



SARRT: AN OVERVIEW

School for Applications of Radioisotopes and Radiation Technology (SARRT) promotes utilization of Radioisotopes and Radiation Technology in the areas of industry, environment and healthcare, for societal benefits. The school facilitates utilization of radioisotopes & radiation technology for sterilization of medical products, food preservation, development of high yielding crop seeds, waste water treatment, advanced polymers, cancer treatment, disease diagnosis & therapy and other alike areas. Capacity building and skill development through training would facilitate percolation and commercial deployment of various applications.

The following departments would help SARRT realize its goals:

Radiation Technology Development Division:

It would focus on development & deployment of technologies related to waste water treatment, medical aids like wound healing hydrogel, dry sludge hygienization for manure, plant growth promoter, bio-degradable superabsorbent polymers etc. by using the gamma and EB processes.

Food Technology Division:

It would emphasize on the use of radiation technology for processing of food items like grains, spices, herbs onion, potato, mango & other commodities for control of sprouting, insect disinfestations & quarantine treatment. It will work towards improving food security & ensuring food safety.

Application of Isotope Division:

It would include demonstration and use of radiation & radioisotopes in industrial radiography and tomography. This shall help in troubleshooting and optimization of industrial processes and management of water resources.

<p>Gamma Irradiator</p>	<p>Faster wound healing hydrogel</p>
<p>Food Irradiation insect disinfection</p>	<p>Sludge hygienization by gamma radiation</p>

Radiation- Medicine and Radiopharmaceutical Division:

It would mainly focus on development and use of radiopharmaceuticals and

The mission of SARRT is to provide state of the art research, development, demonstration and training facilities for utilizing and promoting applications of radio-isotopes and radiation technologies at national and international level for societal benefits. Health care, industry, environment and agriculture are the major thrust areas where Radiation Technology and Radio Isotopes could be employed for betterment of standard of living of people. National and international efforts would facilitate to meet the objectives.

Dr. Lalit Varshney
Head SARRT, GCNEP

radio-labeled compounds as therapeutic and diagnostic agents in healthcare applications.

PROGRAMS CONDUCTED

1. National Training Program (NTP) on Radiation Processing of Food, for food and quarantine inspectors & quality control personnel. 11-15 February, 2013, Bahadurgarh, Haryana.



UPCOMING PROGRAMS IN 2015:

1. Application of Radioisotopes & Radiation Technology in Healthcare & Industries
2. Application of Radiation Technology in food preservation



PHYSICAL PROGRESS

Terrace Slab concreting completed for Block-A of Guest House; Pile cap works completed for SNSS building, column raising & plinth filling now in progress

Terrace slab concreting for Block-A of Guest House has been completed, at the residential site. Following this, the brick work is likely to commence soon.

For SNSS building, at Institutional Site, pile cap & tie beam works have been completed. Nearly 75% of plinth filling has also been done. Column raising works for the first floor level are now in progress. Works for lintel beam have also been initiated.



Column raising in progress for SNSS Building

ACTIVITIES DURING AUGUST 2015

Indo-US Joint Working Group (JWG) for GCNEP meets in Mumbai; Workshop organized on Advanced Techniques for Special Nuclear Material (SNM) Monitoring Techniques and Detection Architectures

The Third Meeting of Indo-US Joint Working Group (JWG) for GCNEP was held on August 05th-07th 2015, at Mumbai, Maharashtra. The US delegation was led by Honorable Anne Harrington, Deputy Administrator DOE/ NNSA, USA. The Indian side was headed by Dr. K. L. Ramakumar, Director RC&IG, Head NCPW DAE & Chairman Advisory Council- GCNEP.

The US delegation also visited JNPT Navi Mumbai and witnessed the demonstration of indigenously developed Radiation Portal Monitors installed by ECIL at the Port Complex.

An Indian delegation led by Shri L. R. Jangra (Head, Coordination Division, GCNEP) visited Rotterdam Port (Netherlands) & Pacific Northwest National Lab (PNNL) of DOE at Richland (USA) from 24th-28th August 2015, for a workshop under Technical Exchange on "Advanced Techniques for Special Nuclear Material (SNM) Monitoring Techniques and Detection Architectures".



US delegates on tour of Radiation Portal Monitors at JNPT, Navi Mumbai



Concluding the Third JWG Meeting, August 7th 2015, Mumbai



Indian delegates visiting Radiation Monitor Portal test station installation

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