

Training program/Workshop on Applications of Radiation Technology for Industry

Program Convener:

Dr. Lalit Varshney

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> **Program Dates:** November 14-15, 2018

Last Date of Registration: October 31, 2018

Venue:

Global Centre for Nuclear Energy Partnership (GCNEP) Bahadurgarh, Haryana-124505

Organized by:

School on Application of Radioisotopes and Radiation Technologies (SARRT) Global Centre for Nuclear Energy Partnership Bahadurgarh, Haryana - 124505 **Global Centre for Nuclear** Energy Partnership (GCNEP), Department of Atomic Energy (DAE) is an international centre specifically built to foster international collaborations in the field of Nuclear applications. The centre started in 2010 and so far held many international and national programs. GCNEP is being developed to cater to capacity building, human resource development, education & training in the area of peaceful use of various radioisotopes and technologies radiation in addition to Development of enhanced nuclear safeguards, development of advanced, more proliferation resistant nuclear power reactors, training in Nuclear Security and Radiological Safety etc.

School for Applications of Radioisotopes and Radiation Technologies (SARRT) is sub- group of GCNEP which is engaged in research, development and 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, and development of high yielding crop seeds, waste water treatment, advanced polymers, cancer treatment, disease diagnosis & therapy, gamma scanning for industrial radiography and tomography, tracer techniques and other similar areas. Capacity building and skill development the training would facilitate through percolation and commercial deployment of various applications. The school under GCNEP has so far conducted many workshop/seminar/training programs in the area of peaceful use of nuclear sciences for industrialists, foreign officials, faculties, students. The school has also conducted may awareness program at village levels.

About the program:

The program envisages training/workshop for administrator/industrialist, officials from ONGC, municipal corporations, pollution control board, power plants, automobile industry and any medium size industry having engineering set ups, Ph.D students engaged in etc. The program will such activities comprise of lectures and demonstration by experienced faculty from BARCand other DAE units. The objective of the training program/workshop is to provide first-hand knowledge of the various aspects of radiation processing, radiotracers and radiography in industry.Participants will be familiarized with basic and practical aspects about the technology. The training would mainly focus on use and demonstration of various applications of radiation and radioisotopes for industrial diagnostic including gamma and radiometry; gamma X-ray based advanced radiography and tomography imaging as well as use of radiotracers for process-related troubleshooting and optimization. Radiotracer and gamma shield sources as diagnostic tools in control of plants/processes, production process optimization in the form of performance improvement either in throughput or in product quality. There are comprehensive ranges of applications where process tomography and radiography can deliver real benefits to the end user. Industrial applications such as sludge hygienisation, medical product sterilization, will be introduced. A plenary lecture on over view of Cancer diagnostics and treatment has been arranged.

Registration:

All participants have to fill the registration form and must reach to convener before the last date (**31/10/2018**). Participants from industries will be selected on the basis of his/her area of interest and final decision will be taken by the convener of the program. Maximum 20 participants will be chosen from the applicants as per the suitable end user from the industry/Institute.

Sort listed applicants will be informed through mail id well in advance. Participants will have to arrange transport on their own up to Bahadurgarh city and back.

Registration Fees:

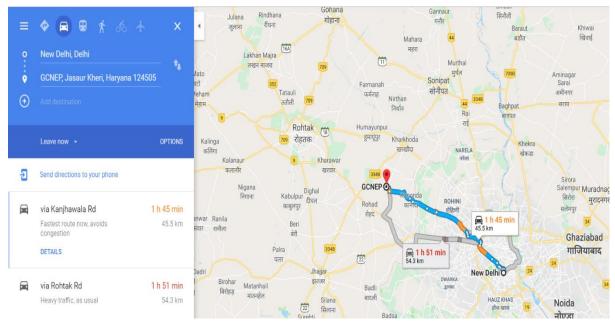
There will be no registration fee, boarding and lodging will be provided in GCNEP Guest House.

Note: Sort listed candidates have to confirm their participation for two days compulsorily

Location of the centre: GCNEP is located nearly at a distance of 55 Km from the national capital city of New Delhi. The site is approximately 7 Km from NH-10 and near to KMP Expressway. Bahadurgarh is well connected via road and Delhi Metro.

Reaching the centre:

- 1) Via Flight: Nearest airport to the centre is Indira Gandhi International Airport (T3) for international and domestic airport is T1D.
- a) From Airport you can avail taxi or
- b) Take Delhi Metro to Bahadurgarh City park Metro.



Maps for GCNEP

Registration form

for

Training program/Workshop on Applications of Radiation Technology for Industry

November 14-15, 2018

Venue: Global Centre for Nuclear Energy Partnership (GCNEP) Bahadurgarh, Haryana-124505

(Please use separate registration form for each participant)

Participant's Name :
Designation :
Organisation :
Area of Interest:
Mailing Address:
City :
Email :
Telephone Number:
OfficeResidenceMobileMobile

Last Date for the receipt of applications: 31st Oct. 2018

Date:

Signature of Applicant

Program Convener:

Dr. Lalit Varshney Head, SARRT, GCNEP Head, Radiation Technology Development Division Bhabha Atomic Research Centre, Mumbai-400085 Tel. +91-22-25593745/3274; Email: <u>lalitv@barc.gov.in</u>

सल्पेच उन्ते सल्पेच उन्ते भारत सरकार Government of India	"Training program/Workshop on Application Radiation Technology for Industry" 14-15 th Nov., 2018 GCNEP, Bahadurgarh, Haryana	ns of		
Day 1, Wednesday Nov. 14, 2018				
9930 - 1000	Registration			
1000 - 1030	Inauguration Function			
Welcome Add	ress: Project Director, GCNEP			
Opening Addr	ress: Dr. Lalit Varshney, Head, SARRT, GCNEP			
Vote of Thanks: Sh. V. K. Sinha, Head, GCNEP				
Group Photo				
1030 - 1100	High Tea			
	High Tea strial Radiation Processing	Dr. Lalit Varshney		
1100 - 1145 L1 - Indu		Dr. Lalit Varshney Mr. Rajesh Acharya		
1100 - 1145 L1 - Indu 1145 - 1215 L2a - Rad	strial Radiation Processing	· · ·		
1100 - 1145 L1 - Indu 1145 - 1215 L2a - Rac 1215- 1245 L2b- Rac	strial Radiation Processing diation Sources and Conventional RT Techniques	Mr. Rajesh Acharya		
1100 - 1145 L1 - Indu 1145 - 1215 L2a - Rac 1215- 1245 L2b- Rac	strial Radiation Processing diation Sources and Conventional RT Techniques diation Detectors and data processing in NDT	Mr. Rajesh Acharya Dr Umesh Kumar		
1100 - 1145 L1 - Indu 1145 - 1215 L2a - Rad 1215- 1245 L2b- Rad 1245 - 1315 L3a -Bas	strial Radiation Processing diation Sources and Conventional RT Techniques diation Detectors and data processing in NDT ic of Radiotracer Technology	Mr. Rajesh Acharya Dr Umesh Kumar		
 1100 - 1145 L1- Indu 1145 - 1215 L2a- Rad 1215- 1245 L2b- Rad 1245 - 1315 L3a-Bas 1315 - 1430 1430 - 1500 L3b Lea 	strial Radiation Processing diation Sources and Conventional RT Techniques diation Detectors and data processing in NDT ic of Radiotracer Technology Lunch	Mr. Rajesh Acharya Dr Umesh Kumar Dr. H. J. Pant		

1600 - 1630 L5 a	Flow rate measurement using radiotracer techniques	Dr. V.K. Sharma	
1630 - 1700	Теа		
1700 - 1730 L5 b	Radiotracers applications in oil fields	Dr. H. J. Pant	
1730 - 1800	Lab Visits		
Day 2, Thursday Nov. 15, 2018			
0930 - 1030 L6 P	lenary Talk: Overview of Recent developments and cancer care in India	Dr. Sharmila Banerjee	
1030 - 1130 L7 -	Residence time distribution measurement and analysis: Case studies	Dr. H. J. Pant	
1130 - 1200	Tea		
1200 – 1300 L8	CR, DR & CT for advanced NDT of specific industrial components and assemb	lies Dr. Umesh Kumar	
1300 - 1400	Lunch		
1400 – 1500 L9 S	ediment transport investigations	Dr. H. J. Pant	
1500 – 1600 Cond	cluding Session and Certificate Distribution		

