

CSIR in Media



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IICT develops bio-digester

CSIR-IICT

30th March 2017



Johny Joseph, IICT (Indian Institute of Chemical Technology) chief scientist observed that garbage is no longer going to a problem and it is going to be a resource to generate Biogas if one can install Trash Guard, a highly rated bio-digester developed by the CSIR-IICT for safe disposal of biodegradable garbage.

Addressing the TEDx GITAM-Hyderabad campus here on Thursday, the chief scientist said that it is also the safest way of disposing biowaste. In an enlightening lecture, the IICT scientist said that he took up the project to study the safe disposal of the garbage since it is an issue being faced by every small town in the country.

Stating that the segregation of garbage as biodegradable waste and non-biodegradable waste is important, he said that the Trash Guard can produce enough biogas for two kitchens everyday. Talking about the functioning of the bio-digester, Joseph said that they can straightaway drop the segregated biodegradable garbage into the digester without any pre-processing.

He further rated it as the best solution for disposing off biodegradable waste since it is being digested at source without any transport.

The chief scientist said it needs no manpower to operate, generates no odour and occupies minimum space.

Stating that the country's Defense Department is installing these bio-digesters at Kochi Naval Base, he said that they may place more orders based on the results. The IICT scientist said that CREDAI (Confederation of Real Estate Developers Association India) is promoting the CSIR-IICT technology in the residential areas as they are impressed with the performance of the Trash Guard. The Trash Guard is priced at Rs 5 lakh. Pro-Vice Chancellor of GITAM, Prof N Sivaprasad and others were present.

Published in:

[Telangana Today](#)

[The Hindu](#)

CSIO signs MoU for marketing of products

CSIR-CSIO

2nd April 2017

The Central Scientific Instruments Organisation (CSIO) has tied up with the National Research Development Corporation (NRDC), an enterprise under the Ministry of Science and Technology, for marketing of inventions, patents, formulations and technical processes developed by it. A memorandum of understanding in this regard was signed by Prof RK Sinha, Director, CSIO, and Dr H Purushotham, Chairman and Managing Director, NRDC, here on Saturday. Senior officials from both organisations were present on the occasion. Prof Sinha said CSIO has developed over 40 technologies that were ready to be transferred to the industry and entrepreneurs for

commercial production and marketing. He also handed over the details of the technologies developed by CSIO to Dr Purushotham. In 2016, CSIO had transferred over 12 technologies to the industry. The NRDC was set up over six decades ago for the development, promotion and commercialisation of technologies emanating from research and development institutions, public sector undertakings and the academia. It has so far licensed technologies in various sectors to more than 4,800 entrepreneurs and companies in the country, besides providing technical and financial assistance for filing about 1,700 patents in India and abroad

Published in:

[Tribune India](http://tribuneindia.com)

NML and Sri Lankan research team file patent for novel energy storage material

CSIR-NML

1st April 2017



The Council of Scientific & Industrial Research (CSIR) CSIR- National Metallurgical Laboratory (NML), Burmamines along with Sri Lankan research team has filed patent on novel energy storage material.

According to officials of NML, there is a growing interest in energy storage materials. Emphasis has been given for Research & Development in critical areas to create new solutions that can have a lasting impact on energy storage devices. Based on a e-poster which CSIR-NML's biomaterials group uploaded on 'Materials Today' way back in 2013, Sri Lanka's John Keell's Research (JKR) team headed by Dr. Muditha Senarath Yappa (under the umbrella of John Keel's Holdings PLC (JKH)

Sri Lanka's largest listed conglomerate in the Colombo Stock Exchange) expressed his interest in exploiting the above composites for energy applications.

Under a project sponsored by John Keell's research, the team consisting of project leader Dr. Suprabha Nayar, and researchers Dr. Soumya Bhattacharyya and Divya Kumari, studied these composites in great depth and explored its feasibility as a supercapacitor.

There is a growing interest in energy storage materials and R&D is critical to create new solutions that can have a lasting impact on energy storage devices says Sushanta Ratnayake, Chairman of JKH. Joint endeavors will be made to prosecute this patent application in all relevant worldwide markets in the near future.

NML is an ISO 9001:2000 certified laboratory, under the aegis of Council of Scientific & Industrial Research (CSIR), is a premium metallurgical research and development house providing a range of farreaching solutions to the problems of minerals, metals and materials.

The laboratory was formally inaugurated and dedicated to the nation on the November 26, 1950 by Pandit Jawaharlal Nehru.

Published in:

[Avenue Mail](#)

[Daily Pioneer](#)

Fight air pollution with NBRI app

CSIR-NBRI

2nd April 2017

LUCKNOW: National Botanical Research Institute (NBRI) has developed an android-based mobile application, ENVIS-NBRI- Green Planner, for information on different plants that reduce air pollution.

The application, which is available for free on Google Play, offers a green planner for academics, government officials, students and common public. It has been developed by the research institute's environmental information system (ENVIS) team.

NBRI director SK Barik said, "Information on the right type of plantation will not only help in reducing pollution but also in the

mitigation of harmful gases like sulphur dioxide and carbon dioxide."

"The plant list available on the app provides the botanical and common names of pollution tolerant and mitigant plants, their distribution in India and suitable planting sites along with the economic and ecological benefits," said senior scientist Pankaj Kumar Srivastava. He said that it will be helpful for people with respiratory issues.

Government organisation like Lucknow Municipal Corporation, Lucknow Development Authority and urban development department can use the application for selecting the right kind of plants as per area, he added.

Published in:

[TOI](#)

IDTR students get exposure of Research Environment at CSIR-NML

CSIR-NML

1st April 2017



A Second batch of 48 Diploma students from Indo-Danish Tool Room, Gamharia accompanied by teacher R.B.Verma visited CSIR-National Metallurgical Laboratory, Jamshedpur and interacted with scientists and research scholars this morning under the aegis of CSIR-NML under “School-NML Interactive Programme” in collaboration with NASI, Jharkhand Chapter. The students were thrilled to visit the laboratory and interact with working group.

The programme was scheduled for two and half hours, which comprised an overview of Indian Science and Technology, Documentary film show on NML, visit to NML selective units of the laboratory to gain an exposure of modern laboratory and research environment. Dr. P.N. Mishra, Principal Scientist, coordinated and briefed about the programme, discussed an overview of CSIR and NML, its contributions in different branches of Science & Technology.

He defined science, science & technology, development of science & technology in Indian perspectives, discussed the skill development programme and role of diploma holder personnel play at the R&D Laboratory, also explains about natural resources like ores, minerals, rocks and its value for the development of Nation and further arrange lab visit. The students expressed their fillings, asked numbers of question, and clarify doubt with scientists.

Students visited at creep testing units of MST Division and know about fatigue, creep, fractures prevailing in different types of industrial components. They get exposure of different machine like Servo Hydro Testing Machine, Servo Electrical Machine and furnace. They further visited at Mechanical Testing Division and observed the practical demonstration of forging, shaping and rolling machine, wire Drawing Machine, Trolley furnace chamber operated at 1200o centigrade's.

Students appreciated the facilities available at Engineering Workshop. They gain working knowledge and develop skill to know the application of different kind of machine like lath machine, Shaper Machine, Semi Automatic Bandsaw Machine, Pillar Drilling Machine, Hydraulic Surface Grinding Machine, Universal Milling Machine etc.

During the interactive session, number of students asked different questions on minerals, ores, origin of coal, the evolutionary history behind the formation of metal, metals forging, rolling, and heat treatment etc. Teacher and students requested for their next visit to the laboratory for gain deeper knowledge.

Teacher expressed their view and was satisfied to know about the consistent effort and research emphasis in various sectors for the ultimate development of India.

At last, teacher acknowledged and thanks to NML authorities for providing two consecutive batches of a total 96 students participates under the skill development programme.

Published in:

[Avenue Mail](#)