

Curriculum Vitae of Dr Alok Sagar Gautam

Full Name	Dr ALOK SAGAR GAUTAM		
Designation	Assistant Professor		
Department	Physics		
Campus	Birla Campus,HNB Garhwal Central University Srinagar Uttarakhand-246174		
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Education Qualification	<p>Degree , University</p> <p>B.Sc., M.J.P Ruhelkhand University Bareilly Uttar Pradesh India</p> <p>M.Sc., Physics Specilization in Electronics, Banaras Hindu University, Varanasi, India</p> <p>Ph.D Atmopsheric Physics and Space Science, Indian Institute of Tropical Meteorology and Savitribai Phule Pune University Pune</p> <p>Junior Associate, International Centre from Theoretical Physics (ICTP) Italy, 2012-2018.</p>		
Teaching Experience	07 Years	Research Experience	14 Years
<p>Areas of Interest/ Specialization (Atmospheric Physics and Space Science/Electronics/Meteorology)</p> <ol style="list-style-type: none"> <li>1. Space Weather Studies of Upper Atmosphere.</li> <li>2. GPS based Total Electron Content (TEC) &amp; Water Vapor content measurements and their variability.</li> <li>3. Atmospheric studies involving aerosols, dust storms, winter fog, and their radiative and climate effects mainly in Himalayan region.</li> <li>4. Study of VLF Whistler-Mode waves and their generation and propagation mechanisms.</li> <li>5. Electrodynamics of the Atmosphere-Ionosphere-Magnetosphere.</li> <li>6. Characterizing properties of atmospheric aerosols (including biological aerosols) to study the climatic and health impact (field measurements, laboratory experiments, and numerical modeling)</li> <li>7. Climate change and public health</li> <li>8. Cloud Dynamics in Pristine Himalayan region.</li> <li>9. Air Quality Monitoring in Uttarakhand</li> </ol>			

#### Honours & Awards

1. Environmentalist of the year 2019 award by International Foundation for Environment and Ecology, February 24, 2020.
2. Research Excellence Award for best research paper on “First report on Chemical Characteristics of atmospheric pollutants over Garhwal Region Uttarakhand “April 2019 by Institute of Scholars Bengaluru.
3. “Young Scientist Award” in Atmospheric and Space Science by Glocal Environment & Social Association (GESA) New Delhi on Oct 20 and 21, 2019.
4. “Best Poster Award” on International Conference on Aerosol, Air Quality and Climate Change on Himalayan region of Uttarakhand” by Department of Physics, Hemvati Nandan Bahuguna Central University Srinagar Garhwal Uttarakhand India, 21-23 October 2018.
5. Young Scientist Award by 13<sup>th</sup> Uttarakhand Council of Science and Technology Congress, DST Govt of India, 2019 on 26-28 February 2019.
6. Young Scientist of the year Award 2018 by International Academy of Science and Research (IASR), Kolkata.
7. Promising Indian Award in Science and Technology by Promising Indian Society Delhi.
8. Clean Environment Promotion Award by International Benevolent Research Foundation Kolkata.
9. International Travel grant by SRB-DST Govt of India to attend the International Conference on Atmospheric Electricity (ICAE) to be held in Rio de Janeiro Brazil from August 7-12, 2011 (File No: SR/ITS/2124/2011-2012) dated on June 28, 2011.
10. International Travel grant by SRB-DST Govt of India to attend the European Aerosol Conference (EAC -2015) at Milan Italy from September 6-11, 2015 (File No: ITS/3037/2015-2016) dated on 31.07.2015.
11. INSA Summer Research Fellow (2014)
12. Junior Associate (2012-2018), Earth System Physics) the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy.
13. “Budaun Shree” for the participation in the 28<sup>th</sup> Scientific Expedition to Antarctica by Dr. Urmillesh Jn chetna Samiti Budaun, Uttar Pradesh, on 13<sup>th</sup> November 2010.

#### Membership of Scientific Organization

- Life Member: The Indian Science Congress Association ( L32704)
- Life Member: Indian Physics Association (GEN/LM/13265)
- Life Member : Indian Association of Physics Teachers ( 11564L7558)
- Life Member: Indian Association for Radiation Protection ( 1522)
- Life Member : Indian Meteorological Society (IMS): LM-3114
- Life Member : National Society of Aerosol, Air Quality and Climate Change Research (NSAACCR): LM- 2018/1003
- Life Member: International Academy of Science and Research (IASR) Kolkata: LM – 016/LM/2019
- Life Member: Glocal Environment & Social Association (GESA) New Delhi: LM -126/2019.
- Life Member: Institute of Scholars Bengaluru : LM -2019

#### Research Supervision (No. of Ph.D. Degree Awarded/ Registered)

#### Research Projects/ MoU undertaken

1. Title, Funding Agency, Total Cost, Completed/Ongoing

- Science and Engineering Research Board (SERB) funded project (No. SB/EMEQ-043/2014 dated March 08, 2016) for the research project entitled “Formation Mechanism and Characteristics of Aerosols in Different Seasons and its impact on Cloud formation, Processes and Climate at Himalayan region Uttarakhand” (Completed)
- Department of Science & Technology funded a Project for the research project entitled “What impacts do aerosols have on cloud condensation nuclei, clouds and rainfall over a pristine Himalayan region” DST/CCP/Aerosol/83/2017(G), Department of Science & Technology, (SPLICE- Climate Change Programme) Ministry of Science & Technology, Government of India (On going),

#### Administrative Experience

1. Assistant Dean Student Welfare, HNB Garhwal University Srinagar
2. Senior Programme Officer/ Program Officer, National Service Scheme (NSS), HNB Garhwal University Srinagar
3. Deputy Program Coordinator, UGC Remedial Coaching, HNB Garhwal University Srinagar
4. Co-ordinator, Massive Open Online Courses (MOOCS), School of Science
5. Convener, MIC MHRD Innovation Cell, HNB Garhwal University Srinagar Uttarakhand
6. Member, PhD Entrance Examination 2017
7. Member, Student Union Election Committee
8. Member, Admission Committee for UG/PG Classes
9. Member, INSPIRE –DST Programme, HNB Garhwal University Govt of India.
10. Co-ordinator- Indian Association of Physics Teachers Examination (2018-2019) at HNB Garhwal University Srinagar Uttarakhand
11. Organizing Secretary, International Conference on Aerosol, Air Quality and Climate Change on Himalayan region of Uttarakhand
12. Co-organizer- National conference on Climate Change Social Variability Assessment, Department of Forestry & Natural Resources, HNB Garhwal University Srinagar, 19-20 February, 2014.
13. Organizing Secretary- Seminar on International Day for the Preservation of the Ozone Layer, Department of Physics HNB Garhwal University Srinagar Uttarakhand.
14. Organizing Secretary- National workshop on “Recent Advancements in Atmospheric Science with special reference to Himalayan” organized by Department of Physics HNB Garhwal University Srinagar Uttarakhand on September 25, 2019.
15. Co-ordinator, International webinar on Aerosol, Air Quality, Climate Change, Environmental and health effects referring to Covid 19 Lockdown.

#### Scientific Visits Abroad/International Collaboration

- Junior Associate Visit of 42 Days at the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy from November 10, 2016 to December 22, 2016.
- Institute of Atmospheric Sciences and Climate, Italian National Research Council (ISAC-CNR) Bologna Italy
- European Aerosol Conference (EAC 2015), Milan Italy , September 06-11, 2015
- Junior Associate Visit of 35 Days at the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy from November 17, 2014 to December 22, 2014.
- the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy to participate in the “School and workshop on “Weather Regimes and Weather Types in the Tropics and Extra-tropics: Theory and Application to Prediction of Weather and Climate” October 21-30, 2013, Miramare, Trieste, Italy

- the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy to participate in the "School and Conference on "the General Circulation of the Atmosphere and Oceans: a Modern Perspective ", 2011.
- XIV International Conference on Atmospheric Electricity, August 08-12, 2011, Rio de Jenerio, Brazil.
- Environmental Research Station Schneefernerhaus (UFS) at Zugspitze, Germany organized by WMO.
- Indian Antarctic Station at South Pole in the 28<sup>th</sup> Indian Expedition to Antarctica.

Conference/Symposium/Workshop Attended during last five years (2012-2017).

#### International

1. Attended/Presented Paper/Invited Talk/Keynote Address/Session Chair, Title of event, place, date, year

- Attended/Presented Paper, European Aerosol Conference (EAC 2015), Milan Italy , September 06-11, 2015.
- Invited Talk, Institute of Atmospheric Sciences and Climate, Italian National Research Council (ISAC-CNR) Bologna Italy on December 01, 2016.
- Attended workshop, Joint ICTP-IAEA College of Plasma Physics (7-18 November, ICTP Italy)
- Attended, Joint ICTP-IAEA Workshop on internal Dosimetry for Medical Physicist Specializing in Nuclear Medicine (21-25 November, 2016).
- Invited talk on Study of Suspended Particle in the Air i.e. Aerosol and its impact towards climate change, INSPIRE Program 10-14 December, HNBSGU Srinagar.
- Invited Talk on Radiation Laws of Physics and its application on Climate, INSPIRE Program 21-25 January, 2014 at HNBSGU Srinagar
- Invited Talk on Physics of Climate, INSPIRE Program 20-24 December, HNBSGU Srinagar
- Invited Talk on Cloud Bursts: Genesis and Prediction, National Symposium on Eco-disasters in Himalayas: Casues, Challeneges and Management, February 15-16, 2014, Department of Environmental Science, HNBSGU Srinagar
- Attended workshop, Joint ICTP – IAEA meeting on Training in Patient Safety in Radiotherapy from November 24 to November 2014 at ICTP Italy.
- Attended Workshop, United Nations /ICTP workshop on Global Navigations Satellite Systems (GNSS) “ 1 – 5 December 2014 at ICTP Italy.
- Attended International Conference at the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy , October21-30,2013, Miramare, Trieste, Italy.
- Attened and presented Paper, Internal conference on New Scintillatons on Materials Horizons (ICNSMH -2016) during July 21-23, 2016 at M J P R U Bareilly UP.
- Attended International Conference at the Abdul Salam International Centre for Theoretical

Physics (ICTP), Trieste Italy, July 06-12 , 2011.

- Attended / Presented Paper, International Conference and presented three papers at XIV International Conference on Atmospheric Electricity, August 08-12, 2011, Rio de Janeiro, Brazil.
- Attended , Junior Associate Visit of 35 Days at the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy from November 17, 2014 to December 22, 2014.
- Attended “School and workshop, October 21-30, 2013, ICTP Italy.
- Attended “School and Conference 2011, the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy.
- Attended /Presented Training Course on Atmospheric Chemistry and Reactive Gases organized by WMO and GAWTEC at Station Schneefernerhaus (UFS) at Zugspitze, Germany during October 16, 2011 to October 29, 2011.

#### National

1.

- Attended and Presented Paper, National Conference on Himalayan Cryosphere (NCHC), Indian Institute of Science (IISc) Bengalure, January 22-23, 2017.
- Attended /Presented Paper One week training program, Department of Science and Technology, Govt of India, organized by Indian Council of Forestry Research and Education New Forest Dehradun.
- Attended /Presented Paper, 18<sup>th</sup> International conference of International Academy of Physical Sciences (CONIAPS XVIII) on Recent Trends in Physical Sciences organized by Faculty of Science, University of Allahabad, Allahabad UP India from December 22-24, 2015.
- Attended /Presented Paper, NHTEP-2015, Govt PG College Gopeshwar, February 19-20 2015
- Attended, National workshop on Analysis of Official Statistics Using SPSS, Department of Statistics, HNB Garhwal University Srinagar Uttarakhand during 18-20 February, 2017.
- Attended SERC School on Electro dynamical Coupling ‘Atmospheric Electricity’, 2010, Indian Institute of Geomagnetism, Mumbai.
- Attended SERC school on “Global Warming and Climate Change”, 2010, Indian Institute of Tropical Meteorology, Pune.
- Attended “Comprehensive training in Atmospheric Science”, 2008, Indian Institute of Tropical Meteorology, Pune.
- Attended “Comprehensive training in Atmospheric Science”, 2007, Indian Institute of Tropical Meteorology, Pune.
- Attended, International conference on 'Futuristic Materials: Characterization, Properties & Applications in Technology (FMCPAT 14)' during July 17-22, 2014 at M J P R U Bareilly UP.
- Attended/Presented Paper, Orientation Programme from April 06, 2015 to May 02, 2015 and got A Grade at UGC - Human Resource Development Centre (UGC-Academic Staff College ) Jawaharlal Nehru University New Delhi -110067
- Attended/ Presented Paper, National Seminar on CLIMATE CHANGE, RESOURCES,

BIO-DIVERSITY & ENVIRONMENTAL CHALLENGES: ISSUES AND STRATEGIES FOR SUSTAINABLE DEVELOPMENT 28-30 October, 2015 HNB Garhwal University, Srinagar Garhwal-246174, Uttarakhand.

- Attended/ Presented Paper, International Conference on Environmental Technology and Sustainable Development: Challenges and Remedies, February 21-23, 2014, BBAU, Lucknow.
- Attended/ Presented Paper, National Conference on Climate Change Social Vulnerability Assessment (19-20 Feb., 2014), Dept of Forestry and Natural Resources, HNBSGU Srinagar.
- Attended/ Presented Paper, National Symposium on Eco-disasters in Himalayas: Causes, Challenges and Management February 15-16, 2014, Department of Environmental Science, HNBSGU Srinagar.
- Attended/ Presented Paper, NATIONAL CONFERENCE ON HIMALAYAN GLACIOLOGY (NCHG-2014) 30-31 OCTOBER, 2014 SHIMLA HIMACHAL PRADESH, INDIA pp-61-61.

Conference/Symposium/Workshop Organized during last five years (2012-2017)

1. Chairman/Convener/Organizing Secretary, Title of event, place, date, year

1. Co-organizer, National conference on Climate Change Social Variability Assessment, Department of Forestry & Natural Resources, HNB Garhwal University Srinagar, 19-20 February, 2014.
2. Co-ordinator- Indian Association of Physics Teachers Examination (2018-2019) at HNB Garhwal University Srinagar Uttarakhand
3. Organizing Secretary, International Conference on Aerosol, Air Quality and Climate Change on Himalayan region of Uttarakhand
4. Co-organizer- National conference on Climate Change Social Variability Assessment, Department of Forestry & Natural Resources, HNB Garhwal University Srinagar, 19-20 February, 2014.
5. Organizing Secretary- Seminar on International Day for the Preservation of the Ozone Layer, Department of Physics HNB Garhwal University Srinagar Uttarakhand.
6. Organizing Secretary- National workshop on "Recent Advancements in Atmospheric Science with special reference to Himalayan" organized by Department of Physics HNB Garhwal University Srinagar Uttarakhand on September 25, 2019.
7. Co-ordinator, International webinar on Aerosol, Air Quality, Climate Change, Environmental and health effects referring to Covid 19 Lockdown.

Best Peer-Reviewed Publications 2009 onwards (*up to 05*)

Journals

1. Title of Paper, All Authors (Surname First), Name of Journal, Volume No, Page Nos, Year of publication (Impact Factor)
- ❖ Roopesh Kumar and **Alok Sagar Gautam**, (2019). Impact Assessment of Science and Technology over Hilly Rural Areas. *Analisation*, R. A. 2, 371–373.
  - ❖ Chauhan, J. S., **Gautam, A. S.**, & Negi, R. S. (2018). Natural and anthropogenic impacts on forest structure: A case study of Uttarakhand state. *Open Ecology Journal*, 11(1). <https://doi.org/10.2174/1874213001811010038>.
  - ❖ Dumka, U. C., **Gautam, A. S.**, Tiwari, S., Mahar, D. S., Attri, S. D., Chakrabarty, R. K., Permita, P., Hopke, P. K., & Hooda, R. (2020). Evaluation of urban ozone in the

Brahmaputra River Valley. Atmospheric Pollution Research, 11(3).  
<https://doi.org/10.1016/j.apr.2019.12.013>

- ❖ **Gautam, A. S.**, Negi, R. S., Singh, S., Srivastava, A. K., Tiwari, S., & Bisht, D. S. (2018). Chemical Characteristics of Atmospheric Aerosol at Alaknanda Valley (Srinagar) in the Central Himalaya Region, India. *International Journal of Environmental Research*, 12(5).  
<https://doi.org/10.1007/s41742-018-0125-8>
- ❖ **Gautam, A. S.**, Siingh, D., & Kamra, A. K. (2017). Statistical analysis of the atmospheric ion concentrations and mobility distributions at a tropical station, Pune. *Quarterly Journal of the Royal Meteorological Society*, 143(706). <https://doi.org/10.1002/qj.3071>
- ❖ Kamra, A. K., **Gautam, A. S.**, & Siingh, D. (2015). Charged nanoparticles produced by splashing of raindrops. *Journal of Geophysical Research*, 120(13), 6669–6681.  
<https://doi.org/10.1002/2015JD023320>
- ❖ Kamra, A. K., Siingh, D., **Gautam, A. S.**, Kanawade, V. P., Tripathi, S. N., & Srivastava, A. K. (2015). Atmospheric ions and new particle formation events at a tropical location, Pune, India. *Quarterly Journal of the Royal Meteorological Society*, 141(693).  
<https://doi.org/10.1002/qj.2598>
- ❖ Kamra, A. K., Siingh, D., **Gautam, A. S.**, Kanawade, V. P., Tripathi, S. N., & Srivastava, A. K. (2016). Erratum to “Atmospheric ions and new particle formation events at a tropical location, Pune, India”. [*Q. J. R. Meteorol. Soc.*, 2015, 141: 3140-3156, doi: 10.1002/qj.2598]. *Quarterly Journal of the Royal Meteorological Society*, 142(696).  
<https://doi.org/10.1002/qj.2789>
- ❖ Kanawade, V. P., Tripathi, S. N., Siingh, D., **Gautam, A. S.**, Srivastava, A. K., Kamra, A. K., Soni, V. K., & Sethi, V. (2014). Observations of new particle formation at two distinct Indian subcontinental urban locations. *Atmospheric Environment*, 96.  
<https://doi.org/10.1016/j.atmosenv.2014.08.001>
- ❖ Negi, R. S., **Gautam, A. S.**, & Singh, S. (2018). Temperature and Rainfall Trend in Alaknanda Valley Srinagar Garhwal, Uttarakhand, India. [www.worldscientificnews.com](http://www.worldscientificnews.com)
- ❖ Panicker, A. S., Sandeep, K., **Gautam, A. S.**, Gandhi, N., Beig, G., Nainwal, H. C., Rao, P. S. P., Safai, P. D., Das, S., & Waghmare, V. (2019). Chemical composition and isotopic signatures of ice and snow over a Himalayan Glacier (Satopanth) in India. *SN Applied Sciences*, 1(10). <https://doi.org/10.1007/s42452-019-0966-6>
- ❖ Panicker, A. S., Sandeep, K., Negi, R. S., **Gautam, A. S.**, Bisht, D. S., Beig, G., Murthy, B. S., Latha, R., Singh, S., & Das, S. (2019). Estimates of Carbonaceous Aerosol Radiative Forcing over a Semiurban Environment in Garhwal Himalayas. *Pure and Applied Geophysics*, 176(11). <https://doi.org/10.1007/s00024-019-02248-7>
- ❖ Prakash, A., & **Gautam, A. S.** (2014). Fast and Scalable IP Address Lookup with Time Complexity of LogmLogm(n). *Journal of Advances in Information Technology*, 5(2).  
<https://doi.org/10.4304/jait.5.2.58-64>
- ❖ Sandeep, K., Negi, R. S., Panicker, **A. S.**, **Gautam, A. S.**, Bhist, D. S., Beig, G., Murthy, B. S., Latha, R., Singh, S., & Das, S. (2019). Characteristics and Variability of Carbonaceous Aerosols over a Semi Urban Location in Garhwal Himalayas. *Asia-Pacific Journal of Atmospheric Sciences*. <https://doi.org/10.1007/s13143-019-00158-1>
- ❖ Siingh, D., **Gautam, A. S.**, Buchunde, P., & Kamra, A. K. (2018). Classification of the new

particle formation events observed at a tropical site, Pune, India. *Atmospheric Environment*, 190. <https://doi.org/10.1016/j.atmosenv.2018.07.025>

- ❖ Siingh, D., **Gautam, A. S.**, Kamra, A. K., & Komsaare, K. (2013). Nucleation events for the formation of charged aerosol particles at a tropical station - Preliminary results. *Atmospheric Research*, 132–133. <https://doi.org/10.1016/j.atmosres.2013.05.024>
- ❖ Siingh, D., Gopalakrishnan, V., **Gautam, A. S.**, & Singh, R. P. (2011). Estimation of aerosol size distribution from ion mobility spectra using the KL model. *International Journal of Remote Sensing*, 32(21). <https://doi.org/10.1080/01431161.2010.512945>
- ❖ Siingh, D., Singh, R. P., Singh, A. K., Kulkarni, M. N., **Gautam, A. S.**, & Singh, A. K. (2011). Solar Activity, Lightning and Climate. *Surveys in Geophysics*, 32(6). <https://doi.org/10.1007/s10712-011-9127-1>
- ❖ Singh, S., Negi, R. S., & **Gautam, A. S.** (2018). Study of maximum and minimum temperatures trends at Srinagar Garhwal Valley, Uttarakhand India. ~ 2307 ~ *Journal of Pharmacognosy and Phytochemistry*, 7(1).
- ❖ Srivastava, S., Kumar, A., Bauddh, K., **Gautam, A. S.**, & Kumar, S. (2020). 21-Day Lockdown in India Dramatically Reduced Air Pollution Indices in Lucknow and New Delhi, India. *Bulletin of Environmental Contamination and Toxicology*, 0123456789. <https://doi.org/10.1007/s00128-020-02895-w>
- ❖ Tiwari, S., Dumka, U. C., **Gautam, A. S.**, Kaskaoutis, D. G., Srivastava, A. K., Bisht, D. S., Chakrabarty, R. K., Sumlin, B. J., & Solmon, F. (2017). Assessment of PM<sub>2.5</sub> and PM<sub>10</sub> over Guwahati in Brahmaputra River Valley: Temporal evolution, source apportionment and meteorological dependence. *Atmospheric Pollution Research*, 8(1). <https://doi.org/10.1016/j.apr.2016.07.008>
- ❖ Yadav, G., Deep, A., **Gautam, A. S.**, Komsaare, K., Purohit, K. D., & Kala, S. (n.d.). A Comparative Study of Atmospheric Profiles over Central Himalayan Region by using Ground-Based Measurements and Radiosonde Observations. [www.worldscientificnews.com](http://www.worldscientificnews.com)

#### Proceedings

1. Title of Paper, All Authors (Surname First), Name of Conference, Date & Year
1. Measurement of Meteorological Parameters over Alaknanda Valley at Srinagar, Garhwal Himalaya Uttarakhand: A impact of meteorological condition on Atmospheric environment , Alok S Gautam, 18<sup>th</sup> International conference of International Academy of Physical Sciences (CONIAPS XVIII) on Recent Trends in Physical Sciences organized by Faculty of Science, University of Allahabad, Allahabad UP India from December 22-24, 2015.
2. “Significant Effect of Meteorological Parameters in Alaknanda Valley at Srinagar, Garhwal Himalaya Uttarakhand, Alok S Gautam at European Aerosol Conference (EAC 2015), Milan Italy , September 06-11, 2015.
3. Monitoring of Atmospheric Electrical Parameters for prediction of heavy rain fall events Alok S Gautam and S C Bhatt, , NHTEP-2015, February 19-20 2015, pp-11.



4. Measurement ion and charged aerosol particles size distribution from Neutral air ion spectrometer, Alok S Gautam, , NHTEP-2015, February 19-20 2015, pp-46.
5. Study of some air quality parameters at Dehradun city of Uttarakhand (India), Amar Deep, K D Purohit, H Nandan and Alok S Gautam, , NHTEP-2015, February 19-20 2015, pp-58.
6. Effect of Black Carbon Aerosol on Himalayan Glaciers and Climate Variability: A Review Alok Sagar Gautam, R.S. Negi, H.C. Nainwal, , 2014, NATIONAL CONFERENCE ON HIMALAYAN GLACIOLOGY (NCHG-2014) 30-31 OCTOBER, 2014 SHIMLA HIMACHAL PRADESH, INDIA pp-61-61.
7. Study of Air Pollution and Global Electric Circuit (GEC) in the Environment, Alok S Gautam, Rajiv Pandey and Kuldeep Baudhh, , International Conference on Environmental Technology and Sustainable Development: Challenges and Remedies , February 21-23, 2014, BBAU, Lucknow. PP 143-144.
8. "Study of Ion - Aerosol Interaction from the Ion Mobility Spectra and Aerosol Size Distribution and its Impact on Climate Change", Alok S Gautam, National Conference on Climate Change Social Vulnerability Assessment (19-20 Feb., 2014), Dept of Forestry and Natural Resources, HNBGU Srinagar. pp 68-68.
9. Cloud Bursts: Genesis and Prediction, Alok S Gautam, , National Symposium on Eco-disasters in Himalayas: Cases, Challenges and Management, February 15-16, 2014, Department of Environmental Science, HNBGU Srinagar. PP 21-21.
10. Effect of Black Carbon Aerosol on Himalayan Glaciers and Climate Variability: A Review Alok Sagar Gautam, R.S. Negi, H.C. Nainwal, 2014, NATIONAL CONFERENCE ON HIMALAYAN GLACIOLOGY (NCHG-2014) 30-31 OCTOBER, 2014 SHIMLA HIMACHAL PRADESH, INDIA pp-61-61.
11. Comparative study of Ionization Rate derived from NAIS and Radioactive Materials, Alok Sagar Gautam, 2013, National Conference on Recent Advances in Material Science, (NCRAMS-13), (October 26-27, 2013)
12. Examination of new particle formation mechanisms in a tropical urban environment, Vijay P Kanwade, Sachida N Tripathi, Alok S Gautam, Devendraa Siingh, A.K.Kamra, Atul K Srivastava, 2012,. IASTA-2012/SESSION-II/O-55

#### Books

1. Authors, Title of book, Publisher, year
1. Alok Sagar Gautam, Akash Kumar, R. C. Ramola, S. N. Tripathi, Sanjeev Kumar, Karan Singh, Anil Mandariya, Gaurav Mishra, CCN Variation in Different Events at High Altitude Western Himalaya Observatory: Preliminary Results, ANCIENT PUBLISHING HOUSE DELHI 2019
2. Alok Sagar Gautam, Karan Singh, S.N. Tripathi, R.C. Ramola, Anil Kumar Mandariya, Gaurav Mishra, Sanjeev Kumar, Akash Kumar, Study on Seasonal Variation of CCN Number Concentration at Western Himalayan Region Tehri Garhwal, Uttarakhand, India ANCIENT PUBLISHING HOUSE DELHI 2019.
3. Dr Rupesh Tyagi, Dr Alok,Sagar Gautam, DrRamesh Kumar Sharma,Dr Manoj Yadav, Dr V KGoel, Practical Physics Practical Physics, kedarnathRamnathPublisher,

- MeerutKedarnath RamnathPublisher Meerut, 2015.
4. Dr Alok Sagar Gautam, and Vinay Kumar, Indo-Gangetic Plain: A Region of Climate Change, Aerosol , loading and Ozone CPDHE Delhi CPDHE Delhi Shivalik Prakashan Shakti Nagar Delhi, 2017.
  5. Dr Naveen Prakash, Nautiyal, Dr J P Bhatt & Dr Alok Sagar Gautam, Science and Technology: A Tool of Development Science and Technology Dr S P Singh Utkarsh/Nikhil, Publisher & Distributors Shahganj, Agra, 2016.
  6. Alok Sagar Gautam, R S Negi, Santosh Singh, Mayank Joshi Statistical Analysis of Meteorological parameters for three hours interval over Alaknanda Valley Garhwal Himalaya Uttarakhand JRF Publications Dr Priyadarshi Agnihotri JRF International Book Publication Madhya Pradesh India 2018.
  7. R S Negi and Alok S Gautam Significant effect of meteorological parameters in Alaknanda Valley at Srinagar, Garhwal Himalaya Uttarakhand Experimental Physics Dr Vinod Rawat Deptt. of Physics, Govt PG College, Gopeshwar Chamoli "New Horizons in Theoretical and Experimental Physics" ISBN: 9789352542505, 2017.
  8. Vijay P Kanwade, S.N.Tripathi, Devendraa Siingh, A.S.Gautam, Contribution of Ion Nucleation to New Particle Formation in a Tropical Urban Environment AGU AGU American Geophysical Union Fall Meeting 2012,A53K-0299,.
  9. Vijay P Kanwade, Sachida N Tripathi, Alok S Gautam, Devendraa Siingh, A.K.Kamra, Atul K Srivastava Examination of new particle formation mechanisms in a tropical urban environment IASTA IASTA Indian Aerosol Science and Technology Association (IASTA), 2012/SESSION-II/O-55, 2012.
  10. Alok S Gautam, S C, Bhatt, Monitoring of Atmospheric Electrical Parameters for prediction of Heavy rain fall events New Horizons in Theoretical and Experimental Physics, 2015 9789352542505 6, National Conference on Recent Advances in Material Science, (NCRAMS-13), Department of Physics, Govt PG College, Gopeshwar Chamoli, 2015.
  11. Alok Sagar Gautam, Measurements ions and charged aerosol particle size distribution from Neutral Air Ion Spectrometer (NAIS) New Horizons in Theoretical and Experimental Physics 2015 9789352542505 6, National Conference on Recent Advances in Material Science, (NCRAMS-13), Department of Physics, Govt PG College, Gopeshwar Chamoli, 2015.
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#### **Deputation abroad ( International Colloborations):**

- Indian Antarctic Station at South Pole in the 28th Indian Expedition to Antarctica.
- Junior Associate Visit of 35 Days at the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy from November 10, 2018 to December 15, 2018.
- Junior Associate Visit of 42 Days at the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy from November 10, 2016 to December 22, 2016.
- Institute of Atmospheric Sciences and Climate, Italian National Research Council (ISAC-CNR) Bologna Italy.
- European Aerosol Conference (EAC 2015), Milan Italy , September 06-11, 2015.
- Junior Associate Visit of 35 Days at the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy from November 17, 2014 to December 22, 2014.
- the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy to participate in the "School and workshop on ""Weather Regimes and Weather Types in the Tropics and Extra-tropics: Theory and Application to Prediction of Weather and Climate" October 21-30, 2013, Miramare, Trieste, Italy.
- the Abdul Salam International Centre for Theoretical Physics (ICTP), Trieste Italy to participate in the "School and Conference on "the General Circulation of the Atmosphere and Oceans: a Modern Perspective ", 2011.
- XIV International Conference on Atmospheric Electricity, August 08-12, 2011, Rio de Jenerio, Brazil.

- Environmental Research Station Schneefernerhaus (UFS) at Zugspitze, Germany organized by WMO.