



**Joint IITB - Washington University in St. Louis
Aerosol and Air Quality Workshop
(Sponsored by MPCB, India)**

June 8-9, 2017 at IIT Bombay

MOTIVATION AND FORMAT

Aerosol physics and chemistry encompasses the basic principles that describe the formation, growth, and evolution of a system of particles suspended in a gaseous medium, and the measurement, characterization, and modeling of their properties. Advances in this cross-disciplinary area of research are pivotal for improving our understanding and estimation of climate forcing; ensuring air quality protection; assessment of health impacts; and enablement of advanced material synthesis. Over the years, findings of large variations in formation pathways, morphology, chemical composition and optical properties of aerosols have spurred a rapid growth of interest in this discipline. The purpose of this workshop is to bring together a group of researchers from Indian Institute of Technology Bombay and Washington University in St. Louis with diverse interests and expertise in nucleation, transport, growth, instrumentation, characterization, and multi-scale modeling of aerosols to discuss recent advances, current challenges, and new directions.

The workshop will kick-off with welcome remarks by IITB Director Dr. Devang Khakhar and Washington University School of Engineering Dean Dr. Aaron Bobick, followed by four moderated sessions. Each of these sessions will be led by four/five subject matter experts to discuss the state-of-the-art and identify critical issues pertinent to the session. Each speaker will introduce the topical area by presenting state of the art and challenges. Following this, they will identify the future directions and needs. A group-style discussion will follow at the end of each session with the goal of formulating a visionary guide for future research directions.



PROPOSED PROGRAMME

June 8, 2017

8:30	Welcome Remarks	IITB Director Devang Khakhar
8:40	Welcome Remarks	WUStL Dean Aaron Bobick
8:50	Workshop Logistics	Representatives from IITB & WUStL

Session I Aerosol Formation, Growth and Transport

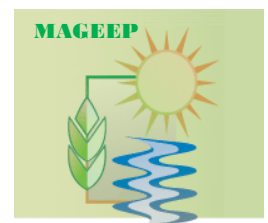
Moderators : Pratim Biswas and Y.S. Mayya

9:00	Pratim Biswas (WUStL)
9:15	Rajan Chakrabarty (WUStL)
9:30	Y.S. Mayya (IITB)
9:45	Jyoti Seth (IITB)
10:00	Moderated Discussion
10:30	Coffee Break

Session II In-situ Particle Dynamics and Measurement

Moderators : Rajan Chakrabarty and Ratul Dasgupta

11:00	Rochish Thaokar (IITB)
11:15	Ratul Dasgupta (IITB)
11:30	Brent Williams (WUStL)
11:45	Rajan Chakrabarty (WUStL)
12:00	Moderated Discussion
12:30	Lunch





Session III Atmospheric Aerosols and Monitoring

Moderators : Jay Turner and Virendra Sethi

- 14:00 Virendra Sethi (IITB)
- 14:15 Jay Turner (WUStL)
- 14:30 Rudolph Husar (WUStL)
- 14:45 Chandra Venkataraman (IITB)
- 15:00 Harish Phuleria (IITB)
- 15:15 Moderated Discussion

Session IV Particle Technology and Pollution Control

Moderators : Partha Sarathy Goswami and Pratim Biswas

- 15:45 Partha Sarathy Goswami (IITB)
- 16:00 P. Sunthar (IITB)
- 16:15 Richard Axelbaum (WUStL)
- 16:30 Pratim Biswas (WUStL)
- 16:45 Moderated Discussion
- 17:15 Coffee Break

Summary and Concluding Remarks

- 17:30 – 18:30 All Participants: Propose potential research areas for collaborative work
Discuss Outline of White Paper

