Association of Chemistry Teachers (IACT), IACT LM No.626 . 2. Life Member of Indian Science Congress 3. ACS Community Member, Membership number:32379581
Reviewer	Reviewer for Elsevier Journal: Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
Projects Undertaken:	<ol style="list-style-type: none"> 1. U.G.C. Minor Project “A study on metal ion uptake by fluorescent crown ethers”, F.No. 36-359/2008(SR)-Rs 2Lakhs -Completed. 2. UGC-DAE, Indore-Collaborative Research Scheme, “Effect of solvent system on the stability of fluorescent crown ether complexes of metal ions”, Ref: CSR-I/CRS-59/2011-12, Rs.90,000, 2011 to 2013 - Completed.
International/National Conference/Symposium /Workshop/ Online Training programmes and Webinars attended with ecertification:	<ul style="list-style-type: none"> • International / National Workshop and Conferences attended <ol style="list-style-type: none"> 1. Workshop on Advanced Polymers and Turbulent Drag Reduction in ICTP, Trieste, Italy, March 2008. 2. Poster Presentation in International Conference on Methods and Applications of fluorescence held in Budapest , Hungary from 6-9 September 2009. 3. Participant Lecture in Workshop on Principles of fluorescence techniques, , CNIC, Madrid, Spain, 14-17 September 2009. 4. Oral Presentation entitled “Complexes of aromatic crown ethers with inorganic salts of sodium and potassium”, International conference on Chemistry-Frontiers and Challenges, ICCFC-13, Department of Chemistry, Aligarh Muslim University, Aligarh, 2-3 March, 2013. 5. Attended Workshop on Mass and NMR Techniques, SAIF, CSIR-CDRI, Lucknow, 28-29 January 2013. 6. Attended National Academy Of Sciences India (NASI), Allahabad & Uttarakhand State Council

- For Science & Technology (UCOST), Uttarakhand, Dehradun sponsored workshop on Science & Technology and Sustainable Bioeconomy for Women's Welfare" on May 17th & 18th 2013, Dehradun.
7. Poster presentation entitled "Crown Ether Assemblies with Lithium Salts" in NCAICS-2015, Department of Chemistry, University of Mumbai, Mumbai, 12-13 February 2015.
 8. Attended National Workshop on Basic Aspects of Quantum and Theoretical Chemistry and Applications (BAQTCA 2015) organized by Government PG College, Tonk at Poornima University, Jaipur, 17- 21 August, 2015.
 9. Invited Speaker: 'Crown Ether modified Nanoparticles and Self-Assemblies' in International conference on Nanomaterials: Synthesis, Characterization and Applications (ICN 2018), International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India, 11-13 May 2018.
 10. Oral presentation "Synthesis and Characterization of Fluorescent Complexes of Dibenzo-15-Crown-5 (6,7,9,10,17,18-hexahydrodibenzo[b,h] [1,4,7,10,13]pentaoxacyclopentadecine) with Sodium Halides" in XVth International Conference on Molecular Spectroscopy, Wrocław and Wojanów Hotel, Poland, 15 – 19 September 2019.
- **National Seminar / Orientation / Refresher / Short Term courses / Online Training programme and Webinars attended**
1. Participant in Orientation Course, ASC- Nainital, Kumaon University, 18/02/2011-17/03/2011.
 2. Participant in Refresher Course, ASC- NEHU, Shillong, 22/03/2012-11/04/2012.
 3. Participated in seminar -UGC Women Safety Measurements in Campus, 2014, Dept. Of Political Science, H.N.B. Garhwal University, Srinagar-Garhwal, Uttarakhand.
 4. Attended one day Training programme on Rights of Women sponsored by National Human Rights Commission New Delhi at DBS PG college, Dehradun, 18th December 2015.
 5. Participant in Refresher Course, Chemistry, ASC, UGC-HRDC, Rani Durgavati Vishwavidyalaya, Jabalpur, MP, 30/05/2016 to 18/06/2016.
 6. Attended short- term course in Research Methodology in Basic Sciences, UGC-HRDC, University of Kerala, Trivandrum, Kerala from 20-25 March 2017.
 7. Attended Seminar on Draft of New Education Policy held at ACL Hall, Birla Campus, H. N. B. Garhwal University, Srinagar-Garhwal, Uttarakhand, on 13 August 2019.
 8. Attended Fulbright workshop on 4 November 2019 in Senate Hall, Birla Campus H. N. B. Garhwal University, Srinagar-Garhwal, Uttarakhand, on 13 August 2019.
- Online activities during Corona Period**
9. **Medha Webinar Series, Directed Assembly Methods for the Rational Fabrication of Functional Materials** organised by the PG & Research department of Chemistry in association with IQAC, Dewaswom Board College, Thalayolaparambu, Kottayam, Kerala on 25 May 2020.
 10. Online Training Programme on **Educational Video Creation (E-Content Development)** organised by Toshiwal ACS College Segaon Dist. Hingoli-431542, Maharashtra, India, **11 to 13 May 2020**
 11. **ASC Webinar ;"Fundamentals of Effective Scientific Writing: Manuscripts and Grants"**- American Chemical Society Perfect Tuesday, Jun 09, 2020, 6.00 P.M. To 7 P.M. IST by American Chemical Society.
 12. **ASC Webinar on "A Perfect Match: Vibrational Spectroscopy And Sustainable Chemistry"** Thursday, Jun 11, 2020, 2.00 P.M. To 3 P.M. EDT by American Chemical Society.
 13. **Five-day Online Training Programme on "Research Methodology and Ethics: Plagiarism Issues Reference Management Tools and Altimetrics" from 15th – 19th June 2020** organized by Shodhganga Team, INFLIBNET Centre, Gandhinagar, An Inter University Centre of University Grants Commission, Infocity Gandhinagar - 382007. Gujarat, India.
 14. **ASC Webinar ;" Chemistry of fireworks: Ignition, Sensitivity and Analysis of Energetic Materials-** American Chemical Society Perfect Tuesday, Jun 14, 2020, 12.30 A.M.. IST by American Chemical Society.