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NCL Innovations **IDEA Catalyst** Workshop Series: 2nd Workshop

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This workshop series focuses on exploring
technology development and commercialization
opportunities by connecting scientists/
technologists with people who understand market
and industry needs.
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Technology Development Opportunities in Banknote Security and Materials

by

Ms. Anuya Nisal
Scientist, NCL, Pune

On
Tuesday, 14 September 2010
2.30 – 4.00 pm

at
Board Room, Director's Wing (tentative)
National Chemical Laboratory
Pashan Road, Pune – 411008

Ms. Anuya Nisal



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Scientist, NCL, Pune

About the speaker

Ms. Anuya Nisal is a Scientist in the Polymer Science and Engineering department at National Chemical Laboratory, Pune. Her expertise includes development of novel polymer blends and composites (nano), their structure property relationships and micro-analytical characterization techniques. She has also been actively involved in information research and technology assessment projects. She is part of the project team working with Bharatiya Reserve Bank Note Mudran Private Limited (BRBNMPL) and Reserve Bank of India (RBI). The projects include a technical assessment of plastic banknotes and intellectual property landscaping for paper banknotes.

About the talk

The process of banknote manufacturing currently used for Indian currency can be broadly classified into two steps – a) the production of the security paper incorporating embedded security features and b) security printing and finishing of the banknote. Each of this process can be divided into smaller technology modules, which have interdependencies and interlinkages. The objective of this talk is to briefly introduce the process of banknote manufacturing and also give a bird's eye view of the technologies presently available.

However, there is a need to constantly upgrade and develop novel materials and technologies that will improve the security of banknote and thus prevent counterfeiting. Also, considering the present monopoly (or oligopoly) of suppliers in the market and the high premium that they demand, indigenous technology development will be inevitable going forward. The talk shall end by stating emerging technology needs and development opportunities. The talk shall be followed by an extended discussion and brainstorming session.