

Nanotechnology: Emerging Frontiers and Applications (NEFA2017)

A two-day National workshop on **Nanotechnology: Emerging Frontiers and Applications (NEFA2017)** took place over a two-day period (30-31, January 2017). One hundred and forty **(140) participants including 80 Students** participated in the workshop. Conveners of the workshops are Dr. Sanjay Kumar, Department of chemistry and Dr. Seema Dabas, Department of Physics. This workshop is coordinated by Dr. Vijay Sharma, Department of Physics. The Key resource persons were Prof. Ashok K Prasad (Department of Chemistry, University of Delhi), Prof. R. K. Sharma (Director, SSPL, DDRDO), Prof. Gurmeet Singh (Head, Department of Chemistry, University of Delhi), Prof. R. P. Tandon (Department of Physics & Astrophysics, University of Delhi), Prof. Vinay Gupta (Department of Physics & Astrophysics, University of Delhi), Prof. Devendra Mohan (G.J. University, Hisar, Haryana), Dr. J. S. B. S. Rawat (Scientist G, SSPL, Delhi), Prof. P. D. Sahare (Department of Physics & Astrophysics, University of Delhi), Dr. A. K. Mohapatra (Department of Physics & Astrophysics, University of Delhi), Prof. S. P. Singh (Scientist G, NPL, Delhi), Prof. A. K. Dinda (AIIMS), Dr. Sanjay Dhakate (Scientist G, NPL, Delhi), Prof. R. Nagarajan (Department of Chemistry, University of Delhi, Delhi), Prof. Pratik Kumar (Head, and Health Physics division from AIIMS),

The purpose of the “Workshop on Nanotechnology: emerging frontiers and applications (NEFA2017), was to review the current state of knowledge in the field of nanoscience and technology along with their novel applications and challenges. This workshop brought together leading. The workshop brought together more than 140 participants from health, physical and social sciences, humanities and ethics, industry, citizen’s groups and government. Collectively, they identified and prioritized key research gaps in nanotechnology, especially as they related to the ethical, legal, social, economic, environmental and health impacts and risks of nanotechnology, and the regulatory and governance mechanisms needed to address them.

This workshop was also intended to build greater linkages among participants and researchers from different disciplines and fields and help create greater mutual awareness of the potential positive outcomes of nanotechnology as well as the potential risks and needs. The future health of nanotechnology can only be secured if the science is advanced within the bounds of a multidisciplinary framework, supported by adequate tools and resources. Only through the concerted efforts of individuals in all disciplines that exert an influence over the present and future course of research will nanotechnology safely achieve its potential benefits for all of society



