

SHIV NADAR

INSTITUTION OF EMINENCE DEEMED TO BE
UNIVERSITY
DELHI NCR

Inaugural Event

**GENDER AND
STEM
INITIATIVE**



February 10, 2024
India Habitat Center, New Delhi
2:00 PM to 5:00 PM

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PROGRAM

02:00 PM

Welcome address

Professor Ananya Mukherjee,
Vice-Chancellor, Shiv Nadar Institution of Eminence

2:05 PM

Opening address: Setting the stage

Professor Rohini Godbole,
Centre for High Energy Physics, IISc, Bangalore
Distinguished Visiting Professor, Shiv Nadar Institution of Eminence

2:15 PM

Special address

Professor Abhay Karandikar
Guest of Honour
Secretary to the Government of India,
Department of Science & Technology

2:30 PM

'Role that institutions can play in enhancing women's participation in science'

Panel discussion moderated by Professor Godbole

Professor Ravinder Kaur
Professor Emerita, IIT Delhi
"Steps towards Gender Equity in IIT (Delhi)"

Ms. Deepa Sundara Rajan
Senior Consultant Gender and Inclusion, British Council
"Gender Equity in STEM in the United Kingdom"

Dr. Pratibha Jolly
Science and Society Fellow, NASI,
Former Principal, Miranda House
"The GATI Pilot: Catalysing gender-equity in higher education and research"

Discussion

4:30 PM

Wrap-up and next steps

Professor Sanjeev Galande
Dean, School of Natural Sciences,
Shiv Nadar Institution of Eminence

OUR SPEAKERS



**PROFESSOR ABHAY
KARANDIKAR**

Guest of Honour
Secretary to the Government
of India, Department of
Science & Technology

Dr. Abhay Karandikar is the Secretary of the Department of Science of Technology (DST). Before joining DST in October 2023, he served as the Director of IIT Kanpur from April 18th, 2018, to September 25th, 2023 (on lien from IIT Bombay). Dr. Karandikar also served as Dean (Faculty Affairs) and Head of the Electrical Engineering Department at IIT Bombay. He spearheaded a national effort to set up the Telecom Standards Development Society of India (TSDSI), India's standards body for telecom, with the participation of all stakeholders.

Dr. Karandikar was the founding member and former Chairman of TSDSI. He was also a member (part-time) of the Telecom Regulatory Authority of India (TRAI) from January 2018 to January 2021. Dr. Karandikar has several patents issued and pending, contributions to IEEE and 3GPP standards, contributed chapters in books, and a large number of papers in international journals and conferences to his credit. He was awarded with IEEE SA's Standards Medallion in December 2016 in New Jersey. His team also won the Mozilla Open Innovation Challenge prize in March 2017 for his work on rural broadband and digital empowerment in rural India.



**PROFESSOR ROHINI
GODBOLE**

Centre for High Energy
Physics, IISc, Bangalore

Distinguished Visiting
Professor, Shiv Nadar
Institution of Eminence

Prof. Rohini M Godbole holds an M.Sc. in Physics from IIT (Mumbai) and Ph.D. from S.U.N.Y. at Stony Brook in U.S.A. A number of Institutions, such as IIT(Kanpur), IIT(Mumbai), Shiv Nadar Institute of Eminence, etc, have conferred D.Sc. on her. She has been involved in research in theoretical particle physics over the last four and a half decades, (co)authoring about 300 research articles, reports, and books. She had been conferred the prestigious *Padma Shri* award by the Govt. of India in the field of Science & Engineering - Nuclear as well as *Ordre National du Merite* by the French Government in 2021.

She champions the cause of Equity and Inclusion in Science and was the chair of the TG9 on the same subject for the Science, Technology, Innovation Policy of India-STIP-2020. She has strived for the last two decades to increase the participation of women in science and make their path in science less encumbered. Among her lasting contributions is the (co-edited) book *Lilavati's Daughters: The Women Scientists of India*, comprising autobiographical sketches of Indian women scientists, as well as landmark surveys on the status of women in science.



**PROFESSOR RAVINDER
KAUR**

Professor Emerita,
IIT Delhi

Ravinder Kaur is an Emerita Professor of Sociology and Social Anthropology at the Department of Humanities and Social Sciences, IIT Delhi. Her research is in the sociology of gender, family, marriage, kinship, middle class, technology, and women in science and technology in higher education. She has been teaching and researching at the intersections of gender, technology, and society for the last few decades. Before focusing on gender issues in STEM higher education, her research examined the role and consequences of new reproductive technologies, such as ultrasound and IVF, in enabling sex-selective abortion that resulted in serious gender imbalances in India's population. She recently completed a project on "Femtech and the Possibilities, Pitfalls and Politics of Digital Reproductive Health Management in India: Envisioning Better Reproductive Futures." She is currently the co-lead on a major Women in STEM project, "Fixing the Leak: Advancing STEM Innovation and Inclusion in India, One Woman Scientist at a Time," funded by the Co-Impact Gender Equality Fund.

She is a founder-member and first convenor of IIT Delhi's gender unit, IGES (Initiative for Gender Equity and Sensitization), where she has led many of its initiatives to create an equal, inclusive, and gender-just educational environment. As Nodal Officer and PI of the DST-GATI (Gender Advancement for Transforming Institutions) project, she was responsible for implementing the first-ever gender self-assessment of IIT Delhi, for which the institution received the "GATI Achievers" award from DST.

Link to the project website: <https://sites.google.com/view/stemthegap/home>

OUR SPEAKERS



DR. PRATIBHA JOLLY

Science and Society Fellow,
NASI,

Former Principal, Miranda
House

Dr. Pratibha Jolly served as Principal of Miranda House (University of Delhi) from 2005 to 2019. Under her leadership, the college received All India Rank One under the National Institutional Ranking Framework (NIRF) in 2017.

Dr. Jolly was chairperson of the International Commission on Physics Education (ICPE), a commission of the International Union for Pure and Applied Physics (IUPAP) from 2005 to 2011, and the IUPAP vice president from 2005 to 2008. She served on the Scientific Advisory Committee to the Cabinet constituted by the Principal Scientific Advisor to the Govt. of India from 2012 to 2017. She contributed to the National Science Technology and Innovation Policy 2020 framework as Co-Chair of Thematic Group Education.

Several national and international research grants and awards have been conferred on her. These include the Australian Leadership Award Fellowship (ALAF) 2013; Fulbright New Century Scholar Award 2009-2010; American Physical Society Kilambi Ramavataram Fellowship 1994-95; Commonwealth Academic Staff Fellowship 1986-87; GIREP (International Research Group on Physics Teaching) Medal in 2016 and Indian Association of Physics Teachers (Delhi Chapter) Lifetime Achievement Award 2016.

Dr. Jolly acquired a Ph.D. in Chemical Physics from the University of Delhi in 1980. As she began a teaching career, her interests veered towards pioneering research and innovation in science education. She was the Principal Investigator for GATI (Gender Advancement for Transforming Institutions), a novel intervention program launched by the Department of Science and Technology in 2020 to promote gender equity in STEM domains in institutions of higher education and research in India.



MS. DEEPA SUNDARA RAJAN

Senior Consultant Gender
and Inclusion with the British
Council

Deepa Sundara Rajan is a Senior Consultant in Gender and Inclusion with the British Council. She supports gender mainstreaming in British Council programmes in South Asia and East Asia. With over two decades of professional experience, Deepa has in-depth knowledge and experience of gender equality, having worked extensively in the Indian and South Asian contexts with civil society and international organisations. At the British Council, Deepa has led programmes on gender equality in higher education, women in STEM, teacher education in English, core skills, and 21st century skills with a focus on gender equality. Deepa has also led in developing insights and evidence for the British Council's work on gender equality in India, including a tracer study on the British Council's 70th-anniversary scholarships for women in STEM, launched in partnership with the British High Commission and policy research on gender equality in higher education against the backdrop of the NEP 2020. She has also designed and implemented innovative sports for development projects that challenge gender stereotypes.

Previously, Deepa worked on a government programme for women and girls' education, where she developed and implemented strategies to bring out-of-school children into mainstream schooling through bridge programmes. She has also experience working on child labor and child trafficking, where education was the key intervention strategy.

Deepa holds a Masters degree in Social Work from the Tata Institute of Social Sciences, Mumbai with a specialisation in urban and rural community development. She lives and works in Chennai.

OUR SPEAKERS



PROFESSOR SANJEEV GALANDE

Dean, School of Natural Sciences
Professor and Head,
Department of Life Sciences

Shiv Nadar Institution of Eminence

Dr. Sanjeev Galande joined the university as Dean of the School of Natural Sciences in June 2021. He brings over two decades of experience as a renowned cell biologist, epigeneticist, and academic. Dr. Galande earlier served the Indian Institute of Science Education & Research (IISER), Pune, as a Professor of Biology and Dean of Research and development. At IISER Pune, he led the Centre of Excellence in Epigenetics (CoEE) and assembled a team of scientists to study the evolution of epigenetic mechanisms using multiple model systems.

He is credited for establishing a multidisciplinary program engaged at the interface of biochemistry, molecular biology, bioinformatics, cell biology, proteomics, and genomics. He earned his Ph.D. in Biochemistry from the Indian Institute of Science in 1996 and was a postdoctoral fellow at the Lawrence Berkeley National Laboratory in the USA. Dr. Galande was the recipient of the International Senior Research Fellowship, Wellcome Trust, UK, 2005-10, DBT National Bioscience Award 2006, DST Swarnajayanti Fellowship 2007, the coveted CSIR Shanti Swarup Bhatnagar Prize 2010, GD Birla Award for Scientific Excellence 2015, and the SERB JC Bose Fellowship 2019. He has been a Fellow of the Indian Academy of Sciences since 2010, of the Indian National Science Academy since 2012, and of the National Academy of Sciences since 2017. Dr. Galande was an honorary associate faculty member at the University of Sydney, Australia, and a visiting faculty member at the University of Turku, Finland.



PROFESSOR ANANYA MUKHERJEE

Vice-Chancellor,
Shiv Nadar Institution of Eminence

Dr. Mukherjee obtained her PhD from the University of Southern California, USA, and her BA and MA degrees in Economics from Jadavpur University, India. Her scholarship focuses on international development and sustainable development goals. She has authored and edited several books and published in journals, reports, and popular media.

Dr. Mukherjee returned to India in 2022 after more than two decades in North America. She is a widely recognized academic leader, having served in top roles in two of Canada's largest universities. At York University, Dr. Mukherjee established the International Secretariat for Human Development (ISHD), an initiative dedicated to research for social change. Under her leadership, ISHD collaborated with institutions such as the International Labor Organization, the UN Office for Project Services, Rome, the UN Development Program, the UN Research Institute for Social Development (UNRISD), and others. Dr. Mukherjee's ongoing research examines the role of universities and the SDG framework. This project began in collaboration with UNRISD, Geneva. Its goal is to bring together authors from the Global South to engage collectively in a cross-national visioning about the role of universities for the betterment of society.



For any query, please write to:
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