

Programme
Global Nuclear Politics and Strategy: Vth Annual Residential Workshop for Young Scholars
May 3-7, 2015 | NIAS, Bangalore

SUNDAY, 3 MAY

1730-1800 hrs: Tea

1800-1930 hrs: Introduction & Workshop Road-Map

1930-2030 hrs: Welcome Dinner (Green House)

MONDAY, 4 MAY

SESSION I, 0930-1100 hrs

Contemporary Global Nuclear Politics: An Overview

Amb Sheel Kant Sharma, Prof Varun Sahni

1100-1130 hrs: Tea

SESSION II, 1130-1300 hrs

Nuclear Regimes Today: Evolution of Nuclear Non-Proliferation and Export Control

Prof Varun Sahni, Amb Arundhati Ghose & Amb Sheel Kant Sharma

1130-1145 hrs: Logic of International Arms Control, Non-Proliferation and Export Control Regimes and their Link to Global Power Politics

Prof Varun Sahni,

Professor of International Politics, School of International Studies, Jawaharlal Nehru University

1145-1200: Evolution of Nuclear Arms Control and Non-Proliferation Regimes (NPT, CTBT, UNSC 1540, FMCT)

Amb Arundhati Ghose,

Former Indian Ambassador to Conference on Disarmament, Geneva

1200-1215: Evolution of Export Control and Technology Control Regimes (NSG, MTCR, Wassenaar Agreement)

Amb Sheel Kant Sharma,

Former Permanent Representative of India to the UN Offices in Vienna & the IAEA

1215-1300 hrs: Discussion

1300- 1400 hrs: Lunch (Dining Hall)

SESSION III, 1400-1530 hrs

Science of Nuclear Weapons, Nuclear Warheads and Nuclear Power

Prof R Rajaraman & Dr LV Krishnan

1400-1430 hrs: Fission, Fissile Materials, Types of Nuclear Weapons and Warheads, Need for Testing and Effects of Nuclear Weapons

Prof R Rajaraman,

Emeritus Professor of Theoretical Physics, School of Physical Sciences, Jawaharlal Nehru University

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1430-1500 hrs: Nuclear Fuel Cycle, Introduction to Different Types Nuclear Reactors, Breeders, Thorium, Enrichment and Reprocessing

Dr LV Krishnan

Former Director, Safety Research and Health Physics Programmes,
Indira Gandhi Centre for Atomic Research, Kalpakkam

1500-1530 hrs: Discussion

1530- 1545 hrs: Tea

SESSION IV, 1545-1800 hrs

Science of Missiles and Laboratory Session on Use of NIAS *Quo Vadis* Software

Prof Rajaram Nagappa, Prof S Chandrashekar, Prof N Ramani & Prof Lalitha Sundaresan

1545-1615 hrs: Introduction to Types of Missiles, Classifications and Parameters

Prof Rajaram Nagappa, NIAS

1615 -1800 hrs: Lab Session on Use of NIAS *Quo Vadis* Software

Prof N Ramani, Prof S Chandrashekar, Prof Lalitha Sundaresan & Prof Nagappa (All NIAS)

1930-2030 hrs: Dinner (Dining Hall)

TUESDAY, 5 MAY

SESSION V, 0930-1100 hrs

Evolution of Nuclear Weapons Capability

Vice Adm (Retd) Vijay Shankar & Prof S Chandrashekar

0930-0950 hrs: Evolution of Nuclear Strategy and Doctrines

Vice Adm (Retd) Vijay Shankar

Former Commander-in-Chief, Strategic Forces Command

0950-1010 hrs: Evolution of Global Nuclear Weapons Capability

Prof S Chandrashekar, NIAS

1010-1100 hrs: Discussion

1100-1130 hrs: Tea

SESSION VI, 1130-1300 hrs

Iran Nuclear Deal: Regional Nuclear Dynamics and Implications for Global Non-Proliferation Regimes

Prof R Rajaraman & Amb Arundhati Ghose (TBC)

1300- 1400 hrs: Lunch (Dining Hall)

SESSION VII, 1400-1530 hrs

Role of Nuclear Weapons in National Security Strategies: China, India, Pakistan

Vice Adm (Retd) Vijay Shankar, Dr. Manpreet Sethi & Dr D Suba Chandran

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1400-1415 hrs: Nuclear Weapons in Chinese National Security Strategies

Vice Adm (Retd) Vijay Shankar

Former Commander-in-Chief, Strategic Forces Command

1415-1430 hrs: Nuclear Weapons in Indian National Security Strategies

Dr. Manpreet Sethi

Senior Fellow, Indian Council for Social Science Research (ICSSR)

1430-1445 hrs: Nuclear Weapons in Pakistani National Security Strategies

Dr D Suba Chandran

Director, Institute of Peace and Conflict Studies

1445-1530 hrs: Discussion

1530- 1545 hrs: Tea

SESSION VIII, 1545-1700 hrs

Nuclear Dynamics in Southern Asia: China, India and Pakistan

Prof S Chandrashekar & Dr Arun Vishwanathan (NIAS)

SESSION IX, 1700-2000 hrs

Missile of October: Docudrama on the Cuban Missile Crisis

1700-1730 hrs: Introduction

Prof S Chandrashekar, NIAS

1730-2000hrs: Documentary Screening (150 minutes)

2000-2100 hrs: Dinner (Dining Hall)

WEDNESDAY, 6 MAY

SESSION X, 0900-1030 hrs

Nuclear Safety and Security

Dr LV Krishnan & Dr AR Sundararajan

0930-0930 hrs: Introduction to Nuclear Safety and Nuclear Security; Challenges due to Commonalities with Nuclear Weapons Programme

Dr LV Krishnan

Former Director, Safety Research and Health Physics Programmes,

Indira Gandhi Centre for Atomic Research, Kalpakkam

0930-1000 hrs: India's Nuclear Regulatory Framework

Dr AR Sundararajan

Chairman, Safety Review Committee for Application of Radiation in Industry, Medicine and Research (SARCAR), Atomic Energy Regulatory Board (AERB)

1000-1030 hrs: Discussion

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1030-1045 hrs: Tea

SESSION XI, 1045-1200 hrs

Cuban Missile Crisis: Post-Screening Discussion

Prof S Chandrashekar

1200- 1230 hrs: Lunch

SESSION XII, 1230 hrs

Field Trip to ISRO Satellite Centre, Bangalore

1930-2030 hrs: Dinner

THURSDAY, 7 MAY

SESSION XIII, 0930-1030 hrs

Special Lecture: Recent Debate on Nuclear Energy in Light of Kudankulam and Fukushima

Speaker: Dr Baldev Raj, Director NIAS

Chair: Dr AR Sundararajan

1030-1100 hrs: Tea

SESSION XIV, 1100-1230 hrs

Participant Presentations I: Nuclear Disarmament

1230-1330 hrs: Lunch

SESSION XV, 1330-1500 hrs

Participant Presentations II: Nuclear Weapons and Deterrence

1500-1530 hrs: Tea

SESSION XVI, 1530-1700 hrs

Participant Presentations III: Nuclear Safety and Nuclear Security

Session XVII, 1700-1800 hrs

Concluding Session and Participant Feedback

1800-1830 hrs: Tea

SESSION XVIII, 1830-1930 hrs

Valedictory Address

Vice Adm (Retd) RN Ganesh

Former Director General, Indian nuclear submarine programme

1930-2030 hrs: Closing Dinner