



INDOSE-2016

Workshop on “Assessment of Internal Dose during Nuclear/Radiological Emergencies”

Global Centre for Nuclear Energy Partnership (GCNEP) and Health, Safety and Environment Group (HS&EG), BARC are organizing a workshop “INDOSE-2016” during **Nov. 17-19, 2016** at CT&CRS, BARC, Anushaktinagar, Mumbai.

The objective of this scientific gathering is to exchange technical information among the Indo-US experts in the field of internal dosimetry. The workshop provides an opportunity to gain knowledge about advancements in this field.

The workshop includes lectures from experts on applications and demonstrations of the technological advancements in this field. It also includes technical presentations, round-table discussions and technical visit to state-of-the-art Internal Dosimetry Laboratories at BARC Hospital. The workshop will provide an opportunity for discussing the on-going R&D activities, leading to develop collaborative projects in certain specified areas of mutual interest.

The scope of the workshop covers recent ICRP guidelines in the field of internal dosimetry,

advances in the field of direct and indirect contamination monitoring techniques, challenges posed by the nuclear and radiological emergencies, the present status of the monitoring programme in India as well as quality assurance requirements. Participants and experts would also discuss the existing modalities and guidelines of internal exposure assessment and administration of chelating and/or blocking substances, particularly for application in Nuclear and Radiological emergency situations arising out of accidents and routine operations and discuss on the need for revised or updated guidelines, if required.

The topics that will be covered in the workshop include:

- Internal contamination threats from Nuclear / Radiological emergencies
- Latest ICRP Guidelines on “Occupational Intake of Radionuclides”
- Developments of in-vivo monitoring systems for rapid assessment of internal contamination
- Application of physical and voxel phantoms for calibration of direct monitoring systems
- Quality assurance requirements and uncertainties in internal dose assessments
- Committed Dose Assessment protocol for Indian occupational workers
- Latest Dosimetric, biokinetic and wound model
- Rapid radio-analytical techniques for in-vitro measurements and de-corporation treatment

- Development of indigenous internal dose assessment software
- Application of Monte Carlo simulations for modeling of detectors and phantoms
- Intercomparison exercises
- In-vitro modeling of skin dose and monitoring of DCA following therapeutic irradiation
- Case studies of internal contamination with particular focus on ^3H , ^{137}Cs , ^{60}Co and Actinides

Organizing Committee

Chairman: Dr. Pradeepkumar K. S., Head, School of Radiological Safety Studies, GCNEP& Associate Director, HS&EG, BARC.

Convener: Dr. D.D. Rao, Head, Internal Dosimetry Section, Radiation Safety Systems Division, BARC. (ddrao@barc.gov.in)

Scientific Committee:

Dr. Pramilla D. Sawant

Ms. Minal Y. Nadar

Mr. H.K. Patni

Logistics committee:

Dr. I.S. Singh

Mr. Rajesh Sankhla

Mr. Lokpati Mishra

Meeting details:

<http://gcnep.gov.in/programs/programs.html>

Registration form

Name:

Designation:

Affiliation:

Address:

Email:

Phone:

Do you need accommodation?:

Yes No

Send this form to:

Dr. D. D. Rao
Convener, INDOSE-2016
Internal Dosimetry Section
Radiation Safety Systems Division
Bhabha Atomic Research Centre
Trombay, Mumbai, India-400085.
Tel. no.: 022-25598288
Email: ddrao@barc.gov.in