





NEWS BULLETIN

01 TO 05 SEPTEMBER 2021







NAL's Hansa-NG has successful maiden flight





The two-seater Hansa New Generation (Hansa-NG) aircraft, a revamped version of the original Hansa developed three decades ago, had a successful maiden flight Friday when it took off from the HAL airport and flew for about 20 minutes. Designed and developed by the National Aerospace Laboratories (NAL) in Bengaluru, the aircraft was flown by test pilot Captain Amit



Dahiya to an altitude of 4,000 feet and gained a speed of 80 knots before landing, the NAL said in an official statement. Dahiya said all flight parameters were normal.

The unique features of the two-seater include a glass cockpit with cabin comfort, digitally controlled engine, electrically operated flaps, long endurance, low acquisition and low operating cost. NAL, which is a Council of Scientific and Industrial Research (CSIR) institution, has signed a Memorandum of Understanding (MoU) with the Indira Gandhi Rashtriya Uran Akademi (IGRUA) to be the possible launch customer for Hansa-NG.

The defence sector can also use Hansa-NG for cadet training and coastal surveillance, the NAL said. It will help create job training opportunities for ITI and diploma holders in various aircraft building and training disciplines, NAL officials said.

In 2018, CSIR-NAL and Mesco Aerospace Ltd had signed a collaborative agreement for the design, development, production and marketing of Hansa-NG to ease the availability of indigenous aircraft for the purposes of training for private and commercial pilot licences.





CSIR-NAL has already received 72 Letters of Intent from various flying clubs and the aircraft will be certified within the next 4 months before it gets inducted into service. The flight was monitored in telemetry by senior officers and scientists/engineers from the Directorate General of Civil Aviation (DGCA), Centre for Military Airworthiness & Certification

(CEMILAC) and CSIR-NAL.







Krishi Jagran to Organize Webinar on "Growth of Indian Agriculture in last 25 years & Future Prospects"

CSIR-CMERI

4th September, 2021

On the joyous occasion of completing 25 **Silver Jubilee Webinar Series** 25 Webinar 1 years in the industry, Krishi Jagran is Growth Of Indian Agriculture ANNIVERSARY & Prospects For Coming 25 Years KRISHI JAGRAN starting a series of webinars from 5th Growing with farmers September, Sunday, 11 am onwards. The first in the series will be about "The Growth of Indian Agriculture in the Last 25 Years Krishi Jagran & Agriculture World Guest Speakers & Future Prospects". Through these years, Krishi Jagran has been, voicing the struggles, problems & achievements of farmers, and has witnessed how the agriculture sector in India has changed over SEPTEMBER 202 the years. From using bullocks to plough the facebook.com/krishijagran field to using High-end tractors & the latest technology equipments, Indian Farmers have come a long way and so has Indian agriculture! India's Food Grain Production has increased tremendously over the last 2 decades; it reached 303.34 million tonnes in the year 2020-21. The reason: increase in productivity due to adoption of new technologies, more intensive use of manufactured inputs, such as fertilizers, and the efficiencies gained as farm production shifted to larger more specialized operations. Not forgetting the tireless hard work of farmers, Research by Agricultural Scientists and farmer friendly policies of the Government.

Indian Agriculture has changed a lot over the years but one thing that has remained the same is that it has continued to be the primary occupation of most of the people of the country. More than 50% of the people depend on this sector for their livelihood and will continue to do SO.





To discuss all the developments that have taken place in the last 25 years and what are future prospects in the industry, we have organized a webinar on 5th September, Sunday.

The event will be moderated by MC Dominic, Founder & Editor in Chief of Krishi Jagran &



For the very first webinar, Krishi Jagran has invited eminent personalities from the industry, who will be sharing their knowledge and opinions on the above topic. The guest speakers include **JP Sharma**, Vice-Chancellor, SKUAST, **VK Gaur**, CMD, National Seeds Corporation, **Sanjay Kumar Rakesh**, CEO, CSC SPV, **Pradip Rajan**, Principal Scientist, CSIR CMERI, **Subeer Majumdar**, Direction, NIAB, **Manoj Sharma**, Assistant Director, Ministry of Agriculture, **Aman Kumar**, Trishulli Producer Company Limited and **Ganga Ram**, Innovative Farmer Awardee- 2021.

Finally, the Vote of thanks will be conveyed by **Chander Mohan**, President, Government Affairs, Krishi Jagran.







CSIR-IMMT

4th September, 2021





Barry O Farrell visits Instiward for such collaboraal Processing Pilot Plant tute of Minerals and Matetive academic and industrial and Hydro & Electro Metrials Technology, research work on critical tallurgy Pilot plant to wit-Bhubaneswar along with minerals for the betterment ness the ongoing research Ms Rowan Ainsworth Conof the Industry and Socieworkwhere Dr. Ashok Sahu, sul General, Kolkata and ty", he said. Head, Dept of Mineral Pro-Prof.Dr. SBasu, Director, cessing and Dr Kali Sanjay, others.



Published in:

Statesman





CSIR- NAL

3rd September, 2021



एनएएल की ओर से दी गई जानकारी के अनुसार यहां शुक्रवार को एचएएल हवाई अड्डे से हंसा-एनजी ने अपराह्न 2.09 बजे उड़ान भरी और लगभग 20 मिनट बाद सफलतापूर्वक लैंड किया। इस दौरान विमान ने 4 हजार फीट की ऊंचाई को छुआ और 80 नॉट की गति पकड़ी। विमान के साथ टेस्ट पायलट कैप्टन अमित दहिया ने उड़ान भरी और कई मानदंडों पर परखा। उन्होंने उड़ान को शानदार और तमाम मानदंडों पर खरा बताया। सीएसआइआर-एनएएल के महानिटेशक श्रेय्वर सी मंडे ने

हंसा विमान के प्रोटोटाइप ने वर्ष 1993 में उड़ान भरना शुरू किया था। कड़े परीक्षणों से के बाद वर्ष 2000 में उसे मंजूरी प्रदान की गई। 2001 से 2010 के बीच एनएएल ने 14 हंसा विमान विकसित कर उन्हें विभिन्न फ्लाइंग क्लबों को उपलब्ध कराया। इन विमानों ने हवा में हजारों घंटे बिताए हैं। केंद्र सरकार ने वर्ष 2018 में हंसा-एनजी परियोजना को मंजूरी दी

कंप्लिएंट एवियोनिक्स, पहले ही प्राप्त हो चुके हैं। अगले स्मार्ट के महानिदेशक शेखर सी.मंडे ने मल्टी फंक्शनल डिस्प्ले, ग्लास चार महीनों के दौरान इसे प्रमाणित इस उपलब्धि को मौल का पत्थर किया जाएगा और फिर सेवा में कॉकपिट और बबलन कैनोपी बताया। डिजाइन से लैस है। इसमें रॉटेक्स शामिल हो जाएगा। 'हंसा-एनजी' 'हंसा-एनजी' को लेकर उड्डयन 912 आइएससी जैसा दमदार इंजन में एनजी का अर्थ 'न्यू जेनेरेशन' क्षेत्र में खासा उत्साह है। एनएएल लगा है, जो पूरी तरह डिजिटल रूप है। आधिकारिक जानकारी के ने कहा है कि विभिन्न फ्लाइंग से नियंत्रित होता है। अनुसार यह विमान आइएफआर क्लबों से करीब 72 अभिरुचि पत्र

और एनएएल ने हंसा-3 को ग्लास कॉकपिट और अन्य उपकरणों से सुसज्जित किया। किफायती दरों पर उपलब्ध यह विमान प्रदर्शन के पैमाने पर दमदार है। यह स्वदेशी विमान पायलटों के निजी और वाणिज्यिक प्रशिक्षण के काम आएगा। एयरफील्ड पर पक्षियों की टोह लेने, कैडेट प्रशिक्षण, तटीय निगरानी और शौकिया उड़ानों में भी उपयोगी होंगे।

Published in:

Patrika News





Scientists develop bio-methanation tech for integrated treatment of sewage, organic solid waste



3rd September, 2021

New Delhi, Sep 3 (PTI) Scientists have developed a new high-rate bio methanation technology for the integrated treatment of sewage and organic solid waste with concomitant generation of biogas, bio manure and reusable water, the Department of Science and Technology (DST) said on Friday. The technology has decentralised application across India, it said.

Solid and liquid wastes are the major challenges being faced by big cities and by areas witnessing rapid urbanisation and these need to be tackled by sustainable technology. An integrated treatment of sewage along with organic solid waste can help evolve a sustainable technology to overcome solid and liquid waste disposal issues.

A Gangagni Rao, chief scientist, and S Sridhar, senior principal scientist at the CSIR-Indian Institute of Chemical Technology (IICT), have jointly developed this high-rate bio methanation tech based on Anaerobic Gas lift Reactor (AGR) technology for the treatment of organic solid waste and concomitant generation of biogas and bio manure along with nanofiltration (NF) setup.

This integrated and sustainable sewage and organic solid waste treatment system can be used for treating groundwater and wastewater and generating potable and reusable water

respectively.

The technologies, supported by the "Waste Management Technology" programme of the Department of Science and Technology (DST), have received national patents individually. Instead of sending the organic solid waste and liquid waste to common bigger facilities in the city, those can be treated at source in a decentralised manner. Urban and local bodies and gated communities comprising around 50,000 to 1,00,000 population can benefit from this





technology, said Rao and Sridhar. An integrated model plant comprising of AGR and NF technologies has been established at CSIR-IICT, Hyderabad, for simultaneous treatment of sewage and organic solid waste for the generation of value-added products such as biogas, bio manure, and reusable water.

The technology is field-tested and working continuously for the past two years. This integrated approach of sewage and organic solid waste treatment can be used where municipalities with around 50,000 to 1,00,000 population generate approximately two to four million litres of sewage daily and five to 10 metric tonnes of organic solid waste each day, DST statement added. PTI PR NSD





KOCHI: Scientists at Cusat have developed a novel method for the synthesis of in situ exfoliated magnetic anionic clay that exhibits high magnetic hyperthermic properties. It can help target cancer treatment and provide localised intervention.

The research proposed by Dr Sailaja G S (principal investigator) is being funded by DST SERB - Early career research grant. PhD student Anjana K is the project fellow. The compound was developed and biological evaluations were performed in Cusat. The magnetic measurements were carried out in the lab of Dr Manoj Raama Varma, chief scientist- CSIR NIIST, who is the co-inventor and co-investigator of the project.

"Magnetic hyperthermia is an advanced strategy for the treatment of cancer with minimum side effects to normal tissues. Unless certain intercalation or post-synthesis strategies are performed, the exfoliation of layers is very difficult for normal anionic clay due to the strong electrostatic interaction between the layers," said one of the researchers.

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<u>Newindianexpress</u>





CSIR-CFTRI

3rd September, 2021



producing healthy snacks

Institute to host webinar on September 21 and 22

SPECIAL CORRESPONDENT MYSURU

Consumers' preferences for snacks that deliver on health, convenience and taste have sparked innovations in many of the healthy snack segments. In this regard, CSIR-Central Food Technological Research Institute (CFTRI) is organising a two-day webinar on "Innovative and Healthy Snacks" on September 21 and 22 under the CSIR Integrated Skill Initiative for the benefit of start-ups SMEs, entrepreneurs, and micro-entrepreneurs working in the area of food processing. The webinar would focus



IR and health promoting snacks in meeting the increasing demand.
It will also provide an insight into the opportunities for MSMEs and start-ups with respect to Indian snack industry, including Return of Investment (RoI), sensory and consumer acceptance studies, plant layout and cery. tifications.

ma in any subject, a release from the CFTRI said. Registration fee has been fixed at ₹8885 (including GST) and can be paid through SBI Collect. The details may be found https:// at www.cftri.res.in/PDF/Workshop on Healthy Snacks-Brochure.pdf or contact the Head, PMC, (E-mail: pmc@cftri.res.in]. Those who are interested may apply online for the programme on or before September 9.

A file photo of CSIR-Central Food Technological Research Institute in Mysuru.

on formulations, manufacturing quality and other regulatory requirements in the Indian snack food industry. The selected topics would also cover various aspects for establishing sustainable business models for functional

Target audience for this workshop are aspiring entrepreneurs who have completed their graduation or diplo-

Published in:

The Hindu





CSIR-IHBT

3rd September, 2021



Published in:

Divya Himachal



DNA fingerprinting taken for crime suspects or convicts is only of a "certain negligible part" looking for more variations to prove the uniqueness of the person concerned and will not give out any background, identity or religion, clarified Director of the Centre for DNA Fingerprinting and Diagnostics (CDFD) K. Thangaraj on Thursday.

A different set of markers are used to trace the human origin and evaluation with the entire DNA or genome when the background of the person is known, he explained, in an effort to differentiate between using the technology for solving crimes and genetic study for population studies, during a webinar on 'DNA Fingerprinting Technology – its success and future'

organised by Council of Scientific & Industrial Research (CSIR).

Mr. Thangaraj, also Chief Scientist of the CSIR-CCMB, said the technology is to be used only for suspects and convicts with a specific timeline with the profile to be destroyed if proved innocent as per the proposed Bill. While England's Dr Alec Jeffery is the father of the DNA fingerprinting technology, he traced its development here due to research efforts by CDFD founder-director Lalji Singh.

Dr. Singh was studying the evolution of sex determination through chromosomes of

poisonous snakes following which individual specific banding pattern was identified. This technology over the last 25 years has helped to solve many complex crimes like establishing the identity of killers of former Prime Minister Rajiv Gandhi.

Suicide bomber Dhanu and mastermind Sivarasan were identified after taking DNA from the respective parents from Sri Lanka and compared with the DNA obtained from the dead bodies. Incidentally, the ex-PM inaugurated the CCMB from where CDFD originated.





While there are privacy and individual freedom issues, it is possible to ensure innocents are not convicted if the DNA technology is accepted by the legal fraternity and also ensure 100% conviction rate, observed professor of the National Law University G.K. Goswami. In United States alone about 20 people on the death row have been saved as DNA evidence helped, he said and explained close to 60 countries have got the legislations, yet none has come up with an iron clad one.

Currently, DNA fingerprinting is being done for those accused of sexual offences and those involved in other crimes can seek the court's permission to prove their innocence. Proessor in NALSAR University of Law K.V.K. Santhy said a legal framework for exoneration has been lacking for the innocent and spoke of the fears of DNA profiling in data collection and maintenance. CSIR-CCMB Director N. Vinay also spoke while Dr. Shika moderated the discussion.



CSIR-CSMCRI

2nd September, 2021

Celebration of Jigyasa-Vigyan Jyoti outreach program under

the umbrella of Azadi ka Amrit Mohatsav

સેન્ટ્રલ સોલ્ટ દ્વારા આઝાદીના અમૃત મહોત્સવની ઉજવણી પ્રકુલ્લચન્દ્રરાયના વિજ્ઞાન ક્ષેત્રે યોગદાન અને હાનિકારક જીવાણું વિશે ચર્ચા કરવામાં આવી સમજાવ્યું કે કેવી રીતે સુક્ષ્મ SHORE I SICIPITION વિજ્ઞાન નો અભ્યાસ કરી પોતાના સેન્ટ્રલ સોલ્ટ ભાવનગર દ્વારા ક્ષેત્રમાં સફળ થઈ શકાય છે. સીએસઆઈઆર જિજ્ઞાસા વિજ્ઞાન એમણે જીવાણુઓ થી થતા જ્યોતિ કાર્યક્રમ અંતર્ગત આઝાદી રોગો તથા તેનાથી બચાવના ના અમૃત મહોત્સવની ઉજવણી ઉપાયો વિશે વાત કરી. તેમણે માટે પરિસંવાદ(વેબિનાર) નું લાભદાયક ની સાથે હાનિકારક આયોજન કરવામાં આવ્યુ હતું. જીવાણુઓ વિશે પણ વિદ્યાર્થીઓને કેન્દ્રીય નમક અને સમુદ્રી રસાયણ માહિતી આપી હતી. તેઓએ અનુસંધાન સંસ્થાન ભાવનગર એન્ટિબાયોટિક દવાઓના લાભ એ તા. 31 ઓગસ્ટ ના રોજ તથા એન્ટિબાયોટિક પ્રતિરોધથી યોજાયેલ ઓનલાઇન પરિસંવાદ આપણા શરીર પર થતા પ્રભાવ માં ડૉ. ડુંગર રામ ચૌધરી , વિશે માહિતી આપી હતી. પ્રધાન વૈજ્ઞાનિક એ ધોરણ 9 થી વિદ્યાર્થીઓએ એન્ટિબાયોટિક પર 12 સુધીના વિદ્યાર્થીઓને સંબોધ્યા દેખાડેલ સ્લાઈડ્સ અને વીડિઓને ખુબ રૂચિપૂર્વક જોયા અને પોતાની હતા. ડૉ.ચૌધરી એ આચાર્ય પ્રફુલ્લ વૈજ્ઞાનિક જિજ્ઞાસા અનુસાર પ્રશ્ન ચન્દ્ર રાયના જીવન તથા વિજ્ઞાન પછ્યા જેમના જવાબ ડૉ. શ્રુતિ જગતમાં તેમના યોગદાન વિષે ચેટર્જીએ ખૂબ રસપ્રદ રીતે આપ્યા. વિદ્યાર્થીઓને માહિતીગાર કર્યા. આ કાર્યક્રમમાં જવાહર નવોદય કાર્યક્રમને આગળ વધારતા વિદ્યાલય (દીવ, ભાવનગર તથા સીએસઆઈઆર- ના વૈજ્ઞાનિક અમરેલી), કેન્દ્રીય વિદ્યાલય ડૉ. શ્રુતિ ચેટર્જીએ વિદ્યાર્થીઓને , દીવ તથા સરકારી ઉચ્ચતર સૂક્ષ્મ વિજ્ઞાન તથા જીવાણુઓ માધ્યમિક વિદ્યાલય, દીવ ના વિષે સમજાવ્યું હતું. તેઓએ વિદ્યાર્થીઓએ ભાગ લીધો હતો.

Published in:

Saurashtra Samachar

Indian Standard Time was introduced on this day 74 years ago. But is one time zone enough for India?

1st September, 2021

Two time zones will allow aligning standard time with daylight time, helping the circadian rhythm and also save millions of kWh of electricity every year.

India's national timekeeper, CSIR-NPL, estimates the country's potential savings in energy consumption to be 20 million kWh a year if it follows two time zones. When someone asks you the time, you would have the same answer, whether you are in Kibithu in Arunachal Pradesh or in Ghuar Mota in the Kutch region of Gujarat. Because both the regions are unified by the Indian Standard Time or IST.

On this day 74 years ago (September 1, 1947), the phenomenon of IST was introduced to the country as its official time. The standard time of five and a half hours ahead of Greenwich Mean Time is observed throughout the country, from Kang La to Cape Comorin, and from Kibithu to Ghuar Mota — the northern, southern, eastern and western extremes of India. And this is not really a good thing. We don't say so, science does. For a good reason. If you were to travel across the breadth of the country, it would take you 2 days, 21 hours and 36 minutes of non-stop driving. India stretches a little less than 3,000 kilometres from east to west, spanning from 68°7'E to 97°25'E (a spread of 29° longitude), with a two-hour difference in mean solar times. Meaning that the sun rises two hours earlier in Arunachal Pradesh than in Gujarat.

Over the years, people in the north-eastern states have protested against this, demanding a separate time zone for the region. This is primarily because the sun rises and sets earlier there than the official working hours, and the states lose on the vital daylight. The sun rises as early as 4 in the morning in summers. However, the working hours for offices open at 10 in the

morning. Hours of productivity down the drain, besides affecting their bodies' circadian rhythm.

This was established by India's national timekeeper — Council of Scientific & Industrial

Research's National Physical Laboratory (CSIR-NPL) — which maintains the IST. Scientists at the NPL published a research article describing the necessity of two time zones. The research suggests two time zones — IST-I and IST-II, with the new one an hour ahead of the existing time zone. The new one will cover the northeast region and can be demarcated from the other time zone at what the researchers call the "chicken neck" that connects the Northeast to the rest of India.

The research paper further establishes that India's potential savings in energy consumption could be as high as a whopping 20 million kWh a year if it follows two time zones. How? Simply by using the many daylight hours, which are now being wasted in the eastern region, and calling it a day there with the early sunset, leading to lower consumption of electricity. Besides the electricity, we would also have healthier and happier people who adhere to their circadian rhythm. Wake up and go to bed with the sun. Even now, unofficially, the tea gardens of Assam have been following 'Chaibagaan time' which is one hour ahead of the IST. And this is not new to India. The system we followed before IST was of three time zones! Before independence, the country was following the Bombay, Calcutta and Madras time zones — based on the local times for the three presidencies. The time zones were decided on the basis of longitudes and were followed by all the regions around them. Calcutta was set at Universal Time Coordinated (UTC) or Greenwich Mean Time (GMT) +05.54, making it 24 minutes ahead of the current IST. Madras was set at UTC+05:21 making it nine seconds behind the current IST. Bombay was at UTC+04:51, making it 1:19 minutes behind the current IST. The Bagan Time (or the time for the northeast) was around UTC+06:30, making it an hour ahead of the current IST.

And this is more or less what science suggests and the Northeast demands. However, as is the case with any change, the bottleneck comes from the political quarters. Even last year when the question was posed in the Parliament, Dr Harsh Vardhan, the then Minister of Science & Technology, Health and Family Welfare and Earth Sciences responded saying, "...The matter

was examined by a High-Level Committee (HLC). This committee comprising the Secretary, Department of Science and Technology, Director, Council of Scientific and Industrial Research-National Physical Laboratory (CSIR-NPL) and Chief Secretary, Government of Tripura. The HLC after considering the issue recommended not to have two time zones for India for strategic reasons."

We are not sure what the strategic reasons are, but the strategy sure isn't working for the Northeast. So, till we have two time zones, the snooze button is not an option for the seven sisters and their brother.

Australian High Commissioner to India visits CSIR-IMMT Bhubaneswar

1st September, 2021

Bhubaneswar, 1st September 2021: Australian High Commissioner to India H.E. Mr Barry O Farrell visits CISR – Institute of Minerals and Mines, Bhubaneswar today along with Ms Rowan Ainsworth Hon'ble Consul General, Kolkata, Australian High Commission, Ms Ami Keough, 1st Secretary, Australian High Commission and Mr Partha Sen, Business Development Manager, Australian Trade Investment Commission.

Speaking about his visit Mr Barry said, I am very happy to see such world class research work going on at IMMT. It's also good to see collaborative research work already being done by IMMT along with different Australian institutes and Govt agencies. We are looking forward for such collaborative academic and industrial research work on critical minerals for the betterment of the Industry and Society. Hon'ble Consul General, Ms Rowan expressed her happiness seeing such partnership in research work between Australia and IMMT.

Speaking on this occasion, Prof. Dr. S Basu, Director, CSIR, IMMT, Bhubaneswar said, we are happy to showcase our academic and industrial research work to H.E. Mr Barry and his team. We look forward to work with Australia in the research work of critical minerals and Geographical sensitive areas.

H.E. Mr Barry visited Mineral Processing Pilot Plant and Hydro Electrical Meteorological Pilot plant to witness the ongoing research work where Dr. Ashok Sahu, Head, Dept of Mineral Processing and Dr Kali Shankar, Head Dept of Hydro Electrical Meteorology demonstrated the research work.

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"Visit of His Excellency, Mr. Barry O' Farrell, The Australian High

Commissioner to India & Esteemed Delegates to CSIR-IMMT, Bhubaneswar".

ଅଷ୍ଟ୍ରେଲିଆ ଉଚ୍ଚାୟୁକ୍ତଙ୍କ ସିଏସ୍ଆଇଆର୍ ଆଇଏମ୍ଏମ୍ଟି ପରିଦର୍ଶନ

ଭୁବନେଶ୍ୱର,୧୯(ବ୍ୟୁରୋ): ଭାରତର ଅଷ୍ଟ୍ରେଲିଆ ଉଚ୍ଚାୟୁକ୍ତ ବେରୀ ଓ ପାରେଲ ଭୁବନେଶ୍ୱର ସିଏସ୍ଆଇଆର୍– ଇନ୍ଷିବ୍ୟୁଟ୍ ଅଫ୍ ମିନେରାଲ୍ସ ଆଷ୍ଟ ମ୍ୟାଟେରିଆଲ୍ସ ଟେକ୍ନୋଲୋକି ପରିଦର୍ଶନ କରିଛନ୍ତି । ତାଙ୍କ ସହିତ କୋଲକାତାର ଅଷ୍ଟ୍ରେଲିଆ କନସୁଲ ଢେନେରାଲ ରୋଷ୍ୱାନ ଆନସ୍ୱୃର୍ଥ, ପାଷ୍ଟ ସେକ୍ରେଗରୀ ଆମି କଫ୍ ଓ ଅଷ୍ଟ୍ରେଲିଆନ୍

ଏକାଡେମିକ୍ ରିସର୍ଚ୍ଚ କାମକୁ ପ୍ରଦର୍ଶିତ କରିଛୁ । ଆଶା କରୁଛୁ ଆଗାମୀ ଭବିଷ୍ୟତରେ ଆମେ ଅଷ୍ଟ୍ରେଲିଆ ସହ ମିଳିତ ଭାବେ କ୍ରିଟିକାଲ ମିନେରାଲ ଓ ଭୌଗଳିକ ସନ୍ୟେଦକଶୀକ କ୍ଷେତ୍ରରେ ଅନେକ ରିସର୍ଚ୍ଚ କାର୍ଯ୍ୟ କରିବୁ । ଏହାପରେ ବେରୀ ଓ ତାଙ୍କ ଟିମ୍ ମିନେରାଲ ପ୍ରୋସେସିଂ ପାଇଲଟ୍ ପ୍ୱାଣ୍ଣ ଏବଂ ହାଇଡ୍ରୋ ଇଲେକ୍ଥିକ୍ ମେଟରୋଲୋଜା

ପାଇଲଟ୍ ପ୍ଲାଣ୍ଣ ପରିଦର୍ଶନରେ ଯାଇଥିଲେ । ଆଇଏମ୍ଏମ୍ଟିର ମିନେରାଲ ପ୍ରୋସେସିଂ ବିଭାଗ ମୁଖ୍ୟ ତ. ଆଶୋକ ସାହୁ ଓ ହାଇତ୍ରୋ ଇଲେକ୍ଥିକାଲ ମେଟରୋଲୋଜୀ ବିଭାଗ ମୁଖ୍ୟ ତ. କାଳୀ ସଂଜୟ ଏହି ପରିଦର୍ଶନ ସମୟରେ ପ୍ଲାଣ୍ଟର ସମସ ରିସର୍ଚ୍ଚ କାର୍ଯ୍ୟ ସୟନ୍ଧରେ ବିବରଣୀ ପ୍ରଦାନ କରିଥିଲେ ।

ଟ୍ରେଡ୍ ଇନ୍ଭେଷମେଷ କମିସନର ବିକିନେସ୍ ଡେଭଲପମେଷ ମ୍ୟାନେଜର ପାର୍ଥ ସେନ୍ ଉପସ୍ଥିତ ଥିଲେ । ଏହି ଅବସରରେ ବେରୀ କହିଲେ, ମୁଁ ଆଇଏମ୍ଏମ୍ଟି କ୍ୟାମ୍ପସ୍କୁ ଆସି ଖୁବ୍ ଆନବ୍ଦିତ । ଏଠାରେ ଏପରି ବିଶ୍ୱଞରୀୟ ରିସର୍ଚ୍ଚ କାର୍ଯ୍ୟ ବେଖି ଖୁସି ଲାଗୁଛି । ଅଷ୍ଟ୍ରେଲିଆ ଉଚ୍ଚାୟୁକ୍ତଙ୍କ

ଏହି ପରିଦର୍ଶନରେ ସିଏସ୍ଆଇଆର୍-ଆଇଏମ୍ଏମ୍ଟିର ନିର୍ଦ୍ଦେଶକ ପ୍ରଫେସର ଏସ୍. ବାସୁ କହିଲେ, ଆମେ ଆମର

Prameya

CSIR-IIP

5th National Symposium on Shaping the Energy Future held at IIP

By OUR STAFF REPORTER DEHRADUN, 27 Aug: The 5th National Symposium on Shaping the Energy Future: Challenges and Opportunities 2021 (SEFCO-2021) was organised by the CSIR-Indian Institute of Petroleum, here, today. It focused upon "Zero-

energy sector to secure the future of humanity in general. He also appreciated the students of CSIR-IIP for organising the National Symposium-SEFCO regularly and taking it to its 5th edition.

Vartika Shukla delivered her lecture on "Zero-Emission Energy Alternatives". She

Emission Energy Alternatives". The symposium provided a common platform to discuss energy and allied subjects by scientists and leading technologists from industries and academics.

The highlights of the events were - Technologies Powering the Transition to Sustainable Energy and Fuels; Enhancing Sustainability of Materials and Processes in Energy Value Chains; Recent Advances in Biochemistry and Biotechnology. The scientific Innovation and Alternative. sessions were composed of Energy, Nayara Energy Ltd). invited talks, oral and digital Over 400 delegates from across. poster presentations and a linethe country virtually attended up of 15 expert speakers. the event through virtual Virtual talks were given by platforms, i.e., MS Teams, the Chief Guest, Vartika Shukla YouTube live and Facebook live (Director, Engineers India Ltd), page of CSIR-IIP. and Guest of Honour Dr

discussed the challenges being faced by the oil and gas industry. She explained the road map for Net-Zero Emission and strategies like consumer behaviour, electric mobility; green hydrogen and biomass/ waste valorisation for achieving the Net-Zero Goal. Dr Purandar Chakravarty discussed various energy pathways like renewable energy, hydrogen and ammonia alternate fuel, gas fermentation, and ethanol and green diesel to attain a sustainable future. He emphasised on development and scaling up of the technologies. Swati Saini, Co-Convener, presented the vote of thanks. The SEFCO-2021 souvenir was released by the dignitaries on the dais.

SEFCO-2021, provided the details of the scientific programme. In his welcome address, Director Dr Anjan Ray, welcomed the CSIR-IIP. dignitaries.

"The event day is special as CSIR-IIP had introduced bio-jet

Ray The Director-General. CSIR, Dr Shekhar C Mande, emphasised the importance of energy sources in life. In his message. Dr Mande stated that India has a considerable amount of challenges and equal opportunities to work in the

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