

## Curriculum Vitae

### SAHINA GAZI

#### Scientific Assistant 'A'

SEM-EDS Laboratory

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#### ACADEMIC RECORD:

- April 2007 M.Sc Physics, Goa University, Goa, India
- April 2005 B.Sc Physics, Carmel College, Goa, India

#### CAREER RECORD:

- June 2012-Present: *Scientific Assistant Grade A*, National Centre for Antarctic and Ocean Research, Goa, India
- Nov 2007-May 2012: *Project Assistant*, National Centre for Antarctic and Ocean Research, Goa, India

#### AREA OF SPECIALIZATION:

- Scanning Electron Microscopy (SEM)
- Energy Dispersive Spectrometry (EDS)

#### MAJOR DUTIES

- Working under the project entitled "*Past Climate and Oceanic Variability*"
- Operating and maintaining SEM (JEOL JSM 6360 LV) and EDS (Oxford INCA)
- Light Microscopy: Stereo-zoom, Inverted and Polarizing
- Sample processing: Ball Mill Grinder, Freeze Dry System (Lyophilizer), Sputter Coaters (Pt and C), Ultra-sonicator, Mounting Press, Rotary Cone sample Divider
- Assisting the scientists, researchers and trainees/students in scientific and laboratory work
- Documentation of Standard Operating Procedures (SOPs)
- Analyzing samples from both the Polar regions including Antarctica and other In-house projects
- Sample analyses for External Colleges, Universities, Institutes/Company

#### CURRENT RESEARCH INTEREST:

- Palaeoclimate reconstruction using proxies-Nanno-planktons and micro-fossils
- Electron Microscopy-techniques and applications

#### AWARDS:

- *Best Employee Award in Group B category*, Ministry Foundation Day, 27 July 2015 New Delhi, India
- *Microscopy Award for the First Best SEM Life Science Micrograph "Emiliana huxleyi coccolith"*, International Conference on Electron Microscopy and XXXV Annual Meeting of Electron Microscopy Society of India, 7-11 July 2014, New Delhi, India

**MEMBERSHIP:**

- Electron Microscope Society of India (EMSI)
- Association of Polar Early Career Scientists (APECS)

**TRAINING:**

“Calibration and Measurement Assurance for NABL, ISO: 9001 & 14001” organized by ETDC, Goa during 10-11 June 2014.

**CONFERENCES/WORKSHOPS:**

- Bharatiya Vigyan Sammelan Samiti 2015 Event, jointly organized by Vijnana Bharati, Govt. of Goa and Goa University, Kala Academy, Goa, 5-8 February 2015.
- Microscopy workshop on TEM, SEM, FESEM and EPMA, organized by JEOL, India, IISc, Bangalore, 11-12 December 2014.
- International Conference on Electron Microscopy and XXXV Annual Meeting of Electron Microscopy Society of India, jointly organized by University of Delhi and Electron Microscopy Society of India, New Delhi, 7-11 July 2014.

**POSTER PRESENTATION:**

- Poster entitled “*Electron Microscopy for Scientific Mysteries-Surface Textures*” during the Bharatiya Vigyan Sammelan Samiti 2015 event, jointly organized by Vijnana Bharati, Govt. of Goa and Goa University, held at Kala Academy, Goa during 5-8 February 2015.
- Poster entitled “*Scanning Electron Microscopic Observations of rarely Silicifying haptophytes from the Southern Indian Ocean*” during the International Conference on Electron Microscopy and XXXV Annual Meeting of Electron Microscopy Society of India, jointly organized by University of Delhi and Electron Microscopy Society of India, New Delhi, 7-11 July 2014.

**KEY PUBLICATIONS (Co-Author):****2016**

- Warriar, A.K., Pednekar, H., Mahesh, B.S., Mohan, R. and **Gazi, S.** Sediment grain size and surface textural observations of quartz grains in late quaternary lacustrine sediments from Schirmacher Oasis, East Antarctica: paleoenvironmental significance, *Polar Science* (Elsevier), doi: 10.1016/j.polar.2015.12.005.

**2015**

- Patil, S. M., Mohan, R., Shetye, **S.**, **Gazi, S.** and Jafar, S. A. *Prymnesium neolepis* (Prymnesiaceae), a siliceous Haptophyte from the Southern Indian Ocean *Micropaleontology*, 60(5), 475-481.
- Patil, S. M., Mohan, R., Shetye, **S.**, **Gazi, S.** and Jafar, S. *Petasaria heterolepis* (Prymnesiaceae) from the Southern Indian Ocean. *Micropaleontology*, 61(3), 171-176.

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- Nair, A., Mohan, R., Shetye, **S., Gazi**, S. and Jafar, S. A. *Trigonium curvatus* sp. nov. and *Trigonium arcticum* (Bacillariophyceae) from the surface sediments of Prydz Bay, East Antarctica. *Micropaleontology*, 61 (3), 185-192.
  - Abhilash Nair, Rahul Mohan, Suhas Shetye, **Sahina Gazi** and Syed Jafar. Morphological variations of *Trigonium arcticum* (Brightwell) Cleve (Bacillariophyceae) from the surface sediments of Prydz Bay, East Antarctica. *Micropaleontology*, 61, 23-27.

#### **2014**

- Patil, S. M., Mohan, R., Shetye, **S., Gazi**, S. and Jafar, S. Morphological variability of *Emiliana huxleyi* in the Indian sector of the Southern Ocean during the austral summer of 2010. *Marine Micropaleontology*, 107, 44-58.
- Shetye, S., Mohan, R., Jafar, S. A., Nair, A., Patil, S., Jawak, S., Asthana, R. and **Gazi, S.** Diatom burst driven silica depletion under Antarctic sea ice: evidence from Sponge spicules. *Current Science*, 107 (2), 273-277.
- Shramik Patil, Rahul Mohan, Suhas S. Shetye, **Sahina Gazi**, Syed Jafar. A new siliceous haptophyte in the Indian sector of Southern Ocean during. *Micropaleontology* 60, 475-481.
- Shramik Patil, Rahul Mohan, Suhas S. Shetye, **Sahina Gazi**. Calcification and Variability of Coccolithophorid *Emiliana huxleyi* in the Southern Indian Ocean during Austral Summer. *Marine Micropaleontology*, 107, 44-58.
- Shramik Patil, Rahul Mohan, **Sahina Gazi**, Suhas Shetye, Syed Jafar. *Petasaria heterolepis* (Prymnesiaceae) from the Southern Indian Ocean 2014. *Micropaleontology*.

#### **2012**

- Patil, S. M., Mohan, R., Shetye, S. and **Sahina, G.** Phytoplankton abundance and community structure at the Antarctic Polar Frontal Region during austral summer of 2009. *Chinese Journal of Oceanology and Limnology*, 31 (1), 21-30.
- Shramik Patil, Rahul Mohan, Suhas S. Shetye, **Sahina Gazi**. Diatom abundance and community structure at the Antarctic Polar Frontal Region during austral summer of 2009. *Chinese Journal of Oceanology and Limnology*, 31: 21-30. 15.
- Suhas S. Shetye, R. Mohan, S. K. Shukla, M. Sudhakar and **S. Gazi**. Zirconium on benthic foraminiferal tests in the Arctic: a plausible shield towards ocean acidification. *Scientific Report*.