# Prof. Kasturi Lal Chopra Memorial Distinguished Lecture Award 2023

The objective of the **Professor Kasturi Lal Chopra Endowment Fund** is to carry forward the legacy of Padma Shri Professor K. L. Chopra (July 1933- May 2021) to the benefit of the future generations in their pursuit of excellence in the broad areas of Thin Films/ Nano-Materials/ Quantum Materials towards design and realization of novel devices/applications that have potential to serve society at large. The Fund has been set-up to honor Prof. Kasturi Lal Chopra, the torch bearer of Thin Film Science and Technology Development activities in India as well as abroad and to continue his legacy that was initiated by him in August 1970 with establishment of the Thin Film Laboratory at IIT Delhi after his return from USA. Thus, the aim of the Fund is to promote Thin Film Science and Technology Activities in India through various awards to researchers and students working with passion and dedication for the benefit of the mankind by leveraging Thin Film Science & Technology.

The Professor K.L. Chopra Memorial Distinguished Lecture Award is one of the awards to be given to potential candidates judged outstanding, and their contributions in consonance with the vision, thoughts and teachings of Prof. K. L. Chopra that he inculcated in the 600+ alumni of Thin Film Laboratory over 50 years. The TFL alumni have constituted this fund at IIT Delhi. I, personally, happen to be one of his first batch of doctoral students joining him in August 1970. Thin Film Laboratory has been a great team-work under the exemplary leadership of our beloved "Guruji" resulting into innovations in research and an outstanding comradery among the doctoral & PG/UG degree project students, postdocs and technical manpower in scientific and one-grand-family arenas. In addition, forays into industrial technology development & support to Thin Film & Vacuum Technology industries from the very start of the TFL establishment resulted into many alumni to be entrepreneurs and technology developers around the world in diverse areas. During his 2-term tenure as Director IIT Kharagpur he established the Electronic Science Laboratory there and continued his scientific fervor and passion to train and mentor able and capable students to meet time-to-time emerging challenges in life.

The first-set of Distinguished Awardees are **Prof. Sushmee Bhadhulika** of I.I.T. Hyderabad and **Prof. Saurabh Lodha** of I.I.T. Bombay. They will be felicitated and distinguished lectures delivered by them on 31st July 2023 in hybrid mode at I.I.T. Delhi in the august presence of honoured invitees, guests, faculty, students and TFL alumni. This day also happens to be the 90th birth anniversary of the great scientist, teacher and human being, Late Prof. K. L. Chopra. ***The event will benefit with your esteemed presence in person, and the organizers look forward to your early confirmation of participation.***

Prof. Dinesh Pandya
For and on behalf of the KLC Endowment Fund, **Register for attending the event on 31st July 2023,**
**https://docs.google.com/forms/d/19DQiclPKDWMQdNtpf0rKoSzotuM3ax0iEJVE7rlK_hE/edit**

**Organisers**: Prof. Subhash C. Kashyap (Ex-IIT Delhi), Prof. Dinesh K. Pandya (Ex-IIT Delhi), Prof. Lalit K. Malhotra (Ex-IIT Delhi), Prof. S. S. Major (IIT Bombay), Prof. Bodh Raj Mehta (JP University Noida), Prof. Ayodhya Nath Tiwari (EMPA Switzerland), Prof. Viresh Dutta (IIT Delhi), Dr. Milind Acharya (Founder MILMAN Pune / IIT Delhi), Prof. Satyendra Kumar (Saurya EnerTech Gurugram / IIT Kanpur), Dr. Suman Mishra (Director, CGCRI Kolkata / IIT Kharagpur), Dr. Seema Vinayak(Director, SSPL New Delhi / IIT Delhi), Dr. Sharat Chandra (IGCAR Kalpakkam), Prof. Somnath Chand Roy (IIT Madras), Dr. Himanshu Fulara (IIT Roorkee), Dr. Ankit Kumar (IMEC Belgium), Prof. Sujeet Chaudhary (IIT Delhi), Prof. Vamsi Krishna (IIT Delhi), Dr. Trilok Singh (IIT Delhi, Convener, triloksingh@iitd.ac.in)

**Dr. Sushmee Badhulika**
Professor, Department of Electrical Engineering,
IIT Hyderabad

**Dr. Badhulika** has established Flexible Electronics and Nano Devices Laboratory to conduct research and development activities in the area of Advanced Multi-Functional Nanomaterials. She has 4 patents, 197 high impact journal publications with about 5500 citations (1500 in 2022), i10- index of 135, h-index of 40. Some of her recent works have been published in journals like - Nano Energy, Advanced Functional Materials, Materials Horizons, Chemical Engineering Journal, Biosensors and Bioelectronics, Applied Materials Today, Green Chemistry, Chemical Engineering Journal. More than 100 high quality publications since 2020 with her team of more than a dozen doctoral students and post-docs is a testimony of her prolific research activity in development of materials with nanoarchitectures for diverse applications such as in wearable nanoelectronics, Self-powered transparent flexible wearable nanogenerators for energy harvesting, skin inspired tactile sensing, electrochemical sensors/biosensors; and supercapacitors. Her work has been recognized with the Young engineer/scientist awards from all 4 National science and engineering Academies of India. She is part of an international group "The 2022 Roadmap of Women scientists & engineers in Applied Physics" in which her outreach & pioneering contributions in "Bioelectronics" have been recognized.

**Dr. Saurabh Lodha**
Professor, Department of Electrical Engineering,
IIT Bombay

**Dr. Saurabh Lodha** is an Institute Chair Professor at the Department of Electrical Engineering, Indian Institute of Technology (IIT) Bombay. He graduated from IIT Bombay in 1999 with a B. Tech (EE) followed by a Masters (ECE) and PhD (ECE) from Purdue University, USA, in 2001 and 2004 respectively. From 2005-2010 he worked at Intel Corporation in Portland, USA, on the research and development of 45, 32 and 22 nm Si CMOS technologies. He joined IIT Bombay in 2010 where he is also the Professor-in-charge of the IITB-OSU Frontier Research Center. His research interests span devices and materials in the areas of advanced CMOS technologies, 2D (opto) electronics and gallium oxide power electronics. He has been awarded the Swarna Jayanti fellowship (2017) and the Young Career Award (2020) by the Department of Science and Technology, Govt. of India. He has (co-) authored 88 peer-reviewed journal publications and 8 patents; his work has been cited more than 4500 times (h-index of 33 (Google Scholar)). He is a fellow of INAE, a senior member of IEEE and has supervised 15 PhD students and 7 Postdocs.

**July 31st 2023 | Time: 3:00-6:00 PM | Venue: LHC IIT Delhi**