



S.P.B. Patel Engineering College
Saffrony Institute of Technology
Linch-Mehsana-384435



Department of Science & Technology
Government of Gujarat

Report of
National Seminar on
***“Applications of Radioisotopes and Radiation Technology in Agriculture,
Healthcare and Industries”***

Date:15-16 February, 2019

Jointly Organized By: S.P.B. Patel College of Engineering, Saffrony Institute of Technology & National Association for Applications of Radioisotopes and Radiation in Industry (NAARRI), Mumbai

In Association with : Board of Radiation & Isotope Technology (BRIT) , Navi Mumbai

Supported By : Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE) & Govt. of India Atomic Energy Regulation Board (AERB)

Sponsored By :- Gujarat Council on Science and Technology (GUJCOST)

S.P.B.Patel College of Engineering, Saffrony Institute of Technology, one of the leading technical institutes in North Gujarat is located near Mehsana, Gujarat.Saffrony's visionary management has been instrumental in elevating the college to its present status where it is increasingly being acknowledged beyond doubt, as an institution of academic excellence in all spheres.We aspire to develop analytical skills and innovative capabilities of students and faculty to conceptualize, research, design and offer sustainable solutions to address social, ecological, technological and professional challenges facing the world today.

Now a days, Gujarat has emerged as a hub of Gamma Radiation Processing Projects for agricultural, food and healthcare products in India. Four such facilities are set-up in Gujarat. Ahmedabad Municipal Corporation has taken a lead to set-up dry sewage sludge hygienisation project using radiation technology to inactivate the pathogens and make it safe for agricultural applications for the first time in our country.

The program “Isotopes and Radiation for Betterment of Mankind” was initiated more than 50 years ago, by Dr. Homi Jehangir Bhabha, the father of India’s Atomic energy program. India is today at the forefront in the area of isotope applications, with the indigenous radioisotope program continuing to grow with time. However, most of the people in the world associate radioisotopes and radiation with Atom Bombs which were dropped on Hiroshima and Nagasaki in World War



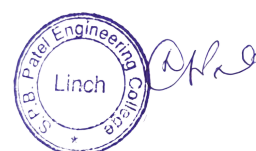
II. Fear of Radioactivity was further strengthened by accident at Chernobyl plant, Ukraine in 1986. These incidents have created fear and apprehensions in the minds of the people about radiation. Therefore, it is necessary to dispel the fears and apprehensions from the minds of the people about radiation and educate them on the beneficial use of radiation technology for improving the quality of life in human endeavors.

For that **S.P.B. Patel Engineering College (Saffrony Institute of Technology Campus)**, Mehsana had taken a lead in association with National Association for Applications of Radioisotopes and Radiation in Industry (NAARRI) to organize 2 days seminar on February 15th-16th, 2019 to spread awareness about the societal benefits of the application of radioisotopes and radiation technology for the first time in Gujarat.

The banner features the logos of S.P.B. Patel Engineering College and NAARRI. The central text reads: **SAFFRONY & NAARRI WELCOME YOU NATIONAL SEMINAR** on 'Applications of Radioisotopes and Radiation Technology in Agriculture, Healthcare and Industries' 15th-16th February, 2019. It lists the Board of Radiation & Isotope Technology (BRIT) as the association partner and several organizations like BRNS, Universal Medicap Ltd., and Dst as supporters. Contact information for S.P.B. Patel Engineering College is provided at the bottom.

OBJECTIVES OF THE SEMINAR :-

- Creating awareness on a safe and beneficial application of radiation & radioisotopes.
- To provide an interactive forum for a meaningful exchange of information between potential users of radioisotope and radiation technology with scientists and technology providers.
- To present recent research and development in the field of radioisotopes and radiation technology.
- To bring stakeholders from industry, agriculture, health care, academia & scientific research field on a common platform to share the knowledge.



Students and professors from science and technology institutes, agricultural universities, medical and para-medicals had been invited along with the professionals to attend. For that we as a team had worked very hard to get maximum number of participants from all the domains. To make this event a grant success we visited near by schools,colleges as well as industries persona to get more participants. We had used social media patforms such as our own developed event website (naarri.saffrony.ac.in) to get online registrations, our institute Facebook page, and we had also broadcasted promotional images through whatsapp.



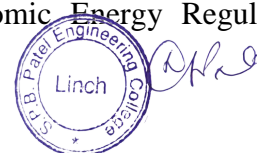
Finally total **722 participants** were registered online as well as offline for the seminar from more than **50 different institutes/organizations** including Saffrony Institute students. Out of them there were **87 faculty members** and **635 student participants**.

Sr. No.	Category	Number of Colleges	Participants
1	Science	34	375
2	Engineering	23	241
3	Agriculture	4	48
4	Forensic	1	58
	Total --->	62	722

Total **295 students** of Saffrony Institute had registered for volunteering for the two day seminar. The responses from surroundings schools, colleges were very overwhelming for this event but unfortunately we had to close our registrations to made it more effective and worthful. To overcome this situation and give benefits to all unregistered participants we had provided live telecast of whole event on YouTube (<https://www.youtube.com/watch?v=eISOG97zDL8>) from where we had received good responses and comments.

The online and offline registration process was officially started from 21st of January 2019. For the students, research scholars, teachers, professors, head of departments, principals (those who are involved in education field) the registration fee was kept Rs. 250/- each and for the industry people and others the registration fee was Rs. 1000/- each including Four High Teas and Two Lunches.

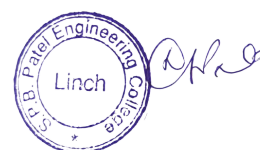
The seminar had included talks/presentations by eminent scientists from Bhabha Atomic Research Centre (BARC), Department of Atomic Energy (DAE), Atomic Energy Regulatory Board



(AERB), Board of Radiation and Isotope Technology (BRIT), entrepreneurs, leading doctors, agriculture scientists etc. The talks had also highlighted the significant contribution of radiation made in the field of industry, healthcare and agriculture.

List of Speakers for Day 1 & Day 2

Sr.	Speakers	Designation	Place
1	Dr. G. Ganesh	Chief Executive	BRIT, Navi Mumbai
2	Dr. S. Gautam	Head, FS&SS, FTD	BARC, Mumbai
3	Dr. S F D'Souza	Director BMG & Head NABTD, BARC	Mumbai
4	Dr. Lalit Varshney	Former Head, RTDD, BARC	Mumbai
5	Dr. K.S.S.Sharma	Former Head, IRAD, BARC	Mumbai
6	Dr. V.K.Sharma	IRAD, BARC	Mumbai
7	Dr. S. Chaturvedi	Director, IPR	Ahmedabad
8	Dr. S.K.Shrivastava	Director, Radiation, Apollo Hospital	Mumbai
9	Dr. Sharmila Banerjee	Head, RMC, Dy. C.E., BRIT	Mumbai
10	Dr. A. K Sahoo	BRIT	Mumbai
11	Avinash U. Sonawane	Head, DRA&C, AERB	Mumbai
12	Dr. A. K. Kohli	Former RRF, BARC	Mumbai
13	Dr.Piyush Shrivastava	SGM, BRIT	Mumbai
14	Dr. S.K. Malhotra	Raja Ramanna Fellow, DAE	Mumbai



Day 1 - 15-02-2019 (Friday)

Registrations & High Tea :-

It was started with the registration of all the participants where we had prepared different files for registration sheets for participants as per alphabetical order of their names and ID-cards with **QR codes**. The sequence of arrangement was such that on first two registration desks there were faculty participants, girl participants and boy participants who registered online. From desk 3 to desk 10 there were faculty participants, girls and then boys respectively who registered offline for the seminar. For Saffrony students (participants and volunteers) Desk - 11 to Desk – 13 were allocated. We had put one registration desk for guests near ‘Wall of fame’ towards notice boards area. For smooth execution of welcome and registration of participants we had utilized total 45 student volunteers.

Inaugurations :-

Timing	Person	Activity
11:00 - 11:05	Floral Welcome, Lighting of the Lamp & Prayer	
11:05 - 11:10	Shri Priyesh Dalal (Managing Trustee of Saffrony Institute)	Welcome speech by Shri Priyesh Dalal
11:10 - 11:15	Mr. P.J. Chandy (Secretary of NAARRI)	Introduction of the Program
11:25 - 11:30	Shri. A.K. Anand (President, NAARRI)	Inaugural Speech
11:35 - 11:40	Shri A.K. Anand	Unveiling of the Souvenir
11:40 - 11:45	Shri Sudhir Dave	Felicitation of Shri Jagdish Patel
11:45 - 11:50	Shri Sudhir Dave	Vote of Thanks

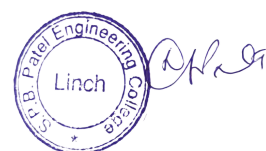
Session Details :-

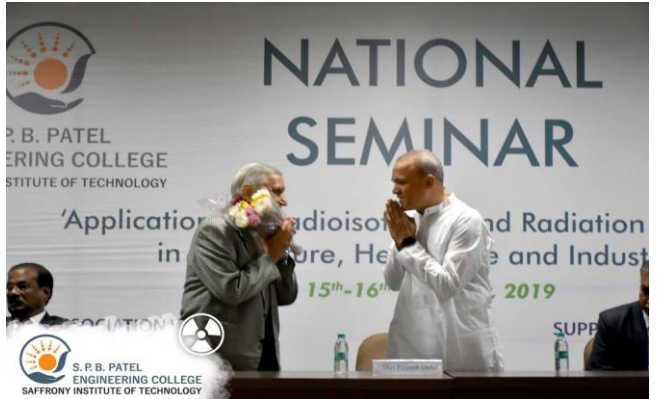
Sr.	Timings	Session Topics	Resource Person
1	10:00 to 10:45	Overview of Radioisotope and Radiation Technology Programme in India	Dr. G. Ganesh, Chief Executive, BRIT, Navi Mumbai
2	10:45 to 11:00	Q & A Session	
3	11:00 to 12:15	Inaugural Session	
4	12:15 to 12:45	Radiation Processing: A Proven Technology to Ensure Food Security & Safety	Dr. S. Gautam Head, FS&SS, FTD, Mumbai
5	12:45 to 01:15	Radiation Technology in Agriculture	Dr. S. D. Souza



			Former Associate Director, BMG & Head, NABTD, BARC, Mumbai
6	01:15 to 01:30	Q & A Session	
7	01:30 to 02:30	Lunch	
8	02:30 to 03:00	Dry Sludge hygienization using Radiation	Lalit Varshney, Former Head, RTDD, BARC, Mumbai
9	03:00 to 03:30	Radiological safety and regulations in applications of radiation sources	Avinash U. Sonawane, Head, DRA&C, AERB, Mumabi
10	03:30 to 04:00	Applications of radiotracers and sealed sources in industries for troubleshooting and process optimization	V.K. Sharma IRAD, BARC, Mumbai
11	04:00 to 04:15	Q & A Session	
12	04:15 to 05:00	Plasma Technologies for Societal Applications	Dr. S. Chaturvedi, Director, IPR, A'bad
13	05:00 to 05:10	Q & A Session	
14	05:10 to 05:30	High Tea	

GLIMPSES OF DAY 1





S. P. B. Patel Engineering College
Linch
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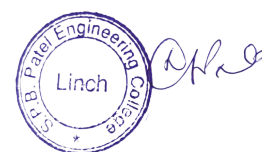


S. P. B. Patel Engineering College
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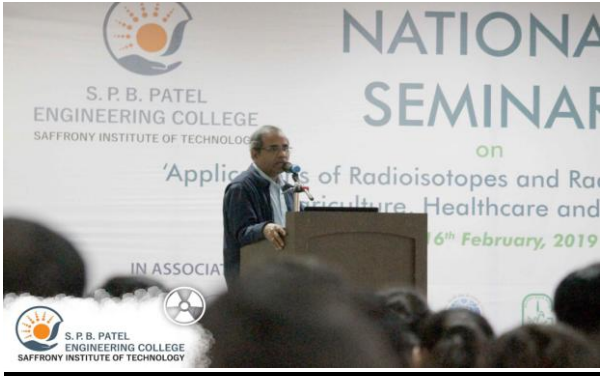
Day 2 - 16-02-2019 (Saturday)

Session Details :-

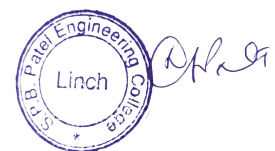
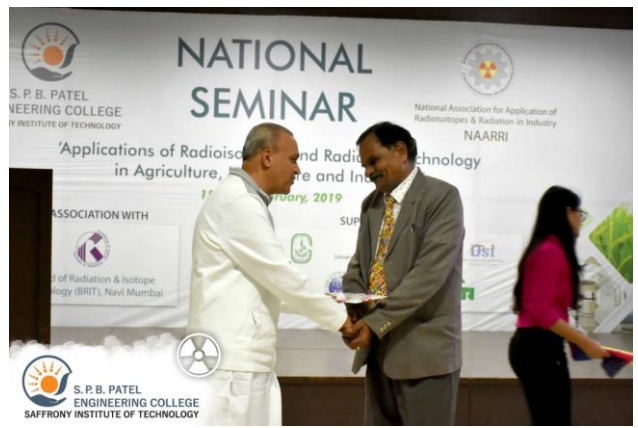
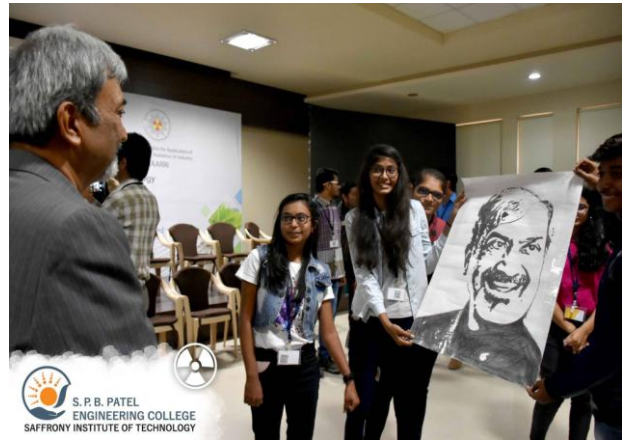
Sr.	Timings	Session Topics	Resource Person
1	09:30 to 10:15	Application of Radiation Technology in Healthcare: Cancer treatment	Dr. S.K. Shrivastava Director, Radiation Oncology, Apollo Hospitals, Navi Mumbai
2	10:15 to 10:45	Applications of Radioisotopes and Radiation in Human Healthcare	Dr. Sharmila Banerjee, Head, RMC, Mumbai & Adjunct Dy. C.E, BRIT. Mumbai
3	10:45 to 11:00	Q & A Session	
4	11:00 to 11:30	High Tea	
5	11:30 to 12:00	Electron Beam Technology for Industrial Applications	Dr K.S.S. Sarma, Former Head, IRAD, BARC, Mumbai
6	12:00 to 12:30	Impact of Security Issues on Radiation Facilities	Dr. A.K. Kohli, Former RRF, BARC, Mumbai
7	12:30 to 01:00	Q & A Session	
8	01:00 to 02:00	Lunch	
9	02:00 to 03:00	Safety & Security Aspects	Dr. D. K. Sahu
10	03:00 to 03:30	Public Perceptions about Atomic Energy - Myths vs Realities	Dr. S.K. Malhotra, Raja Ramanna Fellow, DAE & Secretary, AEES, Mumbai
11	03:30 to 04:00	Q & A Session	
12	04:00 to 04:15	Concluding Session	
13	04:15 to 05:15	High Tea & Certification Distribution	

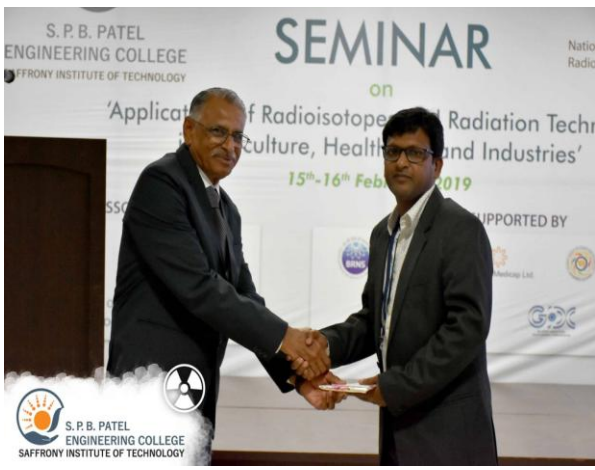


GLIMPSES OF DAY 2



S.P.B. Patel Engineering College
Linch
D.H. G.





S. P. B. Patel Engineering College
Linch

Feedback from our Eminent Speakers :-



“It was very fantastic experience here, Hospitality of saffrony will make me remember all the time”

Dr. S.K. Malhotra

Raja Ramanna Fellow, DAE

Mumbai



“Hospitality of you peoples is great”

Dr. A K Kohli

Former RRF, BARC

Mumbai

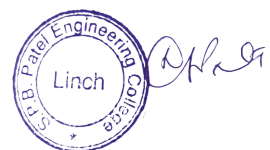


“I have visited many places for seminars, but you people has set an example of hospitality, good attitude of students which I haven’t seen anywhere”

Dr. Sharmila Banerjee

Head, RMC, Dy. C.E., BRIT

Mumbai



PATRONS

Shri K.N. Vyas, Chairman, AEC & Secretary, DAE, GOI
Shri S.A. Bhardwaj, Chairman, AERB, Mumbai
Shri Navin Sheth, Vice Chancellor, GTU, Ahmedabad

NATIONAL ORGANIZING COMMITTEE

Shri A.K. Anand, Former Director Reactor group, BARC & President NAARRI -
Chairman
Shri G. Ganesh, Chief Executive, BRIT - Co-Chairman
Shri Sudhir Dave, BOG Member- SIT - Convener
Shri P. J. Chandy, Secretary, NAARRI - Convener
Prof. Chitrlekha Nahar, Principal-SIT
Shri S.K. Malhotra, Raja Ramanna Fellow, DAE
Dr. Sharmila Banerjee, Head, RMC-Mumbai
Shri Vikram Kalia, MD, Microtrol
Shri Rajul Parikh, Director, EECI
Shri A.N. Shaji, MD, Metmech Radiography Inspection
Shri Shripal N. Desai, MD, Sandiam Inc.
Shri Dilip Takhbate, Director, Pulsecho Systems
Dr. Ashutosh Dash, Head, RPh. Division, BARC
Dr. A.U. Sonawane, Head, DRAC, AERB
Dr. Lalit Varshney, Head, RTDD, BARC
Shri Piyush Srivastava, SGM, BRIT
Shri S. Dutta, BRNS, BARC
Shri R. Ravishankar, Head, PAD, DAE

LOCAL ORGANIZING COMMITTEE

Shri Priyesh Dalal, Managing Trustee-SIT
Dr. L.N. Patel, Professor Emeritus-SIT, Ex. VC Ganpat University
Dr. Narshi Sherasia, Head of Civil Department-SIT
Shri Kantibhai Patel, Chairman-North Gujarat Co-Op Banks Federation & Director-
Gujarat Urban Co-Op Banks Federation
Dr. Gulab Bambhaniya, Professor-SIT
Dr. Vishnu Awasthi, Professor-SIT
Shri Deepak Dadia, BOG Member-SIT, Director - Pipefit Engineers Pvt. Ltd.
Shri Dipan Shah, Member of Advisory Board-SIT, Director-Pacific Companies
Shri Anand Pandya, Member of Advisory Board-SIT, Director-N



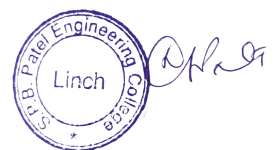
TECHNICAL COMMITTEE

Shri K.S.S. Sarma, former head IRAD, BARC - Chairman

Shri L.N. Bandi, General Manager, BRIT - Convener

Dr. Umeshkumar, IRAD, BARC

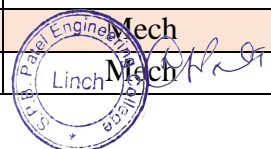
Shri Amit Sen, RSD, AERB



**Saffrony Institute of Technology
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National Seminar on Radiation Technology
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Committees

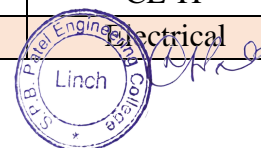
Name of Committee	Name of Faculty Member	Department
National Seminar Coordinators & Invitation Committee	Dr. Shailesh T. Patel	H&S
	Kamlesh Samadhiya	Auto
	Rahul Patel	Mech
	Tejas Patel	CE-IT
	Yogesh Kakadiya	EC
	Snehal Rajput	CE-IT
	Mehul Patel	Diploma
	Hardik Trivedi	Diploma
Hospitality & Public Relations (PR) Committee	Akshay R. Kansara	CE-IT
	Kunalsinh Kathia	Mech
	Jaimin Jani	CE-IT
	Sandip Chaudhary	Mech
	Ajay Gupta	Civil
	Krina Shah	H&S
	Ranjit Jadeja	Mech
	Harshitkumar Bhatt	Diploma
Anchoring, Student Volunteering, Stage & Decoration Committee	Karan Somaiya	Admin
	Dr. Vishnu Awasthi	Electrical
	Dr. Pooja Mehta	H&S
	Dipal Patel	EC
	Avani Dedhia	Civil
	Sagar Patel	Mech
	Ronit Danej	Electrical
	Parixit Pandya	H&S
Hall Management (AC, AV, etc Reviewing), Discipline & Decorum Committee	Gaurav Rade	Mech
	Ramprakash Inani	Diploma
	Jigar N. Patel	Mech
	Vaidant Dixit	Mech
	Rasik Patel	H&S
	Arpan Patel	Civil
	Krupal P. Mehta	Diploma
	Parth Tapodhan	Diploma
	Ajaykumar Kumbhar	Diploma
	Jagdish Patel	LA
Welcome & Registration Committee (Includes Reimbursement & Certificate Distributions)	Kena Patel	LA
	Malay Bhatt	Electrical
	Bhupendra Bhatt	Mech
	Tausif Shaikh	Mech
	Chandresh Patel	Mech



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S.P.B. Patel Engineering College
National Seminar on Radiation Technology
February 15, 16, 2019**

Committees

Welcome & Registration Committee (Includes Reimbursement & Certificate Distributions)	Manan Thakkar	CE-IT
	Tanvi Joshi	CE-IT
	Kanu Patel	Civil
	Balkrishna Patel	Admin
	Dipak Patel	Admin
Food/Catering Committee	Kanu Patel	EC
	Dharmendra P. Kandoi	Diploma
	Amrutbhai Patel	Diploma
	Sweety Patel	CE-IT
	Ravikumar Ranjan	Electrical
	Dhruval Patel	Diploma
	Mahesh Patel	Diploma
	Karan Somaiya	Admin
	Gitesh Gajjar	LA
	Vishal Suthar	LA
	Piyush Nayi	LA
Parking Management Committee	Sandip Patel	Admin
	Parth Panchal	Diploma
	Keyur Modi	Diploma
	Alpesh Prajapati	Admin
	Dipin Tapodhan	Admin
	Haresh J. Patel	Library
Logistics, Campus Upkeep, Sign Boards & Wind-up Committee	Maheshbhai Doshi	Campus Manager
	Mihirbhai Kansara	Admin
	Yagnesh Patel	CE-IT
	Balkrishna Patel	Admin
	Dipak Patel	Admin
	Dharmendrabhai Nayi	Maintenance
	Ajit Suthar	LA
IT Support & Audio-Visual (AV) Committee	Nilesh Patel	IT Support
	Maulik Patel	LA
	Dharmendrabhai Nayi	Maintenance
	Jayantibhai	Maintenance
Public Outreach & Media Committee	Rajat C. Mishra (Content creation & Creativity)	Civil
	Akshay R. Kansara (Dealing with Team & Public Outreach)	CE-IT
	Kunalsinh Kathia (Content creation & Creativity)	Mech
	Parimal Patel	CE-IT
	Ravindra Patel	CE-IT
	Ravikumar Ranjan	Electrical



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Committees

Public Outreach & Media Committee	Yuvarajsinh Parmar	Mech
	Karan Somaiya	Admin
	Mit Patel	Diploma
	Khyati Jethva	Media
	Hima Soni	CE-IT

