

CSIR in Media



News Bulletin
21st to 28th February 2019



Students visit NML under skill development programme

CSIR-NML



A two day skill training programme on Soft Skills for Quality Improvement (SSQi-2019) has been kick-started by CSIR-National Metallurgical Laboratory, Jamshedpur under the CSIR Integrated Skill Training Initiatives. In 21st century soft skills are regarded as the most crucial element of one's personality. Soft skill not only improves our communication skills but adds to our overall professional performance and personal excellence. It boosts up our confidence and allows focus on the required aspects. It sharpens the leadership qualities and leads our thoughts to achieve the desired goal. To imbibe personal mastery and professional competence, CSIR-NML is

28th February, 2019 organizing this two day skill training programme. The objective of the programme is to create confident individuals with right attitudes in this competitive world to ameliorate all non-cognitive skills like communication, leadership and management etc. CSIR-NML will conduct several training programs under the theme of societal training program (STP) for facilitating job aspirants, prospective entrepreneurs, researchers, professionals, teachers and students. The programme was formally inaugurated by Dr. Rakesh Kumar, Advisor Management CSIR-NML, Jamshedpur. Dr. Rakesh Kumar welcome the participants and appreciated them for coming to CSIR-NML to attend this two day training programme during 27-28 February 2018. He highlighted about the importance of soft skills in everyday life. He mentioned that soft skills are necessary to reach new heights in any field of job. He also appreciated the coordinator and organizing team of the training program for conducting this training so that the all section of the society will get benefit out of it.

Dr. S Tarafder, Head-Materials Engineering Division said that the greatest art of all arts is the ability to communicate. He spoke about the necessity of soft skills besides academic excellence in our careers. Also, he addressed how soft skills will enhance personality and attitude which plays vital role both in personal and professional life. He also added that CSIR-NML would continue doing such activities which adds some value to the society. Dr. Mita Tarafder, Chief Scientist of RPBD and the CSIR-NML Training Coordinator elaborated the objective behind this training program and its benefits. She discussed about the role of soft skills in performing a job interview, doing management assignments and for establishing an entrepreneurship etc in our life. She mentioned that CSIR-NML would like to align the skill training with the Skill India mission of Government and presented how the training programmes can be organizing not only in CSIR-NML but also in the other locations to reach out to a wider section of the society. Around fifty participants from different institutions and academics from in and around the Jamshedpur participated in the programme. From CSIR-NML project staff, research associates and other temporary staff participated. This training programme included various class room sessions, lectures and activities. Around five lectures followed by activities are delivered by the renowned corporate trainer and life coach Ms. Rashmi Saha, Founder of Mukti Mission of Jharkhad. The lectures in two day sessions are “Self realization”, “Creative thinking”, “Conflict Management”, “Leadership”, and “Communication Skill”. On the second day, the session on “Conflict Management” will be taken by Dr Smruti D Patre, Associate Professor of Arka Jain University, Jamshedpur. The valedictory programme of SSQi-2019 will be conducted on 28th February 2019. The participants will be given the certificates of participation and participants will summarize their learning experience. Moreover the feedback of the event will be conducted every day of each activity and lecture from the participants the same will be presented at the penultimate event of the last day. “The greatest invention is language and the greatest art of all arts is the ability to communicate”

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CSIR-NEERI

27th February, 2019

‘Mechanical engineers should help in solid waste segregation management’

TNN | Feb 27, 2019, 06:19 IST

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The two-day national conference on 'Sustainable infrastructure development and management' was inaugurated on Friday

NAGPUR: Skilled mechanical engineers should come forward and give concrete suggestions on segregation of solid waste management of which has become a difficult task, said Rakesh Kumar, director of Council of Scientific and Industrial Research - National Environmental Research Institute (CSIR-Neeri) on Friday.

He was delivering the presidential address at the

inaugural ceremony of a two-day national conference on 'Sustainable infrastructure development and management' (SIDM) at the Physics Assembly Hall of Visvesvaraya National Institute of Technology.

Dearth of disinfection and poor indoor air quality were the two other problems Kumar discussed. He urged the young aspiring minds present at the function to come up with solutions by using renewable resources like solar energy. It has become imperative to strike a balance between the quality of air indoors, human health and productivity, he added.

VNIT chairman Vishram Jamdar, director Pramod Padole, professors of the civil engineering department Rahul Ralegaonkar, Rajesh Gupta and Vasant Mhaisalkar, and organizing secretary of the seminar Mangesh Madurwar were present. They unveiled the conference proceedings and SIDM souvenir.

Addressing the gathering, Jamdar said, “When it comes to infrastructure, we generally mean roads, bridges, power stations and water supply, among others. These are growth engines for the societal needs. However, merely constructing a structure does not serve the nation. Many times, we see that some of the projects can’t be utilized in the long run. This is because the aspect of sustainability had not been considered at that point of time.”

The inauguration ceremony was conducted by associate professor at VNIT Kshitija Kadam. Madhrwar proposed a vote of thanks.

Planners, researchers, academicians, engineers, policymakers, investors, legal and IT solution providers and NGOs have come on a common platform, sharing their experiences and other significant issues.

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[The Times of India](#)

2-day Int'l workshop on 'Waste to Wealth'

CSIR-AMPRI

26th February, 2019

A two-day International Indo-German workshop on Waste to Wealth started at CSIR-AMPRI with much enthusiasm with the support of Indo German Science and Technology Centre. The event was jointly organized by CSIR-Advanced Materials and Processes Research Institute, Bhopal, India, Martin-Luther-Universitat Halle-Wittenberg, Germany and BauMineral GmbH, Germany. About participants were there from different academic institutes, industrial partners from not only India but also abroad. Nine German participants were there. There were three officers from Indian Navy to participate in the event.

AK Srivastava, Director, CSIR-AMPRI in his welcome address remarked that the time has come now to treat waste product as Raw material. Institute's core research areas are very close to Waste to Wealth viz. Red mud, Fly ash, Marble waste, Agro-waste. He further said that it is not possible to take up every activity all alone, hence collaboration is required. He welcomed all the participants and chief guest. He expected to have good joint project proposals as an outcome of this two days workshop. At least titles could be worked which should have interest for both the collaborating partners.

Roshan Pal, Director, Indo German Science and Technology Centre (IGSTC) informed about the various schemes and programs of IGST. He informed that this is the third in the country after Indo - French, Indo -US centre. The operation part of it started in January 2011. He informed about the upcoming calls for the research projects under the theme area, 'Bio economy'. He also informed the priority areas under the theme area viz. Electromobility, Additive manufacturing. He further informed about the program HIPSTER, which is a program for connecting young researchers of India and Germany.

Commodore K Srinivas, Commanding Officer, INS, Shivaji, Indian Navy, Lonawala was the chief guest of the function. Chief guest of the program Commodore K Srinivas, Commanding officer, INS Shivaji, Lonawala appreciated the theme of the workshop for not only India but also it is an important area for the rest of the world.

He appreciated the work being carried out in the direction of waste to wealth at CSIR-AMPRI, Bhopal. Concern for Environment should be of prime importance for all of us. He highlighted the importance of development also.

Published in:
[The Pioneer](#)

ICAR, CSIR to work together in field of food, agriculture

CSIR

26th February, 2019

The Indian Council of Agricultural Research (ICAR) and the Council of Scientific and Industrial Research (CSIR) have agreed to collaborate in the area of food and agriculture.

"Both the sides agreed to collaborate and work together on mutually agreed areas of agri-foods, medicinal and aromatic plants, nutraceuticals, precision agriculture, big data analysis, use of artificial intelligence, genetic modifications in cotton, application of sensors in agriculture, post-harvest management and agricultural mechanisation," ICAR said in a statement.

The huge network of Krishi Vigyan Kendras available with ICAR will be roped in for technology demonstration and dissemination. A memorandum of understanding was signed on Monday by Trilochan Mohapatra, secretary of Department of Agricultural Research and Education and director general of ICAR, and Shekhar C Mande, secretary of Department for Scientific & Industrial Research and director general of CSIR.

A joint working committee will be constituted within a month to deliberate and formulate the collaborative programmes and will meet four times a year. ICAR and CSIR have agreed to form a steering committee to monitor the progress.

Published in:
[Business Standard](#)

Bengaluru: CSIR prepares bio-fuel for IAF, commercial jets

CSIR-IIP



Bengaluru: To replace 10% of the present consumption of fuel in both Indian Air Force and commercial aviation sector, the Council of Scientific & Industrial Research (CSIR), Indian Institute of Petroleum, Dehradun has prepared a bio-fuel for the aviation sector. The government aims to reduce the dependence on fossil fuels by 10% from the current levels by 2022 and the critical challenge for the CSIR was to maintain cost competitiveness and supply reliability. CSIR with Spice Jet conducted a Biofuel Flight on August 27, 2018 and during the Republic Day Parade, the IAF flew a biofuel-powered An-32. "We convert vegetable oil to bio-fuel. It can be used in

25th February, 2019

fighter jets as well. In fact, the IAF has shown a keen interest in the project. The aim is to reduce the import of fuel," said Mr Salim Akhtar Farooqui, a scientist at CSIR. The cost of the bio-fuel is Rs 55-60 a litre, he said. Bio-fuel for jets is made from jatropha seeds obtained from the Chhattisgarh Biofuel Development Authority and processed at CSIR.

The IAF, DRDO and Directorate General Aeronautical Quality Assurance (DGAQA) and CSIR have come together for the project. The technical approval for the 50% biofuel / kerosene mix for aviation fuel in 2011 has resulted in noticeable rapid increase in interest and investment on bio jet fuels.

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Students visit NML under skill development programme

CSIR-NML



A group of 12 diploma students of Mechanical and Electrical branch from Aditya Institute of Technology, Aadityapur accompanied by one teacher Sujay Kumar visited at CSIR-National Metallurgical Laboratory, Jamshedpur and interacted with scientists and research scholars this morning under the aegis of Industry sponsored students-NML Interactive programme (INDSS-NIP). The students were thrilled to visit the laboratory and interact with working group. The working students were affiliated with different industries. The programme was scheduled for two and half hours, which comprised an overview of CSIR and NML, visit to NML

24th February, 2019

selective units of the laboratory to gain an exposure of modern laboratory and research environment. Dr. S.K. Mandal, Chief Scientist and coordinator of the programme has welcome and brief about the programme and discussed about R&D division of CSIR-NML. Dr.P.N. Mishra, Principal Scientist further discussed an overview of CSIR, its contributions in different branches of Science & Technology and role of diploma holder personnel play at the R&D Laboratory. Dr. A.K.Sahu , Sr. Technical officer extend the vote of thanks. S.N. Hembram, Sr. Technical Officer helped students for lab. visit. Students further visited at the creep testing units of MTE Division and knew about fatigue, creep, fractures prevailing in different types of industrial components. Students get exposure of different machine like Servo Hydro Testing Machine, Servo Electrical Machine and furnace. Ashok Mechanical Testing Division, has nicely explained forging, shaping and rolling machine, wire Drawing Machine, students asked few question and responded accordingly.

Students appreciated the facilities available at Engineering Workshop. They gained working knowledge of different kind of machine like lath machine, Shaper Machine, Semi-Automatic Bandsaw Machine, Pillar Drilling Machine, Hydraulic Surface Grinding Machine, Universal Milling Machine etc. They minutely observed the preparation of sampling for the specimen recently received at CSIR-NML from the India Railway.

The programme was concluded after the visit of NML Museum, Students were surprised to have a glance on NML achievement by observing through samples and posters pertaining to minerals based product and facilities and invention.

During the interactive session, number of students asked different questions on minerals, ores, origin of coal, the evolutionary history behind the formation of metal etc. Teacher and students requested for their next visit to the laboratory to gain more knowledge. At last, teachers acknowledged and extend thanks to CSIR-NML authorities for providing opportunity to visit NML and observe various facilities.

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[Avenue Mail](#)

Waste management be given industrial status: Expert

CSIR-IICT



The biogenic waste which is generated in enormous quantity in India can be considered as potential feedstock for structuring the biobased economy, said by CSIR Indian Institute of Chemical Technology IICT Bioengineering and Environmental Sciences Lab Principal Scientist Dr S Venkata Mohan here on Friday at GITAM Deemed to be University Inaugurating the two-day national conference “BIOINNVIDA-2019” organised by Biotechnology Department, he said that India produces 62 MT of solid waste per year but only 12 MT was treated. Stating that the country has so far realised only about 2 per cent of its waste-to-energy

23rd February, 2019

potential, he informed that 50 per cent of expensive e-waste goes out of India every year to extract gold, silver, platinum and other expensive materials out of it and sold back to India at 50 per cent higher rates. He pointed out that waste management industry in the country was untapped and limited to 4.3 billion \$ but has potential to be worth 13 billion \$ by 2025 with annual growth rate of 7.17 per cent. He observed that fragmented waste management industry needs to be given industrial status to explore sector in organised manner. He informed that CSIR-IICT, Hyderabad has developed a 10m³ biohydrogen pilot plant facility which can handle biogenic waste. GITAM Institute of Technology Principal Prof K Lakshmi Prasad said that environmental biotechnology and medical biotechnology were emerging rapidly.

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[The Hans India](http://www.thehansindia.com)

Experts brainstorm on 'Recent Developments in Mineral Processing'

CSIR-NML

22nd February, 2019



Jamshedpur : The Microsymposium on 'Recent Developments in Mineral Processing and Mechanical Activation of Solids', organised by Material Research Society of India (MRSI) Jamshedpur Chapter in association with CSIR-National Metallurgical Laboratory and Indian Institute of Mineral Engineers (IIME) Jamshedpur Chapter kicked off today at CSIR-NML. The focus of this one day Microsymposium is the recent advances in the area of mineral and materials processing. The programme started with lightening the ceremonial lamp by Dr. Indranil Chatteraj, Director, CSIR-NML, Jamshedpur and Dr. A.K. Mukherjee,

Vice-President, IIME Jamshedpur Chapter & Head Raw Materials, Tata Steel. Prof. Indranil Manna, AJC Bose Fellow & Institute Chair Professor, Indian Institute of Technology, Kharagpur, are Prof. M. Senna, Keio University, Japan, Dr. S. Srikanth, Former Director, CSIR-NML, Dr. Sanjay Kumar, CSIR-NML, Dr. T.C. Alex, Convener of the programme were present during the function. To mark the occasion, a Souvenir of Microsymposium was also released. While welcoming the gathering, Dr. Indranil Chatteraj said, "the microsymposium mainly consists of lectures by experts in the field from India and Abroad. The authors are Prof. M. Senna (Keio University, Japan), Prof. I. Manna (Indian Institute of Technology Kharagpur), Dr. S. Srikanth (Former Director, CSIR-National Metallurgical Laboratory, Jamshedpur) Prof. S. Subramanian (Indian Institute of Science, Bangalore), Prof. C. Sasikumar (Maulana Azad National Institute of Technology, Bhopal), Mr. Santosh Daware (Tata Research Development and Design

Centre, Pune) and Dr. Sanjay Kumar (CSIR-National Metallurgical Laboratory, Jamshedpur). Besides oral presentations from these invited speakers, posters were also presented by the authors. Around 60 delegates are from different parts of India participated and seven invited speakers deliberated in the three technical sessions today. The delegates are from IIT Kharagpur, CSIR-IMMT, Tata Steel, Ashapura Minerals, Govt. College of Engineering & Ceramic Technology, Kolkata, MNIT, Bhopal, CSIR-NML, TRDDC Pune, CIMFR Dhanbad, and many CSIR laboratories, engineering colleges and industries.

Prof. M. Senna, Keio University, Japan said, “Mechanochemistry is a branch of chemistry like electrochemistry or photochemistry. By starting from the basics of solid-state chemical processes, the definition, concepts, particularities, and technological benefits of mechanochemistry are explained”.

Dr. S. Srikanth, Former Director, CSIR-NML, briefed his Affair with Mechanochemistry of Solids and shared research experience with delegates. Prof. Indranil Manna emphasized on the investigations concerning nanometric materials synthesized by mechanical alloying covering various aspects of size dependent phase transition and structural and functional applications.

Dr. T.C. Alex, Principal Scientist & Convener proposed the vote of thanks and expressed his sincere gratitude to the dignitaries for sparing time and gracing the occasion. He expressed his appreciation to all the members of the organising committee for their untiring effort in making the microsymposium a success. The microsymposium also commemorated the contributions of Dr. Rakesh Kumar who is a well-known expert in this field.

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Bharat Electronics unveils Atmospheric Water Generator at Aero India 2019

CSIR-IICT

21st February, 2019

Bharat Electronics has unveiled its new product, the Atmospheric Water Generator (AWG), an innovative solution to meet the ever-increasing need for drinking water worldwide, at Aero India 2019. BEL's Atmospheric Water Generator can be used to generate water straight from the humidity present in the atmosphere.

BEL's Atmospheric Water Generator employs a novel technology to extract water from the humidity present in the atmosphere and purify it. It uses heat exchange for condensing the atmospheric moisture to produce pure, safe and clean potable water.

The AWG comes with a Mineralisation Unit, which is used to add minerals which are required to make the water potable. The AWG is configurable in static and mobile (vehicular) versions and is available in 30 litres/day, 100 litres/day, 500 litres/day and 1,000 litres/day capacities.

The Atmospheric Water Generator is being manufactured by BEL in collaboration with CSIR-IICT and MAITHRI, a start-up company based in Hyderabad. It is on display at the BEL stall at Hall-E at Aero India 2019. BEL has, as part of the Government of India's Start-up India Initiative, extending its support to start-up Companies.

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CSIR-CMERI

21st February, 2019

सीएसआईआर-सीएमआईआरआई दुर्गापुर में जल शोधन पर उभरते प्रौद्योगिकी विषय पर कार्यशाला

दुर्गापुर (आवाज संवाददाता) : सीएसआईआर-सीएमआईआरआई, दुर्गापुर में जल शोधन पर उभरते प्रौद्योगिकी विषय पर कार्यशाला का आयोजन मंगलवार को किया गया। जिसका उद्घाटन सीएसआईआर-सीएमआईआरआई, दुर्गापुर के निदेशक प्रो. डा. हरीश हिरानी, अधीक्षण अभियंता, सेंट्रल सर्कल, पीएचई (पश्चिम बंगाल सरकार) सुकुमार दास और अधीक्षण अभियंता, पीआईयू बांकुड़ा, पीएचई (पश्चिम बंगाल सरकार) सुजय बाउरी ने संयुक्त रूप से किया। कार्यशाला में पश्चिम बंगाल सरकार के लोक स्वास्थ्य यांत्रिकी विभाग के अभियंताओं के अलावा प्रखंड विकास अधिकारियों ने भाग लिया। डॉ. हरीश हिरानी ने अपने स्वागत भाषण में सभी स्थानीय प्रशासनिक और तकनीकी अधिकारियों का स्वागत किया और अपनी भावना व्यक्त की। उन्होंने कहा कि पानी का उपयोग हमारे शुरुआती युग में एक औषधि के रूप में माना जाता था लेकिन भू, सतही और उप-सतही जल के प्रदूषण के कारण हमें पानी को हमेशा



के लिए शुद्ध बनाने के लिए विज्ञान की आवश्यकता है। उन्होंने यह भी बताया कि जल के प्रदूषण का एक बड़ा कारण सॉलिड वेस्ट का कचड़ा है, जो लीचिंग की रासायनिक प्रक्रिया के माध्यम से पानी की गुणवत्ता को प्रभावित करता है। सीएसआईआर-सीएमआईआरआई ने इस मुद्दे

को नगरपालिका ठोस अपशिष्ट प्रबंधन संयंत्र के विकास के माध्यम से प्रस्तुत किया है। जो एमएसडब्ल्यू को मूल्यवान ऊर्जा संसाधनों में परिवर्तित करेगा। इसके अलावा सीएसआईआर-सीएमआईआरआई ने आयरन, आर्सेनिक और फ्लोराइड रिमूवल प्लांट भी विकसित किए हैं, जिसमें अवशेषों को भी

ठीक से उपचारित किया जाएगा और भविष्य में होने वाले प्रदूषण को रोकने के लिए ईंटों में परिवर्तित किया जाएगा। इस मौके पर सम्मानीय अतिथि के तौर पर सुकुमार दास और सुजय बाउरी दोनों ने कैलिबर और मोमेंटम के इस कार्यशालाओं की सराहना की। सुजय बाउरी ने सभी सीएसआईआर-सीएमआईआरआई विकसित प्रौद्योगिकियों के वितरण-क्षमता को प्रदर्शित करने के लिए पायलट प्लांट की स्थापना के लिए सभी आवश्यक सहायता प्रदान करने की इच्छा व्यक्त की। उन्होंने इस इवेंट को एक सुंदर कार्यशाला के रूप में वर्णित किया और कहा कि प्रो. हिरानी का विजन सरकार के विजन 2020 के लिए एक पूरक है। कार्यशाला में सहभागी अधिकारियों द्वारा इंटरैक्टिव सत्र, प्रेस कॉन्फ्रेंस और लैब का दौरा किया गया। सहभागी सत्र को उपस्थित लोगों द्वारा बहुत ही उपयोगी और वास्तविक जीवन परिदृश्यों के रूप में वर्णित किया गया और व्यावहारिक कार्यान्वयन रणनीतियों पर चर्चा की गई।

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