

PROGRAMME SCHEDULE



The 7th Conference on Science & Geopolitics of

ARCTIC AND ANTARCTIC

The Future of Arctic Ice

An Indo-Pacific Connect

India International Centre, New Delhi | April 27-28, 2023

Supported by



Ministry of
Earth Sciences



Norwegian
Embassy
in India

Knowledge partner



NEW DELHI

Organised by



lights.org.in

The 7th Conference on Science & Geopolitics of

ARCTIC AND ANTARCTIC

The Future of Arctic Ice

An Indo-Pacific Connect

PROGRAMME SCHEDULE

Day 1 - April 27, 2023

0900 - 1000	REGISTRATION
1000 - 1140	INAUGURATION
1000 - 1005	Introduction to SaGAA: Dr. Sulagna Chattopadhyay , <i>President, SaGAA; Editor-in-Chief, Geography and You.</i>
1005 - 1010	Welcome Address: Dr Rasik Ravindra , <i>Chairman SaGAA 7</i>
1010 - 1020	Guest of Honour: HE Mr Hans Jacob Frydenlund , <i>Ambassador of Norway to India</i>
1020 - 1030	Special Guest: Shri Sanjay Verma <i>Secretary (West), Ministry of External Affairs</i>
1030 - 1040	Distinguished Guest: Ambassador Pankaj Saran <i>Convenor NatStrat,</i> Fmr Deputy National Security Adviser, Government of India

April 27, 2023

1040 - 1055	Chief Guest: Dr M Ravichandran <i>Secretary, Ministry of Earth Sciences</i>
1055 - 1100	Concluding Remarks and Vote of Thanks: Prof N C Pant <i>Co-Chairman SaGAA, (Fmr) Department of Geology, Delhi University</i>
1100 - 1120	Plenary: Title: Climate Change and the Arctic Sea Ice: Lessons learned and Future Strategies. Dr R Krishnan , <i>Director, Indian Institute of Tropical Meteorology, Pune</i>
1120 - 1140	Plenary: Title: Indigenous people and their melting abodes Er. Sonam Wangchuk , <i>Inventor and Educator, Director, HIAL</i>
1140 - 1200	Tea Break
1200 - 1400	Technical Session 1
PRESERVING THE POLES THE DYNAMICS OF CHANGE	
Chair: Dr. M N Rajeevan , <i>Former Secretary, Ministry of Earth Sciences, Govt. of India</i> Co-Chair: Dr Gopal Iyengar , <i>Scientist G, Advisor, Ministry of Earth Sciences, Govt. of India</i>	

April 27, 2023

Time	Title	Speaker
1200 -1215	Permafrost Pathways in the Arctic and the Himalaya.	Dr Santonu Goswami , Associate Professor, Azim Premji University, Bangalore
1215 - 1230	India's expanding role in Arctic Science	Dr. Anand Jain , Project Scientist, National Centre for Polar and Ocean Research , Goa
1230 - 1245	Summer variability in bio-optical properties and phytoplankton pigment signatures in two adjacent high Arctic fjords, Svalbard	Dr Sarat C Tripathy , Scientist F & SIC (Oceand Sciences), National Centre for Polar and Ocean Research, Goa
1245 - 1300	Changes in the Arctic Ocean and the Need for Sustained Observations	Dr Paul Dodd , Scientist, Norwegian Polar Institute, Norway
1300 - 1315	Exchange of Mass/ Particle across air-ice-sea interface in Southern Ocean	Dr Jenson George , Scientist, National Centre for Polar and Ocean Research, Goa

April 27, 2023

1315 - 1330	Recent Antarctic Sea-Ice record low: Role of Ocean-Atmospheric Forcing	Dr Avinash Kumar , Scientist, National Centre for Polar and Ocean Research, Goa
1330 - 1345	Predicting Tipping Points for the Future Collapse of the West Antarctic Ice Sheet and Sea Level Rise from Pliocene-Pleistocene Records	Dr Waliur Rahaman , Scientist, Cryosphere Science Division, National Centre for Antarctic and Ocean Research, Goa
1345 - 1400	Q&A and Group Photo Session	
1415 - 1500	Lunch Break	
1500 - 1600	PANEL DISCUSSION	
	Discussion Panel 1: Challenges in Managing the Oceans - Scientific, Economic and Strategic Context	
	Chair: Dr Ravichandran , Secretary, Ministry of Earth Sciences, Govt. of India Co-chair: Dr Satheesh Shenoi , Former Director, Indian National Centre for Ocean Information Services, Hyderabad	

April 27, 2023

	<p>Discussants: Dr T Srinivasa Kumar, <i>Director</i>, National Centre for Ocean Information Services (Ocean Advisory) Dr M A Atmanand, <i>Former Director</i>, National Institute of Ocean Technology, Chennai (Technological Innovations) Dr S Rajan, <i>Fmr Director</i>, National Centre for Polar and Ocean Research, Goa (Conflicts and Law of the Sea) Captain Sarabjeet S Parmer, <i>Senior Fellow</i>, National Maritime Foundation (Arctic Ocean Common Heritage Mankind - CHM) Dr G. Latha, <i>Head - Ocean Acoustics and Scientist G</i>, NIOT (IndArc Ocean Data)</p>
1600 - 1615	Tea Break
1615 - 1900	Technical Session 2
	ONE WORLD TECHNOLOGIES SHARING INNOVATIONS
<p>Chair: Dr. Shailesh Nayak, <i>Director</i>, National Institute of Advanced Sciences, Bangalore Co-chair: Dr R Krishnan, <i>Director</i>, Indian Institute of Tropical Meteorology, Pune</p>	

April 27, 2023

Time	Title	Speaker
1615 - 1630	Innovations in Cryospheric Research using Space based Technology	Dr R P Singh , <i>Director</i> , Indian Institute of Remote Sensing, ISRO, Government of India
1630 - 1645	Indian Inputs in the Technological Innovations in Deep Ocean Mission	Dr G A Ramadass , <i>Director</i> , National Institute of Ocean Technology
1645 - 1700	Green Hydrogen Developments in Australia	Dr Dilawar Singh , <i>CEO</i> , Sun Brilliance Group, Australia
1700 - 1715	Technological Innovations in Geothermal Energy: Learnings from Iceland	Ms Kunzes Dolma , <i>WING India Ambassador/ GRÓ GTP PhD Fellow</i> , Iceland / Vice Chairperson, Sustainable Development Forum of Ladakh (SDFL)
1715 - 1730	Developing an Early Warning System in the Himalayas	Dr O P Mishra , <i>Director</i> , National Centre for Seismology, MoES, New Delhi
1730 - 1745	Early Warning System for GLOFs	Dr Miriam Jackson , <i>Senior Cryosphere Specialist</i> , International Centre for Integrated Mountain Development, Kathmandu, Nepal

April 27, 2023

1745 - 1800	An idea for Early warning system for flash floods in Himalaya	Dr Vimal Singh, <i>Professor,</i> Department of Geology, Centre of Advanced Studies Delhi University
1800 - 1815	Green and Blue Growth: Prospects of the Southern Ocean Biomass	Dr Tanu Jindal, <i>Pro Vice Chancellor,</i> Director, Amity Institute of Environmental Toxicology, Safety and Management, Amity University, Noida
1815 - 1830	Assessing hydrological resources through innovative technologies	Dr Virendra M Tiwari, <i>Outstanding Scientist & JC Bose National Fellow,</i> CSIR-National Geophysical Research Institute, Hyderabad

Day 2 - April 28, 2023

0930-1200		Technical Session 3
		SCIENCE OF THE THREE POLES CRYOSPHERIC BRIDGES
Chair - Dr Thamban Meloth, <i>Director,</i> National Centre for Polar and Ocean Research, Goa		
Co-chair - Dr Nalan Koc, <i>Research Director,</i> Norwegian Polar Institute, Norway		
Time	Title	Speaker
0930 - 0945	Ground and Space based Monitoring of Cryosphere	Dr S A Romshoo, <i>Vice Chancellor,</i> Islamic University of Science and Technology, J&K
0945 - 1000	Space applications in study of Antarctic Ice-Sheet	Dr. Sandip R Oza, <i>Scientist, Head Cryospheric Science Division,</i> Space Applications Center (SAC), ISRO, Bangalore
1000 - 1015	Antarctic RINGS Addresses a Critical Knowledge Gap that IPCC Identified for Future Sea-level Rise Projections	Dr Kenichi Matsouka, <i>Scientist,</i> Norwegian Polar Institute, Norway
1015 - 1030	Changing Glaciers and its Implication on Hydrology in Western Himalaya	Dr Parmanand Sharma, <i>Scientist,</i> Himalayan Cryosphere Studies, Polar Science Division, National Centre for Polar and Ocean Research, Goa

April 28, 2023

1030 - 1045	Understanding the Himalayan Debris Covered Glaciers: Characteristics and Evolution	Dr Aparna Shukla , <i>Scientist, Hydrology & Cryosphere, Ministry of Earth Sciences, New Delhi</i>
1045 - 1100	Climate Change And its Impact on Water Cycle over South Asia	Dr K J Ramesh , <i>Fmr DG, Indian Meteorological Department</i>
1100 - 1115	Sea-Ice Dynamics in the Arctic Using a Multi-model Ensemble Approach	Dr Vimlesh Pant , <i>Professor, Centre for Atmospheric Sciences, Indian Institute of Technology, New Delhi</i>
1115 - 1130	Understanding Glaciers and Glacial Lake Responses across the Sikkim Himalayas	Dr Manasi Debnath , <i>Assistant Professor, Nagaland University</i>
1130 - 1145	Q&A and Group Photo Session	
1145 - 1200	Tea Break	
1200 - 1345	Technical Session 4	
BETTERING OUR WORLD NEW IDEAS AND ADAPTATION NEEDS		
Chair: Dr Parvinder Maini , <i>Scientific Secretary, Office of Principal Scientific Advisor, Govt. of India</i>		
Co-Chair: Dr N C Pant , <i>Co-Chairman SaGAA, Fmr Prof Geology, Delhi University, on the Anthropocene and the Antarctic</i>		

April 28, 2023

Time	Title	Speaker
1200 - 1215	Accounting for Climate Change	Dr Monica Singhania , <i>Professor, Faculty of Management Studies, University of Delhi</i>
1215 - 1230	The Gender Equality in the Arctic (GEA)	Mr Hjalti Omar Agustsson , <i>Special Advisor at Directorate of Equality, Iceland</i>
1230 - 1245	Initiatives for IHR under National Mission on Sustaining Himalayan Ecosystem (NMSHE)	Dr Nisha Mendiratta , <i>Head, Climate Change, Climate Change Programme-SPLICE, DST</i>
1245 - 1300	Melting Glaciers and Sea-Level Rise	Dr Swapna Panickal , <i>Scientist E, Indian Institute of Tropical Meteorology</i>
1300 - 1315	A Home No More: Climate change and migration in select Himalayan tribes	Dr Bhaswati Das , <i>Associate Professor Centre for the Study of Regional Development School of Social Sciences, Jawaharlal Nehru University, New Delhi</i>

April 28, 2023

1315 - 1325	Engaging the youth in polar knowledge goals - Why Polar studies are even an option	Dr Archana Dayal , <i>Postdoctoral Researcher</i> , NERC Cryo365, Aberystwyth University, Aberystwyth
1325 - 1335	Q&A and Group Photo Session	
1335 - 1430	Lunch Break	
1430 - 1530	Discussion Panel 2	
<p>The Myth of Northern Sea Route Offsetting the Malacca Chair: Major General B K Sharma, <i>Director</i>, United Service Institution of India (USI) Co-chair: Dr M Sudhakar, <i>Former Director</i>, Centre for Marine Living Resources and Ecology, Kochi</p>		
Discussants:	<p>Cmde Debesh Lahiri, <i>Executive Director</i>, National Maritime Foundation, New Delhi on Strategic Importance of the Indo-Pacific Region and Climate Change Ms Marit M Strand, <i>Counsellor-Head of Cooperation</i>, Climate, Energy, Health, Higher Education, Royal Norwegian Embassy, New Delhi Prof R Srikanth, NIAS on Transitioning World Energy Routes. Dr Sulagna Chattopadhyay, <i>President</i>, SaGAA on the Northern Sea Route</p>	

April 28, 2023

1530 - 1730	Technical Session 5	
<p>POLICY IMPERATIVES SAFEGUARDING THE COMMON HERITAGE</p>		
<p>Chair: Ambassador Pankaj Saran, <i>Convenor</i>, NatStrat, <i>Former Deputy</i>, NSA, Government of India Co-chair: Dr M V Ramana Murthy, <i>Advisor</i>, MoES; <i>Director</i>, National Centre for Coastal Research, Chennai</p>		
Time	Title	Speaker
1530 - 1545	India's Arctic Outlook for a Decade Ahead	Rear Admiral Monty Khanna , <i>Assistant Military Advisor</i> , NSCS, New Delhi
1545 - 1600	Redesigning Research Eco System	Dr Rajeev Mehajan , <i>Scientist - G and Advisor</i> , SERB, Department of Science and Technology
1600 - 1615	Arctic Melting Ice: Examining NSR-Indo-Pacific Circular Transport Corridor Prospect	Dr R P Pradhan , <i>Professor</i> , Department of Humanities and Social Sciences, BITS Pilani
1615 - 1630	Selected Values of UNCLOS in Indo-Pacific Maritime Security Trade and Transport.	Dr Stuti Banerjee , <i>Sr Research Fellow</i> , Indian Council of World Affairs, Sapru House, New Delhi.

April 28, 2023

1630 - 1645	Revisiting Antarctica's Need for being fully Protected	Ms. Tiina Jortikka-Laitinen , <i>Ambassador (Polar Issues), Head of the Antarctic Treaty Consultative Mechanism Host Country Secretariat, Ministry for Foreign Affairs of Finland</i>
1645 - 1700	Exploring Oil Opportunities in the Arctic	Shri Sanjay Baveja , <i>CGM, Business Development, Exploration Directorate, ONGC Videsh Ltd.</i>
1700 - 1715	Marine Spatial Planning Arctic Ocean	Cmdr Sujeet Samaddar , <i>Founder, SAMDeS</i>
1715 - 1730	Q&A and Group Photo Session	
1730 - 1745	Tea Break	
1745 - 1800	Panel Discussion 3 Fate of Antarctic Treaty after 2047 Chair: Ms Tiina Jortikka-Laitinen , <i>Ambassador (Polar Issues), Head of the Antarctic Treaty Consultative Mechanism Host Country Secretariat, Ministry for Foreign Affairs of Finland.</i> Co-Chair: Dr Koteswar Rao , <i>Advisor, MEA</i>	

April 28, 2023

Discussants	Dr. N C Pant , <i>Co-Chairman SaGAA, Fmr Prof Geology, Delhi University, on the Anthropocene and the Antarctic</i> Dr Sanjay Chaturvedi , <i>Professor and Dean, Faculty of Social Sciences, Department of International Relations, South Asian University, New Delhi on the Contradictions and hollowing of ATS.</i> Dr Rasik Ravindra, Chairman, SaGAA , <i>Fmr Director, NCPOR on Changing Priorities in the Antarctic .</i> Dr Rahul Mohan on the Forthcoming 2024 ATCM.
--------------------	--

1800 - 1900	Valediction
1815 - 1825	Summary Presentation: Dr Rasik Ravindra, <i>Chairman, SaGAA</i>
1825 - 1830	Special Comments: Dr Nalan Koc, <i>Research Director, Norwegian Polar Institute, Norway</i>
1830 - 1840	Guest of Honour: Mr Gudni Bragason, <i>Ambassador of Iceland to India</i>
1840 - 1845	Expert Comments: Dr K J Ramesh, <i>Former Director General, India Meteorological Department</i>
1845 - 1850	Special Comments: Dr M Sudhakar, <i>Former Director, CMLRE, Kochi</i>
1850 - 1855	Concluding Comments: Dr B Meenakumari, <i>Former Chairman, National Biodiversity Authority</i>
1855 - 1900	Vote of Thanks: Dr Sulagna Chattopadhyay, <i>President, SaGAA, Editor-in-Chief, Geography and You</i>



LIGHTS

540, Bhikaji Cama Bhawan, R K Puram, New Delhi-110066

www.lights.org.in | www.geographyandyou.com

Tel: +91-11-40159058, +91-11-46014233