

ROSELINE C. THAKUR

Senior Research Fellow
Cryosphere Science Division

AREA OF RESEARCH

Environmental Chemistry

ACADEMIC PROFILE

- 2008 M.Sc (Environment Management), Forest Research Institute, Dehradun. Uttrakhand,
- 2006 B.Sc (Botany, Zoology & Chemistry), Ewing Christian College, Allahabad University, Allahabad, Uttar Pradesh,
- 2003 High school and Intermediate (ICSE), St. Marys Convent Inter College, Allahabad,

PROFESSIONAL CAREER

- 2012 Ph.D Scholar, National Centre for Antarctic and Ocean Research, Goa
- 2011 Senior Research Fellow, National Centre for Antarctic and Ocean Research, Goa
- 2009 Junior Research Fellow, National Centre for Antarctic and Ocean Research, Goa
- 2009 Environment Research Officer, Grass Root Research & Creation Pvt.Ltd, New Delhi
- 2008 Dissertation Student at National Centre for Antarctic and Ocean Research, Goa

SIGNIFICANT CONTRIBUTIONS & ACHIEVEMENTS

- 2014 Summer team member, 33rd Indian Scientific Antarctic Expedition
- 2013 Winter Team member, Indian Arctic Expedition
- 2012 Winter Team member, Indian Arctic Expedition
- 2010 Summer Team member, 4th Indian Southern Ocean Expedition
- 2009 Student Participant, 28th Indian Scientific Antarctic Expedition

AWARDS & RECOGNITIONS

- 2010 University Grant Commission – National Eligibility Test 2010 (Lectureship in Environmental Sciences)
- 2009 Second Best Poster Award on “Particle Size Variation and Trace metal pollution: A comparative study over Southern Ocean and Antarctica” in National Conference on “Climatic Changes during the Quaternary: Special reference to Polar Regions and Southern Ocean” held in International Centre, Goa, October 2009.
- 2008 Semester Scholarship for Masters in Environmental Science
- 2006 Condo Memorial Prize (Gold Medalist in Zoology)

ROLES & MEMBERSHIPS AT INTERNATIONAL BODIES

- 2014 Excom member of Indian Polar Research Network (APECS- India)
- 2013 Liason Officer of Indian Polar Research Network (APECS- India)
- 2010 Member of Association of Polar Early Career Scientists (APECS)
- 2008 Executive member of Society towards Environmental Protection (STEP)

AREA OF SPECIALIZATION

- Air – Snow Interaction Studies at the Polar Regions
- Aerosol Chemistry
- Environmental Impact Assessment
- Instrumental in Installing and operating the Denuder based air sampling instrument, cascade impactor, High volume sampler at the Indian Arctic and Antarctic research stations for aerosol and trace gas sampling
- Operation of Air sampling Instruments: Aethalometer, Nephelometer and Acoustic Doppler Velocimeter
- Trained to operate Ion Chromatography system
- Well versed with air quality models like ISCST3 and TAPM (The Air quality Model v3)

RESEARCH PUBLICATIONS**A. JOURNALS/ PEER REVIEWED PUBLICATIONS**

1. **Roseline C. Thakur** and Meloth Thamban (2014). Latitudinal and size segregated ionic variability of aerosols over the Indian and Southern Ocean during 2010 summer, *Aerosols and Air Quality Research*, (14):220-236, DOI 10.4209/aaqr.2012.12.0337
2. Meloth Thamban and **Roseline C. Thakur** (2013). Trace metal chemistry of surface snow from Ingrid Christensen Coast, East Antarctica - Spatial variability and possible anthropogenic contributions, *Environment Monitoring Assessment*, 185:2961–2975, DOI 10.1007/s10661-012-2764-0

B. ABSTRACTS /ARTICLES & REPORTS

1. **Roseline C. Thakur** (2014). Source and compositional variability of aerosols over the Indian and Southern Ocean during austral summer, *Quarterly newsletter of Ocean Society of India “Ocean Digest, IITM, Pune, India.*
2. **Roseline C. Thakur.**, Tiwari, A.K., Redkar, B.L (2014). Trace metal concentrations of marine aerosols over the Indian sector of Southern Ocean”, *Technical Report 2010*, pp 44-51.
3. **Roseline C. Thakur.**, Thamban, M., Redkar, B.L (2013). Spatial Variation of Trace elements in Svalbard during Early Spring 2011, *The Arctic Science Summit Week 2013, Krakow.*
4. Gogoi M.M., Babu S.S., KrishnaMoorthy K., Chaubey J.P., Nair V.S., Manoj M R., Sobhan Kumar K., Lakshmi N B., **Thakur, R.C.**, Thamban, M., Rajan, S (2013) *Aerosol characteristics over Norwegian Arctic: results from Indian scientific Expeditions, Third International Symposium in Arctic Research, Tokyo, Japan*
5. **Roseline C. Thakur** and Thamban M (2012). Chemical composition of marine aerosols over the Indian Sector of Southern Ocean, *SCAR Open Science Conference, Portland.*
6. **Roseline Cutting.**, Tiwari A.K., Ravindra R (2010). Aerosol size variation and trace gas measurement in coastal Antarctica and at two Indian stations, *SCAR Open Science Conference, Argentina.*
7. **Roseline Cutting.**, Singh N., Tiwari A.K., Ravindra, R (2009). Assessment and Speciation of Mercury in the Air and Water bodies of Schirmacher and Larsemann Hills, *National Workshop on Evaluation of Research Projects for Planning the 28th Indian Scientific Expedition to Antarctic, National centre for Antarctic & Ocean Research, Goa*

8. **Roseline Cutting**, Tiwari A.K., Ravindra R (2009). Particle Size Variation and Trace metal Pollution: A comparative study over Southern Ocean and Antarctica, National Conference on Climatic Changes during the Quaternary: Special reference to Polar regions and Southern Ocean, International Centre, Goa
9. Singh N., **Roseline Cutting**, Tiwari A.K., Ravindra R (2009). Biogeochemical cycling of trace metal with special reference to mercury in the Southern Ocean, National Conference on Climatic Changes during the Quaternary: Special reference to Polar regions and Southern Ocean, International Centre, Goa