

CSIR IN MEDIA



CSIR

NEWS BULLETIN

16 TO 20 MARCH 2022



Vijayawada: Students exhorted to compete for CSIR awards

CSIR

20th March, 2022

Vijayawada: The Council of Scientific and Industrial Research (CSIR) of the Union ministry of science and technology issued a notification for CSIR innovation awards for schoolchildren (CIASC) for 2022. The CSIR invites students to send their original creative technological and design ideas in the form of proposal for the competition. The proposals submitted should be one that is novel and utilitarian.



Special secretary of social welfare department Gandham Chandrudu said in a statement on Saturday that any Indian student up to Class XII and below 18 years of age as on January 1, 2022 would be eligible to apply in English or Hindi through the principal/head of the school (for authentication purposes). Proposals can be submitted by a student or a group of students.

In all, there are 15 prizes. Besides a certificate, the cash awards include one first prize Rs 1,00,000, two second prizes Rs 50,000 each, three third prizes of Rs 30,000 each, four fourth prizes of Rs. 20,000 each and five fifth prizes of Rs 10,000 each.

He suggested to the students to refer <https://jnanabhumi.ap.gov.in/> for detailed guidelines and the detailed proposals can be submitted to ciasc.ipu@niscair.res.in within the last date i.e., April 30, 2022. He appealed to all the students across the state to make use of this opportunity and requested all the teachers across the state to mentor and support the students in this regard.

Chandrudu said that comprehensive proposals were being conceptualised for Dr B R Ambedkar Gurukulams.

He said that Gurukulams have 134 Atal Tinkering Labs (ATL Labs) sanctioned which is the highest across the state and country. He applauded the students whose projects were selected in the recently held ATL Space challenge, wherein out of 75 projects which were selected across the country, three projects are from Andhra Pradesh and those three projects are from Dr BR Ambedkar Gurukulams.

LFI collaborates with CSIR-JIGYASA Program

CSIR-NEIST

18th March, 2022

Dimapur, March 18 (MExN): Livingstone Foundation International (LFI) became “one of the few schools in Nagaland to collaborate” with the Central Government’s CSIR (Council of Scientific & Industrial Research)-JIGYASA Program. A team of experts and officials from CSIR-NEIST (North East Institute of Science and Technology), Jorhat, Assam visited the school on March 17, LFI stated in a press



note. The team included Nandan Kumar, Research Associate, CSIR-NEIST, Anshuman Goswami, Team JIGYASA, Himangshu Lekhak, Senior Technical Officer, CSIR-NEIST and Ravi Kumar Sahu, Technical Assistant, CSIR-NEIST.

The team interacted with students, faculty members and School Management led by Chairman, Dr Andrew Aphoto Sema. During the interactive session, Anshuman Goswami from Team JIGYASA explained the various aspects of the program whereby the students would be aided in communicating with Scientists from across the country through online platforms. He mentioned that the primary objective of the program was to create a scientific temperament among the student community of India, especially the North-Eastern students.

The team from CSIR-NEIST, Jorhat also presented some lab equipment's to the Chairman of LFI.

Published in:

[Morung Express](#)

CSIR-NE Institute of Science & Technology celebrates diamond jubilee

CSIR-NEIST

17th March, 2022

ITANAGAR, 16 Mar: The CSIR-North East Institute of Science & Technology Itanagar-Naharlagun branch celebrated its diamond jubilee at the institute on 16 March.

Attending the event, Itanagar Capital Complex Deputy Commissioner Talo Potom spoke on entrepreneurship development and utilization of natural resources, its management and protection of biodiversity.

Prof HS Yadav shared information and knowledge relevant to the self-help groups and NGOs, while Dr VK Rawat, Prof S Suresh Singh and Debasis Ghosh shared their experience and information about different schemes available in their respective organizations.

CSIR-NEIST Itanagar, Sc in-charge Dr Chandan Tamuly explained about the objective of the institute.

Select entrepreneurs and beneficiaries working silently for sustainable development focused on cultivation of mushroom, production of vermicompost and conservation of Tashe plant were also felicitated on the occasion.

Winners of a drawing competition held on 13 March were also awarded on the day. About sixty participants from different SHGs, NGOs, farmers, beneficiaries and students attended the day-long programme.

Published in:

[Arunachal Times](#)

सीएसआईआर-आईएमएमटी में आधुनिक भट्टी का उद्घाटन



भुवनेश्वर. सीएसआईआर- खनिज और सामग्री प्रौद्योगिकी संस्थान (आईएमएमटी) भुवनेश्वर, धातु और खनिजों में एक प्रमुख अनुसंधान संगठन होने के नाते धातु शिल्प क्षेत्रों के कारीगरों के लाभ के लिए एस एंड टी हस्तक्षेप स्थापित करने के लिए प्रतिबद्ध है. इसके तहत सीएसआईआर-आईएमएमटी परिसर में बुधवार को धातु शिल्प कारीगरों के लिए बेहतर पीतल/घंटी धातु पिघलने वाली भट्टी पर एक दिवसीय प्रदर्शन-सह-प्रशिक्षण कार्यक्रम का आयोजन किया गया. कार्यक्रम का आयोजन सीएसआईआर- राष्ट्रीय धातुकर्म प्रयोगशाला, जमशेदपुर के सहयोग से किया गया है.

इस अवसर पर मुख्य अतिथि के रूप में एमएसएमईडीआई, एएमटी के निदेशक पी.के. गुप्ता योगदान कर कार्यक्रम का उद्घाटन किया. इस कार्यक्रम में अन्य अतिथि के रूप में एएमटी के प्रमुख डॉ बी भोई, आरएचएमओ ग्रुप के मेंटर प्रो ओ एन मोहंती शामिल हुए थे. कार्यक्रम में विभिन्न समूहों (कंटिलो, बालकाटी, सदेइबरेनी आदि) के कारीगरों, सीएसआईआर-आईएमएमटी और सीएसआईआर-एनएमएल के वैज्ञानिकों और तकनीकी कर्मचारियों ने भाग लिया. मुख्य अतिथि गुप्ता ने पीतल पिघलने वाली भट्टी के लिए वैज्ञानिक हस्तक्षेप के महत्व के बारे में जानकारी दी. प्रो ओ एन मोहंती ने धातु शिल्प के वैज्ञानिक और तकनीकी पहलुओं पर प्रकाश डाला. संयोजक डॉ ए के चौबे ने बेहतर पीतल पिघलने वाली भट्टी के महत्व पर प्रकाश डाला और डॉ वाई एस चौधरी, समन्वयक सीआरटीडीएच ने एमएसएमई और धातु शिल्प कारीगरों के लाभ के लिए सीआरटीडीएच के दायरे के बारे में चर्चा की.

DST-INSPIRE Faculty fellow identifies unique synergism of planar optics with functional optical materials

CSIR-NIIST

16th March, 2022

Solar optics and materials development group led by Dr. Adersh Asok, a DST-INSPIRE Faculty fellow, has facilitated the development of experimental and computational optics at CSIR-NIIST for the past 5 years.



Focusing on optical materials and optical engineering for smart solar energy management, Dr. Asok and his group have

recently identified a unique synergism of planar optics with functional optical materials. The study was published in the journal ACS Appl. Nano Mater. 2020 can help intelligent and efficient solar light energy management. Further, using the fundamental understanding generated from these findings, the group has devised new approaches for enhancing light-matter interactions, and tailored light propagation, a perspective on this was published in the Journal of Thermal Analysis and Calorimetry 2022. This can help meet the unmet developments in the energy, environment, and healthcare arena.

Two technologies developed by him include Dynamic Power Windows, a technology innovation that can offer adaptable transparency (solar heat gain control) and clean electricity generation in a single platform. Innovative and industrially scalable planar light concentrators and diffusers that enable game-changing solar light management technologies having targeted applications for BIPV/T and Agrivoltaics sectors.

His research team has successfully prototyped the technological innovations with the support of CSIR, DST-INSPIRE faculty scheme, and Industry funding. Realising the immediate technology development potential for the developed technology innovations, an MoU was

exchanged between CSIR-NIIST and ISAAC-SUPSI, Swiss BIPV Competence Centre, Switzerland.

"The next steps are to climb higher technology readiness levels to benchmark and develop innovative products for BIPV/T and Agrivoltaics sector by strengthening National and International partnerships," told Dr. Adersh.

The technologies have significant commercial value, strongly supporting Innovate India, Smart Cities, Smart Village, Make in India, and UN sustainable development goals.

Dr. Adersh Asok, holding a prototype of a planar solar concentrator, and in the background, the prototype of the developed DPW technology is visible.

His research on unique optical materials and optics for Dynamic Power Windows (DPW), Building Integrated Photovoltaics/Thermal (BIPV/T), and Agrivoltaics, along with his R&D group, can help move towards energy self-sustenance.

Academia-Industry Innovation Conclave by CSIR-IMMT & NRDC

CSIR-IMMT

16th March, 2022

Bhubaneswar : Academia- Industry Innovation Conclave, specific to Minerals, Materials & Life Sciences Technology was being organised today at CSIR –IMMT Auditorium, Bhubaneswar.

The conclave was jointly organised by National Research Development Corporation, and CSIR-IMMT.



The one day conclave was inaugurated in presence of Chief Guest, Sri Pratap Sarangi, Honourable Member of Parliament, Dr Shekhar C Mande, Secretary DSIR & DG CSIR, Govt of India in the presence of Prof. S Basu, Director, CSIR-IMMT, Bhubaneswar, Commodore Amit Rastogi(Rtd), CMD, NRDC, Dr Ashok K Sahu, Chief Scientist, CSIR-IMMT, Dr. T Pavan Kumar, Sr. Scientist, CSIR-IMMT, Mr N G Lakshminarayan, Chief-BD, NRDC, Dr Bijay Kumar Sahu, Head-IPFC & TISC, NRDC.

Delivering his inaugural speech Sri Pratap Sarangi, Honourable Member of Parliament, emphasised on more and more technological support for the growth of the country particularly during this pandemic time and how there is a need of more technical knowledge expertise. He advised the industry and institutions to formulate their excellence and increase productivity with their expertise in this field.

Speaking on this occasion, Prof. Dr. S. Basu, Director, CSIR-IMMT said, several institutes are participating in this conclave. Joint work always enhances the innovation. Industrial R&D gets connected through this innovation conclave for business development. Last 7 years we try to

grow the facilities to increase the platform to get more and more employment. We have also set up an incubation centre.

The Guests and Speakers discussed on the Latest innovative technologies available for commercialization & transfer to MSME's, industry and start-ups, Insights on changing technology and marketing scenario and demand, IP protection management & academia-industry collaboration and freedom to operate for MSME's and start-ups etc.

On this occasion Mou signed between NRDC and Sri sri University, NRDC and Birla global University, Bhubaneswar

Access exclusive sessions and panel discussions led by industry experts and scientists held during the conclave and the participants were engaged in knowledge sharing and understanding technology landscape and IP.

Scientists and researchers from technology/R&D organizations/Universities/PSU's, Representatives from PSUs/MSMEs, start-ups, Organizations looking at business and investment opportunities, Start-Ups, Technology providers, R&D organizations and MSME Associations, Sector experts, Industry captains, and Trade bodies participated in this Conclave.

Dr. T Pavan Kumar, Sr. Scientist, CSIR-IMMT and Dr B K Sahu, Head- IPFC & TISC, NRDC, Visakhapatnam Coordinated for this conclave.

Improved Brass Melting Furnace Inaugurated At CSIR-IMMT, Bhubaneswar

CSIR-IMMT, NML

16th March, 2022



Bhubaneswar(Kalinga Voice) : CSIR-Institute of Minerals and Materials Technology (IMMT) Bhubaneswar, being a premier research organization in metals and minerals is committed to establish S&T intervention for the benefit of artisans of metal craft sectors.

One-day demonstration-cum-training programme on improved brass/ bell metal melting furnace for the metalcraft artisans was held today at the CSIR-IMMT campus. The programme was being organized in collaboration with CSIR-National Metallurgical Laboratory, Jamshedpur. In the inaugural function of the program, Chief Guest Shri P.K. Gupta, Director MSMEDI, AMT Head Dr. B. Bhoi, Prof. O.N. Mohanty, Mentor, RHMO group were present. Artisans of different clusters (Kantilo, Balakati, Sadeibareni, etc.), scientists and technical staffs of CSIR-IMMT and CSIR-NML participated in the programme.

Chief guest Mr Gupta MSMEDI had briefed about the importance of scientific intervention for brass melting furnace. Prof. O.N. Mohanty guest of honour highlighted on the scientific

and technical aspects of heritage metal crafts and cited the role of artisans and scientists for its betterment. The convener Dr. A.K. Chaubey highlighted the importance of improved brass melting furnace and Dr. Y. S. Choudhary, Coordinator CRTDH discussed about the scope of CRTDH for benefit of MSMEs and metal craft artisans.

Go for innovations, IIT-Patna students told

CSIR-CECRI

16th March, 2022

PATNA: Padma Bhushan recipient Dr Krishna M Ella, a well-known scientist and chairperson of Bharat Biotech, on Tuesday said a simple idea can prove to be a milestone in the startup journey and with a technological solution, the entrepreneurs and innovators can solve the upcoming problems of the country.

Addressing the students of IIT-Patna on the concluding day of the three-day workshop on 'Promotion of research innovation in science and technology', Dr Ella emphasized on the importance of research and development, and asked the students to be an innovator. He said budding entrepreneurs could find opportunities in the problems around them. Sharing his journey as an entrepreneur in the early days, the scientist said he created the Bharat Biotech company worth Rs 25,000 crore with zero investment back in 1996-1997. He shared the journey of development of Covaxin by Bharat Biotech. He also highlighted the ways on how one can innovate things in 60 days.

Dr Ella explained that innovation drives higher gross domestic product (GDP) growth and leadership. He said a human can innovate through imagination and knowledge by applying skills. "In the times to come, our country will do exponential work in digital world which will open immense gateways for youths.

The new generation should develop software in different fields and prepare themselves for opportunities," he said. In the second session, professor N S Vyas, programme advisory committee, chairperson of TDP, IIT-Kanpur said premier institutes like IITs receive more than 30 startup ideas every year but only few ideas survive for 1-2 years. "If we talk about longest sustainability, there are very few ideas which emerge as a product startup," he said while asking students to work on any idea before they move ahead with its implementation.

Tata Narsinga Rao, director, Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad and N Kalaiselvi, director, CSIR-CECRI, explained how transforming laboratories can convert research into technology and how that technology can be transferred to the industry.



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