

Newsletter

News Letter Jan- March, 2016

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**Uttarakhand State
Council For Science
& Technology**

Editorial

Dear Reader,

Welcome to the latest issue of the Council's quarterly Newsletter. We are happy to share with you that this quarter has been quite eventful for us here at the UCOST as we remained busy organising a mega event. The '10th Uttarakhand State Science & Technology Congress', an annual convention in which a galaxy of scientists and experts from the state and various parts of the country participated was truly a watershed event.

It was crucial for scientists as well as the people of this resource-crunched hill

state. The conference was critical for experts as it gave them an opportunity to assess how much the people have benefited by the scientific projects initiated by us. More importantly, it also provided us a much-needed break to reflect on our future projects based on farm sciences and biotechnology etc that can boost the state's agri-pastoral economy.

We also utilised the event to encourage the budding scientists to leverage science and technology for economic growth. As part of this initiative the names of 50 promising youths were

announced for the prestigious 'Young Scientist Award' at the conference.

However, despite our hectic schedule we did full justice to our basic mandate: science popularisation. Of the several programmes we organised as part of our mandate, two stand out. One of these was the inauguration of Regional Science Centre with much fanfare and another was the release of one of its kind book on traditional crops, spices & wild edible fruits of Uttarakhand.

Dr. Rajendra Dobhal
Director General

UCOST Activities

10th Uttarakhand State Science & Technology Congress (10th USSTC)

Eminent scientists and experts from different parts of the country converged here to attend the '10th Uttarakhand State Science & Technology Congress.' Organised by UCOST, the three-day mega event concluded at its sprawling campus at Jhajra on February 12.

Inaugurating the event State Minister for Science and Technology Sh. Surendra Singh Negi said experts should give top priority to use science as a tool to make the common man's life easier. He said the knowledge gained over the last millions of years must be modified using the latest technologies to make it more user-friendly for people.

On the occasion, the Minister presented the prestigious 'S&T Excellence Award' to three scientists of international repute from the state. They were Prof. R D Gaur, Dr. B R Arora and Prof. S.P. Singh. Prof Gaur, Advisor, NASI, UK Chapter was felicitated for his outstanding contribution in the field of plant sciences. Dr. Arora, Former Director, Wadia Institute of Himalayan Geology, Dehradun was chosen for the prestigious award owing to his immense contribution to the field of geology. Prof Singh was presented the award at the valedictory function for his contribution to the field of environmental sciences. Those present on the occasion were Dr. M.O. Garg, Director IIP, Sh. Indu Kumar Pande, the then Advisor to Former Chief Minister, Dr. Rajendra Dobhal, Director General UCOST, and Prof. S.J. Chopra, Chancellor, UPES.

At the inaugural function, the prestigious 'Best State Science Teacher Award' instituted by National Academy of Sciences India (NASI), was conferred on two teachers from the state namely Mr. Sameer Dhingra, HOD, science at Welham's Boys' School, Dehradun and Sh. S.S. Negi, Government Intermediate College, Kotdwara. On the occasion, the Minister also released the abstract book of congress.

A national exhibition organised as part of the convention saw prominent institutes from the state as well as organisations like NRDC, ONGC & DRDO besides NGOs showcasing models based on the technologies devised by them. Dr Ashutosh Mishra, Scientific Officer, UCOST was the organising secretary of '10th State Science & Technology Congress.'

Prof P.S. Ahuja, Former Director, IHB-TCSIR delivered this year's NASI Plenary lecture. The theme of the stimulating talk





was the role scientific and technological innovations played in the evolution of life on earth.

Besides, several experts from different fields participated in four brainstorming sessions of the three-day long mega scientific event namely, Status of Research and Development in Higher Education; Skill of Scientific Paper, Project and Dissertation Writing; Human Robot Interaction and Application of media and social media for science communication.

2nd Day

The Second day of the congress was the day of the technical session. The total number of 490 research paper were presented during the congress in 17 diverse disciplines of Science & Technology.



3rd Day Valedictory (12 February 2015)

Dr Rajendra Dobhal, DG, UCOST inaugurated the session by reading out a brief report on the Congress. He informed that of the 490 participants who presented their papers, 50 won the



'Young Scientist Award' in different categories. Govind Ballabh Pant University of Agriculture & Technology bagged the maximum number of awards (14) followed by HNB Garhwal University (six) and Kumaon University (four).

Talk on Entrepreneurship or Change maker skills by Mr. Mudit Tyagi

Mr Mudit Tyagi, Partner and CEO, Confiserve, USA gave talk on Entrepreneurship or Change maker skills, he explained about the innovative model he has developed for the Start Ups.



HIFEED, UCOST hold workshop on waste management

Dr. Rajendra Dobhal, DG UCOST and Former MLA Jot Singh Gunsola inaugurated a workshop on 'Experience Sharing in Solid and Plastic Waste Management in Uttarakhand.' It was organized by Himalayan Institute for Environment, Ecology and Development (HIFEED) and sponsored by UCOST. The participants also made a presentation at the workshop on an exhaustive plan on treatment of solid and electronic waste.

DG UCOST meets His Excellency Governor of Uttarakhand

Dr. Rajendra Dobhal, DG UCOST had a formal meeting with His Excellency Dr. K. K. Paul, Governor of Uttarakhand and briefed him about the work profile of UCOST on march 11.



UCOST celebrates National Science Day, 2016

UCOST organised a talk on the central government's 'Make in India' programme to mark the National Science Day' on 27 February. Speaking on the occasion, Director General, UCOST, Dr Rajendra Dobhal said a 'Make in India' should be innovation-centric. "If 'Make in India' programme has to leave its mark globally then we will have to prepare technically strong human resource base", he said. Carbon dating studies can help in understanding climate change was explained by Eminent Scientist Dr. C.M. Nautiyal. Dr. S.S. Pandey, Joint commissioner, CS&C P and Member Secretary Food Security Commission, Govt of Uttarakhand described about the various scientists from India who made a mark globally in various science & technical fields. Dr. D.P. Uniyal Sr. Scientific Officer UCOST and Dr. Prashant Singh, District Coordinator, UCOST coordinated the program.



Release of books on “Traditional Crops, Spices and Wild Edible Fruits of Uttarakhand”

UCOST published books on Crops, Spices and Wild Edible Fruits of Uttarakhand was released by Hon'ble CM Sh. Harish Rawat along with Director General UCOST & Vice Chancellor Kumaun University, Nainital during a workshop organized by Dept. of Biotechnology, KU, Nainital at Bhimtal on March 3.



Popular Lecture

Dr. Jaideep Raju, a research scientist based in Canada, delivered a lecture on 'Next Generation in life sciences: perspective of a toxicologist' at UCOST conference hall on 4 March.



Celebration of International Women's Day

Speakers came up with various suggestions concerning use of Science & Technology in creating health and hygiene awareness among women at a workshop. The workshop on 'Use of S&T for



women: Pooling knowledge and information sharing' was organised by UCOST on March 8. Speaking on the occasion, Dr Jyoti Sharma spoke about information sharing through S&T about various women related ailments. She stressed on the need for starting a campaign from schools and colleges to create awareness among young ladies about health and hygiene. Dr Savita, Director, Forest Research Institute, (Dehradun) said modern education for girls should also help inculcate among them interest in nature. Dr Alaknanda Ashok, the Director of Women's Institute of Technology at Uttarakhand Technical University said women in rural areas should be at the centre of all development activities. Agriculture Scientist Dr Binita Shah



exhorted women to take up farming as an enterprise. Dr. S.S. Pandey, Joint Commissioner, CS&C P and Member Secretary Food Security Commission, Govt of Uttarakhand described about the various consumer protection rights and the problems faced by women.

Project Review Group (PRG-2016) Meeting discuss ongoing project

A daylong review meeting of various projects, including those



related to life sciences and engineering sector, concluded at UCOST on 29 March. The status and progress of several ongoing projects pertaining to life sciences, chemical science, biology and physical engineering etc was discussed at the meeting. Principal Investigators from different universities and institutes presented reports on the progress of R&D projects funded by UCOST.

Mobile Food Processing Van inaugurated

Dr. Rajendra Dobhal, the Director General of UCOST inaugurated the launch of a mobile processing unit at HAARC office on March 9.



Centre of Excellence Project Meeting

Expert Committee meeting for Centre of Excellence project on Forest Based Livelihood in Uttarakhand was held at UCOST on 31 March. During the meeting the roadmap for the proposed Centre was discussed. Experts from different fields participated in the meeting. They included former PCCF, Madhya Pradesh, Dr. Ram Prashad, Former Chairman, Madhya Pradesh Pollution Control Board, Dr. N.P. Shukla, Mr. M.K. Tiwari and Joint Director, MPCOST, Bhopal.

Patent Information Centre (PIC)

PIC organized a national workshop on "Awareness of Intellectual Property Rights (IPR)--Geographical Indications" at UCOST on 17 March. The workshop was organised in collaboration with LSM Govt. PG College, Pithoragrah. Three officials from UCOST namely Dr. Kirti Joshi, Scientific Officer, Mr. Manoj Kumar Singh, Scientific Assistant, and Mr. Himanshu Goel, Project Scientist, PIC, spoke on the 'Overview of IPRs Spectrum: Scope of Geographical Indications, Prior search & its importance, Patenting System in India' respectively. About 130 experts participated in the workshop. Dr. R.A Singh from LSM Govt. PG College, Pithoragrah coordinated the workshop.



PIC Applications

PIC received nine applications relating to various IPR categories in the January-March quarter. Out of these (applications) five pertain to patenting, followed by

copyright (2), design (1) and patentability search (1). An application titled “Multipurpose Suspension Rescue Bridge” has been forwarded to the Patent Attorney in both patent and design categories.

Regional Science Centre

- Sh. Chief Minister Harish Rawat inaugurated the Regional Science Centre (RSC) on February 3. Other dignitaries present on the occasion were Union Minister of state for Tourism & Civil Aviation Sh. Mahesh Sharma, Minister for Science and Technology (Uttarakhand) Sh. S. S. Negi, Dr Rajendra Dobhal, DG, UCOST, Sh. G.S. Rautela, DG NCSM among others. As many as 700 students from various state-run schools and English medium schools attended the function.
- A separate web page [<http://www.ucost.in/blog/rsc/>] has been created for the RSC Dehradun. With the availability of this facility to students from all educational and other institutions besides other interested groups can register online before visiting the RSC.
- RSC Dehradun facilitated district level Vigyan Mela organised by Sarv Shiksha Abhiyan (SSA) of Dehradun district on 29 March. Nearly 82 students from the state run junior high schools (Classes 6 to 8) along with 48 teachers from the Dehradun district participated in different activities. These include various competitions relating to Bal-Shodh, Teaching Learning Method (TLM), science quiz and essay writing.
- As many as 3166 persons including dignitaries visited the RSC, Dehradun by the end of the (2015-16) last fiscal. The dignitaries included Padma Bhushan Sri Chandi Prasad Bhatt, the Member of Parliament (MP), Rajya Sabha, Shri Tarun Vijay and Former Chief Secretary I K Pande.



Workshop/ Seminars

S. No.	Name & Address of the Convener/ Organising Secretary	Topic/Title of the Event	Duration of the Event
1.	Karnwasaram Vasant Mahotsav Mela Vikash Samiti, Dehradun (UK)	Scientific Background towards new innovation	11-13 February, 2016
2.	Dr. Mamta Chamoli M.Tech Electrical Department Uttarakhand Technical University, Premnagar, Suddhowala Dehradun	Development in Electrical Power System & Renewal Energy	18-19 February, 2016
3.	Prof. P.C.Joshi, Department of Zoology & Environment Science, Gurukula Kangri University, Haridwar(UK)	Taxonomic keys and identification tools of different groups of flora and fauna including the molecular	21-25 March, 2016
4.	Prof. Geeta Bhandari Head, Deptt. of Anaesthesiology & Critical Care, Govt. Medical College, Haldwani, Distt. Nainital	ANAESTHESIOLOGY UPDATE -2016	13 March, 2016
5.	Prof. D.P. Saklani Department of History & Archaeology, HNB. Garhwal University, Srinagar	A national conference on the Relevance of Vedic Environmental Ethics in the conservation of current environment	4-6 March, 2016
6.	Dr. Anju Bali Pandey Department of History D.A.V.(P.G.) College Dehradun Uttarakhand	National Seminar on India: An Emerging Power: Continuity And Change In Foreign Policy	15-16 March, 2016
7.	Dr. Amit Bhatt, Director Administration, Maya Group of Colleges, Selaqui, Dehradun	Scope of Science & Technology with reference to recent Government Schemes	12 March, 2016



HR News

- Dr. D.P.Uniyal, Sr. Scientific Officer, UCOST, Dehradun delivered a lecture on "Project Writing, Funding Opportunities & IP Management" at Maya Institute, Dehradun on March 12.
- Dr. D.P.Uniyal, Sr. Scientific Officer, UCOST, Dehradun delivered a lecture on "Taxonomy on Ecology: Importance of Biological Science" at Pt. LMS PG College, Rishikesh on March 28.
- Mr. Manoj Kumar Singh, Scientific Assistant, UCOST and Mr. Himanshu Goel, Project Scientist, PIC, UCOST attended a five days advance training for the trainers, organized by MHRD-IPR Chair (IIT Roorkee) entitled "Policy Based IP Creation and Management" during 22 – 26 Feb, at IIT Roorkee, Roorkee.
- Mr. Pankaj Rawat, DET Operator and Ms. Sonia Bhandari, Demonstrator participated in 3 day "Capacity building workshop for organising IRO & WRO-2016" from 7 to 9 March at National Council for Science Museum (NCSM), Kolkata.
- Ms. Tarangini Rawat, Mr. Nitin Kapil, Mr. Om Prakash Rawat joined RSC, UCOST, Dehradun.
- Dr. Ajeet Kaur, Mr. Siddhrath Napalchyal, Ms. Kanchan Dobhal and Ms. Seema Maikhuri joined in the project COEF supported by Ministry of Environment & Forest, Govt. of India, New Delhi.
- Dr. Piyush Joshi, Dr. Parveen Oniyal, Mr. Ramdev Ghuniyal and Mr. Vikash Nautiyal joined at UCOST, Dehradun.
- Dr. Anju Rawat joined in PIC project supported by DST, Govt. of India, New Delhi.
- Dr. Kirti Joshi S.O. deliver a lecture on "Innovation Management" at NIT Srinagar on 28th February 2016.
- Dr. Kirti Joshi S.O. presented her project at NCSTC review meeting at Bhuvneshwar on 27th Jan.
- Dr. Kirti Joshi S.O. participated at U.K. India meet at Dehradun on 16th Feb.



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