India International Science Festival 2023 (13th December, 2023)

The India International Science Festival 2023 which is being organized from 17th to 20th January, 2024 at Faridabad featured variety of events including Women Scientists and Entrepreneurs Conclave, S & T Media and Communicators Conclave, New Age Technology Show, Young Scientist Conference, IISF Challenge and many more. CSIR – Central Building Research Institute Roorkee arranged a dynamic and engaging student-scientist interaction outreach activity on December 13, 2023. The event, which drew the enthusiastic participation of 143 students from prominent educational institutions such as Anand Swaroop Arya Saraswati Vidya Mandir Roorkee, Kendriya Vidyalaya 1 Roorkee, Mont Fort Roorkee, and CEOR Institute Roorkee, along with their teachers, proved to be an enriching experience for all involved.



The event was inaugurated by Shri S.K. Negi, Chief Scientist CBRI in his presidential he congratulated everyone on celebrating this festival. He further motivated students to actively participate in scientific activities and explore their curiosity in the field of science. Shri S.K. Negi highlighted the significance of fostering a scientific temperament among students and encouraged them to embrace innovation and critical thinking. He expressed his belief that events like these contribute to nurturing the next generation of scientists and researchers.



Following this Dr. R Dharmraju, Chief Scientist CBRI in a concise yet comprehensive introduction, shed light on CBRI's impactful skill development programs, underscoring the institute's commitment to nurturing scientific talent. Subsequently Dr. Chandan Swaroop Meena provided a detailed overview of the India International Science Festival 2023. He outlined the main objectives of the festival and highlighted the diverse array of activities scheduled for the IISF week, setting the stage for an exploration of science and technology in a vibrant and interactive manner.



The event unfolded in two enlightening sessions. The first session featured captivating lectures on various Ancient Indian Scientific Technologies. The second session provided students with the opportunity to visit the CBRI laboratories and interact with the scientific community of CBRI.

First lecture of the session was presented by Miss Gunjan Joshi, Project Associate Jigyasa CBRI wherein she discussed about the "Ancient Indian Metallurgy" she provided valuable insights to

students, sharing information about remarkable achievements such as the Iron pillar and Bronze bowl. This discussion illuminated the rich heritage of metallurgical advancements in ancient India, offering students a fascinating glimpse into the technological prowess of our ancestors.



"परिचय"



- Metallurgy (धातुकर्म) is the science and technology of extracting metals from ores and crafting them into usable objects.
- >In ancient India, metallurgy played a crucial role in shaping the society.
- ➤ Iron production revolutionized farming and infrastructure.
- >Had spiritual importance in religious practices.
- Metallurgy's legacy continues to influence modern metal industries in India.

The second lecture was delivered by Miss Shreya Negi Project Associate Jigyasa CBRI on "Water Management and Sanitation Systems of the Harappan civilization". In her presentation, she delived into various water storage and conservation technologies employed during the Indus Valley Civilization, shedding light on the sophisticated sanitation practices of that era.



स्वच्छता और जल निकासी प्रणाली

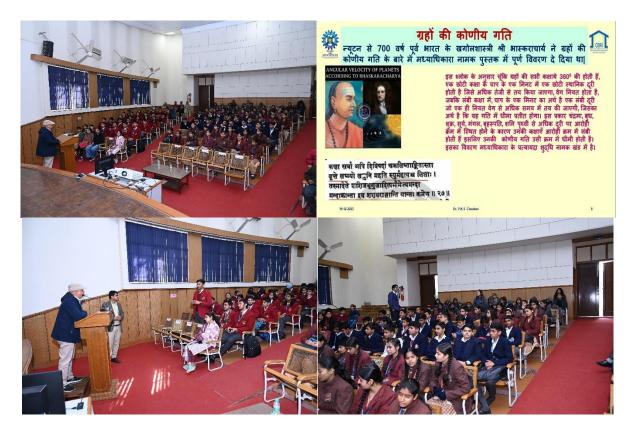
- The cities of Indus civilization were equipped with a well-planned network of sewerage systems through underground drains.
- A central sewer and drain network interconnected every house, ensuring the efficient disposal
 of various forms of waste.
- These sewers and drains were well-covered and connected to larger outlets, which carried waste away from the urban areas. This system was the world's first urban sanitation infrastructure.







Last lecture was presented by Dr. P.K.S Chauhan, Senior Principal Scientist & Jigyasa Nodal CBRI, on "India's Scientific Heritage". He explored various scientific concepts that were known to our ancestors, including Newton's laws, medical science, Pythagoras' theorem, and more. This informative session not only enriched students' knowledge about the advanced understanding of science in ancient times but also instilled a sense of connection with the intellectual heritage of our forebearers. All the lectures had Q&A session in which students & teachers actively participated with queries.



Following the lecture session, students had the opportunity to visit the CBRI laboratories including Rural Technology Park, Fire Laboratory and CBRI Exhibition Gallery, where they were exposed to demonstrations of various technologies developed by the institute. This interactive experience provided students with a practical understanding of scientific innovations and showcased their real-world applications. In the exhibition gallery latest technologies of CBRI were showcased. Dr. Chandan Swaroop Meena successfully coordinated the entire event. CSIR- CBRI scientist from different research areas Dr. Naval Kishore Banjara, Dr. Raj Kumar, Dr. Veena Chaudhary, Dr. Kishore Kulkarni, Dr. Humaira Athar, Dr. Rajeev Bansal, Er. Saksham Bharadwaj and Er. Abhinav Tyagi actively participated in the interactive session with the students during visit in the institute.





