

CSIR IN MEDIA



CSIR

NEWS BULLETIN

26 TO 30 SEPTEMBER 2022



The Minister addresses the first ever CSIR Leadership Meet attended by the Directors and Head of Departments of all the 37 CSIR labs across the country

CSIR

26th September, 2022



Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr Jitendra Singh, who is also the Vice President of CSIR (Council of Scientific & Industrial Research), today announced "One Week One Lab" theme-based campaign to showcase the technological breakthroughs and innovations in each of the 37 CSIR laboratories/institutes spread across the country.

Addressing the first-ever CSIR Leadership Meet attended by the Directors and Head of Departments of all the 37 CSIR labs across the country, Dr Jitendra Singh said, the legacy of CSIR is built on the cumulative contribution of its several national laboratories and institutes. He said, each laboratory of CSIR is unique and specialising in as diverse areas as genomics to geology, material technology to microbial technology and food to fuel.

The Minister also recalled how the laboratories came together during the COVID pandemic last year and developed several technologies that helped India's fight against COVID. The Minister said, the success stories of each lab must be brought to the fore of the country

through a massive mass media campaign. Dr Jitendra Singh said, CSIR breakthroughs in areas like Drone, Heliborne technology, state of the art Sewage cleaning machines, Aroma Mission has opened up huge opportunities for developing meaningful and equal stake partnership among Research, Academia and Industry. The Minister said, the state-of-the-art Heli-borne survey technology with cooperation from Jal Shakti Ministry was applied last year in States of Rajasthan, Gujarat, Punjab and Haryana and this could play an important role in positively contributing to Prime Minister Narendra Modi's Vision and Mission of "Har Ghar Nal Se Jal". Similarly, the mechanized sewage cleaning system developed by CSIR for wider dissemination will help in achieving the target of Swachh Bharat Mission, he added.

Under Prime Minister Narendra Modi's leadership, said the Minister who is also Vice President CSIR, that Science & Technology has got enhanced budget and a very special impetus in the last 8 years and the scientific pursuits and endeavours are now being assigned special importance. He said, the ultimate goal of all Scientific Innovations is to bring "Ease of Living" for the common man.

Dr Jitendra Singh called upon a pool of over 4,500 CSIR scientists to reorient and revitalise the organization to emerge as Global Centres of Innovations in the Amrit Kaal. He said, they must focus on emerging innovations in areas like Hydrogen in the energy transition, Carbon capture and storage, Accessible solar power, Plastic recycling and Cheap energy storage.

Dr Jitendra Singh said that there should be a Science Pavilion on the lines of DST and DBT at Pragati Maidan. He also urged the DG, CSIR to organize CSIR-Expos in various parts of the country to showcase its technological prowess to various states and industries, besides other stakeholders.

In conclusion, Dr Jitendra Singh asked CSIR and all the science departments to explore S&T innovations needed in the next ten years to make India globally a frontline state in technological achievements and innovations. The Minister said, "We should not restrict our ambition to be the best in India but be the best in the world as India is blessed with the

demographic dividend of youth and they can take up any challenge with the right training and motivation”.

DG, CSIR, Dr N. Kalaiselvi said in her welcome address that 21st century is going to be the century of India and for India. She said, Science and Technology fraternity must rise to the occasion and work hard to make India a respected name in the global arena.

CSIR will have a celebration of eight decades of its foundation soon with several commemorative activities and prizes to be announced.

Experts discuss role of hydrogen in making India carbon neutral

CSIR-NCL

30th September, 2022



Experts from academia and industry deliberated about the current status of hydrogen as a source of energy and the role it can play in making India carbon neutral at the International Platform on Hydrogen Economy - An Industry-Academia Conclave on September 30, 2022.

While inaugurating the Conclave, Dr. V K Saraswat, Member Science, NITI Aayog, said that with hydrogen demand increasing, companies are taking steps to increase hydrogen production as well as invest in technologies for it. As a result cost of hydrogen production is likely to come down in the future.

“Journey towards green hydrogen is through blue hydrogen accompanied with carbon capture & utilisation,” he pointed out.

Dr. Saraswat highlighted that we need to reduce the production cost of hydrogen and upscale production of electrolytes required for it, which are largely imported today. “Along with this, we need to clean up the grid, increase use of nuclear energy and produce cleaner fossil fuels for becoming carbon neutral,” he added.

Dr. S Chandrasekhar, Secretary, Department of Science and Technology (DST), urged the experts at the conference to work on a white paper to make hydrogen a real perfect future fuel. “India has planned to become carbon neutral by 2070. We need practical solutions to make this achievable and invest resources in the right direction to make that happen,” Dr. Chandrasekhar said.

The conclave was organised by the Department of Science and Technology (DST) to support academia-industry interaction in order to address the industry-informed challenges. It provided the member countries and coalition partners opportunities to show their leadership in significant demonstrations of future uses for hydrogen, which are very likely to be at the forefront of building future global hydrogen economies.

Dr. Akhilesh Gupta, Senior Adviser, DST, emphasised on an overall strategy to work on Hydrogen and on international collaborations to reach the target of carbon neutrality by 2070.

Dr. Ashish Lele, Director, CSIR-NCL, elaborated on the current status of hydrogen technologies in the country, while Mr. Noe Van Hulst, Special Advisor Hydrogen, IEA & Chair, IPHE, said that India has become an important player in the global enthusiasm on hydrogen and should look at potential collaborations with countries with hydrogen requirements in the future.

Hydrogen Valley Platform and DST- India Energy Storage Alliance (IESA) Industry Research & Development Fellowship Programme (IRDFP) 2022 were also launched during the conclave.

Dr. Anita Gupta, Head Technology Missions Division (Energy, Water & all Other) DST, and Dr. Ranjith Krisna Pai, Scientist, DST, also participated in the programme, which was attended by several academic and industry experts from the energy sector from India and abroad.

Hydrogen Valley Platform is a global initiative to optimize the hydrogen demand and supply by onsite generation and utilisation, to utilise the renewable resources effectively in water excess areas with geographical identity. The H₂ Valley's objectives will be achieved through cohorts of clean hydrogen valleys to combine complete hydrogen value chain (production, storage, and transportation) with the aim of reaching critical scale and unlocking learning curve effects. India has committed to facilitate the delivery of three clean hydrogen valleys in India by 2030.

Industry Research & Development Fellowship Programme (IRDFP) is jointly initiated by the Department of Science & Technology (DST) and the India Energy Storage Alliance (IESA). This fellowship programme will enhance the skills of the Fellows and will be of mutual benefit to both the industry and academic partners. Researchers placed into industry will have the opportunity to gain a working knowledge of relevant business drivers and will gain from industry's established contacts. The up-skilling and industry exposure provided to academic researchers will prepare them for a career in industry and maximise the impact of the training received by these researchers so far. For faculty researchers, it is expected that their Fellowship will help seed subsequent industry collaborations and shape the direction of their research going forward.

सीएसआईआर का हिस्सा बनना गर्व की बात : रंगराजन

केनविज टाइम्स संवाददाता

लखनऊ। सीएसआईआर केंद्रीय औषधि अनुसंधान संस्थान का 81वां सीएसआईआर स्थापना दिवस समारोह मनाया गया। निदेशक सीएसआईआर सीडीआरआई डॉ राधा रंगराजन ने कहा कि हमें सीएसआईआर का हिस्सा बनने पर गर्व महसूस हो रहा है। 1942 में स्थापित इस संगठन ने भारतीय विज्ञान और उद्योग के विकास और राष्ट्र निर्माण में महत्वपूर्ण योगदान दिया है। डॉ जीपी तलवार, निदेशक अनुसंधान, तलवार रिसर्च फाउंडेशन, नई दिल्ली मुख्य अतिथि के रूप में मौजूद रहे। डॉ तलवार ने उच्च उपयोगिता के उत्पाद विकसित करने के लिए मिशन उन्मुख अनुसंधान पर एक बहुत ही जानकारीपूर्ण व्याख्यान दिया। अपने सम्बोधन में उन्होंने इस बात पर जोर दिया कि उच्च उपयोगिता वाले उत्पादों को विकसित करने के लिए हमें एक मिशन उन्मुख अनुसंधान दृष्टिकोण की आवश्यकता है। मल्टी बेसिलरी लेप्रोसी के लिए विकसित इम्मूनो थेराप्यूटिक वैक्सीन के उदाहरण का उपयोग करते हुए, उन्होंने बताया कि कैसे यह एमआईपी तेजी से बैक्टीरियल क्लीयरेंस और रिकवरी टाइम को कम करके अपने उद्देश्य की पूर्ति कर

- सीएसआईआर का 81वां स्थापना दिवस समारोह
- हिंदी पखवाड़ा समारोह का भी हुआ समापन
- सीडीआरआई सहयोगियों के मेधावी बच्चों को किया सम्मानित

रहा है। कुष्ठ रोग अभी भी महत्वपूर्ण सामाजिक स्वास्थ्य चुनौतियों का प्रतिनिधित्व करता है। एमआईपी, लेप्रोसी के कारण बने भेदे एवं बदसूरत दागों एवं निशानों को भी शीघ्र ही सामान्य ताचा में परिवर्तित कर सकता है और एमआईपी टीकाकरण वाले रोगियों में लेप्रोसी का रिलैप्स रेट भी बहुत कम पाया गया है। सीएसआईआर सीडीआरआई में सीएसआईआर स्थापना दिवस 2022 समारोह के अवसर पर डॉ अतुल गोयल, डॉ दिव्या सिंह और उनकी टीम ने नोबेल ओरली एक्टिव फ्रैक्चर हीलिंग ड्रग कैंडिडेट -007-1500 लीड आइडेंटिफिकेशन से लेकर फेज-1 क्लिनिकल ट्रायल तक नामक प्रौद्योगिकी की खोज और विकास के लिए वर्ष 2022 के लिए प्रतिष्ठित डॉ मृदुला कम्बोज पुरस्कार प्राप्त किया। चीफ साइंटिस्ट और प्रोजेक्ट लीडर डॉ अतुल गोयल ने बताया कि दुनियाभर में बाजार में एफडीए द्वारा



अनुमोदित कोई दवा उपलब्ध नहीं है। टू-007-1500 के साथ हमारे पूर्व नैदानिक अध्ययनों ने अस्थि की अच्छी ताकत के साथ फ्रैक्चर साइट पर 40-50 प्रतिशत अधिक शीघ्रता के साथ अस्थि का पुनर्जनन दिखाया है। सीडीआरआई को सीडीएससीओ से चरण नैदानिक परीक्षण अनुमोदन प्राप्त हुआ है और एस-007-1500 की तकनीक को संस्थान द्वारा ट्रोइका फार्मास्यूटिकल्स लिमिटेड अहमदाबाद को अगले वर्ष की शुरुआत में केजीएमयू लखनऊ में चरण नैदानिक परीक्षण आयोजित करने के लिए

सफलतापूर्वक स्थानांतरित कर दिया गया है। सीडीआरआई के सहकर्मी जो पिछले वर्ष सेवानिवृत्त हो चुके हैं और जिन्होंने सीएसआईआर में 25 वर्ष की सेवा पूरी कर ली है उन्हें सम्मानित किया गया। इसके अलावा सीडीआरआई सहयोगियों के मेधावी बच्चों को, जिन्होंने हाई स्कूल और इंटरमीडिएट में विज्ञान विषय में 90 प्रतिशत से अधिक हासिल किया है, को उत्कृष्ट शैक्षणिक प्रदर्शन के लिए नकद पुरस्कार और प्रमाण पत्र भी मिला। अकादमिक उत्कृष्टता के लिए मधुस्साही पांडा और

अनंत गौनियाल को एक विज्ञान विषय में 100 प्रतिशत अंक एवं कुल 90 प्रतिशत से अधिक अंक प्राप्त करने के लिए रुपये 5000 रुपये का नकद पुरस्कार तथा इशानी शर्मा और प्रांजल द्विवेदी को 12वीं कक्षा में 90 प्रतिशत से अधिक अंक प्राप्त करने रुपये 3000 रुपये नकद पुरस्कार प्रदान किया गया। सीएसआईआर सीडीआरआई कर्मचारी एवं हिंदी पखवाड़ा के दौरान आयोजित प्रतियोगिताओं के विजेताओं को सम्मानित किया गया। वहीं हिंदी पखवाड़ा समारोह का भी समापन हुआ।

CSIR-NIScPR celebrates 81st Foundation Day of CSIR

CSIR-NIScPR

29th September, 2022



Council of Scientific & Industrial Research (CSIR) was set up on 26 September 1942. This year, this one of the largest R&D organisations of India is celebrating its 81st Foundation Day. 37 laboratories spread across the country, celebrate this special day at their own place. Delhi based CSIR laboratory the National Institute of Science Communication & Policy Research (NIScPR) celebrated 81st Foundation Day on 27th September 2022 at the National Agricultural Science Complex (NASc), Todapur, New Delhi.

Before the main function of the Foundation Day, CSIR-NIScPR organized an Open Day Program at Vivekanand Hall, NIScPR, Pusa Campus, New Delhi during 11 am to 12 noon on 27 Sept. 2022. On this occasion, 130 school students visited NIScPR and various institute facilities. NIScPR Director, Prof. Ranjana Aggarwal addressed the students and motivated them for a bright future ahead. During the Student-Scientist Connect Session of the Open Day, a special lecture was delivered by Dr. G. Mahesh, Chief Scientist, CSIR-NIScPR. Dr. M. Rais, Chief Scientist, CSIR-NIScPR and Chief Coordinator of CSIR's 81st Foundation Day Celebration at NIScPR and Shri C.B. Singh, Sr. Principal Scientist and Coordinator of JIGYASA, NIScPR also shared their thoughts with the students.

During the open day, exhibition of NIScPR publications, Ayur Vatika and RHMD visit were other special attractions for the visiting students. Special issue of NIScPR's monthly popular science Hindi magazine Vigyan Pragati focused on the Indian organizations engaged in science popularization were also distributed among the students.

On 27 Sept. 2022, CSIR-National Institute of Science Communication and policy Research celebrated 81st Foundation Day at NASC, New Delhi. Distinguished guests Prof. Virendra K. Vijay, IREDA Chair Professor, CRDT, IIT Delhi & National Coordinator, Unnat Bharat Abhiyan (UBA) and Dr. Ashok Jain, former Director, CSIR-NISTADS graced the occasion. During the Foundation Day celebration, a book of CSIR-NIScPR focused on the formats of science communication literature was also released. This book is the outcome of a workshop organized by the Studies in Science Communication Division of CSIR-NIScPR aimed at science communication in the regional languages of India. Authors of this book have discussed prominent formats like science fiction, poetry, puppet, science blog, etc. Delhi based four authors Dr. Madhu Pant (former Director, National Bal Bhawan), Shri Raghuvar Dutt Rikhari (former Editor-Invention Intelligence & Awishkar), Dr. Manish Mohan Gore (Scientist, CSIR-NIScPR & Editor, Vigyan Pragati) and Ms. Shubhada Kapil (Assistant Editor, Vigyan Pragati) joined the book release moment.

During the Foundation Day Function, Distinguished Guests distributed the Awards to retirees, 25 Years' service completion and 10th & 12th class brilliant wards of NIScPR staff. Cultural programs on various themes were performed by the staff members of NIScPR. Dr. Mohammad Rais, Chief Scientist, CSIR-NIScPR proposed vote of thanks.

Joint Secretary of CSIR visits CSIR-NIScPR

CSIR-National Institute of Science Communication & Policy Research (NIScPR), New Delhi organized the culmination program of Hindi Month. Joint Secretary of CSIR, Shri Mahendra Kumar Gupta visited NIScPR and joined this program on 28 September 2022. Shri Gupta visited the herbarium, popular science division, IT division and printing unit of NIScPR and interacted with the scientists of the concerned divisions.

In the Hindi ceremony, Prof. Ranjana Aggarwal formally welcomed to Shri Gupta with potted plant, memento and a set of institute's publications. In her welcome address, Prof. Aggarwal said that NIScPR has contributed enormously towards science and society interface through Hindi language. She said that Vigyan Pragati magazine has recently won the prestigious National Award 'Kirti Puraskar' of the Official Language Department, Ministry of Home Affairs, Govt. of India which indicates that NIScPR is doing good work in Hindi language. Original Hindi research Journal namely 'Bharatiya Vaigyanik evam Audyogik Anusandhan Patrika' has been published by NIScPR since 1993. She added that SVASTIK is a flagship program of the Institute through which scientifically validated traditional knowledge is shared in Hindi and other regional languages of the country. She assured to JS that CSIR-NIScPR will keep on doing all the mandated activities of science communication and policy studies & research in Hindi.

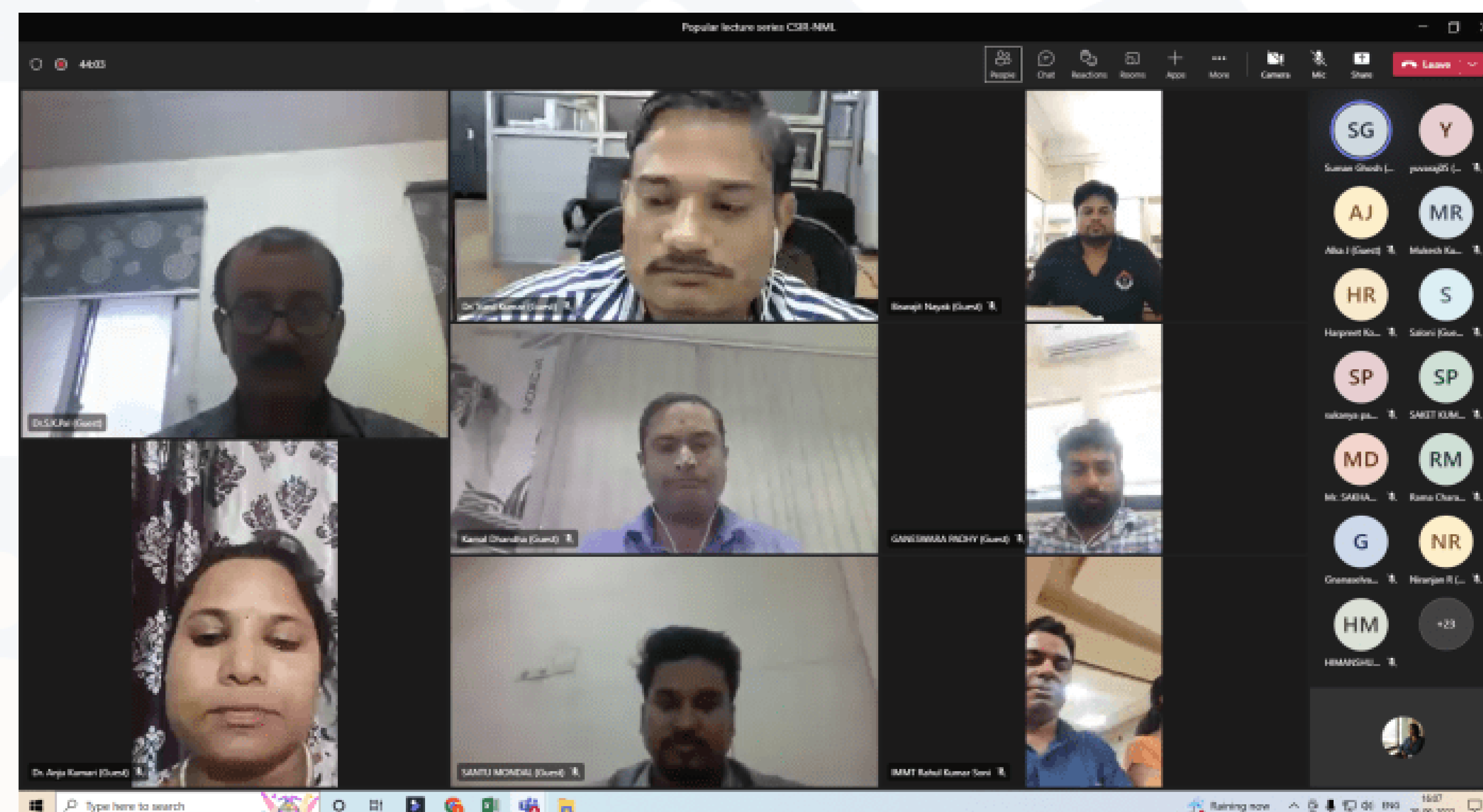
On the occasion, Joint Secretary of CSIR Shri Mahendra Kumar Gupta said that he was an avid reader of 'Vigyan Pragati' in his childhood and he used to discuss the scientific content published in the magazine with his class-fellows. He also disclosed that NIScPR's science magazine 'Vigyan Pragati' has played a key role in developing interest in his science study. Shri Gupta added that CSIR-NIScPR is doing great job in its core fields of science policy and science communication. He distributed prizes to all the winners in various competitions organized during Hindi Month by CSIR-NIScPR.

CSIR-NML Jamshedpur organises lecture on 'Basics of Computational Material Science'

CSIR-NML

29th September, 2022

CSIR-National Metallurgical Laboratory (NML), Jamshedpur organised lecture on "Basics of Computational Material Science" on September 29 on a virtual platform. This program was organized for school students and teachers under CSIR-Jigyasa Virtual Laboratory project. The main objective of the program was to establish connections with school teachers and senior students and to



make learning science interesting. The host of the evening programme was Suman Ghosh. Dr SK Pal, Chief Scientist and Head, RPBD Division, CSIR-NML talked about popular lecture series and informed that the objective of organizing this lecture series was to encourage school students and teachers in the science field. He also talked about the importance of Basics of computational Material Science and some objectives of computational materials science. The guest speaker of the evening program was Dr Sunil Kumar, Sr Scientist at CSIR-NML. Dr Sunil Kumar started his presentation about tools, techniques and other aspects of computational material sciences. He made a presentation on 'Basics of Computational Materials Science'. He discussed about the hardware and software requirements, various operating systems and programming languages and basic concepts of atomistic simulation that included writing code, compilation and execution of code. He concluded his lecture by briefly discussing common simulation methods and their applications and also the software and books available on this subject. There was a question-and-answer session following the presentation of Dr Sunil Kumar. The virtual program was attended by more than 40 people.

Published in:

Avenuemail

Sikkim Government Explore Possibilities To Establish 'CSIR Thematic Regional Centre'

CSIR-IHBT

29th September, 2022

The Minister of Agriculture & Horticulture – Lok Nath Sharma chaired a joint coordination meeting with the visiting delegates of the Council of Scientific and Industrial Research (CSIR) – Institute of Himalayan Bioresource Technology (IHBT) at Palampur in Himachal Pradesh; in order to discuss on the proposal for the establishment of CSIR thematic regional centre in Sikkim.



The follow-up meeting was held today, after signing the Memorandum of Understanding (MoU) on February 17, 2022. It was attended by the Director of CSIR-IHBT – Dr. Sanjay Kumar; Senior Principal Scientist – Dr. Ram Kumar Sharma; Scientist – Dr. Rakshak Kumar; and Scientist – Dr. Vidyashankar Srivastan from CSIR-IHBT, Palampur.

The meeting was also attended by the Secretary of Agriculture Department – JD Bhutia; Principal Director of Horticulture Department – SK Tamang, Principal Director of Agriculture Department – Tilak Gazmer; Director of Pakyong NRC – Dr. Rampal; Joint Director of ICAR – Dr. Ramgopal Laha; Director of Horticulture Department – MK Subba; Director of Science & Technology Department – D T Bhutia; Additional Director of Horticulture Department – BL Dahal; Senior Professor – Dr. Shanti S. Sharma; Professor Laxuman Sharma from Sikkim University and officers.

The meeting had a thorough discussion on the proposal for the establishment of the Thematic Regional Centre of CSIR/IHBT in Sikkim and taking up a cluster-based incubation center in onward action.

It was decided to constitute a joint committee comprising officers from the department of Agriculture, Horticulture, Science and Technology, ICAR-Sikkim state, Sikkim University, CSIR-IHBT, and all concerned.

During the meeting, Sharma emphasized on the need for a technology-based institute like IHBT-CSIR in Sikkim and suggested Director CSIR to prepare a Detail Project Report (DPR) in coordination with the committee. He also briefed on a series of actions to be undertaken in the onward process.

Meanwhile, the Director of CSIR-IHBT – Dr. Sanjay Kumar, noted that there is tremendous potential for resources in the state which would be supportive of embracing the objectives of the proposed establishment.

CSIR-NEERI celebrates 81st foundation day of CSIR

CSIR-NEERI

29th September, 2022

“The Science, Technology, and Innovation Policy (STIP) -2020 has been drafted to form a nurtured ecosystem that promotes research and innovation on the path of both individuals and organisations. In order to create an inclusive culture in the practice of science, equal opportunity in academics and research should be provided to women”, Prof Rohini Godbole said.

Padma Shri Prof Godbole, honorary Professor, Centre of Higher Energy Physics, Indian Institute of Science, Bengaluru was speaking as the chief guest during CSIR-NEERI Foundation Day programme at NEERI. Padma Shri Prof Amitav Mallik, Defence technologist and Green Tech Advisor and a former member of National Security Advisory Board was the guest of honour. NEERI Director Dr Atul Vaidya and Senior Principal Scientist Dr Prakash Kumbhare were present on the dais.

She pointed out that diversity, inclusion and equity are not only for the people who are excluded, but these are also required for the development of Science, Technology and Innovation. She hoped that the STIP-2020 will provide access to the grass root innovators for converting innovations into products. Prof. Godbole said that women are keepers of traditional knowledge which can lead to significant innovations. She advocated that CSIR should work more to encourage young women entrepreneurs.

Speaking on ‘India at 75 – Energy and Environment Challenges’, Prof Mallik said that India needs to promote sustainable energy policies that spur economic growth and environmental protection, particularly in terms of reducing greenhouse-gas emissions that contribute to climate change. He urged the scientists to participate in Science and Technology Development activities even after their retirement. He briefed about the initiatives taken by Pune International Centre under his leadership to combat the challenges of energy, environment

and climate change. We need specific and concrete policy pathways for deep decarbonisation in India which should work at the corporation and gram panchayat level, he added.

In his welcome address, Dr. Atul Vaidya, Director, CSIR-NEERI informed that CSIR has formulated a 10-point programme on its 81st Foundation Day for the revitalization of CSIR. Industrial application, techno-feasibility, societal benefits are some of the important features of this programme.

Dr Shalini Dhyani, Sr. Scientist, CSIR-NEERI conducted the proceedings. CSIR-NEERI launched the SAFRA and WDS portals for data management to ensure a safe drinking water system. 'Handbook on Water and Wastewater Analysis' was also released on this occasion. The staff members of CSIR-NEERI, who had completed 25 years of service, and those who had retired during the current and preceding years, were honoured on the occasion.

Science Models Competition was organized and prizes were given away to the winners.

CSIR-IITR celebrated 81st Foundation Day

CSIR-IITR, NBRI

29th September, 2022

“As science enthusiasts, one should always be open to the concept of ‘learn to un-learn to re-learn’. Indian Institute of Toxicology Research (IITR) would continue to contribute in more meaningful ways for the society,” said Bhaskar Narayan, director, CSIR – IITR who took charge as new director on Tuesday.



Narayan was addressing the gathering on the 81st Foundation Day of Council of Scientific and Industrial Research (CSIR) being celebrated on Wednesday here in Lucknow.

“80 years in the life of an organisation as large as this is a momentous occasion to celebrate and rejoice,” said professor SK Barik, director CSIR–National Botanical Research Institute who was speaking as a Guest of Honour at the event.

Delivering the CSIR foundation day lecture, professor Soniya Nityanand, director, Dr Ram Manohar Lohia Institute of Medical Sciences, Lucknow spoke about the role of CSIR in inspiring her scientific journey. She described the role of stem cell research in tackling present day medical challenges.

The institute was kept open for visitors to come and interact with the scientific community. About 100 students from local schools and colleges were invited to the institute on the occasion.

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National Conference begins at CUJ

CSIR-IIIM

29th September, 2022

JAMMU, Sept 28: Two days 'National Conference on Emerging Trends in Genetic Engineering and Molecular Biology (ETGEMB-2022)' was organized by the Centre for Molecular Biology, Central University of Jammu (CUJ), here today. The conference was organised in collaboration with J&K State Science and Innovation Council, DST. The inaugural session commenced with a welcome address by the Director, Prof. Mushtaq Ahmed.



Vice Chancellor CUJ, Prof Sanjeev Jain presided over the event and felicitated the guests. He addressed the pool of intellectuals, scholars and students and emphasized more on the quality of research and innovations. Prof Manoj Dhar, former Vice Chancellor, University of Jammu was the chief guest. He advised the students to focus on the concepts of basic sciences before going towards advanced research.

Moreover, Prof HB Singh, former Professor, Institute of Agricultural Sciences, BHU Varanasi was the invited guest of honour. He is also known as the Man of Patents and pioneer in Trichoderma research enlightened the young minds about the importance of traditional Ayurveda and plant sciences thereby connecting it to modern research.

The inaugural session started with the Sarasvati Vandana and Lamp lightning, wherein several delegates from different institutions namely ICGEB Delhi, IIIM-Jammu, SKUAST-Jammu and Kashmir, participated in the conference.

Prof BS Bhau, Dean School of Life Sciences CUJ graced the occasion, while Dr Shelly Sehgal, co-convenor of the conference proposed the formal vote of thanks.

The first technical session began with a keynote lecture by Prof Manoj Dhar on the topic, “Technologies in Demystifying Saffron; the Golden Spice”, followed by another invited lecture by Prof HB Singh titled “Intellectual Property Rights and their Importance in Research.” The invited speakers of the technical sessions were introduced by Dr. Audesh Bhat.

The second technical session began with the keynote address of Dr Kancherla Prasad, Senior Sr. CSIR-IIIM as well as Dr Mohd Jamal Dar, Principal Sr. CSIR-IIIM. Both the esteemed speakers were introduced by Dr Ashok Yadav. Prof. H.B Singh presided over the valedictory event.



वैज्ञानिक और औद्योगिक अनुसंधान परिषद ने मनाया स्थापना दिवस

नवभारत ब्यूरो । भुवनेश्वर। सीएसआईआर-आईएमएमटी भुवनेश्वर ने 27 सितंबर 2022 को संस्थान के परिसर में सीएसआईआर, नई दिल्ली के मूल निकाय का 81वां स्थापना दिवस मनाया। आईएमएमटी में स्थापना दिवस कार्यक्रम का आयोजन आईएमएमटी के निदेशक प्रो सुधासत्व बसु के स्वागत भाषण से हुआ। सभा को संबोधित करते हुए आईएमएमटी के निदेशक प्रो सुधासत्व बसु ने कहा कि, सीएसआईआर ने कोविड-19 के दौरान आधुनिक भारत और भारतीय समाज को आकार देने में महत्वपूर्ण भूमिका निभाई है, जिसमें विनिर्माण से लेकर वायरस के लिए जीनोमिक अध्ययन और ऊर्जा स्रोतों पर अनुसंधान आदि के लिए कई विकास कार्यक्रम आयोजित किए गए हैं। हम गहरे महासागर से प्राप्त होने वाली विभिन्न

इस अवसर पर विभिन्न श्रेणियों के सफल कर्मचारियों के बच्चों को छात्रवृत्ति की घोषणा भी की गई और सेवानिवृत्त और वर्तमान कर्मचारियों को भी सम्मानित किया गया। सीएसआईआर-आईएमएमटी के अधिकांश कर्मचारी और विद्वान और अन्य आमंत्रित अतिथियों ने कार्यक्रम में भाग लिया। विभिन्न प्रौद्योगिकियों और अनुसंधान एवं विकास सुविधाओं की प्रदर्शनी और लाइव प्रदर्शन एठ द रेट आफ सीएसआईआर-आईएमएमटी, भुवनेश्वर इंजीनियरिंग के छात्र ओयूटीआर (सीईटी): 170, आईटीईआर, सोआ : 57, केआईएसटी : 50, किट : 36 कुल 313 छात्रों और संकायों ने कार्यक्रम का दौरा किया। इसके अलावा केएमबीबी कॉलेज, आरआरएल प्रोजेक्ट स्कूल, वाणी विहार हाई स्कूल से जिग्यसा कार्यक्रम के तहत लगभग 300 छात्रों ने दौरा किया।

प्रकार की सामग्रियों पर भी शोध कर रहे हैं। इस अवसर पर बोलते हुए माननीय मुख्य अतिथि, सुधाकर पंडा, निदेशक, एनआईएसईआर, भुवनेश्वर ने कहा कि हमें नई पीढ़ी को शिक्षा में लचीलेपन की अनुमति देनी चाहिए और अपनी जिम्मेदारियों की उपेक्षा नहीं करनी चाहिए।

हमें नई शिक्षा नीति का लाभ उठाना चाहिए। अंत में वह प्रगतिशील तरीके से आगे बढ़ना चाहता था। इस अवसर पर अतिथियों एवं गणमान्य व्यक्तियों की उपस्थिति में हिन्दी पत्रिका 'अभिव्यक्ति' का विमोचन किया गया। सम्मानित अतिथि, प्रोफेसर रामकृष्ण आर सोंडे,

केमिकल इंजीनियरिंग विभाग, आईआईटी-दिल्ली ने 'उच्च राख कोयला गैसीकरण पर अवसरों और चुनौतियों के अगले दशक' पर स्थापना दिवस व्याख्यान दिया। इस अवसर के अतिथियों ने सीएसआईआर-आईएमएमटी में विभिन्न सुविधाओं का दौरा किया और प्रमुख प्रौद्योगिकियों के प्रदर्शनों को देखा। आईएमएमटी ने केले के अपशिष्ट बायोमास से पोटैश समृद्ध बायोचार की प्रौद्योगिकी के लिए जयदेव केला किसान और कारीगर एसोसिएशन के साथ एक समझौता ज्ञापन पर हस्ताक्षर किए हैं और इसे बाजार में उपलब्ध कराया है। इस कार्यक्रम का संचालन डॉ. अशोक कुमार साहू, मुख्य वैज्ञानिक, अध्यक्ष, सीएसआईआर स्थापना दिवस आयोजन समिति ने किया, उन्होंने धन्यवाद प्रस्ताव भी प्रस्तुत किया।

सीएसआईआर-आईआईपी ने 81वां सीएसआईआर स्थापना दिवस मनाया

देहरादून, संवाददाता

देहरादून में स्थित सीएसआईआर भारतीय पेट्रोलियम संस्थान, सीएसआईआर के प्रमुख संस्थानों में से एक है। सीएसआईआर भारतीय पेट्रोलियम संस्थान ने 81वां सीएसआईआर स्थापना दिवस मनाया। यह समारोह मूल संगठन के गौरवशाली अतीत और रोमांचक भविष्य के जश्न मनाने के साथ उसे राष्ट्र हित में फिर से समर्पित करने के लिए आयोजित किया गया था। डॉ. टी. रामासामी प्रौद्योगिकी विज्ञान विभाग में भारत सरकार के पूर्व सचिव ने इस अवसर पर मुख्य अतिथि के रूप में शिरकत की और

स्थापना दिवस व्याख्यान दिया। वरिष्ठ प्रधान वैज्ञानिक डॉ जी डी ठाकरे ने सभी का स्वागत करते हुए और वैज्ञानिक और औद्योगिक अनुसंधान परिषद की जानकारी देकर कार्यक्रम की शुरुआत की। इसके अलावा, श्री सुदीप गांगुली, मुख्य वैज्ञानिक, ने दर्शकों को सीएसआईआर की यात्रा के बारे में बताया। उन्होंने याद कराया कि सीएसआईआर की स्थापना 1942 में पंडित जवाहर लाल नेहरू जैसे दूरदर्शी नेताओं ने की थी।

सीएसआईआर-भापेस के निदेशक डॉ अंजन रे ने सम्मानित सभा को सूचित किया कि सीएसआईआर विविध क्षेत्रों में कार्य

कर रहा है। सीएसआईआर स्थापना का परिचय दिया और दर्शकों को दिवस सभी 37 अनुसंधान उनकी उपलब्धियों के बारे में जानकारी दी। डॉ रामासामी ने उपस्थित प्रत्येक व्यक्ति को श्रम के ऊर्जा भविष्य को सीएसआईआर के लिए एक पथ पर सूचनात्मक और ज्ञानवर्धक स्थापना दिवस व्याख्यान के द्वारा प्रबुद्ध किया। उन्होंने ऊर्जा आवश्यकताओं, प्रयोगशालाओं में मनाया जाता है। ऊर्जा सुरक्षा और ऊर्जा के वैकल्पिक स्रोतों के विभिन्न पहलुओं को छुआ।



उन्होंने ऊर्जा सुरक्षा और स्थिरता के माध्यम से भारत को 5 ट्रिलियन डॉलर की अर्थव्यवस्था में तब्दील करने के लिए सीएसआईआर की भूमिका को सुनिश्चित किया। इस अवसर पर, सितंबर 2020 से अगस्त 2022 के बीच सेवानिवृत्त हो चुके कर्मचारियों को सम्मान पत्र और स्मृति चिन्ह से सम्मानित किया गया।

संगठन के लिए 25 वर्ष की सेवा पूरी करने वाले कर्मचारियों को भी उनकी सेवाओं के लिए सम्मानित किया गया। इसके अलावा, सीएसआईआर-भापेस कर्मचारियों के मेधावी बच्चों को नकद पुरस्कार/छात्रवृत्ति और

प्रशंसा प्रमाण पत्र प्रदान किए गए। इस खास मौके पर सांस्कृतिक संध्या का भी आयोजन किया गया। इस आयोजन में कर्मचारियों, सीएसआईआर-भापेस कर्मचारियों के बच्चों और पीएचडी विद्वानों ने बड़े उत्साह के साथ भाग लिया। चित्रकला प्रतियोगिता में भाग लेने वाले प्रतिभागियों और संविधान दिवस प्रश्नोत्तरी प्रतियोगिता के विजेताओं को भी पुरस्कृत किया गया।

प्रशासनिक अधिकारी पूर्णिमा अरोड़ा ने अंत में धन्यवाद प्रस्ताव ज्ञापित किया और कार्यक्रम की भव्य सफलता में योगदान देने वाले सभी लोगों को धन्यवाद दिया।

Jamshedpur: CSIR celebrates 81st Foundation day at NML, retired employees, meritorious student felicitated

CSIR-NML

28th September, 2022



Jamshedpur, Sep 28: The 81st Foundation Day of the Council of Scientific & Industrial Research (CSIR) was celebrated at National Metallurgical Laboratory, Jamshedpur on Wednesday, September 28.

Chief guest Prof Tanusri Saha-Dasgupta, Director, Satendra Nath Bose National Centre for Basic Sciences inaugurated the function in presence of Dr Indranil Chatteraj, Director, CSIR-NML, and Rajkumar Droch, Sr Controller of Finance & Accounts, CSIR-NML.

Dr Chatteraj briefly mentioned the contribution of CSIR to the development of our nation in the past 81 years of glory through various technological development and pioneering works.

“The CSIR is always giving thrust on impactful research with high visibility. The advantage of research imparts to the common people,” added Dr Chatteraj. Prof Tanusri Saha-Dasgupta delivered lecture on “Machine Learning in designing new materials with targeted properties”. Further, CSIR-NML Annual Reports 2021-22 was released by the chief guest followed by the felicitation of employees who have retired between September 2020 to August 2022 and those

who completed 25 years of service in CSIR. Meritorious student awards were announced for the CSIR-NML employee's son/daughter for securing admission in 2020, 2021 & 2022 for B. Tech. course in IITs, Post Graduate Programme (PGP) in Management of two years' duration through Common Admission Test (CAT) in IIM after qualifying the relevant competitive examination held during the year, 2020, 2021 & 2022.

The awardees are Aditya Upadhyaya, S/O Dr AK Upadhyaya for getting admission in IIT (ISM), Dhanbad; Saurabh Hansda S/O Dr KL Hansda for admission in IIM, Kolkata; Deepanshu Sau S/O Dr DC Sau, getting admission in IIT, BHU.

Kids of CSIR-NML employees who secured 90% marks and above in class 10 and 12 board exam were also honoured.

Later, awards for various events like quizzes, essays, and sports events for men and women were given by the chief guest.

NTPC Director praises CSIR scientists for their work in solving technical issues faced by thermal plants

CSIR-SERC

28th September, 2022

The knowledge of the scientists of the Council of Scientific and Industrial Research (CSIR) in solving the environmental and other issues faced by the thermal plants of National Thermal Power Corporation (NTPC) has remained the backbone for the continued partnership between the energy and scientific behemoths, said U.K. Bhattacharya, Director (Projects), NTPC.

Mr. Bhattacharya, participating in the Foundation Day celebration of CSIR in the city on Wednesday, recalled the instances where the scientists of the Structural Engineering Research Centre (SERC) of the CSIR chipped in to provide solutions, including the carbon capturing from the flue gas to control pollution in the thermal plants, safeguarding the structural condition of the thermal stations from environmental impacts and other issues affecting the NTPC plants.

Citing the Tapovan Vishnugad hydropower project of the NTPC in Uttarakhand, which was affected by floods in 2021, he said the CSIR-SERC would be helping in the safety aspects of the project. Taking pride in setting up the Vallur thermal project in north Chennai, he said it had been one of the best performing thermal stations despite facing several technical and structural issues, which were being solved by CSIR-SERC.

N. Anandavalli, Director, CSIR-SERC, said the Council, which was celebrating the 81st Foundation Day, had grown phenomenally in the past eight decades. She remembered the contribution of Arcot Ramasamy Mudaliar for the foundation of the institution.

Published in:

[The Hindu](#)

BIS holds programme for footwear industry in Chennai

CSIR-CLRI

28th September, 2022

Several representatives from the footwear industry participated in a programme on “Revised Indian Standards on Polyvinyl Chloride Industrial Boots” in the city on Wednesday.

PVC boots are meant to protect feet against rain and while working in slushy areas. Such boots are recommended in various industries, including tanneries, petrochemical and pharmaceuticals.

Representatives from institutions and associations such as Central Footwear Training Institute, Footwear Design and Development Institute and Indian Shoe Federation attended the programme organised by the Bureau of Indian Standards, Chennai Branch Office –I .

R. Mohan, Chief Scientist and Head - Caters, CSIR-CLRI and Jose Charles, Scientist D, Chennai Branch Office-I, BIS, spoke.

Published in:

[The Hindu](#)

सीएसआईआर के 81वें स्थापना दिवस पर बेस्ट वूमेन रिसर्चर समेत 18 का सम्मान

सीरी के पिलानी केंद्र में हुआ कार्यक्रम, डॉ. स्वराज मेमोरियल पुरस्कार प्रदान किए

पिलानी | सीएसआईआर-केंद्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान, पिलानी में मंगलवार को वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद (सीएसआईआर) का 81वां स्थापना दिवस मनाया गया। देवी अहिल्या विश्वविद्यालय के पूर्व कुलपति प्रोफेसर ए एल शर्मा समारोह के मुख्य अतिथि थे। सीएसआईआर-सीरी के पूर्व वरिष्ठ वैज्ञानिक केएसएन राव एवं डॉ. आरएस शेखावत विशिष्ट अतिथि थे। 15 सहकर्मियों तथा परिषद में 25 वर्ष की सेवा पूरी करने वाले संस्थान के 3 सहकर्मियों को सम्मानित किया गया। इस अवसर पर संस्थान के वर्तमान एवं पूर्व सहकर्मियों सहित स्थानीय शिक्षण संस्था बिरला शिशु विहार के प्रधानाचार्य पवन वशिष्ठ, सीरी विद्या मंदिर की प्रधानाचार्या बी राशेल सहित पिलानी के गणमान्यजन उपस्थित थे। विशिष्ट अतिथि डॉ. आर एस शेखावत ने भी संबोधित किया।



इससे पूर्व संस्थान के निदेशक डॉ. पी सी पंचारिया ने स्वागत किया।

महिला शोधकर्ता वैज्ञानिक एवं छात्राओं को डॉ. स्वराज श्रीवास्तव मेमोरियल पुरस्कार दिए गए। संस्थान के चेन्नै केंद्र में कार्यरत महिला वैज्ञानिक डॉ. एच किरणमयी को डॉ. स्वराज श्रीवास्तव मेमोरियल पुरस्कार के अंतर्गत सर्वश्रेष्ठ महिला शोधकर्ता (बेस्ट वूमेन रिसर्चर) पुरस्कार से सम्मानित किया गया। डॉ. किरणमयी को यह सम्मान दूध में मिलावट का पता लगाने के यंत्र क्षीर स्कैनर एवं क्षीर एनालाइजर के वाणिज्यीकरण में विशिष्ट योगदान के लिए प्रदान किया गया। इस पुरस्कार के

अंतर्गत विजेता को दस हजार रुपए का नकद पुरस्कार और प्रशस्ति पत्र भेंट किया जाता है। इसके अतिरिक्त प्रधान वैज्ञानिक डॉ. अदिति तथा शोध छात्राओं सुश्री विशाखा पारीक और सुश्री बी उत्तरा को विगत वर्ष प्रतिष्ठित जर्नलों में शोध पत्रों के प्रकाशन के लिए भी सम्मानित किया गया।

इस अवसर पर अतिथियों द्वारा संस्थान की वार्षिक रिपोर्ट 2021-22 का विमोचन भी किया गया। पुरस्कारों के अंतर्गत सीएसआईआर निबंध प्रतियोगिता के विजेताओं और कक्षा 12 में विज्ञान विषयों में 90% से अधिक अंक प्राप्त करने वाले सीएसआईआर कार्मिक के पुत्र को भी सम्मानित किया गया। समारोह का संचालन वैज्ञानिकों डॉ. राजेन्द्र कुमार वर्मा एवं सोम शुक्ला माइति ने किया। अंत में संस्थान के प्रशासन नियंत्रक जय शंकर शरण ने धन्यवाद ज्ञापित किया।

सीएसआईआर का 81वां स्थापना दिवस मनाया गया

अमृत विचार संवाददाता

लखनऊ। राष्ट्रीय वनस्पति अनुसंधान संस्थान द्वारा मंगलवार को अपनी पैतृक संस्था वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद (नई दिल्ली) का 81वां स्थापना दिवस धूमधाम से मनाया गया। इस मौके पर भारतीय कृषि अनुसंधान परिषद के महानिदेशक डॉ. हिमांशु पाठक मुख्य अतिथि के रूप में कार्यक्रम से ऑनलाइन जुड़े। संस्थान के निदेशक प्रो. एसके बारिक द्वारा संस्थान में 25 वर्ष की सेवा पूरी करने वाले नौ कर्मचारियों एवं विगत दो वर्षों में सेवानिवृत्त होने वाले 31 कर्मचारियों को स्मृति चिन्ह देकर सम्मानित भी किया। इसके

साथ-साथ सीएसआईआर-एनबीआरआई कर्मचारियों के मेधावी छात्रों को भी पुरस्कृत किया गया।

मुख्य अतिथि डॉ. हिमांशु पाठक ने सीएसआईआर द्वारा समाज के हित में किये गए कार्यों एवं वैज्ञानिक उपलब्धियों पर सभी को बधाई देते हुए कहा कि आज का दिन हमें यह याद करने का अवसर प्रदान करता है कि हमने क्या किया है और क्या किया जाना शेष है। जो देश कभी अपनी आवश्यकताओं के लिए दूसरे देशों पर निर्भर रहता था, आज स्वयं आत्मनिर्भर बनकर दूसरे देशों की खाद्य सुरक्षा सुनिश्चित कर रहा है। यह विज्ञान एवं प्रौद्योगिकी की ही देन है। इस मौके पर संस्थान



स्थापना दिवस पर एनबीआरआई के निदेशक प्रो. एसके बारिक व अन्य।

द्वारा हल्दी में पाए जाने वाले महत्वपूर्ण यौगिक कर्कुमिन को खाने योग्य कैप्सूल (क्रोमा-3) बनाने की तकनीकी को मेसर्स टेक्नो केमिकल इंडस्ट्रीज लिमिटेड (कालीकट) को स्थानांतरित किया गया। इस तकनीकी को प्रधान वैज्ञानिक डॉ. बीएन सिंह और उनकी टीम ने विकसित किया था। डॉ. बीएन सिंह ने बताया कि हल्दी अपने औषधीय

गुणों के कारण प्राचीन औषधीय तंत्र आयुर्वेद में एक विशेष महत्व रखती है, हालांकि इसमें पाए जाने वाले औषधीय यौगिक कर्कुमिन की खराब जैव उपलब्धता और पानी में घुलनशीलता की कमी के कारण, इसके औषधीय गुणों का पूरा फायदा हम नहीं ले पाते हैं। स्थापना दिवस कार्यक्रम का समन्वयन मुख्य वैज्ञानिक डॉ. प्रमोद शर्के द्वारा किया गया।

Tata Steel organises conference on fly ash and steel slag challenges

CSIR-NML

27th September, 2022

Jamshedpur, Sept 27: A two-day conference on Valorization of Fly Ash & Steel Slag: Challenges, Innovations & Future Trends (V-FASS 2022) was organised by Tata Steel in association with National Metallurgical Laboratory (CSIR-NML) and Indian Ceramic Society (ICS) Jamshedpur Chapter. The event at Beldih Club saw presence of V. K. Sarawat, member, NITI Aayog and chancellor, JNU who graced the occasion as chief guest through virtual platform.



He congratulated the organisers for taking up this very relevant topic for deliberations. He underlined the importance of usage of fly ash and steel slags from the perspective of sustainable growth of industry in the country and summarized the key steps taken by government for promoting by-product utilization.

Steel slag and fly ash are the by-products of steel plants and power plants respectively – two of the most vital sectors for industrial growth. The effective utilization of these by-products is important for sustainable manufacturing, and their valorization is significant for promotion of circular economy. The conference saw participation by more than 150 esteemed delegates from academic and research institutions, steel and cement industries, concrete, and fly ash brick manufacturers. A dedicated session with brick manufacturers and road developers was conducted with participation from over 50 customers.

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[Lagatar24](https://lagatar24.com)

CSIR-CCMB, NGRI

27th September, 2022



'Open Day' conducted at CCMB, NGRI

CSIR-Centre for Cellular and Molecular Biology (CCMB), Hyderabad celebrated its 'Open Day' on the occasion of CSIR's 80th Foundation Day on Monday. Scientists at the institute put up their work in form of model exhibits and posters. There were hands-on activities, games and comics to help the visitors understand scientific research. More than 7,000 people, most of them school students visited the institute campus. The neighbouring CSIR-National Geophysical Research Institute (NGRI) too saw upto 3,000 students thronging on the 'Open Day' to have a glimpse of the exhibits at 15 stalls, each showcasing different science themes.

CSIR-CCMB, NGRI

27th September, 2022

CSIR-NGRI reg. Open day of CSIR-NGRI, in connection with CSIR Foundation Day Celebrations - 2022

**ఎన్జీఆర్‌ఐలో ఘనంగా
వ్యవస్థాపక దినోత్సవం**

హైద్రాబాద్, సెప్టెంబరు 27: హైద్రాబాద్‌లోని జాతీయ భూభౌతిక పరిశోధన సంస్థ (ఎన్జీఆర్‌ఐ)లో 81వ వ్యవస్థాపక దినోత్సవం సోమవారం ఘనంగా నిర్వహించారు. ఈ సందర్భంగా పలు నమూనాలను ఏర్పాటు చేశారు. పలు నమూనాలను ఏర్పాటు చేసిన యువ శాస్త్రవేత్తలు.. వాటి గురించి విద్యార్థులకు వివ



నమూనాలను వీక్షిస్తున్న విద్యార్థులు

రించారు. విద్యార్థులు సందేహాలను నివృత్తి చేసుకున్నారు. హైదరాబాద్ నుంచి సుమారు 30వేల మంది విద్యార్థులు పాల్గొన్నారు.

Foundation day lecture held at CSIR-IICT

CSIR-IICT

26th September, 2022

The 81st Foundation Day of Council for Industrial Research (CSIR) was celebrated at the CSIR-Indian Institute of Chemical Technology (CSIR-IICT) with chair professor at the National Center for Biological Sciences, Bangalore and former director of Indian Institute of Science P. Balaram delivered a talk on 'Chemistry and Biology in the Age of the Coronavirus' on the weekend.

Prof. Balaram in his talk, made some important reflections on evolutionary history of the coronavirus. He also narrated that his inquisitiveness led to know more about the discoverer of coronavirus Dorothy Hamre.

Dr. Hamre actually published her first report on coronavirus as early as in the year 1966. He also emphasised the importance of chemistry in every aspect of life.

CSIR-IICT Director D Srinivasa Reddy, in his welcome address, said CSIR's eight decades of service to the nation is coinciding with the 'Azadi Ka Amrit Mahotsav' celebrations, and culminating under the leadership of "our first woman Director General of CSIR N. Kalaiselvi". He also spoke about some of the popular innovations of CSIR and significant contribution towards the growth of pharma sector. Special awards, team awards, technology awards, awards to meritorious children of staff and those who retired in the last two years were felicitated on the occasion, said a press release.

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