



AECS students visiting Light Exploratorium in Sukhniwas Palace, RRCAT.

Zonal Level English Debate: Rajshekhar Mahanty and Ramsha Riyasat Fatima of Class X took part in the Zonal Level English debate competition, which was held at AECS-2, Rawatbhata on 18th Nov., 2022. They won the first prize and took part in the National Level, which was held in January, 2023.

Inter AECS Badminton & Chess Tournament (Under 14 Boys & Girls): Shubham Chahar of Class IX, Aditya Tahanguriya, Abhiraj Dani, Ashutosh Kumar, Rashi Dhawan of Class VIII, S. Jobina of Class VII, Roshni Likhar and Jaisween Khanngwal of Class VI took part in the Badminton tournament held at AECS-2, Mumbai from 28th November to 4th December, 2022. Shubham Chahar won the third prize in Boys Individual Championship. Shubham Chahar and Rashi Dhawan won the Mixed Doubles Championship. The boys also won the Team Championship trophy. Ishnika Garge and Sachidanand Tiwari of Class VIII individually won the third prize in the Inter AECS Chess tournament.



Students and teachers of AECS receiving the school trophy for the Inter AECS Chess Tournament (Under 14 Boys & Girls).

Inter AECS Table Tennis Tournament (Under 14 Boys & Girls): Aditya Tahanguriya of Class VIII won the first prize in Boys Individual Championship. Aditya Tahanguriya and Samyak Saini of Class VIII won the first prize in Boys Doubles Championship. Aditya Tahanguriya, Samyak Saini and Piyush Sonawane of Class VIII and Shubham Chahar of Class IX won the first prize in Boys Team Championship. Kavya Jangir of Class IX won the third prize in Girls Individual Championship. Kavya Jangir of Class IX and Roshni Likhar of Class VI won the second prize in Girls Doubles Championship. Kavya Jangir of Class IX, S. Jobina of Class VII and Roshni Likhar & Bhavika Seervi of Class VI won the second prize in Girls Team Championship. Kavya Jangir of Class IX and Aditya Tahanguriya of Class VIII won the second prize in the Mixed Doubles Championship.



Participants of the Inter AECS Badminton & Chess Tournament (Under 14 Boys & Girls) with their trophies.

Aryabhata Ganit Challenge-2022: Second Stage of Āryabhata Ganit Challenge was conducted by CBSE on December 15, 2022 in online mode. M. Suresh, Prisha Mahawar and Rishi Kumar of class X were among the top 100 students from Bhopal Region.

*Reported by:
Chinmoy Basu (aecsprincipal@rrcat.gov.in)*

N.15: Public Outreach Activities as part of Azadi Ka Amrit Mahotsav at RRCAT

The Public Outreach Committee (POC) of RRCAT organizes different outreach events throughout the year. The events are organized primarily for the benefit of school and college students, teachers, social groups as well as for the general public. To achieve the desired objective of public outreach, various activities had been organized at RRCAT during July to December 2022 under the “Azadi Ka Amrit Mahotsav” initiative of the Government of India for celebrating and commemorating 75 years of independence. A brief summary of major activities organized are as given below:

Inauguration of “Light Exploratorium” at Sukhniwas Palace, RRCAT: As a public outreach endeavour to inspire the students

for research in the field of “Light Sciences”, RRCAT has developed a state-of-the-art museum named 'Light Exploratorium' to kindle the curiosity of the young minds. It has more than 40 exhibits, hands-on models and posters to demonstrate the multi-faceted behaviour of light, its properties and applications in everyday life as well as in modern day science.

The exploratorium spread over 630 square meter is developed inside the Sukhniwas Palace, built in the year 1893 by the Royal family of Indore, and is now a state heritage building, maintained by RRCAT, Indore under the supervision of the Directorate of Archaeology, Archives and Museum, Government of Madhya Pradesh.

Under Azadi ka Amrit Mahotsav “Light Exploratorium” was inaugurated by Padma Vibhushan Dr. Anil Kakodkar, Chancellor, HBNI & Former Chairman, Atomic Energy Commission & Secretary, Department of Atomic Energy, Government of India on Friday, 8th July, 2022.



Dr. Anil Kakodkar inaugurating the “Light Exploratorium” in Sukhniwas Palace, RRCAT by lighting a lamp.



Plaque at the “Light Exploratorium”.

As the words of blessings, Dr. Kakodkar expressed about the Light Exploratorium – “Wonderful to see Light Exploratorium becoming functional here at Sukhniwas Palace. Surely this convergence between heritage and modern science holds a lot of significance particularly for younger generation. I am sure this engagement between RRCAT and society around would enable continuously increasing congruence”

A Commemorative Event remembering Contribution of Dr. Homi Jehangir Bhabha in Nation Building: RRCAT in collaboration with Vigyan Bharati (VIBHA) organized “A Commemorative Event Remembering Contribution of Dr. Homi Jehangir Bhabha in Nation Building” on Friday, Nov. 4, 2022.



Evening view of “Light Exploratorium”.

This event was the main and the last event in the six-day celebrations from Oct. 30, 2022 to Nov. 4, 2022 at various institutes in Indore namely SGSITS, DAVV, Holkar Science College, The Emerald Heights International School and IIT Indore. Dr. Shekhar C. Mande, National President, VIBHA and former Director General, Council of Scientific and Industrial Research (CSIR) was the Chief Guest of the function. Padma Shri Dr. Shivram B. Bhoje, former Director, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Padm Shri Dr. D. D. Bhawalkar, former Director, RRCAT and Professor Renu Jain, Vice-Chancellor, DAVV, Indore were the Guests of Honour. Shri Rajesh Arya, RRCAT and Dr. Rajiv Dixit, DAVV were the Conveners and Dr. Santosh Vishwakarma, IIT, Indore and Shri Piyush Saxena, RRCAT were Organising Secretaries.



Dignitaries and RRCAT officials on dais, Dr. P. K. Verma, Shri Rajesh Arya, Dr. Shekhar C. Mande, Dr. S. B. Bhoje, Dr. S. V. Nakhe, Dr. D. D. Bhawalkar, Professor Renu Jain, and Dr. Rajiv Dixit (from left).

More than 500 students and teachers from various schools and colleges in and around Indore actively participated in the day-long event and various competitions were organized at RRCAT. A quiz competition for school students and poster competition for college students were organized. Prizes were awarded to 19 students for their performance in these competitions. An exhibition featuring life, accomplishments and contribution of Dr. Homi Jehangir Bhabha was also setup, along with more than 10 experimental demonstrations. The exhibition and experimental demonstrations were set up with an aim to stimulate young minds and enthuse them towards science and technology. In addition, live streaming of the talks delivered by dignitaries was also arranged on YouTube so that more students, teachers, RRCAT and DAE employees, their family members, and special invitees could take benefit of the program from their home, school, college or office. More than 750 visitors viewed the program on YouTube. Overall response of the school and college students was extremely enthusiastic as demonstrated by the number of queries they put in during the visit to the exhibition. Teachers and students expressed their happiness on getting an opportunity to learn about the various facets of Dr. Homi Jehangir Bhabha's personality and also important R & D activities being carried out at RRCAT.



Defence officers from FCE, MCTE, Mhow visiting RRCAT labs.

The public outreach events were organized by the Public Outreach Committee, RRCAT under the guidance of Dr. Shankar V. Nakhe, Director, RRCAT and supervision of Shri Rajesh Arya, Chairman and Dr. Shovan K. Majumder, Co-Chairman of the Public Outreach Committee of RRCAT. Successful organization of the above reported activities was possible due to wholehearted support of several agencies of RRCAT.

*Reported by:
Rajesh Arya (rajarya@rrcat.gov.in)*



College Students visiting Science Exhibition set up by RRCAT.

Visits of Defence Officers: Visit of 17 defence officers from Faculty of Communication Engineering (FCE), MCTE, Mhow and 15 army officers from Faculty of Decision Sciences, College of Defence Management (CDM), Secunderabad was arranged on 2nd November, 2022 and 12th December, 2022, respectively to give them an exposure to modern technologies and contemporary management practices being used by the organisation under public outreach activity.

During the visits, different activities were explained to the officers that included Indus-2, Infra-red free electron laser (IR-FEL), Linac, Reefer, Laser Biomedical Applications, Laser Additive Manufacturing (LAM) and material processing applications of Industrial Nd:YAG lasers. Live demonstrations were also given at some of the laboratories. Senior officials of RRCAT interacted with the army officers and addressed their scientific, technical and administrative queries.