

**ABC Science Team Meeting
and
South Asian Workshop on Air Pollution, Aerosols
and Regional Impacts**

February 2 to 4, 2004

Held at The Energy and Resources Institute,
India Habitat Centre, Lodhi Road, New Delhi- 110003

Co-Sponsored by: TERI, UNEP, NOAA & the ABC-Asia Program

February 2, 2004: ABC Science Team Meeting

Venue: Casurina Hall, India Habitat Centre, Lodhi Road, New Delhi – 110 003

8.30-9.00 **Registration**

9.00–9.30 **Opening Session**

Welcome & opening remarks: R K Pachauri, Director-General, TERI

Inaugural address: Prodipto Ghosh, Secretary, Ministry of Environment and Forests, Government of India

Remarks from Klaus Töpfer, Executive Director, UNEP (by S. Shrestha)

9.30–9.50 **Break**

Session I. Major Research Themes

{These talks should attempt to give an overview of principal findings and emerging issues and give concrete proposals for what ABC should do; The focus should be on the S. and SE Asian regions}

9.50–12.10 **A. Air Pollution, Chemistry and Long Range transport**

[Chairs: V Ramanathan & T Nakajima]

{20 minutes total each presentation including 3 minutes discussions}

Regional Observations: Post-INDOEX Perspective & Overview

A P Mitra

A Jayaraman

Regional Emission Estimates

C Venkataraman

T S Panwar

G Carmichael

Mega Cities Issues

S Liu

J Lelieveld

12.10–1.10 **B. Aerosol forcing & Impact Studies: What are ABC's research plans?**

[Chair: A. P. Mitra]

{20 minutes total each presentation including 3 minutes discussions}

Global Modelling of Aerosols & Forcing T. Nakajima

Monsoon Modelling D. R. Sikka

Agriculture Impacts M. Agrawal

1.10–2.10 **Lunch**

Session II. ABC Initiatives and Assessment of Progress:

2.10-3.00 A. Regional ABC Programs: [Chairs: P Y Whung]

{15 minutes total each presentation}

The ABC-China Program: Shi, Guang-yu
Zhang, Yuanhang
East-Asia ABC Meeting Summary: H Akimoto
The SIDA (Sweden) Program: H Rodhe

3.00-3.15 Break

3.15-4.15 B. Observatories: [Chair: H Rodhe]

{15 minutes total each presentation}

India : A P Mitra
Maldives, Nepal and Trinidad Head : C. Corrigan & V. Ramanathan
Gosan : Soon-Chang Yoon
Selection of Sites in China : Shi, Guang-yu

4.15-5.15 C. The October 2004 Campaign: *{15 minutes total each presentation}*

V Ramanathan
G Carmichael
C. Corrigan
M. Koike

Session III. International Collaborations

[Chair: P J Crutzen]

5.15-6.00 IGAC and START, EV-K2 and ABC (Panel Discussion) :
Panelists: A Jayaraman, M Koike, S Liu, H Rodhe, B Schommer

6.30-8.00 **Reception followed by Dinner**

South Asian Workshop on Air Pollution, Aerosols and Regional Impacts, February 3, 2004

Venue: Casurina Hall, India Habitat Centre, Lodhi Road, New Delhi – 110 003

9.30-10.00 Keynote address: Role of Biomass Burning in the Tropics, P J Crutzen
[Chair: R K Pachauri]

10.00-10.15 **Break**

{15 minutes total each presentation unless otherwise mentioned}

Session I. Air Pollution, Chemistry and Long Range transport

[Chairs: A Jayaraman and M Koike]

10.15-12.05	Overview	H Akimoto (20 min)
	T S Panwar and R Uma	Emissions of SO ₂ and BC in South Asia
	C Venkataraman	Aerosol emissions from small biomass fires
	S Lal	Transport of Ozone and related pollutants over the marine regions around India.
	H Rodhe	Importance of rain chemistry
	M. M. Rahman	Status of air pollution studies in Bangladesh.
	M Koike	Asian chemical outflow to the Pacific in late-spring observed during the PEACE-B aircraft mission

{15 minutes total each presentation unless otherwise mentioned}

Session II: Aerosols, Regional Forcing and Impacts

[Chair: Zhang Yuanhang]

12.05-12.25	Overview	V Ramanathan (20 min)
12.25-12.55	A. Regional Characterization of Aerosols	
		[Chair: Zhang Yuanhang]
	A Jayaraman	Micro Pulse Lidar study of the seasonal and spatial variations in aerosol characteristics over Ahmedabad and west Gujarat region.
	K Rajeev	Multi-year satellite observations of regional aerosol distribution and transport over the oceanic areas around the Indian subcontinent: Mean structure, variability and extreme events

12.55-2.00 **Lunch**

2.00-3.00

A Shrestha Temporal variations in aerosol properties in the Nepal Himalaya and their relationship with atmospheric circulation

L. C.Peng Aerosol studies in Malaysia.

B Thana Optical properties in dry season over Sri Samrong, Thailand.

R. R. Prasad Wintertime meteorology and air pollution transport characteristics over the Kathmandu valley, Nepal.

3.00-3.15 **Break**

3.15-4.00 **B. Regional Aerosol modelling, Climate forcing & Impact Studies**
[Chairs: C Venkataraman]

G Carmichael Regional-scale aerosol modelling activities for ABC

I Podgorny Mineral dust radiative forcing over Arabian Sea

M V Ramana Aerosol radiative forcing at the surface over the Himalayas

4.00-5.05 **C. Climate Modeling and Impact on Climate, Agriculture & Health**
[Chairs: D R Sikka]

Overview K Balakrishnan (20 min)

R Krishnan Near surface variability associated with the INDOEX haze

K Narula Impacts of climate change on water resources – a case study in India

N Kalra Possibilities of modifications in the crop simulation models for capture of specific climatic events.

5.05-6.00 **Working Group Session (Co-Chairs: C. Corrigan, A. Jayaraman & M. Koike) (only for those interested):** The October Intercomparison and Model Validation Campaign.
Participation and formation of working groups

Executive Session of the ABC Science Team

Open only to Science and Policy Team members and select invitees.

February 4, 2004: 9.00 to 12.30 am

Venue: Conference Room, 4th Floor, TERI, India Habitat Centre, Lodhi Road, New Delhi

Chair: Klaus Töpfer