



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. Baquer Mazhari

Department of Electrical Engineering,
Indian Institute of Technology Kanpur

On “**Analysis of Current Voltage
Characteristics of Single Layer devices**”

Date: 16th February, 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. Shree Prakash Tiwari from
IIT Jodhpur

Abstract of the Webinar

Two terminal devices with a single semiconductor layer sandwiched between two electrodes are routinely used to assess properties of semiconductors and metal-semiconductor contacts. Besides being useful test structures, these devices also serve as a backbone of light emitting diodes and photovoltaic cells. The steady-state current voltage characteristics are one of the simplest electrical measurements that are performed and can provide rich insights through use of analytical tools described in this talk. Techniques for extraction of built-in voltage, detection and analysis of traps and measurement of mobility are discussed.

Information about the speaker

Baquer Mazhari is a professor in the department of electrical engineering at IIT Kanpur. He joined the department in the year 1993 shortly after receiving his PhD degree from University of Illinois at Urbana Champaign. He received his masters from university of Maryland at college park and B.Tech in electronics from IIT Kharagpur in 1987. His research and teaching interests span different aspects of microelectronics including semiconductor devices and analog/digital circuits. Since the last two decades, he has been working on organic and flexible electronics and helped in establishment of Samtel Centre for Display Technologies in the year 2000 and the National Centre for Flexible Electronics at IIT Kanpur in the year 2014. His research group has proposed several new organic semiconductor devices and characterization tools and developed a new flexible thermometer and an anti-counterfeiting technology. For his contributions to the field of teaching, he has received distinguished teacher award, Gopal Das Bhandari Memorial award and excellence in teaching award by IIT Kanpur.