

CSIR in Media



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CSIR-NML

20th January, 2019

Innovative technology increases productivity and efficiency of steel plants: Anand Sen

Mail News Service

Jamshedpur, Jan. 20: Tata Steel President TQM & Steel Business, Anand Sen stressed on innovation for increasing productivity and improving the output of your business.

Addressing the valedictory function of the 32nd National Convention cum Seminar on "Advances in Engineering Materials for Sustainable Development (AEMSD 2019)" organised by The Institution of Engineers (India), Jamshedpur Local Centre in association with Tata Steel and CSIR-National Metallurgical Laboratory at CSIR-NML Auditorium on Saturday, the Chief Guest, Anand Sen, said,

"Use of innovative technologies and optimization

of process routes for increasing productivity and efficiency of the operating steel plants have become relevant than ever. AEMSD-2019 has provided a platform to learn from the collective wisdom, to translate them into innovative ideas and provide workable solutions. He expressed his recent most concern regarding the consumers' care and how to make available their required materials at door step. Presently there are explosion of products / materials. There are also certain hidden problems as everyday new products are launched in the market with certain newly added features. This makes the earlier one "obsolete". In India, we do not have any organised system for withdraw-



ing the "obsolete" one and these are increasingly creating storage problem and environmental issues. These are needed to be urgently addressed", he added. Earlier, Dr. Indranil Chatteraj, Director, CSIR-NML, while giving his

opening remark, said, "The one and half day convention and the seminar went on very productive way. Many of issues relating to material industries were addressed by the experts and researchers which will go a long way to help our

industries in near future".

Dr. A. Mitra, Chief Scientist, CSIR-NML gave a brief account of the technical proceedings of the seminar to gathering. There were four technical areas covered, namely - (1) New age materials & devices, (2) Advanced manufacturing technologies, (3) Advancement in metallic materials, and (4) Materials evaluation techniques. He said around 100 delegates from IITs, NITs, Engineering colleges/ R&D institutes and several Indian industries across the country participated. There were 5 keynote addresses and 5 invited lectures from the reputed Technocrats / Academicians and 37 research papers were presented in the four parallel sessions. Three best paper,

Two First prize and Two Second prize were awarded amongst the participants of the four technical sessions.

Best Paper award was presented to R. Suryanarayan and team, School of Mechanical & Building Sciences, VIT, Tamil Nadu, Dilipsinh, M. Zala and team, MS University, Baroda, Vadodara and L. Natrayan and team, School of Mechanical & Building Sciences, VIT, Tamil Nadu.

First Prize was bagged by Dr. Sanjay Prasad and team, CSIR-NML Jamshedpur and Viranshu Kumar and team, NIFFT Ranchi.

The second prize was won by Rahul Singh and team, MNIT Allahabad, Priyaush Tripathi and team, NIT Jamshedpur.

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The Avenue Mail

मैंने कहा फूलों से हंसो तो वो खिलखिलाकर हंस दिए...

एनबीआरआई में शुरू हुई गुलाब व ग्लैडिओलस प्रदर्शनी, फूलों की खूबसूरती ने मोहा शहरियों का मन

लखनऊ। क्या आप जानते हैं कि गुलाब की तीन सौ से अधिक प्रजातियां हैं, और इन्हें चार हिस्सों में बांटा गया है। इनमें करीब 50 प्रजातियां नेशनल बॉटनिकल रिसर्च इंस्टीट्यूट (एनबीआरआई) के सिकंदरबाग स्थित केंद्रीय लॉन में शनिवार को शुरू हुई गुलाब व ग्लैडिओलस प्रदर्शनी में रखी गई हैं। इन्हें देखने के लिए शनिवार को बड़ी संख्या में लोग पहुंचे और रविवार को भी इसे आम नागरिकों के लिए खुला रखा जाएगा। एनबीआरआई के वैज्ञानिक प्रो. बारिक ने बताया कि यहां प्रदर्शित फूलों के लिए पुरस्कार दिए जा रहे हैं। इनमें 19 वर्ग, 26 रॉनिंग चैलेंज शोल्ड, कप व ट्रॉफियां और 125 खंड रखे गए हैं। आयोजन में कई सरकारी व अर्द्ध सरकारी विभागों के साथ आम नागरिकों, विशेषकर घरों में बागवानी करने वाली महिलाओं ने हिस्सा लिया है। करीब 68 संस्थाओं और लोगों ने 915 प्रतियोगिताएं भेजी हैं। पहले दिन विजेताओं की घोषणा की गई। वहीं सिटी मॉन्टेसरी स्कूल के बच्चों ने औषधीय पौधों के महत्व का संदेश देते हुए नाटक की प्रस्तुति दी। व्यूरो



एनबीआरआई में शुरू हुई गुलाब व ग्लैडिओलस प्रदर्शनी में सेल्फी लेती युवती। अमर उजाला



ये बने विजेता

- सर्वोत्तम गुलाब, माल नर्सरी रॉनिंग चैलेंज कप - एचएएल उपसाधन प्रभाग
- सर्वोत्तम ग्लैडिओलस स्पाइक, सैफद गुलाम अब्बास काजमी रॉनिंग चैलेंज शोल्ड - नैन्सी मौर्या, मल्लिहाबाद
- एचटी लाल गुलाब, परसी-लैकास्टर चैलेंज कप - एचएएल, उपसाधन प्रभाग
- सर्वोत्तम एचटी दुर्गे गुलाब, आरवी सिंधोले मेमोरियल चैलेंज कप - राजेंद्र पाल सिंह, पीएसबी35 बटलियन, महानगर
- सर्वोत्तम सुगंधित हाइब्रिड टी गुलाब, चौधरी अकबर हुसैन रॉनिंग ट्रॉफी - एएम सक्सेना
- सर्वोत्तम रॉनिंग धारदार एचटी गुलाब, हृदय प्रसाद तिवारी रॉनिंग चैलेंज चैलेंज शोल्ड - नैन्सी मौर्या, मल्लिहाबाद
- सर्वोत्तम एचटी पीले गुलाब, सुलभ तिवारी रॉनिंग चैलेंज कप - एएम सक्सेना
- सर्वोत्तम गुलाबी गुलाब, कुमुद रस्तोगी रॉनिंग चैलेंज ट्रॉफी - एचएएल, उपसाधन प्रभाग
- सर्वोत्तम भारतीय प्रजनित हाइब्रिड टी गुलाब, राजा भद्री रॉनिंग चैलेंज शोल्ड - एचएएल, उपसाधन प्रभाग।

आज सुबह 10 से शाम छह बजे तक अवलोकन

मुख्य वैज्ञानिक प्रमोद शर्मा ने बताया कि यह प्रदर्शनी नागरिकों के लिए सुबह 10 बजे से शाम 6 बजे तक खुली रहेगी। वहीं शाम चार बजे पुरस्कार वितरण होगा। इसमें धीरज साहू, कमिश्नर, उत्तर प्रदेश सरकार मुख्य अतिथि होंगे।

आज आए तो ये भी देखें

■ एनबीआरआई ने एक विशेष पवेलियन तैयार की है, जिसमें कैक्टस की विभिन्न प्रजातियां दर्शाई गई हैं। ■ गुलाब व ग्लैडिओलस को कट-फ्लावरर्स भी यहां प्रदर्शित हैं। ■ स्टीविया, ब्राम्बी, पान, रामा व श्यामा तुलसी जैसे दर्जनों औषधीय पौधे यहां से खरीदे जा सकते हैं, जिन्हें खुद एनबीआरआई के वैज्ञानिकों ने तैयार किया है।

प्रदर्शनी के साथ पढ़ाई और रिसर्च भी

प्रदर्शन देखने आए कुछ युवाओं से इसकी उपयोगिता और फायदों पर अमर उजाला ने बातचीत की तो पता चला कि कई युवा अपनी पढ़ाई से संबंधित जानकारी के लिए भी यहां पहुंचे। जानिए उनकी प्रतिक्रियाएं-

घर में बागवानी को करना है बेहतर



नेशनल कॉलेज की स्टूडेंट्स अंजलि सिंह, सुष्टि सिंह और श्वेता ने बताया कि वे अपने

घर में बागवानी करते हैं। वहां किस प्रकार फूलों को अच्छे ढंग से खिलाएं और घर की सुंदरता को बढ़ाएं, इसे समझने के लिए वे एनबीआरआई की इस प्रदर्शनी को देखने आई हैं।



फाइन आर्ट्स में मिलेगी मदद

आर्ट्स कॉलेज से पहुंचे ग्रुप में शामिल आयुष, नैनिका, इकरा, अंशु, सौरभ और रेवथी ने बताया कि वे अपनी फाइन आर्ट्स में फूलों को बेहतर ढंग से प्रदर्शित करने के लिए इन्हें देखने पहुंची हैं। यहां गुलाब और ग्लैडिओलस को पूरे वैभव के साथ देखा जा सकता है, जो उनकी कल्पना में हमेशा जीवंत रहेगा।

एक जगह मिले इतने सारे फूल

केकेसी कॉलेज से आई बॉटनी की छात्राओं शालिनी, नूर, आस्था, आकांक्षा और श्वेता ने बताया कि बॉटनी की पढ़ाई में फूलों का महत्व है। लखनऊ में एक ही जगह इतने सारे फूल देखने का मौका इस प्रदर्शनी में मिल रहा था।

CSIR-NBRI

20th January, 2019

BLOOMING BEAUTIES



LUCKNOW: A two-day rose and gladiolus show opened to the public on Saturday in the central lawn of the National Botanical Research Institute. This year, the show received total 915 entries belonging to 68 exhibitors from Lucknow and outstation.

One of the attractions of the show was the CSIR-NBRI Pavilion, with the display of cut flowers of NBRI germplasm of roses and gladioli, and herbal products and technologies developed by CSIR-NBRI. Plants of different groups namely, bougainvillea, house plants, ferns, cacti and succulents, medicinal and aromatic plants and Jurassic Age botanical heritage are also on display.

Before the start of the show, a group of experts judged the entries. The show will be open to the public from 10 am to 6 pm on Sunday. The prize distribution function will be held on January 20, at 4 pm.

■ Lucknowites turned up in large numbers at the rose and gladiolus show organised at the central lawn of the National Botanical Research Institute in Lucknow on Saturday.

DHEERAJ DHAWAN/HT PHOTOS

HTC

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System efficiency must for sustainable development, says TV Narendran

CSIR-NML

19th January, 2019

The 32nd national convention cum seminar on “Advances in Engineering Materials for Sustainable Development (AEMSD 2019)” organised by The Institution of Engineers (India), Jamshedpur Local Centre in association with Tata Steel and CSIR-National Metallurgical Laboratory kicked off on Friday at CSIR-NML Auditorium. T.V. Narendran, CEO & managing director, Tata Steel, Indranil Chatteraj, director, CSIR-NML, Jamshedpur, K K Mehrotra, Chairman, MMDB of IEI, Avneesh Gupta, vice-president, shared services, Tata Steel and P.N. Chaudhary, former Chief Scientist & organising Secretary, AEMSD, inaugurated the event.

Narendran in his address stressed on the need of ‘system efficiency’ in view of the sustainable development. He said materials do play very important role. There has been a debate regarding the material consumption as developed countries use the largest chunk (80%) than the developing countries (20%), thereby, the quality/ enriched materials getting gradually depleted.

But over last 15-20 years the trend are getting reversed and consumption by the developing countries are in the rising order. As a result the demand for materials are increasing and realising the inter-dependency of materials, the sustainability is becoming the thread and the main focus of engineers. This is true for almost every sector, namely – Auto industry, Civil construction, Manufacturing industry, Steel, Environmental and likewise. While welcoming the gathering, Avneesh Gupta said, "Use of materials and metals dates to stone and iron age and there has been a constant drive to bring in breakthroughs". Sustainability oriented society is forcing the transformation of manufacturing and engineering sectors which is where digitization and use of advance

analytics has also started taking a leading role. In this context the AEMSD 2019 seminar has become relevant for exchange of knowledge amongst the learned gathering.

Indranil Chatteraj spoke on the occasion and said, "The imperatives for developing newer and better materials are many; but such development have to be sustainable to avoid the environmental pitfalls of the past. He added the convention and the seminar venue has been appropriately selected at our laboratory keeping space with the times as well as metallurgical and materials engineering communities as large".

K.K. Mehrotra said, Society faces great challenges to sustain continued development in the 21st Century for which technical innovations are the key tools for engineering solutions, by implementing sustainable practices in the use of materials, the materials science and engineering community will be well-positioned to take active role in shaping public policy in support of sustainable development.

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[The Pioneer](#)

CSIR-IHBT

19th January, 2019

Now, take home *dhoop* prasad made from flowers

TRIBUNE NEWS SERVICE

The fragrance of flowers offered at various shrines in the state, which were earlier just dumped, will now purify homes, as they will be used for making incense and dhoop for pooja.

The Himachal Pradesh State Pollution Control Board has tied-up with the Council of Scientific and Industrial (CSIR) at the Institute of Himalayan (IHBT) Bioresource Technology (IHBT) at Palampur for converting these flowers into dhoop and incense. The dhoop would be given to pilgrims along with the prasad.

This will save temples, especially major shrines including Chintpurni in Una, Chamunda, Jwalamukhi and Brajeshwari in Kangra, Deoth Sidh in Hamirpur and Naina Devi in Bilaspur, from the headache of disposal of flowers. The scheme will be introduced in the 36 scheduled temples, which are under government control. In fact, the temple trusts were finding it difficult to dispose away these flowers offered by pilgrims daily to the deities. The volume of these flowers was huge, as it would run into several tonnes.

Member Secretary, HP State Pollution Control Board, RK Pruthi said the Board would sign an agreement with CSIR, which has the know-how for converting flowers into dhoop. He said the dhoop would be distributed free to pilgrims as prasad. Later, the task could be handed over to a voluntary organisation.

Officials in various temple trust point out that for them, proper disposal of flowers was

Optimum utilisation

■ The temple trusts were finding it difficult to dispose away these flowers offered by pilgrims daily to the deities. The volume of these flowers was huge, as it would run into several tonnes.

■ The proposal to convert precious gold and silver, offered at the temples into coins failed to come through, but there are no hitches as far as converting flowers into dhoop is concerned.

■ There are 36 temples that are under government control and managed as per the Himachal Pradesh Hindu Public Religious Institution and Charitable Endowments Act, 1984.

■ To begin with, the scheme is being started from Brajeshwari temple in Kangra town, which already had a machine, which is being modified to convert flowers into dhoop.

a big headache and the pilgrims would highly appreciate and value flower dhoop that would be a prasad for them. "The quality of this dhoop is bound to be very good as it will have different flowers as the main ingredients along with other items," remarked a temple officer at Kangra.

Though there is no exact record of the quantity of flowers offered at these temples, it runs into tonnes. Thousands of pilgrims make a beeline to these temples, especially during navrataris and festivals. The 36 scheduled temples have close to six quintal gold and 200 quintal silver. The highest offerings are made at the Chintpurni temple in Una followed by Naina Devi in Bilaspur. Offerings worth ₹35.79 crore were made at the Chintpurni temple in 2017-18 as compared to ₹31.44 crore made in the previous year.

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The Avenue Mail

CSIR-NML

18th January, 2019

City to host 32nd National Convention on AEMSD

Mail News Service

Jamshedpur, Jan 17: Jamshedpur is the hub of metallurgical activities due to the presence of institutions like CSIR-NML, Tata Steel and NIT. Keeping this in view, The Institution of Engineers (India) awarded the 32nd National Convention of Metallurgical and Materials Engineers to the IEI Jamshedpur Local Centre. The Tata Steel and CSIR-NML agreed to jointly support the programme along with the MECON Ranchi.

National Seminar on "Advances in Engineering Materials for Sustainable Development" (AEMSD 2019) will be held January 18-19, 2019.

The topic chosen to deliberate on advancement in engineering materials without which improvement of all sophisticated products such as computers, automobiles, aircraft and biomedical devices would be severely hampered, said Avneesh Gupta, Vice President, Shared Services, Tata Steel and chairman of the organizing committee.

Addressing a press conference at Institution of Engineers in Sakchi on Thursday, Gupta informed,



T.V. Narendran, Global CEO & MD, Tata Steel will be the Chief Guest during Inaugural function to be held at CSIR-NML Auditorium on 18th January. He will felicitate the Eminent Engineers and young Engineers during the program.

Dr. Indranil Chattoraj, Director, CSIR-NML, Jamshedpur, K.K. Mehrotra, Chairman, MMDB of IEI, Dr. Vinay Mahashadbe, Chief Technology Officer, Tata Steel, Dr. S. Tarafder, Chief Scientist, CSIR-NML, and Dr. P.N. Chaudhary, former Chief Scientist & organising Secretary, AEMSD will be present during the inaugural function.

"The objective of this convention cum seminar will provide a forum for closer interaction amongst personnel from industries, experts from research organizations & academic institutions to address issues pertaining to advancement required in

engineering materials in order to face the global challenges in the areas of metals and materials", Gupta added.

The inaugural programme will be followed by the V. Subramony Memorial Lecture to be delivered by Prof. Amol. A Gokhale, Indian institute of Technology, Mumbai and Ex Director, DMRL, Hyderabad. An exhibition on the theme has also been arranged where participants will showcase their products, services and activities. Each technical session will feature one Keynote address and one invited lecture by eminent figures in the relevant field. In addition, there will also be 7-8 presentations in the areas of-New age materials and devices, advanced manufacturing technologies, advancement in metallic materials and materials evaluation techniques.

A visit to Tata Steel has been organized on 19th

January to expose the participants to the latest developments in technologies taking place in steel industries.

About 100 delegates are expected to participate in the seminar from industries, academic institutions and research laboratories, informed an organising committee member.

Delegates from C-MET, Hyderabad, JSW, Tata Steel, Bharat Forge Ltd., Pune, CSIR-NML Jamshedpur, RDCIS, SAIL, Ranchi, OP Jindal University, Raigarh, IICT Hyderabad, Presidency University, Bangalore, Amity University, Kolkata, MS University, Baroda, IIT Madras, IIT Chennai, IIT Bhubaneswar, KITS, Warangal, NIT Jamshedpur, NIT Rourkela, NIT Tricharapalli, VIT, Chennai, Jadavpur University, Kolkata, IEST, Shibpur, NIFFT Ranchi, MECON Ltd., Ranchi, Usha Martin Ltd., Jamshedpur will attend the seminar.

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CSIR-NML

18th January, 2019

एडवांस इंजीनियरिंग मेटेरियल्स पर दो दिवसीय नेशनल कन्वेंशन आज से, चार तकनीक सत्र होंगे, 100 से ज्यादा प्रतिभागी होंगे शामिल द इन्स्टीट्यूशन ऑफ इंजीनियर्स, टाटा स्टील और एनएमएल के तत्वावधान में होगा आयोजन

सिटी रिपोर्टर | जमशेदपुर

द इन्स्टीट्यूशन ऑफ इंजीनियर्स के जमशेदपुर चैप्टर, टाटा स्टील और एनएमएल जमशेदपुर के संयुक्त तत्वावधान में सतत विकास (सस्टेनेबल डेवलपमेंट) के लिए एडवांस इंजीनियरिंग मेटेरियल्स पर दो दिवसीय नेशनल कन्वेंशन शुक्रवार को शुरू होगा।

सुबह 10 बजे एनएमएल सभागार बर्मागार्ड्स में कन्वेंशन का



संवाददाता सम्मेलन में जानकारी देते टाटा स्टील के वीपी अवनीश गुप्ता।

उद्घाटन टाटा स्टील के एमडी सह सीईओ टीवी नरेन्द्रन करेंगे। गुरुवार को इन्स्टीट्यूशन ऑफ इंजीनियर्स के साकची स्थित सभागार में

आयोजित संवाददाता सम्मेलन में द इन्स्टीट्यूशन ऑफ इंजीनियर्स के जमशेदपुर चैप्टर के चेयरमैन और टाटा स्टील के वीपी (शेयर्ड

सर्विसेज) अवनीश गुप्ता ने बताया कि 32वां नेशनल कन्वेंशन इस साल जमशेदपुर में होने जा रहा है, जिसमें देश के 20 शहरों के 100 से ज्यादा प्रतिनिधि भाग लेने आ रहे हैं। उद्घाटन समारोह के अलावा चार तकनीक सत्र होंगे। इसमें तीन आईआईटी, 6 एनआईटी और 6 बड़े औद्योगिक घरानों के विशेषज्ञ भाग लेंगे। गुप्ता ने बताया कि कन्वेंशन में ऐसे एडवांस मेटेरियल्स पर मंथन होगा, जो सतत विकास में

सहायक हो सके। कन्वेंशन के साथ ही एक प्रदर्शनी का भी उद्घाटन किया जाएगा, जिसमें नए मेटेरियल्स की तकनीक को प्रदर्शित किया जाएगा। उद्घाटन समारोह में एनएमएल के निदेशक डॉ. इन्द्रनील चट्टोपाय भी मौजूद रहेंगे। संवाददाता सम्मेलन में अवनीश गुप्ता के अलावा इन्स्टीट्यूशन ऑफ इंजीनियर्स के सेक्रेटरी अनिल कुमार चौधरी, ऑर्गेनाइजिंग सेक्रेटरी पीएन चौधरी और एनजी गोस्वामी मौजूद थे।

Published in:
Dainik Bhaskar

Produced by Unit for Science Dissemination, CSIR, Anusandhan Bhawan, 2 Rafi Marg, New Delhi

Trg on aromatic plants cultivation imparted

CSIR-NEIST

18th January, 2019

The Namsai Krishi Vigyan Kendra (KVK) organized a training programme on ‘cultivation and processing of aromatic plants’ for the farmers of Kumari Adivasi village on Thursday, under Jorhat (Assam)-based CSIR-NEIST’s ‘Aroma Mission’. During the programme, KVK Head Dr Manish Kanwat emphasized the need for “a synergistic approach, such as medicinal plant cultivation and its product marketing,” for doubling the farmers’ income by 2022.

CSIR-NEIST scientist Dr Mohanlal explained how to use natural resources, such as by cultivating medicinal and aromatic plants, for generating self-employment avenues for the rural youths. He also spoke on the improved and high oil content varieties of lemongrass and citronella which fetch good returns on investment. A team of scientists answered the queries raised by the farmers with respect to processing and marketing of essential oil.

KVK scientist Dr Santosh Kumar highlighted the benefits of lemongrass and citronella “in terms of rupees per hectare, cost of cultivation and protection from stray animals.” As many as 110 farmers participated in the programme.

Published in:

[The Arunachal Times](#)

Nurturing young scientists at CCMB

CSIR-CCMB



It is not every day that school students get a chance to interact with scientists and conduct scientific experiments but 24 students from different schools including from Bidar in Karnataka spent two-weeks at the Centre for Cellular & Molecular Biology (CCMB) as part of the Young Innovators' Program (YIP), an annual programme. It lets school students of grades 8-10 apply for the programme. The first leg of the programme allows all the applicants to interact with eminent scientists and know about their works. It is followed by a selection test, where generally the top 15% are selected to spend two weeks at CCMB.

17th January, 2019

This year 133 students evinced interest and 24 were selected. These two weeks at CCMB give students a flavour of what pursuing science is like, perform some of the classical experiments, and get trained in the scientific method of thinking. They visit different labs in CCMB, observe the works that happen there and interact with the researchers who work in those labs. They do hands on experiments including isolating their own DNA from their cells, watching chromosomes, working with some of the common animal models. During these two weeks, the YIP participants also gain an insight on different career opportunities in science, spanning from research to entrepreneurship. The program aims towards having better informed high school students on the different possibilities that lie ahead of them, and encourage them to be more curious and inquisitive. YIP 2019, the 5th program in the row, was inaugurated on Dec 26th by Dr Harsh Gupta, scientist at CSIR – National Geophysical Research Institute, on a captivating talk on India's success in predicting tsunamis.

Published in:
[The Hans India](http://TheHansIndia.com)

CSIR-CSMCRI

16th January, 2019

શોધ • મફત મળતા શેવાળ ખેતરના પાકમાં 25% વધારો કરવાની ક્ષમતા ધરાવે છે દરિયાઈ શેવાળમાંથી સેન્ટ્રલ સોલ્ટ દ્વારા વિકસાવાયુ છે ઓર્ગેનિક ખાતર

15 હજાર ટન સરગાસમ મળે છે તે પૈકી હજુ 500 ટનનો જ ખાતર માટે વપરાશ રાજ્યના દરિયાકાંઠાના ગરીબ લોકોને મળી શકે છે સીધી રોજગારીની વિપુલ તક નુકસાન વિના ખેડૂતો વધુ પાક લઈ શકશે

ભાવનગર | 15 જાન્યુઆરી

ગુજરાતના 1600 કિ.મી. લાંબા દરિયા કિનારે ઉગતા દરિયાઈ શેવાળમાંથી ભાવનગરની સેન્ટ્રલ સોલ્ટ એન્ડ મરિન કેમિકલ્સ રીસર્ચ ઇન્સ્ટીટ્યુટ દ્વારા લીક્વીડ સીવીડ પ્લાન્ટ બાયોસ્ટીમ્યુલન્ટ વડે ઓર્ગેનિક ખાતર વિકસાવવામાં આવ્યું છે, જેના ઉપયોગથી જમીનને કોઈપણ જાતના નુકસાન વિના ઉત્પાદનને 25 ટકા જેટલું વધારી શકાય છે.

ડુંગળી, જીરૂ, મગફળી સહિતના પાક માટે કરવામાં આવેલા વિવિધ ટેસ્ટના પરિણામ મુજબ દરિયાઈ શેવાળમાંથી બનતા ખાતરથી 15થી 25% પાકમાં વધારો

કરી શકાય છે. શેવાળમાંથી બનતા ખાતર મેજીકોન ની મહેક એગ્રો કંપનીના અધીરજા વરતેજના જણાવ્યા પ્રમાણે પાકમાં જડપી પરિણમ અને સોઈલ એપ્લિકેશન, છોડ મજબૂત કરવા માટે પણ આ ઉત્પાદનનો ઉપયોગ થઈ શકે છે, સંપૂર્ણ પ્રોડક્ટ ઓર્ગેનિક હોવાથી રાસાયણિક ખાતરના ઉપયોગને ઘટાડી શકાય છે, અને જમીનને પણ નુકસાન થતું અટકાવી શકાય છે, જમીનને લાંબા ગાળે ખૂબજ ફાયદો થઈ શકે છે.

હાલ ગુજરાતના 1600 કિ.મી. લાંબા દરિયાકાંઠાથી કેશ દરિયાઈ શેવાળ 15,000 ટન મળી આવે છે તે પૈકી માત્ર 500 ટનનો ઓર્ગેનિક ખાતર બનાવવામાં ઉપયોગ થઈ

રહ્યો છે, તેથી આ ક્ષેત્રમાં અફાટ તકો ઠબૂરાયેલી પડેલી છે. દરિયાકાંઠાના ગરીબ લોકોને પણ રોજગારી મળી શકે છે, અને અંતિમ ઉપયોગથી ખેડૂતોને પણ ફાયદો થઈ શકે તેમ છે.

CSMCRIના વૈજ્ઞાનિકો ડો.મીના, ડો.પ્રસાદના જણાવ્યા પ્રમાણે સરગાસમ કુદરતી રીતે દરિયામાંથી મળી આવે છે, તેની ખેતીની કોઈ જરૂર નથી, એક વખત તેને કાપવામાં આવે તો એક વર્ષમાં તે પુનઃ ઉગી નીકળે છે. ઉપરાંત સરગાસમ કાપવા માટે કોઈ સરકારી વિભાગની પરમીશનની પણ આવશ્યકતા રહેતી નથી.

ભાવનગર જિલ્લામાં સરગાસમ ઓછી માત્રામાં મળે છે,



દરિયાની શેવાળ સરગાસમમાંથી ખાતર બનાવવામાં આવે છે તેનાથી જમીનને કોઈપણ નુકસાન થતું નથી ઉપરાંત ખેડૂતોના ઉત્પાદનમાં પણ વધારો કરી શકાય છે, ચાર કંપનીઓને લાયસન્સ આપી ચૂકાયા છે અને વધુ કંપનીઓ સાથેની વાટાઘાટો ચાલુ છે. ડો.રામઅવતાર મીના- ડો.કમલેશ પ્રસાદ, ડિરેક્ટર સ્કાઉટ, સેન્ટ્રલ સોલ્ટ એન્ડ મરિન કેમિકલ્સ રીસર્ચ ઇન્સ્ટીટ્યુટ, ભાવનગર

વાયબ્રન્ટ ગુજરાત 2019માં કરાર કરાશે

સેન્ટ્રલ સોલ્ટ એન્ડ મરિન કેમિકલ્સ રીસર્ચ ઇન્સ્ટીટ્યુટ દ્વારા સરગાસમમાંથી વિકસાવવામાં આવેલા ઓર્ગેનિક ખાતર અંગે અત્યાર સુધીમાં ચાર કંપનીઓને લાયસન્સ આપવામાં આવ્યા છે, અને વધુ કંપનીઓ સાથેના એમ.ઓ.યુ. વાયબ્રન્ટ ગુજરાત 2019 સમિટ દરમિયાન કરાશે.

પરંતુ ઊંના નજીકના સીમર, દીવ, જામનગર, સિકકાના દરિયાકાંઠાથી વેરાવળ, સોમનાથ, ઓખા, દારકા, પુષ્કળ માત્રામાં મળી આવે છે.

Published in:

Divya Bhaskar

No light at the end of the tunnel for Meghalaya miners

CSIR-NGRI

14th January, 2019

Experts have been visiting the spot since December 20 for rescuing the miners after the news broke out at the national level, but the huge water level inside has foiled all their efforts. It is exactly a month after 15 miners have been trapped in an illegal rat hole coal mine in Meghalaya's East Jaintia Hills district. The chances of their rescue continue to remain bleak as dewatering the mine has so far been a futile effort.

Scientists and top notch agencies, known for their work in underground mines of the country, Sunday arrived in the East Jaintia Hills to step up efforts to rescue the miners in what is perhaps the country's longest rescue mission. Operation spokesperson R Susngi told PTI that a team headed by a scientist and comprising experts from Hyderabad-based National Geophysical Research Institute, Council of Scientific and Industrial Research (NGIR-CSIR) and Gravity and Magnetic Group, was at the spot.

Besides, a team each from the Ground Penetrating Radar (GPR) and Chennai-based Remotely Operated Vehicle (ROV) have arrived to step up the mission, he said. Till date, the dewatering of the 370-foot-deep mine where the miners are trapped has proved futile as over 1 crore litres of water has been pumped out of the main shaft in the past one month, but there has been no visible change in the water level, the official said.

Another 2 crore plus litres of water was pumped out from the nearby abandoned mines suspected to be connected to the mine where the miners are trapped, but the rescuers are clueless 'how' and 'where' the water is coming from, he said. In the Khloo-Ryngksan area, where the ill-fated mine is located at the western side of a small hillock, the Lytein river crisscross the valley for over 2 km.

Experts have been visiting the spot since December 20 for rescuing the miners after the news broke out at the national level, but the huge water level inside has foiled all their efforts. Susngi said senior scientist of CSIR-NGRI Devashish Kumar and his team have arrived for the operation. Another scientist from the Gravity and Magnetic Group, Niraj Kumar and his team too arrived as have Jayanti Gogoi of GPR and Vineet Upadhyay, who is heading the team of operators of the ROV from Chennai.

A team from Pune-based KSB has also arrived at the site and work is in progress to instal another high power pump at the site, he said. The teams have been joined by about 200 people from different agencies of the Government of India, including Indian Navy and NDRF, besides Coal India Ltd and Kirloskar Brothers Ltd.

The Supreme Court which is monitoring the rescue efforts has directed the authorities to step up their efforts and bring out the miners 'dead or alive'. A citizens forum here associated with RTI activist Agnes Kharshiinz has approached the Supreme Court for a complete ban on coal mining in the state, saying there has been an "absolute" loss in terms of revenue from the industry and that all indices in the mining district are down with 76 per cent of people being landless.

Forum leader Angela Rangad said Sunday there were 24,626 coal mines in the district - about 52 mines/sq km at different stages of mining. The forum alleged collusion between the state government and the illegal coal miners wherein the courts and the NGT were misled on several occasions on the total amount of extracted coal waiting to be transported.

"This is evident from the fact that out of the 57 months (since May 2014 when the ban was enforced), the NGT and the Supreme Court has allowed 32 months of transportation. Where did so much untransported coal come from?" Rangad said. "We have requested the court to issue direction to the state government to confiscate all untransported coal and use it in public undertaking factories," she said.

The report has been submitted to the Supreme Court for its perusal in Tuesday's hearing, the forum leader said and hoped that the judiciary would take cognisance of the evidence put forth in the 600-page report of the citizen's forum.

The National Green Tribunal had put a blanket ban on this type of mining since May 2014 as it said it was unscientific and put the life of miners at risk. An interim relief of ₹ 1 lakh has been offered to the family members of the trapped miners, officials said.

The mine owner, Krip Chullet, was arrested on December 14 while two of his accomplices are still on the run, Superintendent of Police Sylvester Nongtynger said. Kharshiing, who narrowly escaped attempts on her life by coal mafia on November 8 last, Sunday demanded that the attack case be handed over to the CBI.

Eight out of the nine persons involved in masterminding the attack have been arrested so far, police said. The arrested include Nidamon Chullet, the district leader of the ruling National Peoples Party, they added.

Published in:

[Mint](#)

CSIR-NML

14th January, 2019

Students visit NML to study R&D activities



SHARE



A group of 36 students from Kendria Vidhyalaya, Chakardharpur accompanied by two teachers, Rano Marandi and Rahul Kumar Singh visited at CSIR-National Metallurgical laboratory, Jamshedpur and interacted with scientists and research scholars this morning under the aegis of "Jigyasa programme". The objective of the programme is to provide exposures of research environment and simultaneously inculcate interest towards science among school students and further pursue carrier in the science stream. The students were thrilled and curiosity was observed among students and teachers.

The programme was scheduled for five hours, Dr.P.N. Mishra, Principal Scientist, initiated the programme with welcome address and introduced students and teachers with the members of "Jigyasa programme" and further discussed about importance and uses of natural resources like minerals, ores and rocks. Contribution of CSIR-NML towards the utilization of natural resources further, discussed about fundamentals of science and its various branches to inculcate interest towards science among students and request students to pursue science as carrier for further study. Dr. A.K. Sahu, Senior Technical Officer proposed the vote of thanks.

After brief up, a laboratory visits programme was organized by S.N. Hembram and Dr. A.K. Sahu leads two groups separately and coordinated by Dr. P.N. Mishra, Group leader of the programme and make arrangement to interact with scientists and research scholars. The students expressed their desire and feeling, asked numbers of question and clarify doubt with working scientists.

Students visited creep testing units, P.K. Roy of MTE Division explained about fatigue, creep, fractures prevailing in different types of industrial components like reformer tubes, boilers and others components. They get exposure of different machine like Servo Hydro Testing Machine, Servo Electrical Machine and Furnace, applied in mechanical testing and evaluation.

A live demonstration was arranged at Analytical Chemistry Division by Soni Jha, introduced about conventional as well as non-conventional methods applied in chemical analysis of ores, minerals and different types of metals. Students asked number of question and answered by deputed research scholars.

Mechanical Testing Unit was the attraction among the students and teachers. A.P. Murugesan, Scientist explained about forging, shaping and rolling machine, wire Drawing Machine with live demonstration.

Published in:
The Pioneer

Assam: Education tour for students and gaon burhas concludes in Jorhat

CSIR-NEIST

13th January, 2019

The science education tour of students and *gaon burhas* from 15 schools of Sivasagar district of eastern Assam concluded at the Jorhat district library on Saturday with students performing cultural items of song and dance and interacting with scientists of CSIR-North East Institute of Science and Technology.

The three-day tour was conducted under the Mukhyo Mantrir Bigyan Darshan Scheme, 2019 and was flagged off by Sivasagar Deputy Commissioner Pallav Gopal Jha on Thursday last. Organized by the Jorhat Science Centre and Planetarium and Assam Science Technology and Environmental Council under the State Department of Science and Technology in collaboration with Jorhat district administration, the students and *gaon burhas* were taken on visits to Assam Agricultural University, CSIR-NEIST and Tocklai Tea Research Institute apart from the Planetarium complex. On Saturday, they interacted with NEIST scientists Mantu Bhuyan and Manabjyoti Bordoloi. The district administration was represented by Geetanjali Dutta and the Jorhat Science Centre and Planetarium by its director Pranab Jyoti Chetia.

On the first day, the group of students and *gaon burhas* were addressed by Jorhat Deputy Commissioner Narayan Konwar who told them that the purpose of the tour was to remove blind faith and superstitious notions especially those responsible for witch hunting and to create an environment which promoted the growth of science and technology. There were about 45 students and 45 *gaon burhas* who had travelled in three ASTC luxury coaches.

Published in:

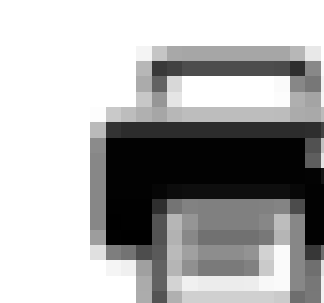
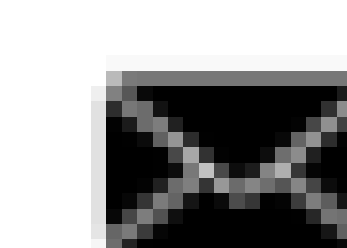
[Northeast Now](#)

CSIR-CMERI

12th January, 2019

Convert any vegetable oil to biodiesel now

TNN | Jan 12, 2019, 07:42 IST



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Ludhiana: CSIR-CMERI (Council of Scientific and Industrial Research - Central Mechanical Engineering Research Institute), Ludhiana, has invented non-continuous biodiesel plant which will be capable of converting any vegetable oil (edible and non-edible) and animal fat to biodiesel. Two principal scientists of CSIR-CMERI came up with the innovation to be used for farm machinery under ministry of science and technology.

As explained by CSIR-CMERI, the plant design is based on process timing and simulation so that all the components can work for the designated time and ultimately produce biodiesel per day (24 hours working basis).

Principal scientist of CSIR-CMERI, Centre of Excellence for Farm Machinery and head of department, Energy and Post Harvest Technology Krishnendu Kundu and principal scientist and head, Farm Machinery and Precision Agriculture, CSIR CMERI Centre of Excellence for Farm Machinery Pradeep Rajan are the key innovators of the technology.

Krishnendu Kundu said, “There should be an organized system for collection of cooking oil in Ludhiana. The work should preferably be done by Biodiesel Association of India (BDAI) to result into a viable business model. This plant can easily run sustainably in Ludhiana to convert used cooking oil to biodiesel.’

“Average collection cost of per litre of used cooking oil is about Rs 40 per litre. In this plant, the cost of biodiesel production will come around Rs 48 per litre. Therefore, the manufacturer can easily make a profit of Rs 5 to 8 per litre with a payback period of less than one year.” He added.

“In turn, the produced biodiesel can be used in diesel engines, gensets and furnaces in order to make the city clean and green and it will reduce city’s dependence on fossil fuel,” said Rajan.

The technology has been transferred to M/s Sains Engineering Works, Janta Nagar on Wednesday.

Managing director of M/s Sains Engineering Works Harbans Singh said, “The plant is low cost, easy to operate, can be upscaled or downscaled depending upon customer requirement and involves minimum manual intervention. Only one operator can operate the plant. All the switches, motors, valves, pumps and heaters are operated from a single control panel.”

CSIR-CMERI director Prof Harish Hirani said, “These non-edible oils are having limitation of higher market price, and hence are not being preferred by the biodiesel producers. But they possess lower free fatty acids.”

In India, annually about 23 million tonnes of cooking oil is consumed out of which about three million tonnes can be recovered and used for producing biodiesel.

Published in:
[The Times of India](#)

CSIR

12th January, 2019

CSIR chief urges students to hone rational outlook

Ardhra Nair | TNN | Updated: Jan 12, 2019, 09:35 IST



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Savitribai Phule Pune University

PUNE: CSIR director general Shekhar Mande on Friday underlined the importance of developing a scientific outlook and urged students not to believe in hearsay and in phenomena with unsound rationale. He was speaking at the convocation of the Savitribai Phule Pune University.

Mande, who is also the secretary of the Department of Scientific and Industrial

Research (DSIR), said, "As a scientist, I cannot but help in making a few comments on the scientific outlook towards the world that you would help develop further. Science teaches us many things, the foremost among them, equality in society on all fronts—gender, race, socio economic status, linguistic and geographical boundaries. Science teaches us that we believe in evidence in all aspects of our lives and that we do not believe in hearsay and in phenomena that have no sound rational basis."

He also spoke about the growing concern among political class and policy makers that academicians as well as institutes are isolating themselves and working in silos which must be addressed immediately.

“For many years, NCL and SPPU have enjoyed collaborations and mutual respect. The subsequent establishment of many top class institutions on the SPPU campus has been a pioneering example for many other national laboratories in the country to follow. However, there has been growing concerns across political leaders and policy makers that each one of us has been increasingly isolating ourselves from everyone else. This concern needs to be addressed seriously and immediately,” he said. He urged those present to ensure that ‘academicians are not viewed as ivory towers in our own silos’.

Vice chancellor Nitin Karmalkar spoke about the university’s achievements and also about how the it is trying to ensure inclusive education and progress through its policies.

The university conferred 116 gold medals, 80,613 degrees, 21,366 post-graduation degrees, 138 MPhils and 441 PhDs at the convocation ceremony.

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CSIR-NML

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सेंट्रल स्कूल जादूगोड़ा के बच्चों ने किया एनएमएल का शैक्षिक भ्रमण

जासं, जमशेदपुर : एटॉमिक एनर्जी सेंट्रल स्कूल जादूगोड़ा के 12वीं के 38 बच्चों की टीम के लिए यह एक अलग अनुभव रहा। स्कूल के दो शिक्षकों एस कल्याण बाबू व सीके शुभ्रा के नेतृत्व में छात्र-छात्राओं की टीम ने शुक्रवार को बर्मागाइंस स्थित सीएसआर-एनएमएल (राष्ट्रीय धातुकर्म प्रयोगशाला) का भ्रमण कर वहां के शोध कार्य के बारे में जानकारी ली और प्रयोगशालाओं का भ्रमण किया।

जिज्ञासा कार्यक्रम के तहत हुए इस आयोजन में छात्र-छात्राओं को एनएमएल के वैज्ञानिकों व रिसर्च

स्कॉलर्स ने वैज्ञानिक अवधारणाओं और शोध कार्यों के बारे में विस्तार से बताया। साथ ही उन्हें विज्ञान में अपना कैरियर बनाने के लिए भी प्रेरित किया। इस दौरान सीएसआइआर- सीजीसीआरआइ नरोडा फील्ड स्टेशन के प्रतिनिधि भी मौजूद रहे। करीब पांच घंटे तक छात्र-छात्राओं ने घूम-घूमकर एनएमएल की कार्यसंस्कृति व शोधों के बारे में जाना। उनका स्वागत करते हुए संस्थान के प्रिंसिपल साइंटिस्ट डॉ. पीएन मिश्रा ने जिज्ञासा कार्यक्रम के बारे में बताया। अंत में बच्चों के दिल ने जल्द एक बार फिर संस्थान का भ्रमण कर गहराई से जानकारी लेने की इच्छा जताई।

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CSIR-IMMT

11th January, 2019



Workshop on Scientist-Teacher Interaction under JIGYASA at CSIR-IMMT

A group of 44 Kendriya Vidyalaya teachers from across the state of Odisha attended a two-day workshop on "Scientist-Teacher Interaction" under JIGYASA at the CSIR-Institute of Minerals & Materials Technology, Bhubaneswar on January 10, 2019 and January 11, 2019. The workshop was inaugurated by Santosh K. Mishra, Chief Scientist, A.V.L. Jagannath Rao, Deputy Commissioner, Kendriya Vidyalaya Sangathan and Dr Dushashan Ojha, Assistant Commissioner of Kendriya Vidyalaya Sangathan. Dr Swati Mohanty, Head, Human Resource Department welcomed the participants and Dr Umakanta Subudhi, Jigyasa Coordinator briefed them about the programme and gave an overview of the workshop. Four groups of teachers in the field of Physics, Chemistry, Biology and Computer Science experienced live experiments and demonstration for eight hours during their two-day visit to CSIR-IMMT. Dr Debi Prasad Das, subject coordinator of Physical science, arranged several experiments with the support of his colleagues. Similarly, Dr. Bikash K. Jena, Chemical Science coordinator, demonstrated the basics of redox chemistry. Dr Manish Kumar, Biological Science coordinator explained on Biological topic. The computer Science Coordinator, Dr Satyajit Rath, explained digital security. More than 30 scientists and 15 technical staff were involved for the success of this two-day workshop. Apart from the demonstrations, four popular lectures were also delivered by Dr. S.K. Biswal, Prof. S. S. Tripathy, Prof. Nirajan Barik and Prof. G.B.N. Chaitany on Engineering, Chemical, Physical and Biological sciences, respectively. The state-of-the-art instrumentation facility like TEM, XRD, TGDAC, Raman Spectroscopy etc. were also thoroughly explained in the second day of the workshop, which was coordinated by Dr. Bibhu Ranjan Nayak. The two-day workshop came to a conclusion with an interactive session with Kendriya Vidyalaya teachers and CSIR-Scientists. Prof. Suddhasatwa Basu, Director of CSIR-IMMT inspired the Kendriya Vidyalaya teachers by sharing his long years of academic experience. Particularly Prof. Basu advised the Kendriya Vidyalaya teachers to inculcate the scientific temper in students through questing mind or quest for knowledge for which the JIGYASA is named.

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