

Short course on “Flexible Electronics”
4th to 6th July, 2019

Brief Introduction to Presenters of Short Course

Ashutosh Tripathi is leading a group on flexible TFTs and circuits for various applications ranging from TFT arrays, e.g. backplanes for AMOLED displays, sensors arrays etc., to flexible circuits. Prior to joining FlexE Centre, Dr. Tripathi was with Holst Centre, The Netherlands where he was involved in development and technology transfer of high performance flexible TFT technology. He has broad research interest in the field of flexible as well as stretchable electronics, e.g. AMOLED displays, memory arrays, imager and wearable electronics.

Anshu Gaur obtained his PhD in Materials Science from University of Illinois at Urbana Champaign, USA in 2008. Following his PhD, he worked in Applied Materials Inc., USA on development of amorphous oxide TFT back plane technology. He Joined Materials Science department at IIT Kanpur in July 2012. His research interests are in the area of carbon nanomaterials, amorphous oxide semiconductors, thin film devices and flexible electronics.

Ashish Gupta obtained his Ph.D. in Chemistry from University of Allahabad in 2004. After working in Nagoya Institute of Technology, Japan, he moved to SCDT, IIT Kanpur in 2007. He worked for SCDT as a Research engineer from 2010 to 2015. Since 2015 he is working as Sr. Research engineer/Team Leader in Flexible electronic center at IIT Kanpur. His research interest is functional inks for printed and flexible electronic.

Biswanath Panda is currently Team Leader of System Integration Group at NCFlexE; IIT Kanpur. He has over 13 years of experience in the field of Embedded System and Robotics and Wearable Electronics.

Deepak obtained his B. Tech. degree in Metallurgical Engineering from the Indian Institute of Technology, Kanpur, in 1987. The graduate studies were completed in Materials Science and Engineering, with a M.S. in 1989 from the University of Florida, Gainesville, Florida (USA) and Ph.D. in 1993 from the University of California, Berkeley, California (USA). Following the graduate studies, he conducted a year-long Post-Doctoral work at the Argonne National Laboratory, Illinois (USA) and then another three years, beginning 1994, were spent in semiconductor device manufacturing and design at the Semiconductor Products Sector of Motorola Inc., Phoenix, Arizona (USA).

Devendra Maurya is currently working as Team Leader at the National Centre for Flexible Electronics, IIT Kanpur. He is leading the ‘Sensors Group’, which is developing flexible sensors for various applications. He has over 19 years of academic and industrial experience in the fields of microsensors, flexible printed sensors, MEMS, lab-on-chip devices and micro/nanofabrication. Before joining IIT Kanpur, he has worked at world-class universities, institutes and industries in Australia and Singapore. Devendra did his MS degree in Electronics Engineering from IIT Kharagpur. He has published over 39 peer-reviewed journal and conference papers with an h-index of 10. He is serving as an editorial board member, a guest editor, and as a reviewer for over 10 international journals.

Juliane Tripathi has a Ph.D. in Physical Chemistry from TU Dresden, Germany. After a post doc at the Leibniz Institute for Solid State and Materials Research Dresden, working on thin film electronics, she joined Holst Centre in the Netherlands as researcher in the field of Large Area Printing. Here she specialized on substrate-ink interaction and plasma treatment as well as R2R processing for printed electronics and yield control. At FlexE she is Team Leader for Printing & Coating and Printed Batteries.

Muralidharan Balakrishnan did his bachelors at NIT Trichy (2000) and masters at Technical University of Hamburg Harburg in Germany in Materials Science (2003). He did his PhD at University of Twente in Netherlands (2008) in the field of Electro-optical polymers which are used in the fabrication of electro-optical modulators used for electrical to optical signal conversion in optical communication. Later he also continued on with his Post Doc at Institute for Photonics Technologies in Germany working in the same field. Later he switched to industry and joined Novaled AG in Germany in 2009 and started working in the field of OLEDs. Later he took up a position as Project Leader at SEFAR AG in Switzerland in 2014 where he was involved in developing textile based flexible transparent conductive substrates for different optoelectronics applications including OLEDs.

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Since Aug 2016 he is leading OLED activities at NCFlexE where he is involved in the development of large area white OLEDs for lighting and flexible OLEDs for signage and packaging industry.

Monica Katiyar is professor of Materials Science and Engineering at IIT Kanpur and a Faculty Mentor in the National Centre for Flexible Electronics (NCFlex), at IIT Kanpur Prior to joining IIT, she has worked as senior device engineer at Motorola, Inc. Prof. Katiyar did her B.Tech. in Metallurgical Engineering from the Indian Institute of Technology, Kanpur in 1987. She completed her M.Eng. (1989) in Materials Science and Engineering from the McMaster University and Ph.D. (1994) from the University of Illinois at Urbana-Champaign. Her current research interests are in printable and flexible organic light emitting diodes and flexible batteries

Siddhartha Panda is professor of Chemical Engineering and Materials Science at IIT Kanpur. He is currently the Coordinator of Samtel Centre for Display Technologies and National Centre for Flexible Electronics established through a grant from Ministry of Electronics and Information Technology (MeitY) and support from IIT Kanpur. His research focuses on chemical sensors for healthcare applications and the accompanying transport, reactions, transductions and materials processing, utilizing silicon and flexible printable platforms. Prior to joining IIT Kanpur, he was a Staff/Advisory Engineer at the IBM Semiconductor R&D Center, New York, for over six years. He obtained a Ph.D. from the University of Houston in 1999, an M.S. from the University of Cincinnati in 1995 and a B.Tech. from IIT Kharagpur in 1992, all in Chemical Engineering.

Sudheer Kumar is the Chief Operating Officer of National Centre for Flexible Electronics established through a grant from Ministry of Electronics and Information Technology (MeitY) and support from IIT Kanpur. He was previously COO of Flisom AG, Switzerland (subsidiary of TATA Industries). He has more than 22 years Global Industrial Experience in SBU/Plant Operations, Strategic project conceptualization and execution, Technology development & transfer, technology commercialization-lab to fab, supply chain management, Product development & management, Business management in various industries mainly at Flisom AG, Switzerland, Tata Industries Ltd, Moser Baer Solar Ltd and Samtel Color limited. He holds Ph.D and MBA degrees.

S. Sundar Kumar Iyer is a faculty member in the department of electrical engineering at IIT Kanpur. His main area of research interest is organic solar cells. At the national centre for flexible electronics, he and the FlexPV team are involved in building solar cells and modules on flexible substrates that can be used for practical electronic systems.

Vipin Kumar is working as the Team Leader of Facilities at SCDT and NCFlexE, IIT Kanpur. He has over 20 years of experience in Plant Maintenance. Prior to joining the Centre, he has worked for organisations like Moser Baer Solar Limited, Samtel Color Limited, Hero Cycles Limited, GKB Rx Lens Pvt. Ltd. Vipin completed his engineering degree in Electronics from Madan Mohan Malviya Engg. College, Gorakhpur.

Yashowanta N. Mohapatra is a Professor of Physics, and a participating faculty in the Materials Science Programme, and a Faculty Mentor in the National Centre for Flexible Electronics (NCFlex), at SCDT, IIT Kanpur His research interest include semiconductors, electronic and photonic materials, OLED/PLED and Printable Electronics. He obtained a Ph.D. from the IISc., Bangalore in 1988, and M.Sc.(Int) from the BITs Pilani in 1982.