

## NITRA – NISTI Jointly Hosts Seminar on Application of Composites in Textiles



A one-day seminar on **Application of Composites in Textiles** was jointly organized by **NITRA**, the premier textile research association in the country and **NISTI**, an international association promoting professionalism and providing global network for textile industry, on 2nd January 2015 at NITRA, Ghaziabad. Apart from **Dr. Arindam Basu**, Director General, NITRA, **Mr. Kuldeep Sharma**, Chairman, NISTI, **Mr. Abhijit Pal**, Officiating Director, NITRA, scientists and technical officers from NITRA, members of NISTI and a large no. of Textile Technology students from NITRA's academic wing NTC was present at the event. **Mr. Atul Guglani**, pioneer researcher, engineer, entrepreneur and Director, Mantex Technologies, Indonesia was the soul speaker on the occasion. In a series of 4-part presentation, Mr. Guglani very interestingly spoke about his company and about the incredible solutions it has rolled. The presentation was comprised of today's key issues such as Carbon Composites, Digital Density Disruptor, Visual Analysis of Yarn Quality vis-à-vis Capacitive Measurement of Faults, and Dyebath Recirculation. The audience listened to it with rapt attention and took part in a lively post-presentation interaction.

The major development has been the Ring Spinning Tubes made out carbon composites which are expected to bring revolution in the textile spinning industries by bringing unexpected & enormous benefits. The ring tubes are having quite less wt. (8 to 14 grams against standard tubes of 42 grams) and less wall thickness (0.5 to 0.8 mm against standard tubes of about 2.5 mm).

Tangible benefits are approx. 5% productivity gain, 5% content gain, 5% power gain and improvement in efficiency to the tune of 0.5%. Paybacks are expected in less than 9 months with estimated ROI of 133%.

Some case studies have already proved the results and some studies are still in pipelines. Not only this, Mantex has explored several other applications of carbon composites and are manufacturing dye tubes, doubling/assembly winding tubes/POY tubes & tyre cord tubes.