

The following activities were organized under various programmes of DSIR from 13 December 2021 - 13 January 2022 under the aegis of Azadi Ka Amrit Mahotsav:

Date	Title	Organization
14th-15th and 21st December 2021	PCB printing training to the MSMEs and PCB prototyping (14th-15th and 21st December 2021)	DSIR-CRTDH-IIT Kharagpur
16-18 th December 2021	Covid screening programme with COVIRAP device and COVID-19 Screening app	DSIR-CRTDH-IIT Kharagpur
4, 5 and 6 th January 2022	Online medical camp and COVID-19 awareness programme at different eHealth cluster	DSIR-CRTDH-IIT Kharagpur
21 st December 2021	A workshop on Waste Utilization and Recycling through Science and Technology by Sai Institute of Rural Development (SIRD) Varanasi under DSIR-Technology Development and utilization Program for Women (TDUPW) funded project	SIRD, Varanasi under DSIR-TDUPW funded project
21 st & 22 nd December, 2021	Brain Storming conclave & Techno-fair on "Atmanirbhar North East through Science and Technology Interventions	NECTAR, Guwahati under DSIR-A2K+ Events program
27-29 th December 2021	VI International Conference on Sustainable Energy and Environmental Challenges (VI SEEC) by International Society for Energy, Environment and Sustainability (ISEES)	ISEES under DSIR-A2K+ Events program
10 th January, 2022	India International Science Festival (IISF) and outreach programmes-EHS (Manager-Life Sciences) Workshop on high end microscopy Workshop on Wet chemical synthesis of gold and silver nanoparticles	DSIR-CRTDH-CSIR-IITR



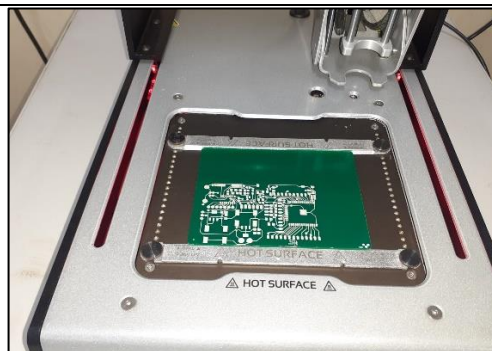
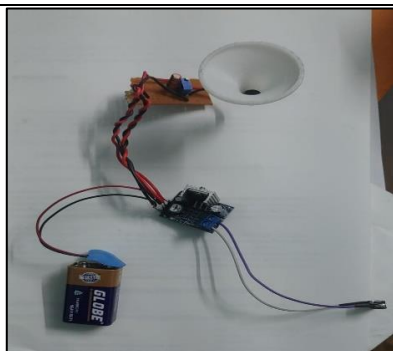
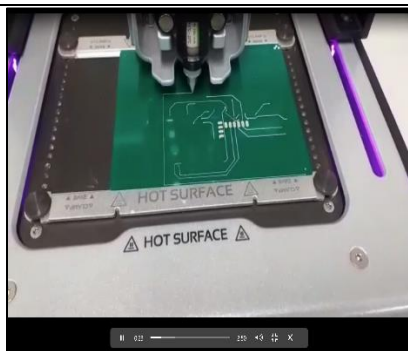
सत्यमेव जयते

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH



Events organized by DSIR-CRTDH-IIT Kharagpur

- A. PCB printing training to the MSMEs and device prototyping (14th- 15th and 21st December, 2021)
- B. Covid screening programme with COVIRAP device and COVID-19 Screening app (16th -18th December 2021)
- C. Online medical camp and COVID-19 awareness programme at different eHealth cluster (4th, 5th and 6th January 2022)



PCB printing training to the MSMEs and device prototyping in virtual and hands-on mode



Covid screening and detection programme



Online medical camp and covid training workshop conducted by doctors

December 2021

PCB printing training to the MSMEs and PCB prototyping (14th-15th and 21st December 2021)

DSIR-CRTDH team at IIT Kharagpur organised PCB Printing and prototyping workshop for MSMEs. Seven MSMEs took part in the organisation in both online and offline mode. They were trained to use PCB printers in CRTDH EDSM facility and to rapidly develop prototype for several devices.

Covid screening programme with COVIRAP device and COVIRAP-19 Screening app (16th - 18th December 2021)

DSIR-CRTDH team organised COVID-19 screening and detection program for incoming students at IIT Kharagpur using COVIRAP device and COVID-19 screening app developed at CRTDH lab. More than 500 students were screened and 60 students were tested for covid19 based on covid screening score. Several local and national media also covered the programme.

January 2022

Online medical camp and COVID-19 awareness programme at different eHealth cluster (4th, 5th and 6th January 2022)

To address the sudden surge of Covid19 cases, DSIR-CRTDH lab has organised several online consultation camp in collaboration with two incubates MSMEs at Sundarbans and Birbhum. The patients were seen using the 'Uday' software developed using DSIR-CRTDH facilities. Several training programmes were organised for the health worker to fight the pandemic.



A workshop on Waste Utilization and Recycling through Science and Technology organized by Sai Institute of Rural Development (SIRD), Varanasi under DSIR-TDUPW funded project



Department of Scientific and
Industrial Research
Ministry of Science & Technology
Govt of India



महिलाओं के लिए प्रौद्योगिकी विकास और उपयोग कार्यक्रम (टी.डी.यू.पी. डब्ल्यू.) के अर्न्तगत पारम्परिक कला एवं शिल्प के माध्यम से महिला सशक्तिकरण

कबाड़ से जुगाड़ कार्यक्रम

स्थल : रुरल वीमेन टेक्नोलॉजी पार्क, बसनी, वाराणसी

प्रायोजक - वैज्ञानिक एवं औद्योगिक अनुसंधान विभाग (डी.एस.आई.आर.)

विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार

आयोजक - साईं इंस्टिट्यूट ऑफ रुरल डेवलपमेंट, वाराणसी

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Sai Institute of Rural Development (SIRD) had organized one-day workshop on “**Waste Utilization through Science and Technology**”, held on 21st December, 2021 at Rural Development (RWTP) - Sai Institute of Rural Development, Banasi Varanasi with support of Department of Scientific and Industrial Research (DSIR) **under the Technology Development and Utilization Program for women (TDUPW) Ministry of Science & Technology, Govt. of India.**

The workshop was organized at Varanasi which is the constituency of our **Honourable Prime Minister Mr. Narendra Modi, while celebrating Azadi ka Amrit Mahotasav** to promote the talent and skills of rural women to establish the livelihood, under vision of **Hon’ble Prime Minister to convert waste to the best** while making city clean and giving maximum job opportunity to rural people. The workshop was inaugurated by Chief Guest DR. B. Sharma, Prof. Institute of Agriculture Science- Banaras Hindu University in the Department of Microbiology and Plant Pathology.

Around 75 participants attended the one-day event. Total of 5 stalls were there at the Waste Utilization lab. Total 5 sessions were organised during the workshop. The event was also featured with Q & N session where participant interacted with experts for seeking clarification on the subject

Prof. Sharma shared the requirement of Waste management in today’s society where increase in population, leads to higher generation of waste. Moreover, the increase in waste is affecting the lives of many people.

Waste management is the managing of waste by disposal and recycling of it. Moreover, waste management needs proper techniques keeping in mind the environmental situations. For instance, there are various methods and techniques by which the waste is disposed. Some of them are Landfills, Recycling, Composting, etc.

The workshop was facilitated by the Director SIRD Mr. Ajay Kumar Singh who is also the CEO of Sai Institute of Rural Development, he emphasized that through this type of workshop rural and sub-urban people will be made aware about the waste utilization and how it can be used as source of income.

He also informed participants about SIRD’s Chic CAD software project funded by DSIR under its TDUPW program, where rural women will learn the technique of making the quality designing to save the ancient art of Banarsi Saree and Zari Zardosi.



‘Brain Storming Conclave on Atmanirbhar North East through Science and Technology Intervention’ organized by NECTAR, Guwahati under A2K+ Events program of DSIR



BRAIN STORMING CONCLAVE ON ATMANIRBHAR NORTH EAST THROUGH SCIENCE AND TECHNOLOGY INTERVENTIONS



December 21st - 22nd, 2021
Cotton University, Guwahati, Assam



Organised By:
North East Centre for Technology Application & Reach (NECTAR)
An Autonomous Body under Department of Science & Technology (DST), Govt. of India.

SPONSORS



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NECTAR, Guwahati organized a two-day Brain Storming conclave & Techno-fair on “Atmanirbhar North East through Science and Technology Interventions”, during 21st & 22nd December, 2021 at Cotton University, Guwahati, Assam in collaboration with Vijnana Bharati, Unnat Bharat Abhiyan, and Cotton University. **The program was funded by DSIR under A2K+ Events program.** The conclave along with the Techno fair was inaugurated by Chief Guest Jagdish Mukhi, Hon’ble Governor of Assam, along with other dignitaries from Vijnana Bharati, Directors of CSIR labs, Managing Director of NRL, Unnat Bharat Abhiyan, Cotton University etc. Around 1000 participants, 45 dignitaries (both online/offline) attended the two-day event. Total of 55 stalls of CSIR labs, government organisations, institutions, private entrepreneurs, SHG’s with indigenous technologies were demonstrated/displayed in the Techno fair organized alongside Conclave. Total 12 technical sessions were organised during the conclave. The event was also featured with various competitions on Startup Ideations for North East Region, Ideation on addressing climate change in the Northeast, Heritage through the lens of science – competition for the NER and science and technology quiz by students also felicitation to reputed artisans of North-Eastern region. Special technical sessions on S&T innovations to provide livelihood opportunities in the Northeast- Technology solution on Bamboo & Allied Activities, Agro and Food Processing, Geospatial & Communication and mitigating flood and erosion risk in Assam was also organised. Products like Bamboo bat, Charei Taba based pottery item, air ionizer, bamboo based sanitaryware were launched during the event. At closure of day 1, cultural event performed by students of Cotton University, were also organised. The event brought all stakeholders (state govt. officials, research labs, academia, NGO’s, Self-help Groups, entrepreneurs, innovators, farmers, students etc.) in the same platform. During the valedictory session, prizes were distributed by dignitaries to the winners of various competitions like Startup Ideations, Heritage through the lens of science etc. and award-winning artisans were also felicitated during the session.



VI International Conference on Sustainable Energy and Environmental Challenges (VI SEEC) by ISEES, Lucknow under A2K+ Events program of DSIR



75 Azadi Ka Amrit Mahotsav International Society for Energy, Environment and Sustainability

Supported By **VI International Conference Sustainable Energy and Environmental Challenges (VI SEEC)** Supported By **NSERB**

Session 1A : Fuels for Sustainable Transport

Hybrid Mode
01:00 pm to 03:30 pm (IST), 27th December 2021

Moderators				Panelists			
NSUT, Jaipur	IIIT, Mandi	Central Institute of Technology	IIIT, Bhopal	SRM Institute of Science and Technology	IIIT, Raebareilly	TU, Viena	SRM Institute of Science and Technology, Lucknow

<https://www.isees.in/V%20SEEC/index.html>

75 Azadi Ka Amrit Mahotsav International Society for Energy, Environment and Sustainability

Supported By **VI International Conference Sustainable Energy and Environmental Challenges (VI SEEC)** Supported By **NSERB**

Session 4A : Future of IC Engine and Technology Roadmap

Hybrid Mode
01:45 pm to 04:15 pm (IST), 28th December 2021

Moderators				Panelists			
IIIT Hyderabad	IIIT Kharagpur	University of Cadix	Universitat Politècnica de València	KUST, Korea	IIIT Madras	IIIT Hyderabad	IIIT Bhopal

<https://www.isees.in/V%20SEEC/index.html>

The VI International Conference on Sustainable Energy and Environmental Challenges (VI SEEC) was **organized by ISEES** (International Society for Energy, Environment and Sustainability) **supported under A2K+ Events program of DSIR**. Conference aimed to promote research and outreach programs through scientific deliberations like plenary talks, panel discussions, and oral presentations. VI-SEEC brought together engineers, scientists, researchers, students, and other professionals to address and discuss emerging sustainable energy and environmental issues. It provided platforms for physicists, mathematicians, chemists, engineers, and biologists to discuss critical areas of energy and environmental sciences. Energy and Environmental science research should contribute to understanding the major problems in recent days arising due to extensive agriculture, industrial, municipal, transportation, urbanization activities, and the consequence of climate change in developing countries. The conference was aimed to promote high-quality research in the broad areas of energy and environmental sustainability. The VI-SEEC conference was partially financially supported by ISEES (International Society for Energy, Environment and Sustainability), SERB (Science and Engineering Research Board), and DSIR (Department of Scientific and Industrial Research).

This conference was organized in Hybrid-mode in Hotel Ramada, Lucknow via Physical and Virtual platforms from 27th – 29th December 2021. This conference was Chaired by Prof. Ashok Pandey and Prof. Avinash Kumar Agarwal. The conference convenors were Dr. Akhilendra Pratap Singh, Dr. Sunita Varjani, Mr. Dhananjay Kumar, Ms. Utkarsha Sonawane. This conference saw over 200 participants from India and abroad. VI-SEEC saw participation of over 100 national and international speakers, and around ~100 contributed papers. The event had 12 sessions planned for the conference based on different themes covering all aspects of energy, environment, and sustainability challenges. Each session was moderated by two session moderators and had six-seven panellist's each and eight-ten contributed papers.

The VI-SEEC started on 27th December 2021 noon with inaugural remarks by ISEES Chairperson Prof. Ashok Pandey; followed by 4 technical sessions. On 28th December 2021, conference sessions started with a plenary talk on 'Science & Scientists in the New Millennium: Challenges & Opportunities' by Prof. Ashutosh Sharma, Former DST Secretary, followed by four technical sessions and an award function in the evening, wherein Young Scientist Awards, best Ph.D. Thesis Awards, Best Master's Thesis Awards were conferred. New fellows of ISEES were also inducted into the society fellowship. Ten books published by Springer and an issue of JEES journal were also released in this award function. On 29th December 2021, four technical sessions were followed by the validity session, which included conference feedback, and conferring best paper awards. Closing remarks were given by the Conference Chair Prof. Avinash Kumar Agarwal.



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Events organized by DSIR-CRTDH-CSIR-IITR

- India International Science Festival (IISF) and outreach programmes
- EHS (Manager-Life Sciences)
- Workshop on high end microscopy
- Workshop on Wet chemical synthesis of gold and silver nanoparticles



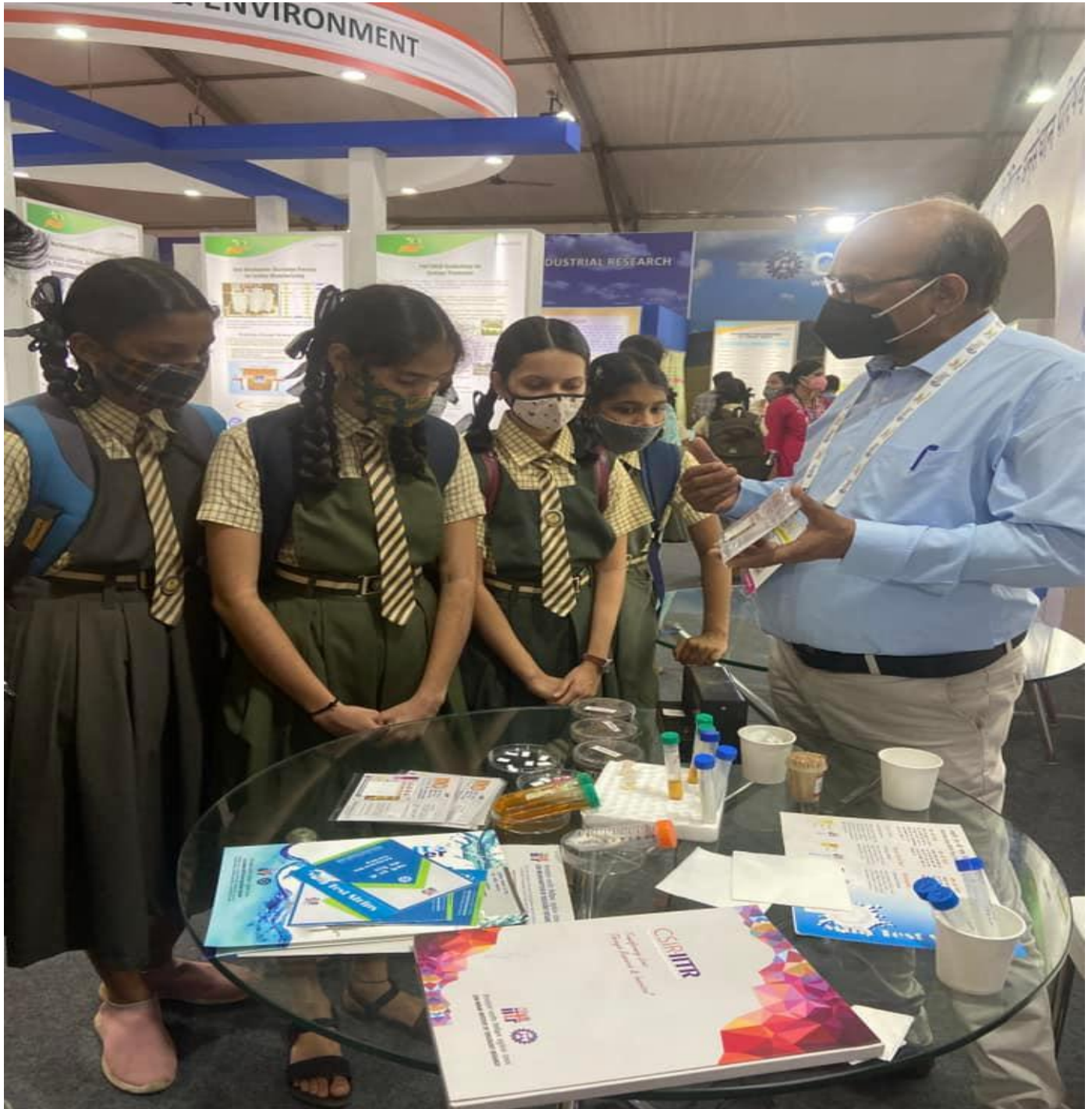


DSIR-CRTDH-CSIR-Indian Institute of Toxicology Research (CSIR-IITR) and CSIR-National Botanical Research Institute, Lucknow, India (CSIR-NBRI) in association with Vigyan Bharti jointly organized a Curtain Raiser and Outreach Programme at the CSIR-IITR campus on December 02, 2021, as a prelude to the forthcoming India International Science Festival-2021.



India International Science Festival, an initiative of the Ministry of Science, Technology & Research and Ministry of Earth Sciences Government of India.

DSIR-CRTDH-CSIR-IITR team members demonstrated various technologies developed by the DSIR-CRTDH facility at 7th edition of India International Science Festival (IISF) event held in the western Indian city of Panaji, Goa on December 10-13, 2021.





Training on EHS (Manager-Life Science) conducted from November 30 – December 17, 2021.



Workshop on high end microscopy (TEM/SEM) organized on December 13, 2021



Workshop on Wet chemical synthesis of gold and silver nanoparticles on December 15, 2021