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MINISTRY OF EARTH SCIENCE



SaGAA 2011



National Conference on
SCIENCE &
GEO POLITICS OF
ARCTIC &
ANTARCTIC



KNOWLEDGE PARTNER



JANUARY 14 & 15, 2011

INDIA INTERNATIONAL CENTRE, NEW DELHI, INDIA

ORGANISED BY





Context Arctic and Antarctic are generally regarded as the barometer not only of the world's climatic impact but also of its exploration possibilities. The countries having research stations in the polar realms are considered ahead in scientific temperament and prowess at the same time the possible resources in these regions make the presence of different countries geopolitically important. Therefore it is important to bring together the Science and Geopolitics of Arctic and Antarctic. The scientific research are being mapped and documented better today than they were even a decade ago. Despite prolific studies, international consensus on critical dialogue that emerges from the fragile icy realms of Arctic and Antarctica still largely fragmented. Although, tropical regions such as India are located far away from the epicenters of the polar areas, yet the ripples of change in the Arctic and Antarctica have far reaching implications for populous resource starved nations such as India. Thus the holding of stakes in Polar Regions needs to be asserted. As the Polar Regions throw up opportunities of commercial resource exploitation of resources, countries such as India need an active share to ensure the basic needs to its teeming millions.

The Focus Significant global consequences of a science and geopolitics of polar oceans dialogue can seriously affect our resource map in the next 25 years. A consortium of scientists, policy makers and activists need to put together learnings, research and field notes to put forward balanced and enabling views on global positions outlining the role of developing nations such as India. The concerns of the global community ranges from adaptation to survival. The vulnerability ranges within and without nations differ, making the task of sharing polar realms even more arduous.

The Outcome The National Conference on Science & Geopolitics of Arctic & Antarctic will enable the scientific networked group of stakeholders to interact on a single platform to enable greater amalgamation of global research with ground truthing. The recommendations and views put forward will be a beacon for developing nations such as India with policy makers using documentations from such symposiums to shape future adaptation



THE THEMES

The Changing Climate and Resource Management in India in view of opening Frontiers of Arctic & Antarctic:

- Rising Temperatures and Sea Ice
- Monitoring Antarctic Environment
- Paleoclimate
- Southern Ocean Observations

Changing Global Positions and Legalities of International Resource Sharing in the Perspective of the Polar Realms:

- Geopolitics of the global realms
- Petroleum Exploration
- Species shift
- Renewable energy options

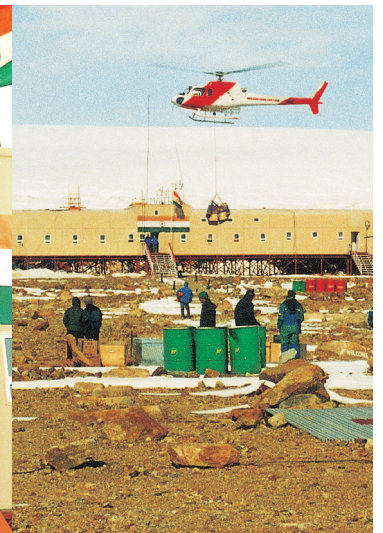
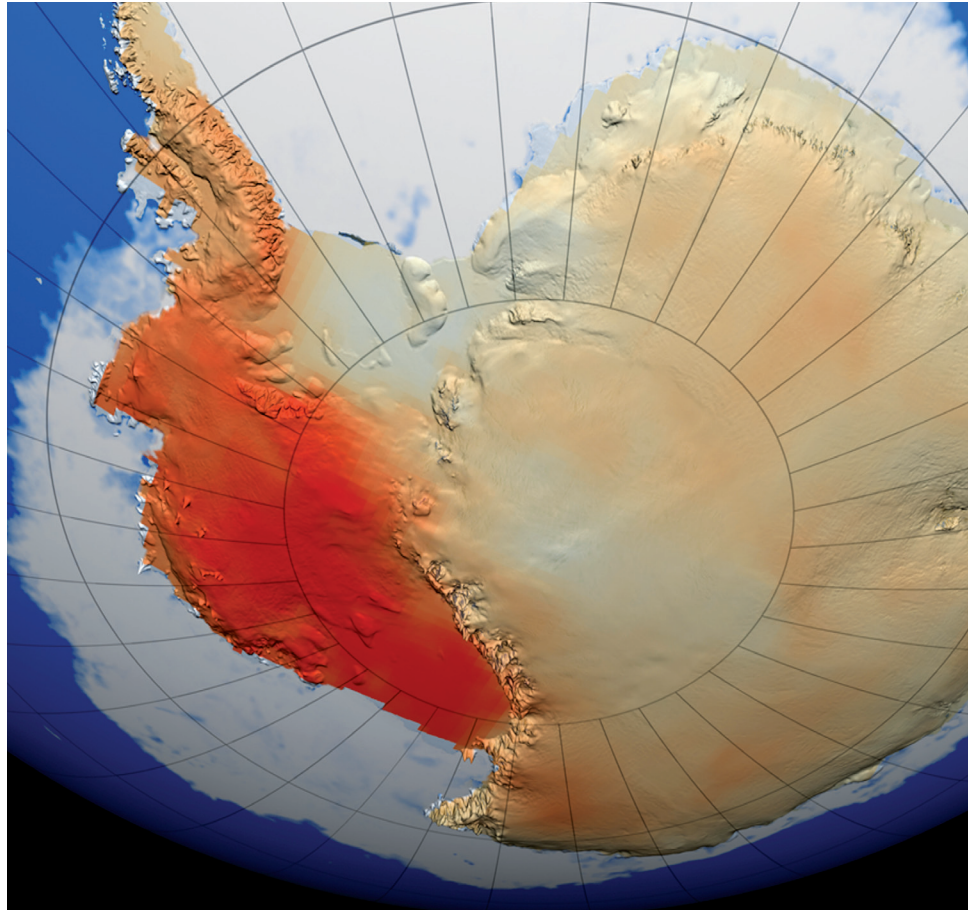
The Geopolitics of the Arctic & Antarctic and Environmental Norms of Resource Usage:

- Shipping and Transportation Lines
- Health Concerns and Ultraviolet Radiation
- Mining Explorations
- Fisheries and Fisherfolk

The National Conference on Science & Geopolitics of Arctic & Antarctic will enable the scientific and non-scientific networked group of stakeholders to interact on a single platform to enable greater amalgamation of national research with ground truthing

and exploration programmes. The interdisciplinary role played by the different stakeholders who are parties to the polar dialogue will enthuse a whole new generation with an active interest in research on oceans of polar areas – building the scientific capacity of India and the world.

The Distinguishing Features Our conferences are known for their focus on dissemination of information, sharing of expertise and exchange views. Schedules are adhered to and there is adequate time for discussion and networking. Each technical will consist of 12 presentations. The first 7 will be scientific studies, 3 will be on official views and 2 will be by activists working in allied areas. Each session will have interactive discussions with Q&A and floor discussions. For further information please visit www.geographyandyou.com





TENTATIVE SPEAKERS

Commander S K Thakur
 Dr A J Loius
 Dr A K Gwal
 Dr A K Mahajan
 Dr A. Chakraborty
 Dr Arun Tripathi
 Dr Ashwaghosha Ganju
 Dr Aswini Wagneo
 Dr B C Arya
 Dr B Mukhopadhyay
 Dr B S Ingole
 Dr C G Deshpandey
 Dr G Ilavazhagan,
 Dr G S Roonwal
 Dr Jaypal
 Dr K Krishnamoorthy
 Dr K S Shaktawat
 Dr Kuldeep Khachroo
 Dr L S Rathore
 Dr L Subramaniam
 Dr Lokabharathi
 Dr M Sanjappa
 Dr M Sudhakar
 Dr M V Ramana
 Dr Madan Mohan
 Dr N K Vyas
 Dr N Prasad
 Dr N C Mehrotra,
 Dr Nityanand Singh
 Dr Prabhu Motadkar
 Dr Pranav Desai
 Dr R P Lal
 Dr R R Navalgund,
 Dr Rajan
 Dr S Chaturvedi

Dr S Hazra
 Dr S K Jain
 Dr S Pohit
 Dr S Prasanna Kumar
 Dr S W A Naqvi
 Dr S Z Qasim
 Dr S Mukherjee
 Dr S Shivaji
 Dr Sandeep Chopra
 Dr Sarfaraz Alam
 Dr Satish R Wate
 Dr Satyendra Bhandari
 Dr Sohan Lal Jain
 Dr Sudeep Kumar
 Dr T Banerjee
 Dr V N Ojha
 Dr V Sakhuja
 Dr Y J Bhaskar Rao
 Mr K V Ravishankar
 Padmashri, Dr V P Dimri,
 Prof G N Nayak
 Prof R Ramesh
 Prof U R Rao
 Prof Arun Dalvi
 Prof Dhruv Sen Singh
 Prof K G Saxena
 Prof Mihir K Dash
 Prof R Shankar
 Prof S Mukherjee
 Prof Talat Ahmad
 Shri Ashis Fernandes
 Shri D K Rawat,
 Shri M V Lall,
 Shri Neeladri Chatterjee
 Shri S C Sarma



THE ORGANISING COMMITTEE OF SAGAA 2011

■ DR P C PANDEY, CHAIRMAN

A scientist and academic in the fields of Satellite Oceanography, Remote Sensing, Atmospheric Science, Antarctic and Climate Change, Dr Pandey obtained his Masters and Bachelors degrees in solid-state physics and science respectively from Allahabad University. He completed his D.Phil from the same University (on microwaves) in 1972. In 1966, Dr. Pandey became a lecturer in DAV Degree College, Azamgarh. From 1968 to 1972 he was at the Council of Scientific and Industrial Research, and from 1973 to 1977

at the Central Water and Power Research Station, Khadakwasla. In 1977 he joined the Oceanic Sciences Division, Space Applications Centre, Ahmedabad where he worked for the next twenty years. In the 1980s at the Jet Propulsion Laboratory, Pasadena, he worked on the Upper Atmosphere Research Satellite and SEASAT programmes. During 1997-2005, he was the founding director of the National Centre for Antarctic and Ocean Research (NCAOR), Goa. He also founded the K. Banerjee Centre of Ocean and Atmosphere Studies (KBCAOS) in Allahabad University.

Consensus on critical dialogue that emerges from the fragile icy realms of Arctic and Antarctica is fragmented. Scientists, policy makers and activists need to put forward balanced and enabling views on global positions outlining the role of developing nations



Currently a Professor Emeritus at IIT Kharagpur (IIT-K) since 2007 he has been a visiting IIT-K's Center for Ocean, River, Atmosphere and Land Sciences (CORAL). Dr. Pandey has published 134 research papers, 7 books, 9 reports and 4 atlases and has guided many PhDs. He is a member of the editorial board of many international journals.

■ **MS SULAGNA CHATTOPADHYAY, CONVENOR**

Editor of Geography and You, she has completed her M.Phil in Regional Development from Jawaharlal Nehru University. She has procured eighteen years of experience in the publication and media line, working with Eicher Good Earth first and then in Living Media (India Today Group) after which Geography and You evolved. Geography and You is being published for 10 years now. Ms. Chattopadhyay has 12 research articles and 2 books to her credit.

■ **DR G S ROONWAL, CO-CONVENOR**

The former head of Dept. Geology, University of Delhi, he is presently a visiting professor of the Indian Inter University Accelerator Centre (IUAC), known before as the Nuclear Science Centre.

■ **DR N PRASAD, CO-CONVENOR**

He has done M.A., M Phil, PhD from School of International Studies, Centre for International Politics, Organisation and Disarmament, Jawaharlal Nehru University, New Delhi. He is trained in research and analysis. Further he has two books of international quality to his name and has been the editor of Bhugol aur Aap a bio-monthly magazine on Environment and Development from its inception. Dr. Prasad has vast experiences in the field of international relations.



EXHIBITION DETAILS

SaGAA Trends, Strategies and Solutions

A scientific exhibition will be held on the side lines of the Conference in a large outdoor space at India International Centre with self standing panel exhibits displayed in gallery style.

Exhibitors will see their panels being placed alongside the photo exhibition of the South Pole Expedition undertaken by National Council for Antarctic Ocean Research (NCAOR). Panel Size is 3ft wide by 5ft height

The material used will be sunboard and the printing will be digital. The colour palette used for the panels will be sky to navy blue.

Specifications need to be adhered to bring about a symmetry in display.

Display Time will be from 10 am on 14th January 2011 to 10 pm on 15th January 2011. Special spot lighting of each panel will be undertaken by the organisers for the 15th evening.

The exhibition cost is ₹ 25,000 per panel.



For any queries contact:

Dr N Prasad, LIGHTS (Learning in Geography, Humanities, Technology and Science)

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E-mail: lights2003@gmail.com

Ph: 011 26122789/ 26892275 M: 9313360354



SAGAA 2011 : BENEFITS

Complimentary Benefits to the Exhibitors

Booking one exhibit worth ₹ 25,000 will include

- Free registration of one member, and
- Half page advertorial about organisation's programmes in the special issue of G'nY an environment and development magazine being published from Delhi for over a decade. The special issue will be distributed during the Conference.

To avail the complimentary services the exhibition panel/s needs to be confirmed by the 15th of December. Complimentary material for publication in G'nY must be emailed at geographyandyou2001@yahoo.co.in by 17th of December. The cheque/Demand Draft for the exhibition may be made in the name of IRIS Publication Pvt. Ltd., payable at New Delhi.



SCIENCE & GEOPOLITICS OF ARCTIC & ANTARCTIC: SAGAA 2011

Trends, Strategies and Solutions

Date: 14 January, 2011

Session 1	Inauguration
11.30 to 1.00 am	Welcome Address by Convenor LIGHTS Inaugural Address by Chief Guest Special Address by Dr R Ravindra Key note Address by Dr P C Pandey Vote of thanks by Co-ordinator
1.00 to 2.00 pm	Lunch Break
Session 2	Paper Presentations
2.00 to 4.50 pm	Theme 1: The Changing Climate and Resource Management in India in view of opening frontiers of Arctic and Antarctic 12 Paper presentations Breakup of views: 7 scientific studies, 3 official/legal views and 2 activist working in allied areas Chair: Dr Rasik Ravindra

Date: 15 January, 2011

Session 3	Paper Presentations
10.00 to 11.30 am	Theme 2: Changing Global Positions and Legalities of International Resource Sharing in the perspective of the Polar Realms 12 Paper presentations Breakup of views: 7 scientific studies, 3 official/legal views and 2 activist working in allied areas Chair: Dr P C Pandey
11.30 to 11.45 pm	Tea Break
Session 4	Paper Presentations
11.45 to 1.30	Theme 3: The Geopolitics of the Arctic & Antarctic and Environmental Norms of Resource Usage 12 Paper presentations Breakup of views: 7 scientific studies, 3 official/legal views and 2 activist working in allied areas Chair: Dr K J Ramesh
1.30 to 2.30	Lunch Break
Session 5	Paper Presentations
2.30 to 4.30	Theme 3: Geopolitics of the Arctic & Antarctic and Environmental Norms of Resource Usage. Focus: Industry 12 Paper presentations Breakup of views: 7 scientific studies, 3 official/legal views and 2 activist working in allied areas Chair: Dr G S Roonwal
4.30 - 5.00	Tea Break
5.00 to 5.30	Valedictory Function
7.00 onwards	Dinner



SCIENCE & GEOPOLITICS OF ARCTIC & ANTARCTIC

Trends, Strategies and Solutions

Registration Form

I would like to join the Science & Geopolitics of Arctic & Antarctic.

My details are given below :

Name:

Organisation:.....

Contact Address:

Tel: Mobile:

Email:

I am interested to join the conference on Arctic & Antarctic because I am a:

- Official /Scientist
- Activist
- Professor
- Researcher

I want to attend the theme/s titled,

- The Changing Climate and Resource Management in India in view of opening frontiers of Arctic and Antarctic
- Changing Global Positions and Legalities of International Resource Sharing in the perspective of the Polar Realms
- The Geopolitics of the Arctic & Antarctic and Environmental Norms of Resource Usage

Registration Fee

- Student Delegates - ₹ 250
- RA/ Faculty Delegates/Consultant - ₹ 500
- Delegate (1) representing research institutions/NGOs - ₹ 2000
- Delegates (2) representing research institutions/NGOs - ₹ 3000
- Delegate (1) representing other institutions - ₹ 5000
- Delegates (2) representing other institutions - ₹ 8000

Delegate Speakers can avail a special 20 per cent discount on registration fees.

Sign.....

Date



Paper Submission

You may email the 300 word abstracts to lights2003@gmail.com. Please indicate the them and sub theme (pl see page 4 and 5 of the brochure) under which you are submitting the paper. The last date of abstract submission is 15th December 2010. After a swift review by the committee, the submissions will be confirmed by 30th December 2010 and schedules prepared.

Contact: **LIGHTS, Research Foundation**

Learning in Geography, Humanities, Technology and Science (LIGHTS)

1584 B1, Vasant Kunj, New Delhi-110070 E-mail: lights2003@gmail.com