

INNOVATION AND INCUBATION CENTRE, UPTTI, KANPUR

Proceedings of Seminar on “Innovation and product development in Textiles”

One day seminar cum exhibition was organized by Innovation and incubation centre (IIC) of UPTTI on November 21st, 2015 on “Innovation and product development in Textiles” to invite innovative ideas from UPTTI students. Chief Guest of function Eng. Rajeev Sikka Director, Central U P Gas Ltd Kanpur stated that innovation is a result of zeal and passion. He said that implementation of research ideas is a difficult task because most of the ideas become dead during various research stages. Only 3% research ideas translated to product development. Dr Anurag Srivastava, Additional Director, DMSRDE Kanpur delivered keynote address on Opportunities and scope of research in various fields of Textiles. He spoke on Indian Defense sector which has lot of opportunities for product development in textiles. It needs electronic embedded gadgets in soldier’s uniform. He motivated to students and faculty members to innovate new ideas and carry out research work in the field of flexible electronic textiles. Prof. Pramod Kumar, Associate Professor stressed on need of collaborative research activities with industry and research organization in his Presidential address.

Renowned entrepreneurs of Kanpur, Sri V P Gupta, MD Shatabdi Knitwear, Tarun Garg, MD, Tarun Textiles, Neeraj Sharma, Bee Kay Precitex, Kanpur, Sachin Dwivedi and Nitin Dwivedi, Manager Amar Jyoti Industries, Chetan Melpani, Jai Bharat Industries, Mrs Sujata Rajan Seth, MD Sujata Textiles and Ms Ana Meghalanese, Designer from Portugal have also attended the seminar and shared their views. Prof. Mahendra Uttam, Dr Alok Kumar, Smt Alka Ali, Gopal Dixit, Dr Neelu Kambo, J K Goutam, Mukesh Kumar Singh were also present in the seminar.

Mr Sudhansu Maurya, B Tech final year student presented an idea on Development of **wellness mattress** by using low voltage fan inside the mattress and got Ist prize, it was mentored by Dr M K Singh. This mattress will be powered by very low current requirement. This mattress will be suitable to patients to reduce the threat of bedsores. Mr Gaurav Chandel, student of 3rd year mentored by Prof. A K S Gangwar presented an idea to covert **weaving shade sound energy to electric energy** and achieved IInd prize. Miss Saumya Srivastava and Miss Tanya Maurya presented a theme of **Titivating Textiles** and awarded III prize. The idea was based on conductive yarns in which conductive continuous filament is surrounded by non conductive spun yarns. This type of cord yarn is able to reduce voltage loss during electricity flow through fabric. Piezoelectric Fabrics can be manufactured by using piezoelectric crystals inside the fabric. Piezoelectric fabric is able to produce current by pressure and this current can be utilized for various smart applications. The idea incubated under mentorship of Dr M K Singh, Associate Professor, Textile Technology and Prof I P Mishra Asst. Professor, Electrical Engineering. Mr Veerendra Kumar Pal, IIIrd student presented project on Piezo-electric shocks and its application which was mentored by Smt Alka Ali and Shiv Govind Prasad. Mr Shani Pathak of Final year has presented an idea to develop smart vests **for Engineers of Nuclear Submarine**. Miss Mitali

has presented a concept of **Conductive digital printing**. The expected applications are development of medical textiles for health monitoring and integration of various electronic gadgets in more smart fashion. Program was co-ordinated jointly by Dr Prashant and Dr Mukesh Kumar Singh.



Welcome address by Dr Prasant, Co-ordinator, IIC



Presentation by Dr M K Singh, Organizing Secretary



Mrs Sujata Rajan Seth sharing her views



Speakers, faculty members with students