

# CSIR in Media



A Daily News Bulletin  
18<sup>th</sup> - 22<sup>nd</sup> August 2017





CSIR - IITR

21<sup>st</sup> August 2017

## Rajnath releases issue of Vish Vigyan Sandesh

PIONEER NEWS SERVICE ■ LUCKNOW

Union Home Minister Rajnath Singh released the latest issue of 'Vish Vigyan Sandesh' on Sunday. CSIR-Indian Institute of Toxicology Research director Alok Dhawan presented a copy of the magazine to Singh on the occasion. The Home Minister said that the magazine would be useful for the public.

He added that the magazine had included articles on various topics such as environmental pollution, air pollution, plastic pollution and food articles which are useful for the common man.

Singh congratulated members of the editorial team, including the director. The last three issues of the journal have received the first prize from the Government of India. Dhawan presented other Hindi publications of the institute such as the annual report, environmental and human health-related publications. The Home Minister said it was a simple way to make the common man aware of important issues. He also congratulated the scientists for their efforts in bringing out the publications in Hindi.



Union Home Minister Rajnath Singh releasing the latest issue of 'Vish Vigyan Sandesh' on Sunday



## ‘Nano materials have adverse effect on aquatic bio life’

PIONEER NEWS SERVICE ■ LUCKNOW

Director of Indian Institute of Toxicological Research (IITR) Alok Dhawan said here on Sunday that in a latest study which was carried out by it they had found that the nano materials which were released in the environment had an adverse impact on the aquatic bio life.

Talking to *The Pioneer*, the IITR director said that the aquatic eco system was created on the predator-prey basis at the IITR lab to show how these nano particles when eaten by the bacteria get bio magnified in the unicellular organisms which feed on the bacteria and then further get bio magnified in the fishes which feed on the organisms.

He said that nano titanium dioxide was the most abun-

dantly-released engineered nano material (ENM) in aquatic environments. "Therefore, we took to assessing its fate and its effects on lower-level organisms in the aquatic food chain. A predator-and-prey-based laboratory microcosm was established using *Paramecium caudatum* and *Escherichia coli* (E-coli) to evaluate the effects of nano titanium oxide. Dhawan said that the results showed that there was malformation in the fishes which fed into these organisms. "We have already carried out this study in the lab and we intend to see the effects on the ground level now." Referring to the recent case in Japan where the human beings were affected after eating fishes that contained methyl mercury, he stated that it was important to showcase

this research so that the governments could form appropriate policies. "It is important to draw attention to these aspects so that appropriate policies can be formed. One cannot wait for disaster to happen," he added.

He said that it was primarily consumer products, which included largely cosmetic products, which brought in these nano particles in the aquatic bio life. "These nano particles are found in the sunscreens and the other cosmetics and are washed into the seas at the beaches and they also find their way into the rivers through homes," said the scientist. "We created a model system in the lab to see how the impact occurs in the lab and we will carry it out on the ground level soon," he added.

### Published in:

The Pioneer Page 4

Rashtriya Sahara Page 5, Hindustan Page 8, Amar Ujala Page 7, Hindustan Times Page 3, Navbharat Times Page 8, TOI Page 3



CSIR - CEERI

18<sup>th</sup> August 2017

### शोध कार्यों की प्रदर्शनी लगाई



**पिलानी** | सीएसआईआर की 75वीं जयंती पर सीरी पिलानी में चल रहे तीन दिवसीय प्लेटिनम जुबिली टेक्नोफेस्ट में दूसरे दिन गुरुवार को संस्थान के स्पोर्ट्स कॉम्प्लेक्स में स्थित गांधी हॉल में आमजन को शोध कार्यों की जानकारी देने के लिए प्रदर्शनी लगाई गई। शोध कार्यों की वीडियो स्क्रीन डिस्प्ले की सहायता से अर्जित उपलब्धियों को दिखाया गया। संस्थान के मुख्य वैज्ञानिक प्रो. राजसिंह ने बताया कि इसका उद्देश्य देश में सार्वजनिक क्षेत्र के सबसे बड़े शोध संगठन सीएसआईआर के बारे में आमजन को अवगत कराने के साथ ही सीरी की शोध उपलब्धियों की भी जानकारी देना है।

### सीरी में प्लेटिनम जुबिली टेक्नो फेस्ट शुरू

**पिलानी** | सीएसआईआर-सीरी में बुधवार को सीएसआईआर के प्लेटिनम जयंती (75वीं वर्षगांठ) के उपलक्ष्य में सीएसआईआर प्लेटिनम जुबिली टेक्नो फेस्ट शुरू हुआ। संस्थान निदेशक प्रो. शांतनु चौधरी ने फीता काट कर टेक्नो फेस्ट का शुभारंभ किया। प्रो. चौधरी ने सीएसआईआर की शोध गतिविधियों की जानकारी देते हुए बताया कि प्रदर्शनी में सीएसआईआर की राष्ट्रीय प्रयोगशालाओं की एयरोस्पेस, सामरिक क्षेत्र, इंजीनियरिंग, खाद्य व पोषण, जेनेरिक्स व हेल्थकेयर आदि क्षेत्रों में उपलब्धियों का प्रदर्शन किया गया है।

### Published in:

Dainik Bhaskar

Dainik Navjyoti Page 3, Rajasthan Patrika



CSIR - NML

22<sup>nd</sup> August 2017

**नया बदलाव**

एनएमएल में एचडीजीएस पर दो दिवसीय राष्ट्रीय कार्यशाला का उद्घाटन, जुटे विशेषज्ञ

# कार की उम्र बढ़ाएगी हॉट डिप गैल्वेनाइजिंग

जागरण संवाददाता, जमशेदपुर : गत कुछ दशक से ऑटोमोबाइल सेक्टर के लिए 'एडवांस्ड हाई स्ट्रेंथ स्टील' (एचएसएस) में नित नए बदलाव हो रहे हैं। इसी की छोटी लेकिन महत्वपूर्ण कड़ी 'हॉट डिप गैल्वेनाइजिंग ऑफ स्टील' (एचडीजीएस) है, जो खासकर कार की उम्र बढ़ाने में सहायक होगी। एचएसएस का उपयोग ना केवल ईंधन की खपत घटाता है, बल्कि वाहन के बाहरी व भीतरी परत को मजबूत बनाए रखता है।

ये बातें बर्माइंस स्थित धातुकर्म प्रयोगशाला (एनएमएल) में सोमवार को शुरू हुई एचडीजीएस की दो



एनएमएल में सोमवार को राष्ट्रीय कार्यशाला में उपस्थित अतिथि • जागरण

दिवसीय राष्ट्रीय कार्यशाला में कही गई। कार्यक्रम की अध्यक्षता करते हुए डॉ. मनोजीत दत्ता ने बताया कि जंग से सुरक्षा के लिए जिस स्टील पर थिनर की परत चढ़ाई जाती है, उसे भी अच्छी गुणवत्ता वाला होना चाहिए। इस्पात मंत्रालय व टाटा स्टील के सहयोग से आयोजित

कार्यशाला का उद्घाटन मुख्य अतिथि तार कंपनी (इंडियन स्टील एंड वायर प्रोडक्ट्स लिमिटेड) के प्रबंध निदेशक नीरज कांत व एनएमएल के निदेशक डॉ. इंद्रनील चट्टोराज ने किया। इस मौके पर बतौर विशिष्ट अतिथि आइएलजेडडीए, नई दिल्ली के कार्यकारी निदेशक एल.

पुगाजेंथी शामिल हुए। नीरज कांत ने कार्यशाला को इस्पात उद्योगों के लिए उपयोगी बताते हुए कंपनियों के साथ निरंतर संपर्क-संवाद करते रहने की बात कही। डॉ. इंद्रनील चट्टोराज ने बताया कि टाटा स्टील के सहयोग से एनएमएल पहले भी इस तरह की कार्यशाला की है। यह उद्योग, आरएंडडी सेंटर व अकादमिक संस्थानों के बीच ज्ञान व अनुभव साझा करने का बेहतर माध्यम है। कार्यशाला में टाटा स्टील, टाटा ब्लूस्कोप, जेकैपल, आरडीसीआइएस, सेल, बोकारो स्टील प्लांट, मारुति उद्योग लिमिटेड के अलावा आइआइटी व एनआइटी के प्रतिनिधि भाग ले रहे हैं।

**Published in:**

Dainik Jagran

Dainik Bhaskar, Hindustan, Prabhat Khabar



## Hyderabad: Atal Incubation Centre launched at CCMB

CSIR-CCMB

18<sup>th</sup> August 2017



The prestigious Atal Incubation Centre (AIC), a concept funded by Niti Ayog, was inaugurated at Hyderabad-based Centre for Cellular and Molecular Biology (CCMB) here on Friday.

While inaugurating the incubation centre, Jayesh Ranjan, Principal Secretary, Industries and Commerce, said Hyderabad had achieved fourth position as an incubation hub by developing close to 34 incubators.

“T-Hub in Hyderabad has become a national role model for everybody to emulate. To encourage start-ups, the State government has sanctioned Rs 250 crore. The upcoming Global Entrepreneurs Summit will also give a boost to Hyderabad’s image as an incubation hub,” said Ranjan.

He said AIC would make Hyderabad a hub of biotechnology and medical technology.

CCMB is one among ten other institutions in the country which were selected by Niti Ayog for setting up ‘Atal Incubation Centres’. Incidentally, CCMB is the only centre in Telangana and Andhra Pradesh to have been chosen to host such an incubation centre.



“CCMB has several advantages including funding from CSIR and wider reach for its technology. We also have recently started apple plantation in Araku valley in Andhra Pradesh and Adilabad in Telangana. Hyderabad is the hub of vaccines and pharmaceuticals industry and is positioned to be world leader in bio-therapeutics,” said Director, CCMB, Dr Rakesh K Mishra.

Dr N M Rao, Coordinator of AIC-CCMB said that CCMB had entered into MoUs with three companies for research in Life Sciences. Several industry pioneers of Hyderabad including Pradeep Mittal, Ajit Ragnekar, Anand Govindluri, Shakti Nagappan and Krishna Ella were present.

In all, 3,800 government institutions and private companies in India had applied to Niti Ayog to host this incubation centre. From Telangana, close to 230 applicants had applied to host the incubation centre, of which CCMB was the only institution which was selected.

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**Published in:**

[Telangana Today](#)



## CLRI's chemical-free method for unhairing skin

CSIR-CLRI

19<sup>th</sup> August 2017

These chemicals pose serious environmental problems as the effluent is rich in suspended solids.

Using enzymes produced by bacteria, scientists at the Chennai-based CSIR-Central Leather Research Institute (CSIR-CLRI) have removed hair from goat skin used in leather industry. This method was found to be safer and more environmental friendly than the conventional method of unhairing using lime and sodium sulphide. The results were published in Environmental Science and Pollution Research.

These chemicals pose serious environmental problems as the effluent is rich in suspended solids. Besides contamination, these effluents may also release noxious gases like hydrogen sulphide causing a serious health hazard.

A novel bacterium (*Bacillus crolab* MTCC 5468) was isolated and used for the study. This bacteria produces proteases (enzymes produced to break down protein) which have been found useful in unhairing processes. "The bacteria were isolated from the soil around the Buckingham canal close to Adyar region, Chennai, where a meat stall was located earlier. So the soil there was rich in proteinaceous matter making it an ideal spot for isolation of bacteria. Among the hundreds of isolated bacteria, the bacterium with highest ability to breakdown proteins (proteolytic activity) was selected and used," explains Dr. Chellan Rose was earlier with CLRI and one of the corresponding authors of the paper.



To extract the enzyme from the bacteria, scientists fermented wheat bran using the bacteria. The enzyme showed high proteolytic activity, which was 3.5 times greater than any reported for bacterial proteases.

## Enzyme evaluation

The effect of the enzyme on goat skin soaked in water was tested. Crude enzyme was added in different concentrations to the skin and let to soak. The enzyme was able to remove hair completely within four hours. According to J. Durga, at CLRI and one of the authors of the paper, the enzyme was stable over a wide range of alkaline pH (8 to 11).

The tensile strength, tear strength, elongation and shrinkage temperature of the leather were tested after further processing. The strength was found to be considerably better than leather processed by chemical method. The smoothness, fullness and texture were marginally better than the chemically processed ones.

The enzyme was found to remove hair completely, leaving no trace of any keratinous material. Microscopic study showed that the protease was able to penetrate much efficiently into the skin matrix and remove even the hair root.

“The environment friendly method should not compromise on quality. We are trying to change centuries-old, time-tested method of hair removal. The main aim was elimination of pollution without altering the product and we found that our enzyme treatment not only reduced pollution but also produced better quality leather compared with the chemically treated ones,” explains Dr. C. Muralidharan, Chief Scientist at the Leather Processing Division, CLRI and one of the corresponding authors of the paper.



## Effluent testing

The waste water after treatment was tested for the pollution load. The use of enzymes showed significant reduction in several parameters —biological oxygen demand (22%), chemical oxygen demand (58%), total dissolved solids (39%) and total suspended solids (22%) — compared with the chemical method. “The hydrogen sulphide that may form due to conventional unhairing process is a neurotoxin. This process lowers the environmental damage without altering the quality of leather,” says Mr. A. Ranjithkumar, research scholar at the institute and the first author of the paper.

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**Published in:**

[The Hindu](#)



## Scientists from NEERI take water samples of Kanhan's WTP for testing

CSIR-NEERI

18<sup>th</sup> August 2017

Swinging into action, scientists of Water Technology Department of National Environmental Engineering Research Institute (NEERI) collected samples of raw water from Water Treatment Plant on Thursday for testing. Samples were also taken from taps in East, North and few parts of South Nagpur as citizens have been complaining of poor quality of supplied water. The move followed request made by Orange City Water (OCW) so as to assuage feeling of citizens worried about their health suspecting poor quality of water.

The presence of Green algae due to scanty rains and high intensity sunlight owing to which OCW claimed it hard to separate owing to low water stock at the WTP.

Meanwhile, renowned water technology expert, Dr A G Bhole, former HoD, Civil Engineering Department, VNIT, also visited Kanhan WTP and checked the treatment process. He to backed OCW that the water from Kanhan River's WTP is potable and turbidness of water is owing to dissolved algae.

OCW has also taken steps to treat the backwash water and sludge is being recycled to improve the water quality. Similarly, the company claims that the supplied water is within parameters and presence of algae and turbidity is within acceptable limit and hence potable.



The OCW also cited NEERI scientists comments about presence of very fine colloidal of organic in raw water. NMC Water Works Committee Chairman Rajesh Ghodpage, OCW CEO Sanjoy Roy, NESL Executive Director Sanjay Gaikwad and other senior officials of NESL and OCW were present on the occasion.

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**Published in:**

[Hitavada](#)

[Nagpur Today](#) [TOI](#)



## आयुर्वेद से भी कर सकते हैं शूगर कंट्रोल मधुमेह से तकरीबन हर नौवां-दसवां शख्स पीड़ित है

CSIR-NBRI CSRI-CIMAP

20<sup>th</sup> August 2017

मौजूदा दौर में जिंदगी की भागदौड़ में लोग लाख कोशिशों के बावजूद अपनी सेहत पर पूरी तरह ध्यान नहीं दे पाते। इसकी वजह से शरीर अनेक ऐसी बीमारियों से पीड़ित हो जाता है कि कई बार ये बीमारियां जान लेवा तक साबित हो जाती हैं। हाईपट्रेंशन, खानपान पर ध्यान न दिये जाने की वजह से कोलेस्ट्रॉल और सबसे ज्यादा मधुमेह ऐसे रोग हैं जिनसे तकरीबन हर नौवां-दसवां शख्स पीड़ित है। हाईपट्रेंशन और इसकी वजह से पैदा होने वाला मधुमेह ऐसा रोग है जिसकी वजह से अन्य कई बीमारियां भी जन्म लेती हैं। इसके इलाज के लिए यूं तो एलोपैथ में जहां अनेक गोलियां और इंजेक्शन विकसित किये गए हैं, वहीं आयुर्वेद भी कहीं पीछे नहीं है।

लंबे अर्से तक चले वैज्ञानिक परीक्षणों और शोधों के बाद वैज्ञानिक औद्योगिक अनुसंधान परिषद (सीएसआईआर) ऐसी दवा खोज ली थी जिससे सफलतापूर्वक मधुमेह रोगियों का इलाज हो रहा है। बहुत से एलोपैथिक डाक्टर भी मधुमेह रोगियों को बीजीआर-34 नामक इस दवा को प्रसक्राइब कर रहे हैं। हाल ही में संसद सौंध में लगी विज्ञान प्रदर्शनी में भी इस दवा ने मंत्रियों, सांसदों और अन्य गण्यमान्य लोगों का ध्यान अपनी ओर खींचा है। बीजीआर-34 (ब्लड गुलोकोज रेगुलेशन) नामक यह दवा सीएसआईआर के लखनऊ स्थित शोध संस्थान नेशनल बॉटनीकल रिसर्च इंस्टीट्यूट (एनबीआरआई) और सेंट्रल इंस्टीट्यूट फॉर मेडिसिन एंड एयरोमैटिक प्लांट्स (सीमैप) ने पांच साल के अनुसंधान के बाद ईजाद की थी।



जिसको एमिल फार्मास्युटिकल्स के माध्यम से बाजार में उतारा था। इस दवा को प्रसक्राइब करने वाले कई डाक्टरों का कहना है कि मधुमेह रोगियों पर यह दवा काफी अच्छा प्रभाव छोड़ रही है। जो मरीज इस दवा का सेवन रेगुलर कर रहे हैं उन्हें शुगर कंट्रोल रखने में काफी मदद मिल रही है और साथ ही उन्हें यह एलोपैथिक दवा के मुकाबले किफायती पड़ रही है। निर्माता कंपनी के प्रबंध निदेशक केके शर्मा ने बताया कि बीजीआर-34 की एक टैबलेट की बाजार में कीमत महज पांच रुपए है। इसी वजह से डाक्टरों को गरीब से गरीब मरीजों को प्रसक्राइब करने में कोई दिक्कत नहीं होती। सीएसआईआर-एनबीआईआर (लखनऊ) के प्रिंसिपल साइंटिस्ट डा. एकेएस रावत का कहना है कि यह देश में निर्मित आयुर्वेद की पहली ऐसी दवा है जिसे बाजार में लाने से पहले दवा परीक्षणों की आधुनिक कसौटी पर परखा गया है। शोध करने वाले वैज्ञानिकों का कहना है कि उन 30 फीसद मधुमेह पीड़ितों के लिए यह वरदान साबित हो सकती है जो एलोपैथिक दवा के महंगा होने की वजह से इलाज नहीं कर पाते हैं। ऐसे लोग भी बचाव के लिए इस दवा का इस्तेमाल कर सकते हैं जिनकी उम्र 35-40 साल है और उनके परिवार में माता-पिता, या दादा-दादी आदि कोई मधुमेह से पीड़ित रहा हो।

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**Published in:**

Rashtriya Sahara Page 16



## VB Chinmaya Vidyalaya crowned champions of Materials and Metallurgy Quiz

CSIR-NML

18<sup>th</sup> August 2017



Dr. Indranil Chatteraj, Director, CSIR-NML, Jamshedpur formally inaugurated the programme. The event is dedicated to the memory of Late Prof. S N Sinha, an eminent educationist and past president of the IIM Jamshedpur Chapter.

The Indian Institute of Metals (IIM), Jamshedpur Chapter, organized the 5<sup>th</sup> “Professor S. N. Sinha Memorial Materials and Metallurgy Quiz 2017 for standard XI and XII students of Jharkhand State in CSIR-NML’s Auditorium, Burmamines on Thursday.

Six teams qualified in the screening round out of 38 teams, representing 19 schools. The qualifier schools were – DBMS English School, Vidya Bharati Chinmaya Vidyalaya, Loyola School, Narbheram Hansraj English School, DBMS Kadma High School, Atomic Energy Central School, Jaduguda.

In addition to 19 participating schools comprising of 76 students along with teachers, many dignitaries from Tata Steel and CSIR- NML attended the function. The Chief Guest,

After series of interesting rounds, Prashjot Singh and Nishant Kumar Satyam from Vidya Bharati Chinmaya Vidyalaya were declared champions.



Abhimanyu Shome and Souvik Ghosh from Narbheram Hansraj English School got Second Rank while Nikhil Nilesh and Abhishek Kr. Patra from Loyola School stood third.

The two winning team will get opportunities to participate in Professor Brahm Prakash Memorial Materials Quiz – 2017 to be held at IGCAR, Kalpakkam during Sept. 6-9, 2017.

Earlier, the programme started with floral tribute to Late Prof. Sinha by Dr. Indranil Chatteraj, Director, CSIR-NML, Dr. S.K. Ajmani, Vice-Chairman IIM Jamshedpur Chapter, Mrs. Gayatri Sinha, wife of late Prof. S N Sinha and Dr. A. N. Bhagat, Secretary, IIM, Jamshedpur Chapter.

Over the years, this Quiz Competition has attracted appreciation from researchers and industrialists and considered a prestigious annual event of the Kalpakkam Chapter of IIM.

The National Level “Prof. Brahm Prakash Memorial Materials Quiz” has gained wide popularity within student community. More than 50 teams comprising 100 students from all around the country participate every year.

This programme was initiated as an effort to create awareness among the students about the role of materials science and metallurgy in industrial and technological developments.



While delivering the inaugural address, Chief Guest Dr. I. Chatteraj, Director, CSIR- NML said,” Prof. Sinha was a true gentleman and popular among the students and materials related societies.

Dr. Chatteraj said that humanity has been divided based on metals and their discoveries such as Iron Age, Copper Age and Bronze Age.

He emphasized on “two aspects of recent human developments particularly in the 19th and 20th century, which are information technology and materials engineering”.

Dr. Chatteraj wished that the two winning teams who brought the laurels to Jharkhand, as they would not be representing only their schools but Jharkhand State. Dr. A.N. Bhagat, Secretary IIM Jamshedpur Chapter proposed the Vote of Thanks.

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**Published in:**

[Avenue Mail](#)

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## Famers made aware on cultivation of aromatic plants

CSIR-IIIM

16<sup>th</sup> August 2017

CSR-Indian Institute of Integrative Medicine, Jammu organised an awareness programme on cultivation of aromatic plants at Girls Higher Secondary School, Darhal, Rajouri for twin districts of Rajouri and Poonch for enhancement of income of rural marginalised farmers.

Farmers were introduced to the cultivation of aromatic plants aiming at improving the socio-economic conditions of the State in general and farming community in particular by introducing these high value cash crops to the farmers and progressive growers.

Director, IIIM, Jammu Dr. Ram Vishwakarma informed the audience about the aims and objectives of the programme and highlighted the

importance of aromatic crops. He said that J and K State is ideally suited for the cultivation of high value aromatic plants throughout the year. Cultivation of aromatic plants has assumed greater significance as it has not only huge employment potential but surely has greater impact to increase the income levels of the society as a whole. He emphasised that cultivation of these crops will open up new opportunity for the farmers and unemployed youths for production of aromatic oils which is natural base stock for aroma, perfumery, personal care, home care, insecticide repellents, aroma therapy, food supplements and nutraceuticals industry.



Detailed presentation and demonstration were held for the farmers and progressive growers in the area of cultivation of aromatic plants, intercropping of aromatic plants in agriculture crops, funding opportunities for innovations to farmers, start-ups and entrepreneurs for developing Aromatic products by value addition of aromatics produce. Presentation and demonstrations was given to the farmers by Dr. Suresh Chandra, Chief Scientist, Dr Rajendra Bhanwaria and Dr. S. R Meena, CSIR-IIIM, Jammu.

An interactive meet between farmers and scientists was also held at the end of the programme in which salient features of improved agro-technologies and marketing tips were provided to the growers. Around 400 participants including farmers and progressive farmers participated from Rajouri and Poonch Districts,

Vote of thanks was proposed by Abdul Rahim Sr. Principal Scientist and Head PME, CSIR-IIIM, Jammu.

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**Published in:**

[News. StateTimes](#)



CSIR - IIP

15<sup>th</sup> August 2017



आइआइपी में आयोजित टेक्नोफेस्ट में प्रदर्शनी का अवलोकन करते कार्मिक व अन्य लोग।

## आइआइपी के टेक्नोफेस्ट में तकनीक का प्रदर्शन

जागरण संवाददाता, देहरादून: वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद (सीएसआइआर) के प्लैटिनम जुबली वर्ष पर आयोजित टेक्नोफेस्ट में परिषद की भारतीय पेट्रोलियम संस्थान समेत विभिन्न प्रयोगशालाओं की तकनीक का प्रदर्शन किया गया।

सोमवार को आयोजित टेक्नोफेस्ट का शुभारंभ भारतीय पेट्रोलियम संस्थान (आइआइपी) के कार्यवाहक निदेशक अमर कुमार जैन ने किया। उन्होंने कहा कि सीएसआइआर अपनी स्थापना के 75वें वर्ष में प्रवेश कर चुका है और इस

अंतराल में यहां के वैज्ञानिकों ने कई उन्नत तकनीक ईजाद की हैं। आइआइपी की वैक्स डी-ऑयलिंग और विश्व स्तर के गैसोलीन के निर्माण में सहायक तकनीक का प्रदर्शन टेक्नोफेस्ट में किया जा रहा है। तकनीकी निदेशालय के प्रमुख डॉ. डीसी पांडे ने बताया कि 16 अगस्त तक चलने वाले टेक्नोफेस्ट में एयरो स्पेस, हेल्थ केयर, पेयजल, रेडियो, बिल्डिंग मैटीरियल, पर्यावरण आदि से संबंधित तकनीक को प्रदर्शित किया जा रहा है। केवि आइआइपी समेत विभिन्न स्कूलों के छात्रों ने प्रदर्शन का निरीक्षण किया और जानकारी प्राप्त की।

**Published in:**

[Dainik Jagran](#)

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