



teachers. On 21st Oct, 2020 a special programme on Plasma with emphasis on experiments was attended by 40 children of 8-12 years age group.

Vigilance Awareness Week 2020

As part of the activities of the Vigilance Awareness Week being observed at IPR from 27-Oct-2020 to 2nd Nov-2020, an "Integrity Pledge" was undertaken by the employees on 27th Nov, 2020, with Dr. Shashank Chaturvedi, Director and Dr. Anitha V P (CVO, IPR) leading the pledge. In view of COVID-19 pandemic related restrictions, the ceremony was conducted via video streaming, while only few officials were physically present. On 28th Nov, 2020, a webinar on "Synergy between Vigilance and Technology" by Shri Rajnish Kumar, Director (Digital Education), Ministry of Education, New Delhi, was organized. Participants from IPR joined the webinar through video conferencing as well as live video streaming.

Banners /posters based on the subject, "Satark Bharat, Samridh Bharat" ("Vigilant India, Prosperous India") were displayed at various locations at the main campus of IPR. An on-line quiz related to vigilance was also organized for IPR/FCIPT and ITER-India staff on 2nd Nov, 2020.

IPR Outreach Activities (November 2020 to January 2021)

On 4th Nov. 2020 a two hour webinar on Plasma and its Application was conducted at Shakti Higher Secondary School, Rajkot. Where 37 Students from class twelve and one Teacher participated.

A two day long four hour webinar on Plasma & its applications for BTech/MTech/MSc Students was conducted on 5-6th Nov. 2020 at L. D. College of Engineering, Ahmedabad and 73 Students & 1 Faculty participated the webinar.

In Sir P. T. Science College, Modasa & Trainers of Gujcost Recognized District Community Science Centre, Aravall a two day long four hour webinar on Plasma & its applications for BSc/MSc students & Science trainers carried out on 9-10th Nov. 2020 and 54 Students & 2 Faculty members attended the webinar.

On 11th Nov. 2020 a four hour long webinar on Plasma & its Applications for BSc / MSc Students was carried out at P. D. Patel Inst. of App. Sci., CHARUSAT, Anand. Where 70 Students and one Faculty participated the webinar.

A Two day long four hour webinar on "Plasma & its Applications for PGT Physics teachers" for PGT Physics Teachers from various schools of Bhavans Education Trust across Kerala was carried out on 19-20th Nov. 2020 and Thirty-three +2 science/physics teachers attended it.

On 3-4th Dec. 2020, a Two day long four hour webinar on "Plasma & its Applications" was conducted in Providence Women's College, Calicut, Kerala about 64 BSc/MSc Physics Students and 4 Teachers participated in the webinar.

In Unmesh Secondary & Higher Secondary School, Jabalpur a two hour webinar on "Plasma & its applications" was carried out on 14th Dec. 2020 and 28 students and 3 teachers attended.

On 15th Dec.2020 a four hour long webinar on "Plasma & its applications" was carried out at Government Science College, Jabalpur and 36 BSc/MSc Students and 2 Teachers attended the webinar.

A four hour long webinar on "Plasma & its applications for PG Students and science teachers" was carried out at Sir Syed College, Taliparamba, Kannur, Kerala for two days from 21st to 22nd Dec. 2020 and 64 BSc/MSc Students & 2 Teachers attended the webinar.

On 6th Jan 2021, a 2 hour webinar on Plasma & its applications was attended by 60 students from Adani Vidya Mandir, Ahmedabad. On 7-8th Jan, 2021 a 2 day, 4 hour webinar for 35 BSc physics (3rd year) students of M A M O College, Manassery, Calicut, Kerala was organized. On 11-12th Jan-2021, 66 BSc physics students from KKTm. Govt.College, Pullut, Kerala attended the webinar. On 13th Jan-2021 20 students of 12th standard from Amrita Vidyalayam, Ahmedabad attended the webinar on Plasma & its applications.

National Science Day-2021 @ IPR

The National Science Day (NSD) was celebrated at IPR during 8-12 February, 2021. Due to the Covid-19 pandemic,

all the programmes of NSD-2021 were conducted either as offline or online events. Competitions like essay and poster were conducted offline while those like eloquence, quiz and science models (for both teachers and students) were conducted online. The webinar facility of Outreach Division was used to conduct the online events. No. of participating schools were 51, No. of registered participants were 100, No. of events organized were 12, No. of prizes won were 52. In spite of the Covid-19 pandemic, there was good participation in the online events organized as part of the NSD-2021. Students who, by now, have had ample experience in on-line learning activities were found to be very comfortable participating in the online quiz, eloquence and science model competitions.

Teachers also took active part in the competition for educational models in science. The concluding ceremony was conducted online on 19-Feb-2021. Over 70 participants and teachers from various schools attended the event. Dr. P. K. Atrey, Dean R&D, IPR spoke to the participants and teachers. The prizes for the various competitions were also announced by him. The certificates were also distributed online to the winners of the various competitions. Following this, the participants shared their experiences and also gave their feedback on the NSD-2021.

National Science Day-2021 @ CPP-IPR

The National Science Day - 2021 was celebrated at CPP-IPR during the last week of February and first week of March, 2021. It was a week-long program where both online and offline competitions were held among the students of various schools of Sonapur and Guwahati. Due to Covid-19 pandemic, this year the competitions were held online which included essay, drawing, extempore speech and poster.

The competitions were conducted in three groups - Group A (classes 2-5), Group B (classes 6-8) and Group C (classes 9-11). However, drawing and extempore speech competitions were held among the students of Nazirakhat Primary School at their school premises offline (which is few blocks away from CPP-IPR), with the help of the teachers and following covid-19 protocol. These were conducted among the students in two groups of class 1-2 and class 3-5. An online concluding session was organized on 1st March, 2021. Prof. Jiban Jyoti Das of Cotton University, Guwahati, delivered a popular science talk. The names of the winners of various competitions were announced in the concluding session. The

prizes were later distributed to the respective schools that participated in the events.

Swachhata Pakhwada 2021

"Swachhata-Pakhwada" was observed at IPR and its campuses during 16-28 February, 2021 as a part of the "Swachh Bharat Mission" to promote cleanliness. As part of this drive, IPR staffs were motivated to clean their offices and laboratory spaces and clear away unwanted materials. All employees of IPR were effectively involved in mass cleaning activities during this fortnight. The activities carried out during of Swachhata Pakhwada -2021 were as follows:

- Ensuring general cleanliness of all the campuses of IPR
- Removal of all unwanted waste items collected from offices, laboratories and various open spaces of the institute campus. These items were segregated at one place for sorting and disposed them accordingly.
- Survey of several location of IPR campus waste collection disposal.
- Online Quiz (on 'Swachhata') and Eloquence (on the topic on 'Cleanliness is our responsibility' in Hindi/English/Gujarati) competition were organized for the Schools students in Ahmedabad-Gandhinagar districts.
- Poster, Slogan (Hindi/English/Gujarati) and Essay (Hindi/English/Gujarati) competition (for IPR staff and family) were organized for IPR staff and their families on the following topics:
 - o Clean and Healthy India: A collective responsibility for all Indians
 - o Role of Public sectors and Industries in clean India drive
 - o How to inculcate cleanliness awareness among school children
- A webinar on "Plasma Technologies for Waste Management" was organized in which Dr. S. K. Nema, Senior Scientist in IPR discussed about the plasma based technologies is used for the treatment and management of waste developed at IPR. Apart from the above activities, the Swachhata Pakhwada committee, based on the nominations received from IPR staff,