



SCDT – FlexE Centre Webinar Series

The webinars aim to bring together researchers in Flexible Electronics and allied areas from across India (and other countries) on a single platform to promote professional interaction.

Webinar by



Prof. Satishchandra B. Ogale
Director, Research Institute for Sustainable Energy (RISE), Kolkata

On “**Designing New Materials and Methods for Devices on a Flexible Platform**”

Date: 10th August, 2021

Time: 7:30 PM to 8:30 PM

Visit www.iitk.ac.in/scdt/webinars.html to access the zoom link to join the webinar.

The event will be chaired by
Prof. Bhola Nath Pal
Indian Institute of Technology BHU

Abstract of the Webinar

The spectacular advances of materials science during the past few decades has led to several discoveries and innovations in the domain of functional engineering of new materials and their architectures for generating novel device functionalities. In particular, several rapid developments have taken place in organic and organic-inorganic hybrid materials, molecular materials, nanomaterials, and low-dimensional materials. Concurrently, there has been a significant drive towards designing of low cost, flexible, and lightweight (ultrathin, low-Z) device platforms for multiple application sectors such as wearable health-monitoring and biomedical devices, devices for space applications, transparent optoelectronics, solar cells, integrated sensors, mechatronics, energy harvesters, and spintronics. This emergent need is adequately catered to by the materials development stated above because the new classes of materials stated above are quite amenable to robust flexing applications. I will bring out this scenario by choosing several examples of own research on flexible photodetectors, Piezoelectric and triboelectric nanogenerators, flexible batteries and supercapacitors or pseudo-capacitors, dye sensitized solar cells on flexible substrates, and piezo-FET.

Information about the speaker

Prof. Satishchandra Ogale is the Director of Research Institute for Sustainable Energy (RISE), The Chatterjee Group's (TCG) Centres for Research and Education in Science and Technology (TCG-CREST), Kolkata. He is an Emeritus Professor at the Department of Physics and Centre for Energy Science, IISER, Pune. He has over 500 research publications in reputed International journals and nine granted US patents based on research done in India. He has edited and co-edited three books for Springer, Wiley and Elsevier. His Google Scholar h-Index is 81 with over 32000 citations. He has supervised over 65 Ph.D. students in India and the US. He is on the Editorial Advisory Boards of several high impact journals and has won several national awards/recognitions including INSA Young Scientist Medal, B. M. Birla Prize, Sir C. V. Raman prize, MRSI silver jubilee medal, Ramanujan Fellowship, Raja Ramanna Fellowship etc. With him as one of the leaders from the Indian side, the UK-India solar energy program was recognized with the International Newton Prize. He is also the elected fellow of the Indian Academy of Science, the National Academy of Sciences and Maharashtra Academy of Science.