

CSIR in Media



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News Bulletin

1st to 9th July 2018



CSIR

9th July, 2018

India, South Korea sign five MoUs in Science & Technology



New Delhi, July 9 (UNI) India and South Korea on Monday signed five Memorandum of Understandings (MoUs) in the field of Science and Technology, an official release said here.

The MoUs were signed by the Union Minister for Science & Technology, Dr Harsh Vardhan and his South Korean counterpart Mr You Young Min.

Three MoUs are for Programme of

Cooperation 2018-21, Establishment of Future Strategy Group, and Cooperation in Biotechnology and Bio-economy.

The MoU on Establishment of Future Strategy Group was signed by Science & Technology and Commerce Ministers, while on the Korean side, it was signed by Science and ICT and Trade Ministers.

Two other MoUs were signed between Council of Scientific and Industrial Research (CSIR), and South Korean National Research Council for Science and Technology and IIT Mumbai and Korea Institute of Science and Technology, to further accelerate future-oriented cooperation in their respective sectors.

These MoUs were signed at the conclusion of the 4th India-Korea Science and Technology Ministers Steering Committee Meeting.

Mr You Young Min is part of the official delegation accompanying South Korean President Moon Jae-in who arrived in New Delhi on Sunday on a three-day visit.

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IGIB find ways to reduce TB's tissue-damaging effects

CSIR-IGIB

9th July, 2018



Foamy macrophages show more inflammatory response than normal ones, say Sheetal Gandotra (left) and Neetika Jaisinghani.

Macrophages do not show any inflammation till they are TB-infected

It is generally believed that TB bacteria make the host cells accumulate triglyceride and become lipid-rich as bacteria prefer lipids for their nutrition. Now, using human macrophage cells researchers at the Institute of Genomic and Integrative Biology (CSIR-IGIB) have shown that when TB-infected macrophages undergo necrosis (where the cell ruptures when it dies) lipids and bacteria contained in the cells are released.

The neighbouring cells — both healthy and TB-infected — take up the lipids thus leading to lipid accumulation. “Our study brings a new facet to the way the field has been thinking about pathogenesis where it was believed that because the bacteria prefer lipids for their nutrition, they make the host cell become lipid-rich. Our work points to the relevance of the incident pathology — necrosis in a granuloma result in the development of lipid-rich foamy macrophages [presence of cells with large lipid-filled vacuoles],” says Dr. Sheetal Gandotra from the Cardio Respiratory Disease Biology Unit at IGIB and corresponding author of a paper published in the journal *Frontiers in Immunology*. The ability to induce necrosis is peculiar to virulent TB bacteria. The avirulent *Mycobacterium bovis* strain used in BCG vaccine is unable to cause necrosis; it triggers a programmed cell death (apoptosis) instead. Like the BCG strain, TB mutants that lack the capacity to induce necrosis also

lack the associated capacity to induce necrosis-induced triglyceride accumulation in neighbouring cells. When macrophages encounter TB bacteria they mount an inflammatory response wherein certain factors are secreted to help recruit other cells of the immune system to kill the bacteria. “For the first time we reported that foamy macrophages showed more inflammatory response than normal macrophages,” says Dr. Neetika Jaisinghani from IGIB and first author of the paper. As a result of the inflammatory response more macrophages are recruited to the site of infection thus exposing them to infection. “So it sets off a positive feed-forward loop such that the inflammatory response gets amplified,” says Dr. Gandotra. To understand the role of excess lipids in host defence strategies, the researchers added uninfected necrotic cells to macrophages that were not infected with TB bacteria. Even these healthy macrophages stored lipids from the dying cells in the form of triglycerides. The macrophages were foamy but not infected. “These macrophages did not show any inflammation till such time they were infected with TB bacteria,” says Dr. Gandotra. Human blood monocyte-derived macrophages, too, showed increased inflammatory response when triglyceride accumulation was increased. Central to the storage of triglycerides in macrophages is the DGAT1 enzyme (diacylglycerol o-acyltransferase). When the DGAT1 gene is silenced in the macrophage cell lines, the macrophages’ ability to accumulate triglycerides is compromised. “Our studies show that macrophages made to store triglyceride in response to necrosis are able to mount a higher level of the inflammatory response, and if we deplete the levels of the DGAT1 enzyme, the inflammatory response of these macrophages to infection is suppressed,” Dr. Gandotra says. “Inhibitors are available against this enzyme and we plan to undertake preclinical studies.” While the ability of the host to inhibit TB infection might not be compromised, the tissue-damaging effects of inflammation may be reduced by inhibiting the ability of the macrophages to accumulate lipids. “The work brings out the importance of the role of host lipid metabolism in increasing inflammation by foamy cells during infection, thereby bringing metabolism into perspective as a potential target for TB therapy,” Dr. Gandotra says. “Currently, all anti-TB drugs are antimicrobials and don’t help in improving the respiratory health of TB patients, which is compromised.

We are hoping that our research may help in finding a promising target to reduce inflammation in TB patients,” says Dr. Jaisinghani.

The role of lipids in altering the immune state in non-infectious metabolic disorders such as obesity is well known. But this study for the very first time reports the role of triglyceride metabolism in altering the immune state during infection.

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[The Hindu](#)

NVIDIA and CSIR-CEERI Sign an MoU to Establish Coe for Development of Intelligent Systems

CSIR-CEERI

6th July, 2018

Delhi: The Central Electronics Engineering Research Institute (CEERI) and NVIDIA today announced the CEERI- NVIDIA Centre of Excellence (CNCoe). The CNCoe will house a high-throughput artificial intelligence (AI) computing infrastructure that can be leveraged by CSIR (Council of Scientific and Industrial Research) Laboratories, in collaboration with public and private organizations and industries across the country, to conduct research and development.

The CNCoe is currently powered by five NVIDIA DGX-1 AI supercomputers, providing a purpose-built deep learning development platform based on NVIDIA Tesla V100 GPU accelerators. The system gives researchers access to NVIDIA's new Tensor Core architecture and a complete deep learning stack with optimized versions of today's most popular frameworks. The centre also supports a complete design and implementation environment for the development of AI applications on Embedded Platforms.

This centre at CEERI will provide a unique opportunity to the Indian industry to develop novel AI applications by exploiting multi-disciplinary domain knowledge of CSIR's 4000-plus active scientists spread over 38 dynamic national laboratories covering a wide spectrum of specialisations in science and technology. This unprecedented resource can accelerate the development of AI systems in India in fields from oceanography, geophysics, chemicals, drug design, genomics, healthcare, biotechnology and nanotechnology to mining, aeronautics, instrumentation, agriculture, environmental engineering and information technology. This centre is an outcome of the CSIR's mission mode project on Intelligent Systems.

“This centre will provide a unique platform for developing AI systems to solve some of the critical problems in healthcare, natural resource management, food production, security and transportation by exploiting multi-dimensional knowledge base available with CSIR and other research organizations in the country. The industry can use this facility to develop AI based products supporting the Make in India initiative of the government, This CNCoE has the potential to usher in a culture of AI based innovations in a variety of application domains,” said Prof. Santanu Chaudhury, Director, CSIR-CEERI

“The application of AI across sectors is rapidly rising worldwide, and India stands to gain considerably through the right mix of technology, expertise, innovation, and organizational impetus,” said Vishal Dhupar, Managing Director, NVIDIA South Asia. “This CNCoE is significant because it brings together NVIDIA’s cutting-edge AI platform with vast industrial scientific research expertise and capability from CSIR-CEERI. This combination will enable researchers and industry across the country to advance their AI systems development.”

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[Economics Time](#)

CSIR-IMTECH inks pact with Zydus Cadila

CSIR-IMTECH

6th July, 2018

Drug firm Zydus Cadila today said it has inked an agreement with the Council of Scientific and Industrial Research (CSIR) - Institute of Microbial Technology - to identify new drug candidates for treatment of drug resistant infections.

The collaborative research agreement will see scientists from both organisations working together on microbiology and genomics to identify a new lead candidate as a novel anti-tuberculosis compound, Zydus Cadila said in a filing to the BSE.

Commenting on the development, Zydus Cadila Chairman Pankaj Patel said: “We are committed to support the End TB Strategy.” Given the vast scientific experience of the CSIR-Institute of Microbial Technology (IMTECH) in microbial-related research, and Zydus’ expertise in drug discovery and development, “we welcome this opportunity to partner with CSIR-IMTECH and hope to deliver new therapies for the nation,” he added.

A positive outcome from such collaborative efforts could define the way drug discovery would be carried out in future in India via public-private partnerships, the statement said. For this project, scientists at IMTECH would utilise their expertise and scientific knowledge in microbiology, while Zydus Cadila will provide expertise in medicinal chemistry and pharmaceutical drug development to develop new drug combinations against drug-resistant pathogens, which causes severe diseases in India and across the world, it added.

Published in:
[Business Line](#)

एनएमएल जमशेदपुर में बिहाइंड द टीचर डेस्क **सेमिनार** का आयोजन नये मेटेरियल के विकास में मशीन लर्निंग की भूमिका अहम होगी, कम्प्यूटर निर्णायक होगा

सिटी रिपोर्टर • जमशेदपुर

राष्ट्रीय धातुकर्म प्रयोगशाला (एनएमएल) जमशेदपुर और इंडियन इन्स्टीट्यूट ऑफ मेटल्स (आईआईएम) के जमशेदपुर चैप्टर के संयुक्त तत्वावधान में गुरुवार को बिहाइंड द टीचर डेस्क (बीटीटीडी-2018) नामक दो दिवसीय सेमिनार का शुभारंभ हुआ। मेटलर्जिकल इंजीनियरिंग विद्यार्थियों के लिए आयोजित इस सेमिनार का उद्घाटन ऊषा मार्टिन के प्रेसीडेंट (वर्क्स) और प्रमुख स्टील बिजनेस देवाशीष मजूमदार ने किया।

संस्थान के चीफ साइंटिस्ट और एडवाइजर डॉ.एसके दास ने बताया कि इस सेमिनार में देश भर के 35 इंजीनियरिंग कॉलेजों के 100 से ज्यादा स्टूडेंट्स भाग ले रहे हैं। उन्होंने बताया कि इस सेमिनार का मकसद देश भर के मेटलर्जिकल इंजीनियरिंग छात्रों को एक प्लेटफॉर्म देना है ताकि वे इस क्षेत्र में हो रहे नये शोध को एक दूसरे के संग बांट सकें। दास ने इंटीग्रेटेड कम्प्यूटेशनल मेटेरियल्स इंजीनियरिंग (आईसीएमई) के महत्व पर प्रकाश डाला और बताया कि मशीन लर्निंग तकनीक भविष्य के नये मेटेरियल्स के विकास में अहम भूमिका निभाने जा रहा है।

मुख्य अतिथि ऊषा मार्टिन लिमिटेड के प्रेसीडेंट (वर्क्स) देवाशीष मजूमदार ने सेमिनार में इंजीनियरिंग विद्यार्थियों को सक्रिय भागीदारी की सराहना की। उन्होंने युवा धातु कर्मियों को इंडस्ट्री की जरूरत के बारे में बताया। मजूमदार ने मेटलर्जिकल इंडस्ट्री में कम्प्यूटर और इंटरनेट की भूमिका को बताया और कहा कि आने वाले समय में यह क्षेत्र पूरी तरह से बदल जाएगा। उन्होंने कहा कि इस क्षेत्र में अपना अस्तित्व बचाए रखने के लिए सीखने की ललक जरूरी है। आईआईएम जमशेदपुर चैप्टर के सेक्रेटरी डॉ.एन भगत ने

देश के 30 इंजीनियरिंग कॉलेज के 100 स्टूडेंट्स कर रहे शिरकत



राष्ट्रीय धातुकर्म प्रयोगशाला जमशेदपुर और इंडियन इन्स्टीट्यूट ऑफ मेटल्स जमशेदपुर चैप्टर द्वारा आयोजित सेमिनार में उपस्थित अतिथि।



राष्ट्रीय धातुकर्म प्रयोगशाला के सेमिनार में उपस्थित छात्र-छात्राएं।

इन संस्थानों के छात्र हो रहे शामिल

अन्या यूनिवर्सिटी कॉलेज ऑफ इंजीनियरिंग, बीआईटी तिरुवेरी, सेन्ट्रल यूनिवर्सिटी ऑफ इमारकांड, महाराज सयाजीराव यूनिवर्सिटी ऑफ बडोदा, आईआईएस्टी शिबपुर, आईआईटी भुवनेश्वर, आईआईएम पल्लव, आईआईटी राइसपुर, आईआईटी रुड़की, इंदिरा गांधी इन्स्टीट्यूट ऑफ टेक्नोलॉजी सरंग, इंडस इन्स्टीट्यूट ऑफ टेक्नोलॉजी एंड इंजीनियरिंग, जादवपुर यूनिवर्सिटी, जवाहर लाल नेहरू टेक्नोलॉजिकल यूनिवर्सिटी, एनआईटी जयपुर, गेरुवल इन्स्टीट्यूट ऑफ फाउंड्री एंड फोर्ज टेक्नोलॉजी हरिया (रांची), एनआईटी सूरतकल, एनआईटी त्रिची, एनआईटी भोपाल, एनआईटी दुर्गापुर, एनआईटी जमशेदपुर, एनआईटी लखनौ, एनआईटी रायपुर, एनआईटी राउरकेला, नेताजी तुंगभ इन्स्टीट्यूट ऑफ टेक्नोलॉजी, आईआईटी रोपड़

बताया कि इस सेमिनार में इंजीनियरिंग के विद्यार्थियों के साथ इंडस्ट्री और एकेडमिया के विशेषज्ञ एक मंच पर होते हैं। आईआईएम जमशेदपुर चैप्टर की कोशिश है कि सीखने की प्रक्रिया में जो भी शोयरधारक हैं, उनमें बेहतर संवाद की स्थिति

हो, ताकि वे नये बदलाव से रूबरू हो सकें। भगत ने बताया कि इसके लिए इंडस्ट्री प्रोब्लम सोल्विंग कॉन्टेस्ट का आयोजन किया गया है, ताकि विद्यार्थियों के इनोवेशन को जाना और परखा जासके। इस सेमिनार के संयोजक अशोक कुमार

ने इस सेमिनार के लिए एनएमएल के निदेशक डॉ.इन्द्रनील चट्टोपाय को धन्यवाद दिया, जिनकी बढ़ावा यह सेमिनार आयोजित हो सका। सेमिनार के दूसरे दिन स्टूडेंट्स ऊषा मार्टिन कंपनी का दौरा करेंगे।

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Dainik Bhaskar, Page no. 2

CSIR-CCMB

5th July, 2018

iZIM2018 begins; Scientists to use Zebrafish as a model system for Research

Hyderabad, Jul 5 (UNI) The four-day iZIM2018 (Indian Zebrafish Investigators Meeting) now underway at the CSIR-Centre for Cellular and Molecular Biology (CCMB), here, has brought together all the Indian scientists who use Zebrafish as a model system for research.

More than 100 scientists and students from research institutes, universities and colleges across India are participating in the conference organized by the CCMB.

The scientific talks and presentations by participating scientists and students involved in a wide range of research fields including developmental biology, disease biology, cognition and behavioural studies, Dr Prakash Mishra, CCMB Director, told reporters on Thursday.

He said special workshops on emerging new technologies in Zebrafish biology and how Zebrafish could be used as model in biomedical were some of the highlighted sessions in the conference.

In addition, technical workshops on zebrafish imaging, housing, husbandry and colony management also formed part of the conference.

The zebrafish is widely used model organism for biological research in the fields of molecular biology, developmental biology, genetics, oncology and neurobiology, Dr Mishra said.

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CSIR-CSMCRI

6th July, 2018

WASTE TO WEALTH

CSIR-CSMCRI technology converts distillery waste to fertiliser

Distilleries generate 10-15 litres of wastewater or spent-wash while producing a litre of alcohol by fermentation of sugarcane molasses. There are almost 300 molasses-based distilleries in India producing 2.5-2.6 billion litres of alcohol annually, and in doing discharging 30-35 billion litres of spent-wash that can contaminate surface and ground water.

The CSIR-Central Salt & Marine Chemicals Research Institute (CSMCRI), Bhavnagar, has now developed a process to separate the main source of pollution – potash and biodegradable organic matter – from distillery spent-wash. While helping distilleries comply with the Central Pollution Control Board's mandated Zero Liquid



Discharge (ZLD) action plans, this technology will also meet up to a tenth of India's potassium-based fertilizer requirements, now entirely met through imports. It will also encourage more distilleries to come up and produce ethanol for blending with petrol, cutting the country's oil import bill and bringing sugarcane growers better returns.

The technology employs a coagulation process to separate complex organic compounds from spent-wash. According to CSIR-CSMCRI, the process yields 10-tonnes of complex organics, 2.5-tonnes of potassium nitrate and 75,000-80,000 litres of recycled water from every 100,000-litres of spent-wash.

CSIR-CSMCRI has already filed a patent and is deploying the technology in collaboration with Chem Process Systems Pvt. Ltd., an Ahmedabad-based firm. The first full-fledged commercial plant using the technology is expected to be commissioned by Aurangabad Distillery Ltd. at Walchandnagar, Maharashtra soon.

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Chemical Weekly, Page no. 148

अत्याधिक दोहन से जलवायु परिवर्तन और भूमि कटाव की आ रही समस्या : डॉ. पालनी

हिमालय जैवसंपदा प्रौद्योगिकी संस्थान ने मनाया 36वां स्थापना दिवस

भास्कर न्यूज़ | धर्मशाला

सीएसआईआर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान ने सोमवार को 36वां स्थापना दिवस मनाया। जैवविविधता जीवन है और जैवविविधता हमारा जीवन है विषयक अपने संभाषण संबोधन में डॉ. लोकमन पालनी ने बताया कि जैवविधिता ही जीवन का आधार है। इस धरा में संतुलन जैवविधिता की ही देन है। उपलब्ध संसाधन बहुत पर्याप्त हैं। मनुष्य की सभी आवश्यकताएं पूरा करने में यह धरा सक्षम है। परन्तु मनुष्य के लालच के कारण संसाधनों के अत्याधिक दोहन से वैश्विक स्तर पर बहुत सी समस्याएं आ रही हैं। जिसमें भूमि कटाव, संसाधनों का अत्याधिक दोहन, जलवायु परिवर्तन प्रमुख हैं, लेकिन इन्हें बचाने के प्रयास तो करने



डॉ. लोकमन पालनी को सम्मानित करते निदेशक डॉ. संजय कुमार।

ही होंगे। प्रकृति में एक दूसरे की आवश्यकता है। यदि हम रसायनों से कीटों को मार देंगे तो परागण कैसे होगा। प्रकृति में ऐसी बहुत सी बातें हैं जिन्हें हमें समझना होगा। परन्तु आज हम उन परम्पराओं को भूलते जा रहे हैं जो कि भविष्य में हमारे लिए बहुत अधिक समस्या पैदा कर सकता है। हम सभी को अपने स्तर पर जैवविविधता संरक्षण के लिए प्रयास करने चाहिए। उन्होंने आए हुए छात्रों को संबोधित करते हुए बताया कि जीवन में आगे बढ़ने के लिए सपने देखना आवश्यकता है लेकिन उन सपनों को पूरा करने के लिए मेहनत भी करनी होगी।

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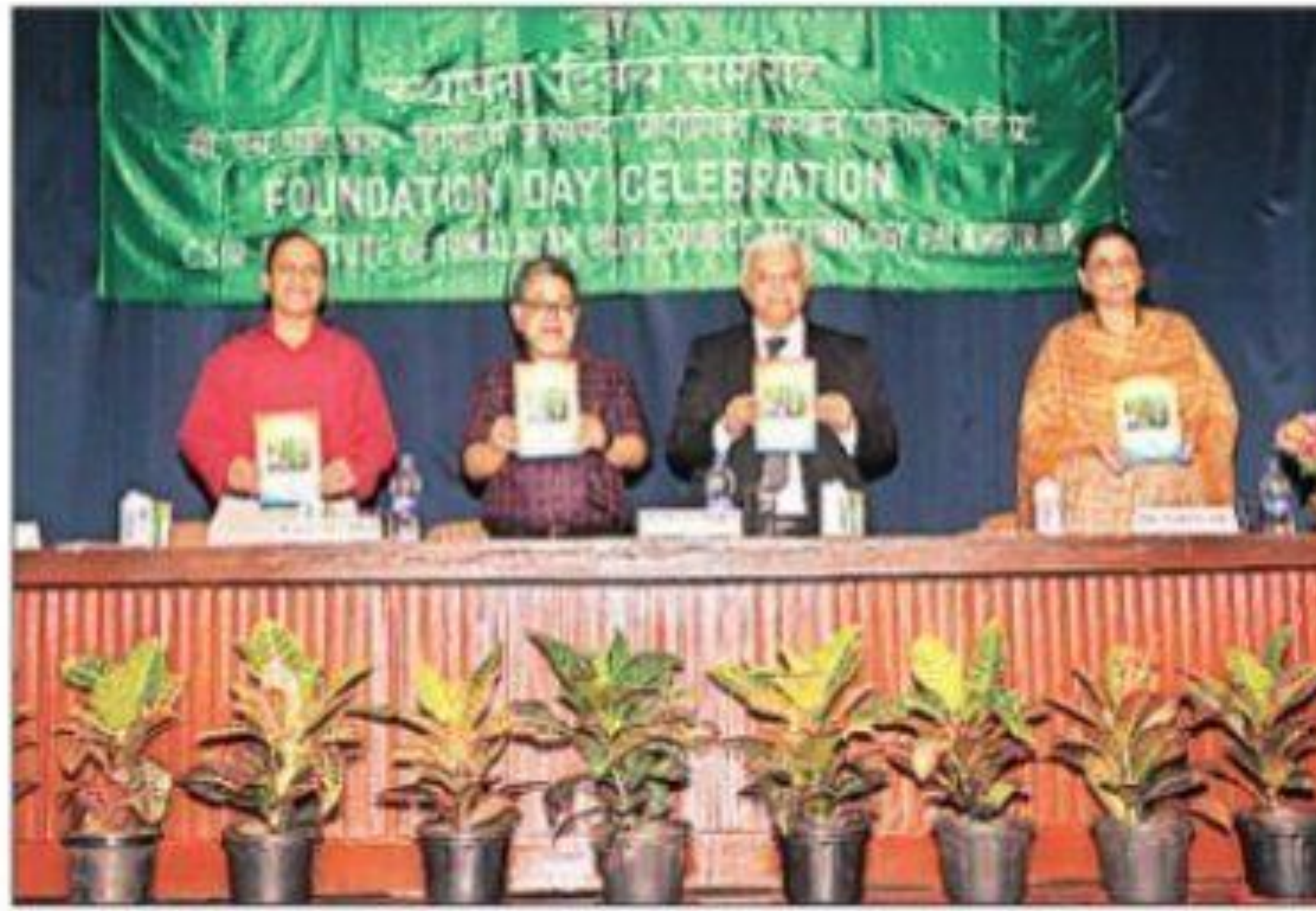
CSIR-IHBT

2nd July, 2018

धरा में संतुलन जैवविधिता की देन : डा. पालनी

▶▶ सीएसआईआर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान ने मनाया 36वां स्थापना दिवस

पालमपुर, 2 जुलाई (जसवंत कठियाल): सीएसआईआर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान पालमपुर ने सोमवार को अपना 36वां स्थापना दिवस मनाया। प्रमुख जैव प्रौद्योगिकीविद् डॉ. लोकमान सिंह पालनी, कुलपति ग्राफिक इरा विश्वविद्यालय, देहरादून और पूर्व निदेशक गोविन्द बल्लभ पंत राष्ट्रीय हिमालयी पर्यावरण एवं सतत विकास संस्थान, अल्मोड़ा इस समारोह के मुख्यातिथि एवं वक्ता के रूप में उपस्थित हुए। जैवविधिता जीवन है और जैवविधिता हमारा जीवन है विषयक अपने संभाषण संबोधन में डा. पालनी ने बताया कि जैवविधिता ही जीवन का आधार है। इस धरा में संतुलन जैवविधिता



सीएसआईआर स्थापना दिवस के मौके पर मुख्यातिथि ब्रोसर तथा किताब का विमोचन करते हुए।

की ही देन है। उपलब्ध संसाधन बहुत पर्याप्त हैं। मनुष्य की सभी आवश्यकताएं पूरा करने में यह धरा सक्षम है। परंतु मनुष्य के लालच के कारण संसाधनों के अत्याधिक दोहन से वैश्विक स्तर पर बहुत सी समस्याएं आ रही हैं। जिसमें भूमि कटाव, संसाधनों का अत्याधिक

विवरणिका का विमोचन व संस्थान गान का किया लोकार्पण

स्थापना दिवस आयोजन के अवसर पर मुख्यातिथि द्वारा संस्थान की विवरणिका, क्रिस्पी फ्रूट व कांगड़ी धाम पर दो ब्रोशर तथा संस्थान की वनस्पतियों एवं उपयोग के संग्रह युक्त एक पुस्तिका का विमोचन भी किया गया। इस अवसर पर संस्थान गान का लोकार्पण भी किया गया। संस्थान द्वारा दो समझौता ज्ञापनों पर भी हस्ताक्षर किए गए। इस समारोह में केन्द्रीय विद्यालय, अलहिलाल तथा आर्मी स्कूल, योल के विद्यार्थियों ने संस्थान का दौरा किया। इसका उद्देश्य वैज्ञानिक छात्रों के संपर्क को बढ़ावा देने और युवाओं में वैज्ञानिक प्रवृत्ति को बढ़ावा देना था। संस्थान द्वारा विकसित उत्पादों और प्रौद्योगिकियों को प्रदर्शित करने के लिए एक प्रदर्शनी भी आयोजित की गई।

देहन, जलवायु परिवर्तन आदि प्रमुख हैं, लेकिन इन्हें बचाने के प्रयास तो करने ही होंगे। प्राचीन काल से ही वृक्ष एवं पौधों का पूजन आदि का महत्व बताया जाता था। प्रकृति में एक-दूसरे की आवश्यकता है। यदि हम रसायनों से कीटों को मार देंगे तो परागण कैसे होगा।

प्रकृति में ऐसी बहुत सी बातें हैं जिन्हें हमें समझना होगा। परंतु आज हम उन परम्पराओं को भूलते जा रहे हैं जो कि भविष्य में हमारे लिए बहुत अधिक समस्या पैदा कर सकता है। हम सभी को अपने स्तर पर जैवविधिता संरक्षण के लिए प्रयास करने चाहिए। इस अवसर पर कृषि विश्वविद्यालय, पालमपुर के कुलपति डा. अशोक कुमार सरियाल, पूर्व कुलपति डॉ. एस्के शर्मा एवं विभिन्न वैज्ञानिक संस्थानों के वैज्ञानिक, छात्रों, उद्यमियों, प्रमुख नागरिकों और मीडिया प्रतिनिधियों ने सुशोभित किया। संस्थान के निदेशक डा. संजय कुमार ने संस्थान की शोध एवं विकास गतिविधियों पर प्रकाश डाला।



CFTRI Scientist Receives National Fellowship

CSIR-CFTRI

2nd July, 2018



Mysuru: Dr. Navin Kumar Rastogi, Chief Scientist & Head, Department of Food Engineering at CSIR-Central Food Technological Research Institute (CFTRI), Mysuru, has been conferred with the Fellowship of prestigious National Academy of Agriculture Science (NAAS). He received the Fellowship from Prof. Punjab Singh, President of the Academy, at the 25th Annual General Body Meeting held in New Delhi recently. The National Academy of Agriculture Science annually accords Fellowships to scientists who have outstanding achievements and sustained significant contributions to Agriculture

Sciences. Dr. Rastogi has been bestowed the honour for his contributions in the area of Agriculture Engineering and Technology. Besides more than 160 research papers and reviews in international journals, 17 patents and a number of awards and Fellowships to his credit, Dr. Rastogi has contributed to the growth of food processing industries through development of novel products and processing technologies. His contribution in developing products such as coconut milk powder, virgin coconut oil, beverages from tender coconut and fruit spreads have earned him applause from the industrialists.

His efforts in adopting emerging technologies such as high pressure processing, high electric pulse field, membrane and irradiation technology for food processing are also significant.

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Students of Baldwin School visits NML

CSIR-NML

1st July, 2018



Jamshedpur : A group of 64 students from Baldwin Farm Area School, Kadma accompanied by three teachers, Shadashiv Sahu, Uma Mahato and Sangita Dutta visited CSIR-National Metallurgical Laboratory, Jamshedpur and interacted with scientists and research scholars in this morning under the Gigyasa programme, jointly collaborated by Ministry of HRD, Govt. of India and the Council of Scientific & Industrial Research, New Delhi. The students were thrilled to visit the laboratory and interact with different working group. The programme was scheduled for a duration of two and half

hours. Brief up about CSIR and NML, documentary film show and laboratory visits was included. Dr.P.N.Mishra, Principal Scientist, delivered welcome address and brief up about the programme, its contributions in different branches of Science & Technology, relevance and application of natural resources such as ores, minerals and various kinds of rocks. Dr. S.K.Mandal , Chief Scientist and coordinator of the programme discussed about NML and function of various R&D division and how, they are pursuing research for the benefit of industries in particular and common man in general. The students expressed their feelings, asked numbers of questions and clarify their doubt with scientists. Dr. A.K. Sahu, Sr. Technical Officer gave the vote of thanks. Further, Dr.P.N. Mishra & Shri S.N.Hembram, Sr. Technical officer organized laboratory visits in two separate group. Aditya Kumar Singh, Std.XI was impressed and happy to visit NML and also surprised to see R&D infrastructure.

Mr. Abhishek Bhadra, Std.XII and Mr. SayamBasu also expressed their feeling in similar way. Harshita Namta, Std.XII expressed that she has got information about how scientists proceed research in metallurgical laboratory from ores and minerals to making valuable metals, used in various industries.

Muskan Mishra, Std. XI expressed, how valuable metals are extracted from E-waste products. Ms. KarunaMurmu expressed the similar view and gained knowledge about recycling of electronic batteries and extract of precious metals from the electronics waste.

Students visited creep testing units of MTE Division and knew about the fatigue, creep, fractures prevailing in different types of industrial components like boiler, reformer tubes, pressure vessel etc. Students get exposure of different machine like Servo Hydro Testing Machine, Servo Electrical Machine and furnace. They further visited at Analytical Chemistry Centre, Electronic waste units, Pyro metallurgical unit and museum.

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CSIR conducts two-day workshop

CSIR

1st July, 2018

GUWAHATI, June 30 - The Council of Scientific & Industrial Research (CSIR) conducted a two-day workshop here on June 28 and 29 with the Federation of Industry & Commerce of North Eastern Region (FINER) as industry partner. The CSIR team comprised top scientists of the country spearheading industrial research was led by Dr Girish Sahni, Director General of CSIR and Dr Sudeep Kumar, Head, Mission Directorate, CSIR HQ. Senior scientists from CSIR-laboratories from across the country participated and gave presentations on industry-specific topics. Naveen Verma, Secretary, Ministry of DoNER and SN Pradhan, Joint Secretary, DoNER, addressed the gathering through video conferencing.

Verma, in his keynote address, emphasised the need to harness the immense potential of the region in terms of natural and human resources through technology interventions and touched upon various schemes of Central ministries and the supportive role played by DoNER through the North Eastern Council and NEDFi. He offered all assistance, both financial and technical, for development of technology-based entrepreneurship and up-scaling of existing industries.

CSIR Director General Dr Sahni, in his welcome address, stressed the need for the region to be exposed to innovative and cost-effective technologies so that the industry could be competitive on pan-India basis. Amit Jain, industrialist and past vice-chairman of FINER, and directors RK More, Chinmoy Sharma and Rajeev Agarwal spoke on the aspirations of entrepreneurs and outlined requirements for technology interventions to mitigate un-met challenges. The workshop consisted of sector-specific sessions and each session had presentations from CSIR scientists and speakers from the industry followed by interactive sessions.

The sectors covered during the two days included Healthcare & Nutraceuticals, Food & Food Processing, Aromatic Plants, Herbal Products, Floriculture, Mushroom Cultivation, Leather Products, Water filtration, Waste Water and Solid Waste Management, Chemicals & Petrochemicals, Civil Infrastructure and Building Materials. The CSIR speakers showcased a range of products and processes developed in each of these sectors and pointed to the immense potential in the North East due to its vast biodiversity, requirement of housing and roads.

Speakers from the industry included Samrat Deka of SRD Group, Amrit Deorah, Aasray Foods, M Krishna Saikia, Green Cover Overseas, Gunajit Brahma, Jeev Anksh of Eco Products, Pranjal Baruah of Mushroom Development Foundation, Avik Kumar Sharma of Taurus Industries, Pranjal Barua, Chief Manager, BCPL, Vikas Jain, Colortek Meghalaya and Rajeev Agarwal of Bitchem and SM Group. The two-day deliberations concluded with a panel discussion moderated by Dr Sudeep Kumar.

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[Assam Tribune](#)

MoU Signed for research

CSIR-IICT

1st July, 2018

Hyderabad: With the aim to establish an active collaboration covering various areas related to industry, academics, cooperative research, to facilitate the exchange of ideas and the development of new knowledge, the Indian Institute of Chemical Technology (CSIR-IICT) signed an MoU with Scient Institute of Pharmacy, Ibrahimpatnam, Hyderabad, on Saturday at the CSIR-IICT campus in Hyderabad.

The objective of the MoU is to enhance high quality research acumen. The major thrust of the research on which the parties will cooperate is analytical sciences, pharmacology and pre-clinical studies, medicinal chemistry and pharmaceuticals.

The CSIR-IICT will provide guidance in preparing scientific proposals to government agencies for financial aid, guidance in establishing a DSIR approved research facility and guidance in upgrading the teaching skills of the junior faculty.

The MoU was signed by Dr D. Shailaja, Senior Principal Scientist, Polymers and Functional Materials Dept, CSIR-IICT and Dr K. C. Sekhar Reddy, Chairman and DrM.Purushothaman, Principal, Scient Institute of Pharmacy.

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[Deccan Chronicle](#)



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