

Industry Relations-IEEE India Council & IEEE-CAS, Bangalore Chapter

Electronics Makers 2017



A Two-day Conference entitled **Electronics Makers 2017** was jointly organized by Industry Relations-IEEE India Council, Centre for Embedded Product Design, Centre for Electronics Design & Technology, NSIT, in Association with IEEE-CAS, Bangalore Chapter on July 1-2, 2017 at NSIT, New Delhi.

The conference was inaugurated by Prof. Ramgopal Rao, Director of IIT Delhi by lighting the electronic lamp which is a DIY project from TI-CEPD. Dr. C. P. Ravikumar welcomed the participants on behalf of IEEE and TI Center for Embedded Product Design (NSIT). The keynote talk by Dr. Ramgopal Rao was on the topic **Bridging Academic R&D with Product Innovation - a few case studies and a way forward**. His talk focused on nanotechnology and the efforts

by his research team to create products in the area of nanotechnology. The second speaker was Dr. Prabhat Ranjan, executive director of TIFAC-CORE (DST). His research team has developed custom wearables for persons with disabilities or persons who are victims of accidents, which help them to carry out simple functions like changing channels on a TV remote.

Two panel discussions were also arranged. "**From DIY to Make In India - A Leap of Faith**" was the topic of the first panel, which was moderated by Dr. C. P. Ravikumar, and participated by a number of young DIYers. The panelists consisted of Prof. Dhananjay Gadre, Ajit Singh, Anup Rajput, Sanjay Dixit and Nidhi Sharma who gave some valuable input and advice from their own experience as DIYers. The second panel titled **Project based Engineering Education for "Make in India"** was on education with A. Paventhan of ERNET, Bangalore among the panelists.



A hands-on workshop was conducted by Texas Instruments, India entitled **Microcontroller Learning Platform on a Shoestring Budget using MSP430 LunchBox** on July 1, 2017. On second day, July 2, 2017 another hands-on workshop on **Beaglebone and Linux - Open-Source Hardware and Software for DIY** by Texas Instruments, India, and a workshop on **VXWorks** conducted by CG CorEl, New Delhi.

More than 100 delegates attended the program and Demos and presentations of 15 selected projects were made. Certificates and prizes for the best three projects were awarded during the valedictory.

Indian-led team designs electronic-free data-storing fabric: A US-based team led by Indian researcher Shyam Gollakota has created fabrics that can store data, from security codes to identification tags, without using any on-board electronics. The data stored using magnetic properties of a conductive thread can be read using a magnetometer, existing in smartphones. The fabric retained its data even after machine washing, drying, and ironing at 160°C.

Apple has revealed that the 'tears of joy' emoji is the most popular emoji among English speakers in the United States. The red-coloured heart and 'loudly crying face' stand second and third on the list respectively.