

# CSIR in Media



News Bulletin  
21<sup>st</sup> to 25<sup>th</sup> January 2020





## **New Graphene supercapacitor will boost energy in defence applications**

CSIR-CMERI

25<sup>th</sup> January, 2020

Efforts are being made to look for economical and more effective options for storing electrical energy. Indian researchers are now developing an cost effective Graphene-based supercapacitor that can be used to provide energy to various applications, including state-of-the-art defence applications, mobile devices and smart vehicles.

Supercapacitors, also known as ultra-capacitors are electrochemical devices used for the storage of electrical energy, whose popularity is growing rapidly. The activated carbon is an expensive material commonly used to produce such ultra-capacitors. Newly developed graphene oxide found to be a cost alternative material for producing ultra-capacitors, which has reduced its weight as well as its cost by ten times, say researchers.

Cost of activated carbon used in other supercapacitors available in the market is up to Rs 1 lakh per kg. Scientists at the Central Mechanical Engineering Research Institute (CMERI), Durgapur, have developed a new technique for making graphene oxide, which is now being used to produce new ultra-capacitors.

“Scientists have developed a technique for producing graphene oxide at CMERI. The production cost of one kilogram of graphene oxide using this technique comes to around ten thousand rupees, which is much lesser than the cost of activated carbon used in supercapacitors. We have modified the surface of graphene oxide in our research, due to which it has also succeeded in reducing its weight. We have now reached at the advanced stage of making ultra-capacitors by using this graphene oxide which can be useful in various sectors”, said Dr Naresh Chandra Murmu, a scientist at CMERI.



Former Defense Research and Development Organization (DRDO) official M.H. Rahman said that “such devices not only cater civilian applications but can be applicable in strategic and defence applications as well.” Mr. Rahaman also explained that the Graphene-based Ultra-capacitor which is at the advance stage of development at CSIR-CMERI has the potential to solve the energy and power requirement in various sectors. He was speaking during an event held recently at CMERI.



## CFTRI To Conduct Skill Development Workshop For ITI Students

CSIR-CFTRI

25<sup>th</sup> January, 2020

CSIR-Central Food Technological Research Institute (CFTRI), Mysuru, is conducting a workshop on operation and maintenance of select food processing machineries on Feb. 19 and 20 for the benefit of students undergoing training in various industrial trade courses. The workshop is taken up under CSIR Integrated Skill Initiatives aligning with Skill India Campaign. The programme will introduce participants to the diverse operations and maintenance of food processing machineries. Further, safety issues, regulatory requirements, hygiene, sanitation and SOPs for quality management are also included. CFTRI with its vast expertise in food processing and large number of scale-up facilities will be enabling an ideal platform for skill enhancement for those who aspire to be a part of the sunrise Industry. Students pursuing ITI and those who have completed ITI in the last two years can participate. There are 20 seats available for registration. All participants will be provided with a proficiency certificate. Those who would like to enroll for the programme may visit at: <http://www.cftri.com/sdp> or contact Dr. H. Umesh Hebbar, Sr. Principal Scientist, Food Engineering Department or email: [hebbar@cftri.res.in](mailto:hebbar@cftri.res.in); Ph: 0821-2512520. The last date for registration is Feb. 7, according to a press release from A.S.K.V.S.Sharma, Coordinator, Information and Publicity.

**Published in:**  
[Star of Mysore](#)



## CSIR-CIMAP signs MoU with SMVD Shrine Board for making Agarbattis from flower waste

CSIR-CIMAP

23<sup>rd</sup> January, 2020



The Council of Scientific and Industrial Research (CSIR) – Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow, signed a Memoranda of Understanding (MoU) with Shri Mata Vaishno Devi Shrine Board at Katra today under which the CSIR-CIMAP will provide free consultancy, technical support and guidance to the Board for making Agarbattis from flower waste. Under the project, a small infrastructure facility will be created for making the incense sticks. The used flowers will be collected from the temples, petals segregated from stems, washed, dried, grinded and rolled to make the incense sticks. The MoU was signed by Ramesh Kumar, Chief Executive Officer of the Shrine Board and Bhaskar Jyoti Deuri, Controller of

Administration, CSIR-CIMAP, Lucknow. Dr Alok Kalra, former Director, CSIR-CIMAP, Lucknow; R K Srivastava, Senior Scientist and Head, Rural Development, CSIR-CIMAP; Dr Sunil Sharma and Deepak Dubey, Dy Chief Executive Officers of the Shrine Board; Manu Hansa, Assistant CEO; Vinay Khajuria, ACF and Priya Khajuria, Assistant Manager were present on the occasion. The CEO said that signing of the MoU between CSIR-CIMAP and the Shrine Board is a significant step towards productive and environment friendly utilisation of flower waste. He suggested the visiting team of scientists of CSIR-CIMAP to suggest the species of aromatic, ornamental and flower plants as well as creepers which could be planted on the track leading to the holy Cave Shrine of Shri Mata Vaishno Devi Ji to further enhance the ambience for the pilgrims moving on the track. The visiting scientists readily agreed to the suggestion of the CEO of the Shrine Board to support the Board in the selection of such species.



A day-long “Training-cum-Workshop on Agarbatti making from used flowers” was also organised at the Spiritual Growth Centre at Katra today in which 20 female employees of the Board participated. The workshop was organised by the Shrine Board in collaboration with CSIR-CIMAP, Lucknow. The objective of the workshop was to impart skill and building capacities to prudently utilise the flower waste in the Shrine area to obtain useful products like incense sticks.



## CSIR-IMTECH

24<sup>th</sup> January, 2020

### **CSIR-IMTECH celebrates its 36th foundation day**

Chandigarh, Jan 24 (UNI) CSIR-Institute of Microbial Technology (IMTECH), Chandigarh on Friday celebrated its 36th Foundation Day by organizing several events including the much anticipated Foundation Day Lecture.

According to a statement released here on Friday, Prof J Gowrishankar, Director, Indian Institute of Science Education and Research (IISER), Mohali delivered this year's Foundation day lecture on progress of genetics in bacterial ribonuclease.

Prof Gowrishankar who is a Padma Shri and Shanti Swarup Bhatnagar awardee obtained his PhD from the University of Melbourne, Australia, Prof Sarit K Das, Director, Indian Institute of Technology (IIT), Ropar also presided over the function.

During his lecture, Prof Gowrishankar highlighted that the absence of RNase E is lethal to the growth of bacterial cell. The lecture focused on understanding the mechanism of RNase E which is one of the crucial enzyme having RNA degradation activity. He also discussed the potential implications of recessive resurrection on genetic studies in other model organisms and in humans.

Dr Manoj Raje, Officiating Director, CSIR-IMTECH while welcoming the guests and faculty to IMTECH's foundation day gave a brief background of CSIR-IMTECH and apprised the audience with institute's achievements during the last year. He highlighted the inauguration of Merck High End Skill Development Centre and approval of grant from BIRAC to set up a new cGMP facility for microbial cell bank as steps toward creating world class facilities in the institute. Speaking at the occasion, Dr Raje said, IMTECH has held on to the philosophy that Science drives Technology and Technology Drives Science which has been the driver of all major research and development happening in the institute. He further added that since India is a country today with 65 per cent of its youth in the working age group (15-59 years), Merck High End Skill Development Centre will help in increasing the employment opportunities of the students through this initiative of IMTECH.

On this occasion, the institute also felicitated its students for best PhD thesis and best PhD presentation award 2019 with a certificate and cash award for their outstanding performances.

CSIR-IMTECH is a national center for excellence in microbial sciences and was established in 1984.

IMTECH's vision is to discover and develop transitional products and new drugs to address key unmet medical needs.

UNI JS ASN 1936

**Published in:**

[UNI](#)



## CFTRI To Host Seminar On Information Services In Digital Era On Feb.4

CSIR-CFTRI



CSIR-Central Food Technological Research Institute (CFTRI), Mysuru, is hosting a one-day seminar on “Innovation and Sustainable Information Services in Digital Era” on Feb. 4 in association with ICSSR, New Delhi, AFST(I), Mysuru, American Chemical Society and Springer Nature. The aim of this seminar is to bring together Library and Information Professionals associated with reputed institutions in and around Mysuru to exchange ideas, new initiatives, experiences and viewpoints about innovative library services in the digital era. The digital revolution including the growth of virtual world and web applications have impacted libraries and information services. Libraries can remain relevant in this virtual world by searching for and shaping opportunities,

23<sup>rd</sup> January, 2020

enabling futuristic learning environments, new ideas and producing creative outcomes. Experts from IISc., DRTC, NAL, NISCAIR and NIIT will deliberate on various topics related to this issue. The focus will be on Open Source Information Systems and state-of-art Information Services for R&D Professionals. The seminar is open to Library Professionals, Academicians, Graduate and PG students and Researchers of Library and Information Science. Those interested in participating and submitting abstracts related to technical themes may call Ph: 0821-2515850 or visit:

[www.cftri.com](http://www.cftri.com) or

<https://sites.google.com/view/libsem>, according to a press release.

**Published in:**  
[Star of Mysore](#)



## Endowment lecture at CSIR-IICT

CSIR-IICT

23<sup>rd</sup> January, 2020

Geneticist Virginijus Syksnys of Vilnius University, Lithuania, who has made seminal contributions and demonstrated the ability of CRISPR-Cas system, a DNA editing tool, to cut the genome at any desired site opening the possibility of genome editing, will deliver this year's 'Dr. Manohar V.N. Shirodkar Endowment' lecture of the Telangana Academy of Sciences on January 24 at 4 p.m at CSIR-IICT.

Mr. Syksnys is the recipient of the 'Warren Alpert' prize and Kavli Prize with the latter given for 'invention of CRISPR-Cas9', a precise nanotool for genome editing, causing a revolution in biology, agriculture and medicine. The award was shared with Emmanuelle Charpentier and Jennifer Doudna.

K. Narasimha Reddy, president of academy and IICT director S. Chandrasekhar, who is the honorary secretary of the academy, would also address the gathering. Ch. Mohan Rao, former president of the academy, would brief the audience on the endowment and introduce the speaker.

**Published in:**  
[The Hindu](#)



CSIR-IMMT

23<sup>rd</sup> January, 2020

## Seminar focuses on control of corrosion



Dignitaries at the seminar organised in Bhubaneswar, Monday

OP PHOTO

POST NEWS NETWORK

**Bhubaneswar, Jan 20:** The Council of Scientific and Industrial Research Institute and Minerals and Materials Technology, (CSIR-IMMT) Bhubaneswar in association with South Eastern Region Pipelines, Indian Oil Corporation Ltd organised a seminar on "Protection of On-Shore and Off-Shore Facilities against Corrosion in the Coastal Region" in Bhubaneswar, Monday.

Corrosion is a natural process that converts a refined metal into a more chemically-stable form such as oxide, hydroxide, or sulfide. It is the gradual destruction of materials by chemical and/or electrochemical reaction with their environment.

Suddhasatwa Basu, Director, CSIR-Institute of Minerals & Materials

Technology said, "Globally, corrosion costs around USD 2.5 trillion annually. An average of 3 to 4 per cent of GDP is estimated to be lost by all nations due to corrosion. India is losing around USD 26 billion a year-about 4 % of the size of the economy.

At least 25 % of this annual cost can be saved by applying latest corrosion control technology. These figures clearly show the importance of the state-of-the-art corrosion control technologies to save the scarce foreign exchange of the developing country like India.

The figure is further very alarming as far as oil sector such as pipeline/offshore structure is concerned.

He said that unprotected pipelines/structures, whether buried in the ground, exposed to the atmosphere, or submerged in water, must be properly maintained and protected from corrosion.

Corrosion degrades the useful

properties of materials and structures including strength, appearance and permeability to liquids and gases.

Hence proper selection of materials and design, control of environment, application of coatings, and addition of inhibitors are most effective in cutting the cost of corrosion and achieving low cost reliability as corrosion can be designed out of the system.

Corrosion testing and evaluation is the backbone of this methodology. Hence proper knowledge and approach to analyze and achieve are inevitable.

**CSIR-IMMT organised a course to establish a solid foundation in corrosion**

For this the CSIR-IMMT organised a short term course on 'Protection of On-Shore and Off-Shore Facilities against Corrosion in the Coastal Region' from 20-24th January 2020 at CSIR-IMMT, Bhubaneswar.

The course will enable beginners to establish a solid foundation in corrosion before moving on to advanced topics.

Exercises, hands-on practical sessions and virtual experiments will help participants understand the basic concepts and fundamentals important to corrosion.

It also provides an excellent avenue for corrosion practitioners, designers, technical managers, inspection and maintenance engineers, quality control personnel and those involved in failure analysis to update their appreciation of corrosion and the awareness of the emerging technologies for corrosion control and prevention.

This course is intended for new graduate's trainees with chemistry/physics or engineering backgrounds, mid-level engineers and technologist who have some basic prior knowledge of oilfield corrosion.

**Published in:**  
Orrisa Post



CSIR-IMMT

23<sup>rd</sup> January, 2020



**Published in:**

Navbharat Times



## PSU plan to enhance procurement from SC/ST entrepreneurs

CSIR-CFTRI

22<sup>nd</sup> January, 2020



The Centre, through its public sector units (PSUs) has plans to procure more from entrepreneurs in the SC/ST communities. With this goal in mind, the Central Food Technological Research Institute, in collaboration with NSSH, has designed a host of capacity building and training programmes on food processing not only for existing entrepreneurs but also for aspiring ones from the SC/ST communities. These programmes are intended to enhance awareness of those entrepreneurs on the possibilities to do business with PSUs, opportunities to access finance and starting a new venture. A. Kokila, Head, National SC-ST Hub (NSSH), Ministry of Small and Medium Enterprises, Regional Office, Bengaluru, was optimistic when she said that

‘These programmes would help PSUs to procure the reserved 4% quota’. She also hoped that ‘more entrepreneurs from these communities would earnestly participate in the programmes and make good use of the knowledge being shared’. Ms Kokila said that NSSH has been formed to address this problem of low-procurement by Public Sector Units from SC-ST manufacturers. “The NSSH will be there to hand-hold the entrepreneurs after the training, for helping with financing, marketing and management of enterprises,” she said. The first training programme on Fruit and Vegetable Technologies for value addition was held from January 6 to 13, 2020. The second programme on ‘Spice processing: business opportunities and future prospectis’ will be held from January 20 to 28. A training programme on ‘Wheat milling and baking technology’ is scheduled to be held from February 17 to 26 this year. “This is the first training programme for SC/ST Entrepreneurs through NSSH. CFTRI did have meetings and workshops for SC/ST Entrepreneurs earlier but this is the first



training program” said Dr. KSMS Raghavarao, Director, CSIR-CFTRI. Dr Raghavarao also said that the CSIR-CFTRI has designed training programme keeping in mind the budding, the aspiring as well as the existing entrepreneurs who want to expand and diversify,” he said.

The training programme was offered free of cost to the candidates and is funded by NSSH. In the first programme 24 participants participated in the programme. “Essentially the hub helps by hand holding in getting started, besides providing subsidies for certain expenditures. Export promotion and PSU procurements are also helped. It is also helping to set up clusters” said A. Kokila.



CSIR-NML

22<sup>nd</sup> January, 2020

# Training programme on Metallurgical Failure kicks off at NML

## Mail News Service

**Jamshedpur, Jan. 21:** The Professional Training Programme on Metallurgical Failure of Engineering Components: Diagnosis & Remedy (MFEC 2020) organised by CSIR - National Metallurgical Laboratory was inaugurated by Soumitra Tarafder, acting director & advisor management, CSIR-NML, Jamshedpur.

Dr. Tarafder welcomed the participants and appreciated delegates for coming to CSIR-NML to attend this four-day professional training

programme. He mentioned that it's a good opportunity for the delegates to interact with the scientists and carry out collaboration programme for R&D activities in future. He went on to say that the importance of failure analysis in engineering domain and also emphasized having basic knowledge in different areas like chemistry and mechanical helps to understand the failure mechanism.

Mita Tarafder, Head of RPB (Research Planning & Business Development) division of CSIR-NML was delivering on the



importance of training programme which was not only for enhancing knowledge but for

developing interactions between R & D laboratory, industry & academics. She presented briefly about

CSIR and different training programs offered by CSIR-NML which are society and industry oriented. She also

talked about the state of the art facilities and services, CSIR-NML is providing and encouraged the delegates to explore the laboratory.

Mainak Ghosh, Principal Scientist of MTE (Materials Engineering) division of CSIR-NML and coordinator of this training programme named various technical sessions of this programme which includes lectures and hands-on sessions followed by laboratory visit. The Inaugural programme was concluded after the introduction of participants. Each participant expressed their interest and expectations from this

training program. Delegates from different organizations such as Tata Steel Ltd., Jamshedpur; Siddhartha Spectro, New Delhi; Indian Oil Corporation Ltd, Panipat and BPCL, Kochi participated in the programme.

The valedictory programme of Metallurgical Failure of Engineering Components: Diagnosis & Remedy (MFEC 2020) will be conducted on January 24. The participants will be given the certificates of participation and each participant will give presentation, summarizing their learning.

**Published in:**

The Avenue Mail



CSIR-NML

22<sup>nd</sup> January, 2020

## एनएमएल में चार दिवसीय प्रशिक्षण शुरू



एनएमएल में प्रशिक्षण कार्यशाला में शामिल प्रतिभागी • जागरण

जासं, जमशेदपुर : अभिवात्रिकी ( इंजीनियरिंग ) घटकों के विफल होने का कारण जानना जरूरी है। फेल्टोर मैकेनिज्म को समझने में केमिस्ट्री और मैकेनिकल की बेसिक जानकारी मददगार हो सकती है। यह कहना था राष्ट्रीय धातुकर्म प्रयोगशाला ( एनएमएल ) जमशेदपुर के कार्यवाहक निदेशक डॉ. सौमित्र तरफदार का। मंगलवार को वे मेटलर्जिकल फेल्टोर ऑफ इंजीनियरिंग कंपोनेंट्स : डायग्नोसिस एंड रेमेडी ( एमएफइसी ) विषयक प्रोफेशनल ट्रेनिंग कार्यक्रम के उद्घाटन समारोह में संबोधित कर रहे थे। सीएसआईआर-एनएमएल के लेक्चर हॉल में मंगलवार को इस चार दिवसीय प्रशिक्षण कार्यक्रम की शुरुआत हुई। डॉ. तरफदार ने प्रतिभागियों का स्वागत करते हुए कहा कि यह उनके लिए बेहतर अवसर है कि वे वैज्ञानिकों के साथ संवाद करें और भविष्य में रिसर्च एंड डेवलपमेंट के लिए मिलकर काम करें। इस अवसर पर सीएसआईआर के रिसर्च प्लानिंग एंड बिजनेस डेवलपमेंट हेड डॉ. मीता तरफदार ने प्रशिक्षण कार्यक्रम की उपयोगिता पर प्रकाश डालते हुए कहा कि इससे केवल जानकारी में ही बढ़ोतरी नहीं होगी बल्कि रिसर्च एंड डेवलपमेंट प्रयोगशाला, उद्योग व अकादमिक संस्थानों के बीच वह एक उपयोगी कड़ी भी साबित होगी। उन्होंने समाज व उद्योगों के लिए उपयोगी एनएमएल के विभिन्न कार्यक्रमों के बारे में भी जानकारी दी।

**Published in:**  
Dainik Jagran



## CSIR-CIMAP

22<sup>nd</sup> January, 2020

### CIMAP event

Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow, is organising a Gyan Vigyan Bal Mela 2020, in which students from standard IX to XII from across 17 Kendriya Vidyalayas as well as 20 private and government-aided schools from Uttar Pradesh and Madhya Pradesh are participating. During the Mela, students are exhibiting their scientific models. As part of the event, a science quiz competition, extempore

also interacting with scientists. Alok Krishna, convenor, said that about 150 students are participating and presenting about 50 scientific models.



competitions on scientific issues and on-the-spot science film-making competitions are being held. Abdul Samad, acting director, CIMAP, said that students would be visiting labs of the institute and

**Published in:**  
Times of India



CSIR-CIMAP

22<sup>nd</sup> January, 2020

## सीमैप ने किया जैविक कृषि पर प्रशिक्षण कार्यक्रम आयोजित

लखनऊ। ग्राम वीवीपुर फतेहपुर बाराबंकी में सीमैप की ओर से एक प्रशिक्षण कार्यक्रम का आयोजन किया गया। डॉ. अब्दुल समद, कार्यकारी निदेशक, सीएसआईआर-सीमैप ने बताया कि प्रशिक्षण कार्यक्रम का मुख्य उद्देश्य कृषकों को वर्मीकम्पोस्ट बनाने की वैज्ञानिक विधि से अवगत कराना है। वर्मीकम्पोस्ट का प्रयोग करके किसान भाई अपने आप में वृद्धि कर सकते हैं। साथ ही केचुए का बड़े पैमाने पर सम्बर्धन करें। बाजार में केचुए 500 रुपये प्रति किग्रा के भाव से बिकते हैं। सीमैप द्वारा चयनित कृषकों को वर्मीटब का वितरण किया गया। कार्यक्रम के समन्वयक डा. राकेश पाण्डेय ने कार्यक्रम की रूपरेखा पर विस्तार पूर्वक चर्चा की। इस कार्यक्रम को भारत सरकार की जैव प्रौद्योगिकी विभाग ने वित्त पोषित किया है। प्रो. एचबी सिंह जो पूर्व में काशी हिन्दू विश्वविद्यालय में प्राध्यापक थे ने



विस्तार पूर्वक जैविक खेती पर प्रकाश डाला। प्रो. सिंह ने बताया कि किसान भाई कीटनाशकों का प्रयोग कम से कम करें। जैविक कीटनाशकों का प्रयोग करें। डा. आकांक्षा सिंह ने ट्राइकोडर्मा बनाने बनाने की घरेलू पद्धति पर विस्तृत जानकारी दी। सीमैप के कीट वैज्ञानिक डा. संतोष केदार ने फसलों पर तरह-तरह के कीटों के नियमन की जैविक विधि पर विस्तृत जानकारी दी। कार्यक्रम में 100 से अधिक प्रगतिशील कृषकों ने भाग लिया।

**Published in:**  
Dainik Jagran



## ISRO chairman and DG, CSIR to receive HK Firodia awards

CSIR

21<sup>st</sup> January, 2020

Pune Indian Space Research Organisation (Isro) chairman K Sivan and Council of Scientific and Industrial Research (CSIR) director general Shekhar Mande will be awarded at the 24th HK Firodia Awards function to be held at Balgandharv Rangmandir on February 7. The felicitation ceremony will begin at 6 pm. For their work in the field of science and technology, Sivan will be presented 'HK Firodia Vidyan Ratna Puraskar' and 'HK Firodia Vidyan Bhushan Puraskar' will be given to Mande.

The details of the event have been shared by a selection committee for the awards comprising scientist Raghunath Mashelkar and Arun Firodia, chairman of Kinetic group. Vijay Raghavan, principal scientific adviser to the government, will be the chief guest.

"Isro has earned its name globally with its work in the last few years and Sivan's contribution in the same is tremendous. Launching 104 satellites at one time, Chandrayaan 2 mission and also in the Gaganyaan mission Sivan has made significant contribution. So, it is an honour to felicitate him in this 24th HK Firodia Awards. These awards were started to boost the scientific revolution in our country," said Mashelkar.

An online quiz competition has been organised for students as part of Firodia awards. The winners of the competition will get a chance to interact with the award winning scientists, and students who get the highest marks will be felicitated at the award ceremony. Students can log on to [www.quiz.hkfirodiaawards.org](http://www.quiz.hkfirodiaawards.org) to participate in the online quiz competition.

**Published in:**

[Hindustan Times](http://www.hindustantimes.com)



## CSIR-NCL celebrates 70th Foundation Day

CSIR-NCL

21<sup>st</sup> January, 2020

CSIR-National Chemical Laboratory (CSIR-NCL), Pune celebrated its 70th Foundation Day recently. AB Pandit, Vice-Chancellor, Institute of Chemical Technology, Mumbai delivered the CSIR-NCL Foundation Day Lecture on a topic titled “Role of Chemical Engineering in Nation Building”.

Pandit talked about a general impression in public and said, “Chemical industry is responsible for the environmental degradation, general reduction in the quality of life.

At the same time, they do not talk about the things which chemical industry contributes to the improvement in the quality of life.” His talk included several of the case studies taken out of his research works.

Pandit highlighted the achievements of the chemical industry in the urban areas. He said that chemical sciences have contributed to the development of medicines, biomaterials, implants, food processing, 3D printing, water and wastewater treatment. Ashwini Kumar Nangia, Director, CSIR-NCL in his welcome remarks spoke on technologies developed and also projects implemented over last four years.

Referring recent media articles regarding several scientists leaving CSIR-NCL due to less promotion avenues and focus of CSIR on lab to market translations, Nangia reaffirmed the commitment of CSIR-NCL to the Dehradun declaration and thanked the scientists for contributing towards national goals in Mission, FTT FTC projects.



He also presented data on promotions of scientists at CSIR-NCL in last four years to show that the position of scientists in different designations was better today than at the beginning of 2016. NCL Research Foundation Annual Awards were also delivered to the deserving scientists and staff of CSIR-NCL at the hands of the chief guest.



## Please Follow/Subscribe CSIR Social Media Handles



[CSIR INDIA](#)



[CSIR\\_IND](#)



[CSIR India](#)