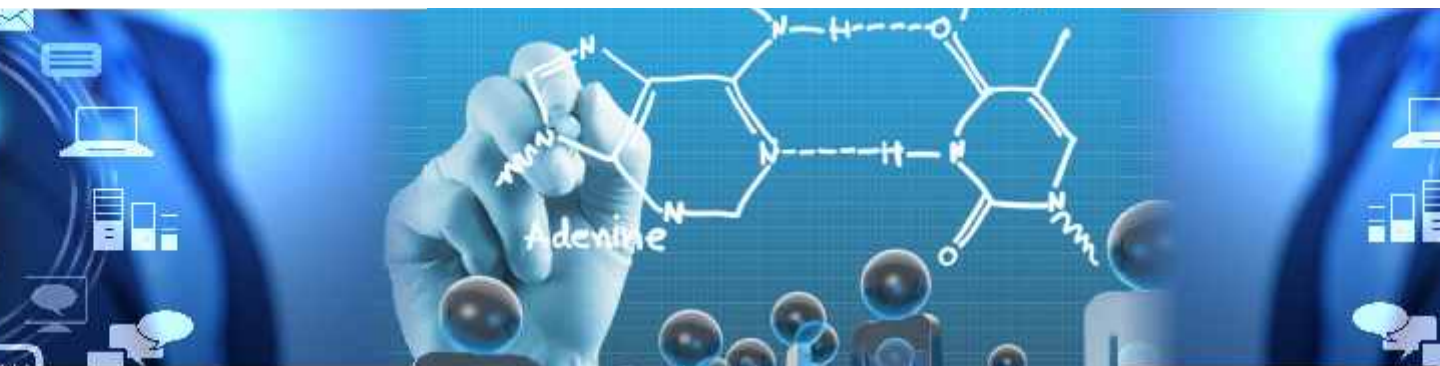




THE NATIONAL
ACADEMY
OF SCIENCES,
INDIA



UTTARAKHAND
STATE COUNCIL
FOR SCIENCE &
TECHNOLOGY

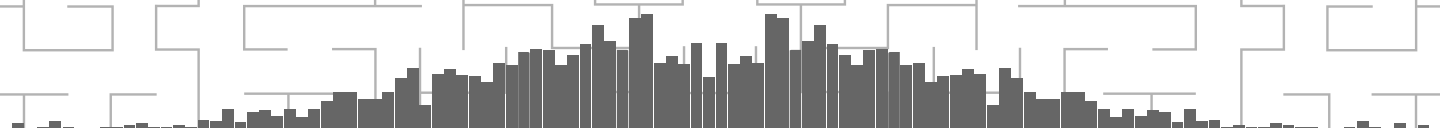


UTTARAKHAND
CHAPTER OF

NASI

ANNUAL REPORT

2015-16



UTTARAKHAND CHAPTER

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UTTARAKHAND CHAPTER OF
NATIONAL ACADEMY OF
SCIENCES,INDIA (NASI)

Annual Report
(2015-16)



THE NATIONAL
ACADEMY
OF SCIENCES,
INDIA



UTTARAKHAND
STATE COUNCIL
FOR SCIENCE &
TECHNOLOGY

UTTARAKHAND CHAPTER OF

NASI

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The National Academy of Sciences, India

The National Academy of Sciences, India founded in the year 1930, is a society registered under the registration of society's act 1860. It is the oldest Science Academy of the country and is located at Allahabad. Over the years, this unique organization has served as a springboard for scientific and technological activities in a wide variety of S&T domains. It has helped India usher in a scientific milieu, in creating and nurturing talent in science and technology.

The Academy started with 57 ordinary Members and 19 Fellows but which has now grown many folds in strength and popularity. Today it has about 1571 Members and 1637 Fellows including 29 Honorary Fellows and 87 Foreign Fellows. All these, include scientists from various disciplines of Science and Technology from all over India and abroad.

The main objective of the Academy is to provide a national forum for the publication of research work carried out by Indian scientists and to provide opportunities for exchange of views among them. The Rules and Regulations of the Academy were based on those of the Royal Society of England and Asiatic Society of Bengal. These have since been revised and updated to meet the emerging challenges. Prof. Meghnad Saha was elected its first President.

NASI - ENVISIONS

The cultivation and promotion of Science & Technology in all its branches, through –

- (a) The cultivation and promotion of Science and Technology in all its branches;
- (b) To publish such proceedings, journals, memoirs, transactions and other works as may be considered desirable;
- (c) To organize a Science Library;
- (d) To organize meetings and hold discussions on scientific and technological problems;
- (e) To promote scientific and technological research concerned with the problems of national welfare;
- (f) To undertake, through properly constituted committees and bodies, such scientific work of technological or public importance as it may be called upon to perform;
- (g) To co-operate with other organizations in India and abroad, having similar objects, and to appoint representatives of the Academy to act on national and international bodies;
- (h) To secure and manage funds and endowments for the promotion of science and technology;
- (i) To do and perform all other acts, matters and things that may assist in, conduce to, or be necessary for the fulfillment of the above mentioned aims and objects of the Academy;
- (j) To create an adequate impact of the Academy all over the country, it may open Chapters of the Academy in other cities in the country, where reasonable number of scientists are interested.

STATE CHAPTERS:

The Academy has 16 Chapters located at Allahabad, Bengaluru, Bundelkhand Extended Region, Chandigarh, Chennai, Delhi, Hyderabad, Jammu, Kharagpur, Kolkata, Lucknow, Mumbai, Patna, Shillong (N.E. Chapter), Uttarakhand and Varanasi.

The man of Science has learned to believe in justification, not by faith, but by verification

- Thomas Henry Huxley

UTTARAKHAND CHAPTER OF NASI

Uttarakhand is the youngest member among the metro chapters. Uttarakhand Chapter came in to being in the last quarter of 2006 with an aim to co-ordinate the activities of NASI, Allahabad in the newly formed state of Uttarakhand. The Uttarakhand Chapter of NASI, with its founder Chairman, Prof A.N. Purohit was formally inaugurated on October 12, 2006 at Uttaranchal Institute of Technology, Premnagar, Dehradun by Prof M.G.K. Menon, India's most renowned scientist. Other dignitaries who graced the occasion were Prof. P.N. Tandon, Former Director,

AIIMS, Dr. V.P. Sharma, Dr. (Mrs.) Manju Sharma, a large number of scientists and academicians in the state.

In recent years the chapter has observed change in office bearers with Prof. A.N. Purohit, Former Vice Chancellor, HNB Garhwal University is currently Chairman of the chapter and Dr. Rajendra Dobhal, Director General, Uttarakhand State Council for Science & Technology, Dehradun is the Secretary, NASI-UK Chapter. Dr. D.P. Uniyal is Coordinator & Co-opted member to coordinate the chapter routine work under the guidance of office bearer. Since then the chapter has organized many Science popularization activities.



Fig. 1 Inauguration of
NASI UK Chapter
(Date: 12/10/2006)

UCOST AFFILIATION

The Uttarakhand Chapter of the Academy is affiliated to the Uttarakhand State Council for Science & Technology (UCOST). UCOST has not only provided space for housing the working office of the chapter, it has been the motivating force and provided the guidance, platform and financial support in organizing the activities since the inception of the chapter. This has begun to attract the attention of academics, intellectuals and society at large.

The UK Chapter, in close collaboration with the UCOST aims at achieving the National Academy's

mandate and confident to achieve the following objectives:

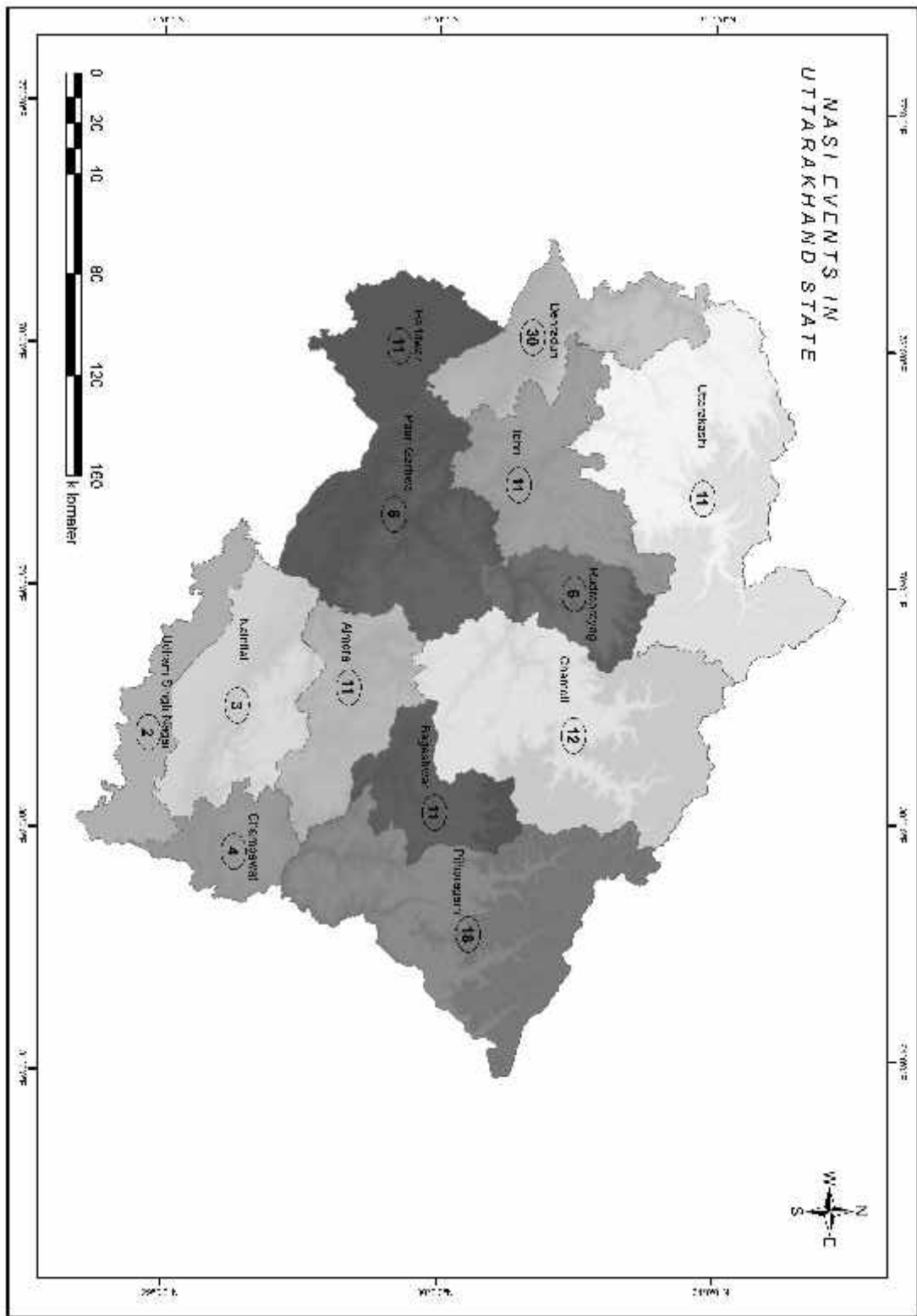
- i) Promote science education in Uttarakhand
- ii) Provide a forum for the fellows and members of the NASI for fruitful interactions in the field of Science & Technology
- iii) Act as a link between the leading /renowned national/ international scientists and the science teachers and students in the state of Uttarakhand.

In addition to various activities related to above objectives the state chapter has instituted the Best Teacher Award of the year to promote science

education in the state.
The state of Uttarakhand has 28 Fellows and 51 Members of NASI. The chapter has since its inception

has successfully organized various activities of science popularization that includes, Popular Lectures, Workshops and Seminars, Brainstorming Sessions S&T Exhibition and National Science Days etc.

Fig. 2 Map Showing NASI Events in Uttarakhand State



NASI Plenary Lectures

UCOST organizes the Uttarakhand State Science & Technology Congress as a flagship programme annually. The event continues for 3 days providing a platform to the Scientists/ Researchers/ Students to interact with senior scientists/experts of their respective subjects. Since 2009, during the inaugural session of state Science & Technology Congress, a NASI plenary lecture is being organized which is delivered a NASI fellow on various issues of S & T.

“Biodiversity is the key to sustainability”

Venue: 10th USSTC

Vigyan Dham, Jhajra, Dehradun

Dr Paramvir Singh Ahuja, *F.N.A.Sc.*

Adjunct Faculty

Biotechnology, Indian Institute of Science Education and Research, IISER Mohali



Fig. 3 Dr. Paramvir Singh Ahuja, *F.N.A.Sc.*, Former Director Genral CSIR delivering NASI Plenary Lecture

NASI Plenary Lecture by Dr. Paramvir Singh Ahuja

Dr. Paramvir Singh Ahuja, Former, Director General, CSIR delivered lecture on “Biodiversity is the key to sustainability”. Dr. Ahuja emphasized on different aspects of the biodiversity. He explained how climate is formed by the abiotic factors, the past history of

climate change and human induced activities and their effect on biological resources. Dr. Ahuja highlighted the evolution of life on the earth and how innovation in science and technology played a crucial role in its development. He suggested that Country's best mathematicians, biologists, chemists and engineers should work together for better research. There is much scope for work in the newly emerging field of bio-economy, bio-resources management he added.

The 10th Uttarakhand State Science & Technology Congress 2015-16 was inaugurated by the Hon. Minister of Science & Technology, Govt. of

Uttarakhand, Shri Surendra Singh Negi, and in his speech said that top priority should be given to S&T for the betterment of human kind.



Fig. 4 Dignitaries setting on Dias during 10th USSTC

He also said that some scientific technology should be invented to purify water resources and drinking water. Also the agricultural practices done by women in hilly areas should be technologically sound. He appreciated the achievements of UCOST & NASI, UK Chapter for developing the scientific temperament in the State. During the Inaugural function, three renowned Scientists were awarded the Science and Technology Excellence Award, 1. Prof. S.P. Singh, F.N.A., F.N.A.Sc., Former Vice Chancellor, HNB Garhwal

University Srinagar for outstanding contribution in the field of Plant Sciences, 2. Dr. B.R. Arora, F.N.A., F.N.A.Sc., Former Director, Wadia Institute of Himalayan Geology, Dehradun for outstanding contribution in the field of Earth Sciences, 3. Prof. R.D. Gaur, F.N.A.Sc., Former HOD Dept. of Botany, HNB Garhwal University Srinagar for outstanding contribution in the field of Environmental Sciences. All the awardees are closely associated with NASI, UK Chapter activities.



Fig. 5 Prof. S.P.Singh F.N.A., F.N.A.Sc., receiving Science & Technology Excellence Award in Enviromental Science by the Hon. Minister of Science & Technology, Sh. Surendra Singh Negi, Govt. of Uttarakhand



Fig. 6 Dr. B.R. Arora, *F.N.A., F.N.A.Sc.*, receiving Science & Technology Excellence Award in Earth Science by the Hon. Minister of Science & Technology, Sh. Surendra Singh Negi, Govt. of Uttarakhand

Fig. 7 Prof. R.D. Gaur, *F.N.A.Sc.*, receiving Science & Technology Excellence Award in Plant Science by the Hon. Minister of Science & Technology, Sh. Surendra Singh Negi, Govt. of Uttarakhand



Previous Years NASI Plenary Lectures

Year	Presenter	Topic	During	Venue	Date
2015	Prof. A.N. Purohit Former Vice Chancellor, HNB Garhwal University Srinagar	CO2 Climatism & Challenging Climate	9 th Uttarakhand State Science & Technology Congress	UCOST, Campus Vigyan Dham, Jhajra, Dehradun	25 th February, 2015
2013	Prof. L. M. S. Palni Former Director G.B.Pant Institute of Himalayan Environment & Development, Kosi Katarmal, Almora	Biodiversity conservation and management	8 th Uttarakhand State Science & Technology Congress	Doon University, Dehradun	26 th December, 2013
2012	Dr Manju Sharma Former Secretary, Department of Biotechnology (DBT), GoI New Delhi	Biotechnology for Humankind: Relevance and Excitement	7 th Uttarakhand State Science & Technology Congress	Graphic Era University, Dehradun	21 st November, 2012
2011	Dr. Lalji Singh VC, Banaras Hindu University, Varanasi	Genetic diversity in Indian populations and its health implications	6 th Uttarakhand State Science & Technology Congress	Kumaun University, S.S.J. Campus, Almora	15 th November, 2011
2010	Dr. R.S. Tolia Former Chief Secretary of Uttarakhand	Indian Mountain Initiative: Role of Science & Technology	5 th Uttarakhand State Science & Technology Congress	Doon University, Dehradun	10 th November, 2009
2009	Late. Dr. Vinod Bhakuni Scientist-in-Charge Molecular and Structural Biology Division, CSIR CDRI, Lucknow	Drug Discovery Approaches	4 th Uttarakhand State Science & Technology Congress	G.B.Pant University of Agriculture & Technology, Pantanagar, U.S.Nagar	10 th November, 2009

Popular Lecture (2015-16)

Shri G.S. Rautela, Director General, National Council of Science Museum (NCSM), Kolkata delivered lecture on “Role of Science City/Regional Science Center in Science Popularization”. In his speech, Shri Rautela emphasised that Science City/Regional Science Center (RSC) should also work to raise S&T based issues important to societies and to include them in policy and planning. He also explained that awareness programs of RSC impart a long lasting impression among visitors on protection of natural resources. He added that science museum provides an excellent platform to the students, researchers & common masses to understand the everyday science with the help of working models.

“Role of Science City/ Regional Science Center in Science Popularization”

Venue: Vigyan Dham, Jhajra, Dehradun

Date: 22nd April, 2015

Sh. G.S. Rautela

Director General

National Council of Science museum
(NCSM) Kolkata.



Fig. 8 Sh. G.S.Rautela
Director General delivering Lecture
on Role of Regional Science Center
for Science Popularization

Prof. Ravi Chibbar, Dept. of Plant Sciences, College of Agriculture & Bioresarches, University of Saskatchewan, Canada, delivered lecture on “Genomic strategies for the improvement of grain quality” at Vigyan Dham, Jhajra, Dehradun on June 09, 2015. He stated that Genomic plays an important role in improving the grain quality and globally many efforts are going on. India is also taking initiatives in this direction. The lecture was attended by nearly 60 scientists/ researchers /students from various universities/ organization & institution.

“Genomic strategies for the improvement of Grain quality”

Venue: Vigyan Dham, Jhajra, Dehradun

Date: 9th June, 2015

Prof. Ravi Chibbar

Dept. of Plant Sciences

College of Agricultural & Bioresarches,
University of Saskatchewan, Canada.



Fig. 9 Prof. Ravi Chibbar
delivering lecture

On the occasion of World Environment Day (5th June, 2015), Uttarakhand State Council for Science and Technology & NASI-UK Chapter felicitated Sh. Kishan Singh Malada of Bageshwar district who have planted 160 plants of endangered species. He also attempted to replenish two dried up water sources near his Village. In this address, he requested schools & colleges to organize a plantation drive every month to make students understand the importance of trees. Several other speakers Dr. Rajendra Dobhal, DG UCOST, Dehradun Prof. A.N. Purohit, Former Vice Chancellor, HNBGU, Srinagar & Chairman NASI-UK Chapter, Er. Rakesh Oberai, Ex- Chairman, CII Dehradun and Prof. Gajendra Singh, Former Vice Chancellor, Doon University, Dehradun delivered lecture on “Agriculture & Climate Change”.

“Agriculture & Climate Change”

Venue: Vigyan Dham, Jhajra,
Dehradun

Date: 5th June, 2015

Shri Kishan Singh Malada

Environmentalist, Bageshwar,

Prof. Gajendra Singh,

Former Vice Chancellor, Doon
University, Dehradun



Fig. 10 Shri Kishan Singh Malada receiving Excellence Award for Conservation of Environment by the Dr. Rajendra Dobhal, DG UCOST & Secretary NASI U.K.Chapter, Prof. A.N. Purohit, Former VC, H.N.B.Garhwal University Chairman, NASI UK Chapter & Prof. Gajendra Singh, Former, VC Doon University, Dehradun

On the occasion of earth day celebration (22nd April, 2015) a programme was organized at Vgyan Dham Jhajra Dehradun. Dr. Rajendra Dobhal, Director General UCOST gave the brief address on the need for sustainable development by making judicious use of natural resources. Former Senior Scientist of Wadia Institute of Himalayan Geology, Dehradun, Dr. A.K. Dubey delivered lecture on "Origin of the Himalaya and Geological structure in the Himalayan Arc". He also stressed upon the different disaster i.e., landslide, earthquake, flood, etc. Besides this he also explained the impact of climate change on the Himalayan region. NASI, UK Chapter Chairman & Former Vice Chancellor of H.N.B. Garhwal University, Srinagar, Prof. A.N. Purohit said that due to anthropogenic pressure the biodiversity of Himalayan region is getting adversely effected and need immediate attention.

"Origin of the Himalaya and Geological structure in the Himalayan Arc".

Venue: Vigyan Dham, Jhajra, Dehradun
Date: 22nd April, 2015
Dr. A.K.Dubey
Former Scientist-G,
Wadia Institute of Himalayan Geology,
Dehradun.



Fig. 11 Dr. A.K. Dubey, Senior Scientist, delivering Lecture

On the occasion of Earth Day a poster competition on the theme "Clean Your City" was also organized, students from the different Universities/ Institution/ Colleges participated in the competition and the winners were awarded.



Fig. 12 Participants drawing posters on the occasion of Earth Day.

Prof. K.S.Valdia, *F.N.A, F.A.Sc., F.N.A.Sc., F.T.W.A.S.*, delivered a popular lecture on “Geological marvels, hallowed shrines and unification of people of India” He said that spectacular landforms and extraordinary geological features sculptured by uncommon earth processes occur in different parts of the Indian subcontinent. Presumably, unable to unravel the mysteries of their origin, and realizing that singularly odd features located in picturesque places attract believers and non-believers alike, the leading lights of the society of ancient India invested them with the aura of divinity and established shrines of the commonly venerated deity. Influencing convincingly people belonging to diverse racial-ethnic groups inhabiting different parts of the country, speaking languages belonging to disparate groups, indulging in different socio-cultural practices and eating and dressing differently, to go on regular visits to these hallowed sites or seats of deity, the visionary sages and seers of the ancient India endeavoured successfully to promote

interactions of visitors to these Geological marvels located in different parts of the country and bring about cross-fertilization of thoughts and cultural elements, and thus the unification of the largest section of the population.

“Geological marvels, hallowed shrines and unification of people of India”

Vigyan Dham, Jhajra, Dehradun

Date: 17th October, 2015

Prof. K.S.Valdia

Geodynamics Unit Jawaharlal Nehru Centre for
advanced Scientific Research, Jakkur Campus,
Bangalore.



Fig. 13 Prof. K.S.Waldia delivering popular lecture



Fig. 14 Participants during popular lecture

Previous Year's Popular Lectures

Year	Presenter	Topic	Venue	Date
2015	Shri Yashwant Panwar Director, TIFAC, DST, GoI, New Delhi	Intellectual Property Right(IPR)	UCOST Campus Vigyan Dham Jhira, Dehradun	27 th January, 2015
2014	Prof. L.M.S.Palni Former Director, GBPIHED Dean, Biotechnology, Graphic Era University, Dehradun	Biodiversity is Life: Biodiversity is our Life	UCOST Campus Vigyan Dham Jhira, Dehradun	11 th November, 2014
2014	Prof. Anu Puri, Centre for Cancer Research, Maryland, USA	Nano-medicen: Cancer & Beyond Existing strategy for drug delivery platform	UCOST Campus Vigyan Dham Jhira, Dehradun	23 rd May, 2014
2014	Prof. H.C.Pokhriyal Director, School of Open Learning, University of Delhi	Participatory Learning by community involvement	UCOST Campus Vigyan Dham Jhira, Dehradun	28 th July, 2014
2012	Prof. M.G.K Menon Former Union Minister of Science & Technology	Science & Society in the service of the people of Uttarakhand	Indian Council of Forestry Research &Education, Dehradun	24 th May, 2012
2012	Prof. Balram Bhargava Dept. of Radiology, All India Institute of Medical Science, New Delhi	Challenges & Opportunities for healthcare innovation in India	Indian Council of Forestry Research &Education, Dehradun	24 th May, 2012
2012	Dr. V.P. Sharma Former Director, ICAR, New Delhi Delhi	Preventive Measures: Water Borne Disaster	Govt. Girls Inter College, Mussoorie	26th May, 2012
2010	Prof. Rajender S. Varma Sustainable Technology Division, National Risk Management Research Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio45268, USA	Greener Syntheses and Chemical Transformations: Sustainable Alternative Methods and Applications of Nano- Catalysts	Doon University, Dehradun	01 st December, 2010
2010	Prof. Rajender S. Varma Sustainable Technology Division, National Risk Management Research Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio45268, USA	Greener Syntheses and Chemical Transformations: Sustainable Alternative Methods and Applications of Nano- Catalysts	H.N. B. Garhwal University, Srinagar	29 th November, 2010
2010	Dr. B.S. Rawat, Head, Dept. of Electrical and Biomedical Engineering, University of Nevada, U.S.A	Energy Challenges of Future	Uttarakhand state Council for Science &Technology Conference hall, Dehradun	04 th January, 2010
2010	Dr. E.J. Thomas, The School of Chemistry, University of Manchester, UK	Alternatives to allylstannanes for remote stereocontrol	Uttarakhand state Council for Science &Technology Conference hall, Dehradun	04 th January, 2010
2008	Late Dr. Vinod Bhakhuni Scientist-in-Charge Molecular and Structural Biology Division CSIR-Central Drug Research Institute (CDRI), Lucknow	The Drug Discovery Constraints	Uttarakhand state Council for Science &Technology Conference hall, Dehradun	05 th Feb 2008
2008	Late Dr. Vinod Bhakhuni Scientist-in-Charge Molecular and Structural Biology Division CSIR-Central Drug Research Institute (CDRI), Lucknow	The Drug Discovery Constraints	SGRR PG College Dehradun	05 th Feb 2008

Brainstorming Sessions

Venue: Vigyan Dham Jhajra, Dehradun

Date: 10.02.2016

During: 10th State Science congress

Four brainstorming sessions were organized during the 10th State Science congress. Many eminent scientist/academician took part in the discussion. The brief reports of these sessions are as follows:-

(1) Brain Storming Session on “Status of Research & Development in Higher Education”

Prominent Personalities:

The session was chaired by Prof A.N. Purohit, F.N.A., F.N.A.Sc., Former Vice Chancellor, HNB Garhwal Central University, Srinagar, Uttarakhand, Prof. Veer Singh, Dept. of Environment Science, GBPUA&T, Pantnagar Prof. M.S.M. Rawat, Former Vice Chancellor, HNB Garhwal Central University, Srinagar, Uttarakhand, Dr Mangala Rai, Vice Chancellor, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand, Prof H.S. Dhami, Vice Chancellor, Kumaun University, Nainital, Uttarakhand, Prof Jawahar Lal Kaul, Vice Chancellor, HNB Garhwal Central University, Srinagar, Uttarakhand, Prof R.C. Sobti, Vice Chancellor, Babasaheb Bhimrao Ambedkar Central University, Lucknow (UP), Dr U.S. Rawat, Vice Chancellor, Sri Dev Suman Uttarakhand University, Tehri Garhwal, Uttarakhand, Prof V.K. Jain, Vice Chancellor, Doon University, Dehradun, Uttarakhand, Prof P.K. Garg,

Vice Chancellor, Uttarakhand Technical University, Dehradun, Uttarakhand, Prof Dilip K. Bandyopadhyay, Vice Chancellor, IMS Unison University, Dehradun, Uttarakhand, Dr Shrihari Honwad, Vice Chancellor, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, Prof V K Tewari, Vice Chancellor, Graphic Era University, Dehradun, Uttarakhand, Prof Sanjay Jasola, Vice Chancellor, Graphic Era Hill University, Dehradun, Uttarakhand, Dr Kuldeep K Raina, Vice Chancellor, DIT University, Dehradun, Prof S.C. Joshi, Vice Chancellor, Uttaranchal University, Dehradun, Uttarakhand, Prof Ravindra Bhardwaj, Vice Chancellor, Himgiri Zee University, Dehradun, Uttarakhand, Dr R.K. Lalwani, Vice Chancellor, The ICFAI University, Dehradun, Uttarakhand, Prof Ajay Gairola, Indian Institute of Technology- Roorkee, Uttarakhand, Prof Durgesh Pant, Director, Uttarakhand Space Application Centre (USAC), Dehradun, Uttarakhand, Dr P.T. Bhutiya, Ex-Scientist In-charge, Zoological Survey of India, Northern Circle, Dehradun, Uttarakhand, Dr Subhash Nautiyal, Research & Extension Centre, VCSG Uttarakhand University of Horticulture & Forestry, Selaqui, Dehradun, Uttarakhand, Prof J.S. Rawat, Dept of Geography, SSJ Campus, Kumaun University, Almora, Uttarakhand, Sh. Ravinder Gaur, Technology Development Transfer (TDT), Department of Science & Technology, New Delhi, Dr M.K. Nautiyal, Director, Uttarakhand Council for Biotechnology (UCB), U.S. Nagar, Uttarakhand, Prof Vijay Juyal, Registrar, HNB Uttarakhand Medical Education University, Dehradun, Uttarakhand, Prof H.C. Nainwal, Dept of Geology, HNB Garhwal Central University, Srinagar-Garhwal, Uttarakhand, Dr Vijay Sridhar, School of Environment and Natural Resources, Dehradun, Uttarakhand and Dr. Y. Singh, Principal, GB Pant Engineering College,

Ghurdauri, Pauri Garhwal, Uttarakhand. Dr. Chinnappan Baskar, THDC Institute of Hydropower Engineering & Technology, Tehri Garhwal, Uttarakhand. Dr. K.K.S. Mer, Director, Institute of Technology, Kothiyal Sain, Gopeshwar, Chamoli, Uttarakhand. Dr. B.K. Singh, Director, Seemant Institute of Technology, Pithoragarh, Uttarakhand. Dr. Veena Pandey, Kumaun University, Bhimtal Campus, Nainital, Uttarakhand. Dr. Kamal Pandey, Government Degree College, Haldwani, Nainital, Uttarakhand. Dr. C.S. Dhanai, VCSG Uttarakhand University of Horticulture & Forestry, Ranichauri, Tehri Garhwal, Uttarakhand,

Dr. Hemwati Nandan, Dept of Physics, Gurukul Kangari Vishwavidyalaya, Haridwar, Uttarakhand, Dr. Suman Singh, Former Professor, Lal Bahadur Shastri Academy, Mussoorie, Uttarakhand, Dr. V. P. Uniyal, Scientist F, Wildlife Institute of India, Dehradun, Uttarakhand. Dr. Suresh Kumar, Head, Agriculture and Soil Division, Indian Institute of Remote Sensing (IIRS), Dehradun, Uttarakhand. Hari Raj Singh, Soil Consultant, Indira Nagar, Dehradun, Uttarakhand. Dr. Vinod Bhatt, Director, Navdanya, Dehradun, Uttarakhand. Prof. Lalit Tewari, Kumaun University, Nainital.

Recommendations:

- 1) Good Infrastructure facilities should be there in schools /colleges of rural areas.
- 2) More S&T awareness programmes should be organized at school & college level.
- 3) Science literature should be published in Hindi as well.
- 4) Science teachers orientation/training should be organized on regular basis.
- 5) Science forum should be established at district level.



Fig. 15 Participants during BSS on Status of Research & Development in Higher Education



Fig. 16 Prof. A. N Purohit delivering lecture on BSS of Status of Research & Development in Higher Education

(2) Brain Storming Session on “Skill of Scientific Paper, Projects Writing and Funding Mechanism”

Prominent Personalities:

The Session was chaired by Dr. B.R. Arora, F.N.A., F.N.A.Sc., Former Director, Wadia Institute of Himalayan Geology, Dehradun, Session Co-Chairman, Prof. R.D. Gaur, F.N.A.Sc., Advisor, NASI-UK Chapter, Uttarakhand and Dr. Gopal Singh Rawat, F.N.A.Sc., Dean, Wildlife Institute of India, Dehradun, Speakers, Prof. U.C. Srivastava General Secretary (HQ), The National Academy of Sciences India, Allahabad, Prof. Paramjit Khurana, University of Delhi, South campus, New Delhi, Dr. D.P. Uniyal, Senior Scientific Officer, UCOST & NASI, UK Chapter Coordinator Dehradun (Session Convener) Session Coordinator: Dr. Manmohan Singh Rawat, UCOST, Dehradun, Dr. Jagbir Aswal, UCOST, Dehradun, Dr. Neelu Jyoti Ahuja, UPES, Dehradun. Experts, Dr. Rajeev Pandey, Scientist E, Indian Council of Forestry Research and Education, Dehradun, Prof. Sanjay Gupta, Department of Biotechnology & Biochemistry,

S.B.S. PG Institute of Biomedical Sciences and Research, Balawala, Dehradun, Dr. Ajay Kumar Biyani, Department of Geology, D.B.S (PG) College, Dehradun, Dr. A.N. Rizvi, Scientist D, Zoological Survey of India, Dehradun, Dr. S.K. Srivastava, Scientist D, Botanical Survey of India, Dehradun, Dr. Kusum Arunachalam, Doon University Campus, Dehradun, Dr. Rakesh Singh, Department of Chemistry, D.B.S. (PG) College, Dehradun, Dr. Manisha Uniyal, Department of Zoology, Shri Guru Ram Rai (PG) College, Dehradun, Dr. B.S. Rawat, Department of Mathematics, D.B.S. (PG) College, Dehradun, Dr. Versha Parcha, Pharmaceutical Sciences, S.B.S. PG Institute of Biomedical Sciences and Research, Balawala, Dehradun, Dr. Kamal Kishor Pandey, Department of Chemistry, M.B. PG College, Haldwani and Sh. Amit Chauhan, Department of Mathematics, D.B.S. (PG) College, Dehradun.

Prof. Pramjeet Khurna delivered lecture on “The Art of Scientific Paper Writing & Presentation”, Prof. U.C. Srivastava, delivered lecture on “Concept building and Developing Hypothesis” and Dr. D.P. Uniyal delivered lecture on “Skill of Scientific paper, project writing and funding mechanism” respectively. In the open session participants interact with the experts and panelist.

Fig. 17 Prof. Pramjeet Khurna
delivering lecture on
“The Art of Scientific Paper
Writing & Presentation”

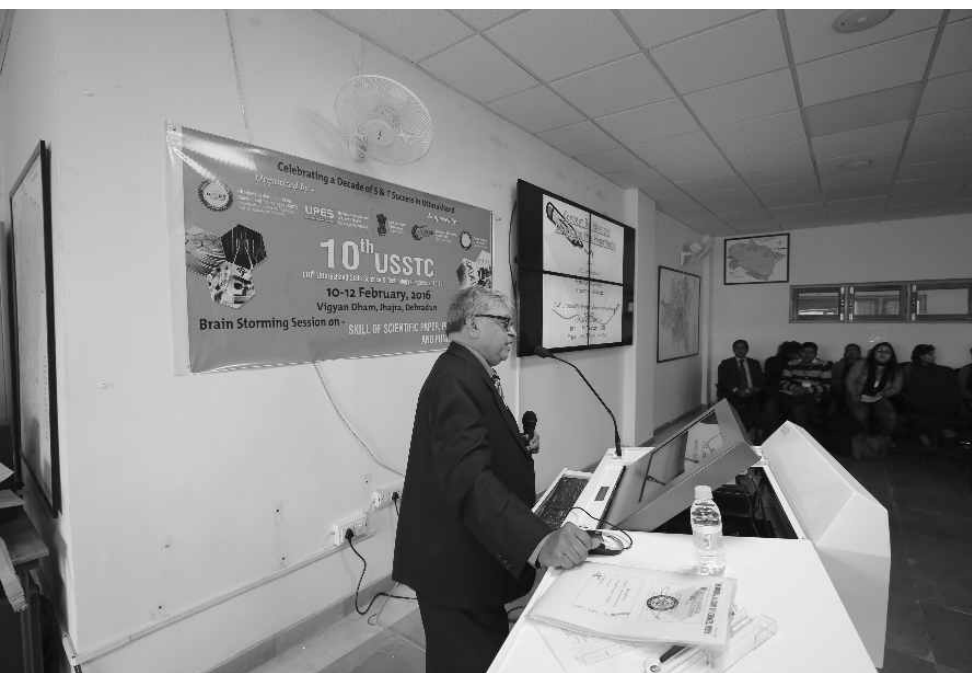


Fig. 18 Prof. U.C. Srivastava
delivering lecture on
“Concept building and
Developing Hypothesis”



Fig. 19 Dr. D.P. Uniyal delivering lecture on the "Skill of Scientific Paper, Project Writing and Funding Mechanism"

Recommendations:

1. UCOST & NASI must identify areas of research applicable for science and technology development in the State of Uttarakhand.
2. Universities and research institutes should be asked to choose specific areas of research and development they would like to contribute to the science and technology for the development of the State. Emphasis should be on need-based, high-quality, innovative, focused and interdisciplinary research rather than on the repetitive one.
3. Sufficient funds be provided for R&D purposes in terms of infrastructure development with ICT facilities. More money should be allocated to enhance R&D activities rather than to the organization of seminars/ conferences.
4. Institutes must build up an environment to generate their own funds.
5. Provision of sufficient scholarships/ fellowships to research students and financial aid to the students hailing from poor families will help the R&D environment to prevail in the State.
6. For creating a Network of all R&D partners, a website should be developed that will portray all going-on projects and resources/ facilities/ instruments/ research material available with individual institutes.
7. Signing of MOUs among institutes for meaningful collaboration and creating synergy must be a common practice.
9. Conducting workshops/ conferences/ seminars to ignite young minds with mutual sharing of resources among various institutes should be duly encouraged.
10. Quality of teaching, research, extension activities and administration should be evaluated from time to time. Revamping of all the R&D programmes should also be done after their thorough review at regular intervals.

(3) Brain Storming Session on “Human- Robot Interaction”

Prominent Personalities:

The Session was chaired by Prof. Pathak Pushparaj Mani, Department of Mechanical and Industrial Engineering, IIT Roorkee, Roorkee, Session Co-Chairman, Dr. E. G. Rajan, Founder President, Pentagon Research Centre (P) Limited, Hyderabad. Lead Speakers, Dr. Vrijendra Singh, Associate Professor, IIIT, Allahabad, Dr. P. C. Ray, Indian Institute of Remote Sensing (IIRS), Dehradun, Prof. D. V. Gadre Associate Professor, Netaji Subhash Institute of Technology, New Delhi, Prof. R. K. Singh, Director, BTKIT, Dwarahat, Almora, Dr. Loviraj Gupta, Dean, Lovely Professional University, Jalandhar, Dr. Manish Prateek, Associate Dean (CIT), University of Petroleum and Energy Studies, Dehradun, Prof. Shyam Akashe, Dept. of Electronics and Instrumentation, ITM University Gwalior, Mr. Trilok Tak, Director, Mindfield Technologies, Jodhpur, Rajasthan, Mr. Yogesh Kalia, Director, CTO, Medhaavi Center for Automotive Research, Hoshiarpur, Punjab, Session Convener, Mr. Manoj Kumar Singh, UCOST, Dehradun, Session Coordinator, Dr. Prashant Singh, District Coordinator,

UCOST, Dehradun, Mr. Rajesh Singh, UPES, Dehradun, Session Co-Coordinator, Ms. Anita, UPES, Dehradun. Session Experts, Prof. Rajesh Kumar, Department of ICE, Graphic Era University, Dehradun, Dr. Vishal Gupta, Associate Professor, GRD Academy, Dehradun, Mr. S. Choudhury, Head EIC, UPES, Dehradun, Dr. Paawan Sharma, Assistant Professor (SS), UPES, Dehradun, Dr. Adesh Kumar, Assistant Professor (SS), UPES, Dehradun, Mr. Bhupendra Singh, Director, Schematics Microelectronics, Dehradun, Mr. Ravindra Sharma, Head, Department of CSE, Nibus Academy of Management, Dehradun, Mr. Vivek Kaundal, Assistant Professor (SS), UPES, Dehradun, Mr. Devendra Singh, Head, Department of ECE, UIT, Dehradun, Mr. Kulshresth Paraliya, Assistant Professor, Department of CSE, JBIT, Dehradun, Dr. Kamal Kumar, Assistant Professor (SG), Centre of Information Technology, UPES, Dehradun, Mr. Deepak Bharadwaj, Assistant Professor, Department of Mechanical Engineering, UPES, Dehradun, Dr. Piyush Chauhan, Assistant Professor (SS), Centre of Information Technology, UPES, Dehradun, Mr. Raj Gaurav Mishra, Assistant Professor (SG), Department of EIC, UPES, Dehradun, Mr. Vinod Kumar Yadav, Head, Department of Civil Engineering, HRIT, Ghaziabad.



Fig. 20 Expert delivering lecture on BSS in Human - Robot Interaction



Fig. 21 Expert delivering lecture on BSS in Human - Robot Interaction

Recommendations:

1. Drones with more precision are the requirement of today. As in case of disaster pictures from satellite only gives the overall picture but exactly where the need of rescue is not clear. Robotics is field which can help in rescue operations and agricultural need of Uttarakhand.
2. Robots for agricultural need to be emphasized for Uttarakhand.
3. Cost effective robots should be developed for various applications.
4. UCOST & NASI must sponsor some projects on robot development for agriculture application particularly for Uttarakhand.
5. There is requirement to create a portal where all the database related to disaster happens in Uttarakhand can be hosted and used by the researchers.
6. Govt. should promote the development of few robots specially designed for educating children staying at remote locations in Uttarakhand.

(4) Brain Storming Session on “Application of Media & Social Media for Science Communication”

Prominent Personalities:

The Session was chaired by Mr.Devendra Mewari Eminent Science Writer, New Delhi,Session Convener Expert present in BSS was Mr. D.S. Kunwar, Editor, Times of India, Dehradun,Dr. R. Gopichandran, Director, Vigyan Prasar, Noida,Mr. Biju Negi, Beej Bachao Andolan, Uttarakhand,Mr. Ravindra Nath Kaushik, Doon Darpan, Dehradun,The Editor, Amar Ujala, Dainik Jagran, Rashtriya Sahara, Pioneer, Dehradun,Mr. Ashok Mishra, Editor, Garhwal Post, Dehradun,Mr. Satish Sharma, Editor, Garhwal Post, Dehradun, Mr. Girish Gururani, Editor, Hindustan (Hindi), Dehradun, Mr. Anupam Trivedi, Bureau

Chief, Hindustan Times, Dehradun, Mr. Kuldeep Singh Panwar, Senior Sub – Editor, I next, Dehradun Mr. Sanjeev Sharma, IBN-7, Dehradun,Mr. Yogesh Bhatt, Editor, Jan Vani, Pithoragarh, The Bureau Chief, Sahara Samay, Samachar Plus, Network 10, TV 100, Dehradun,Mr. Virendra Bhardwaj, Bureau Chief, Punjab Kesri, Dehradun,Mr. Sunil Talwar, Bureau Chief, Punjab Kesri, New Delhi,Ms. Anjali Nauriyal, The Times of India, Dehradun,Mr. Sonu Singh, Zee Sangam, Dehradun,Mr. S.M.A. Kazmi, Editor, The Tribune, Dehradun,Dr. Girish Ranjan, Head of the Department of Journalism and Mass Communication, DSB Campus, Kumaun University, Nainital,Dr. Govind Singh, Head, Department of Journalism and Mass Communication, Uttarakhand Open University, Behind Transport Nagar, Teenpani Bypass Road, Haldwani,Ms. Laxmi Mishra, Centre for Technology & Development, Dehradun,Prof. Shivendra Kumar Kashyap, Head, Department of Agricultural Communication & Joint Director, Communication Centre, College of Agriculture, GB

Pant University of Agriculture & Technology, Pantnagar, Dr. Sukhnandan Prasad, Head Journalism, Dev Sanskriti Vishvavidyalaya, Gayatri Kunj, Shanti Kunj, Haridwar, Ms. Jas Kiran Chopra, The Pioneer, Dehradun, Mr. Rajeev Lochan Shah, Editor in Chief, Nainital samachar, Dr. Punam K. Singh, Regional Director, IGNOU, Shimla, Dr. S.K. Kulshrestha, President, DOON Science forum, Mr. Gaurav Mishra, Sr. Journalist, Amar Ujala, Mr. Paritosth Kimothi, Sr. Journalist, The Pioneer, Mr. Yotirmay Thapliyal, Sr. Journalist, Tribune, Mr. Vijay Bhatt, Secretary, Doon Science Forum, Mr. Pradeep Bhandari, Manager, Centre for Technology & Development, Dehradun, Dr. Manmohan Singh, Director, Meteorological Center, Shimla, Himachal Pradesh, Dr. A Senthil Kumar,

Director, IIRS Dehradun, Dr. Binita Shah, SARG Vikash Samitee, Dehradun, Dr. N.S.K Harsh, Group Coordinator, Research, FRI, Dehradun, Mr. Bikram Singh, Director, Meteorological Centre, Uttarakhand, Dr. Ashwani Arvind Ranade, Scientist, Surface Water Hydrology, NIH, Roorkee, Vaidya Balendu Prakash, Founder Director, VCP Cancer Research Foundation – Dharmashila Cancer Research Centre & Hospital, Dehradun, Dr. C.M. Nautiyal, Scientist In-Charge, Radiocarbon Lab, BSIP, Lucknow, U.P., Dr. N.A. Siddiqui, Head, Dept of HSE, UPES, Dehradun. Dr. Kirti Joshi, UCOST, Dehradun, Session Coordinator Dr. Brijmohan Sharma, Secretary, SPECS, Dehradun and Dr. Prasoom Dwivedi, UPES, Dehradun.

Fig. 22 Dignitaries sitting on Dias during BSS in Application of Media & Social Media for science communication



Fig. 23 Participants during BSS in Application of Media & Social Media for science communication

Recommendations:

1. Certain remarkable platform should be given to the scientists and some group should be formed to share science related information.
2. Workshops on scientific writings comprising of both scientists and media persons should be organized.

NASI Uttarakhand Chapter Meeting

NASI Uttarakhand Chapter meeting held at UCOST on 03 July, 2015

The National Academy of Sciences (NASI) UK-Chapter annual meeting was held at UCOST. The meeting was chaired by Dr.(Mrs.) Manju Sharma, Former Secretary to the Govt. of India, Department of Biotechnology, Principal Advisor to the Dept. Science and Technology, Gujarat, Distinguished Women Scientist Chair, NASI, Allahabad, Prof. A.N Purohit, Former Vice Chancellor, H.N.B.G.U. Srinagar, Chairman of NASI UK Chapter, Prof. R.D Gaur, Former Head, Dept. of Botany & Adviser NASI UK Chapter, Dr. Rajendra Dobhal, Secretary NASI UK Chapter, Director General UCOST, Dr Neeraj Kumar,

Executive Secretary, NASI Allahabad, Dr. B.P Purohit, Joint Director, UCOST, Dr. D.P Uniyal, Coordinator & Co-opted Member NASI UK Chapter & Dr. Manmohan Singh Rawat, UCOST were present in the meeting. The NASI UK Chapter annual report was also released during the meeting by the dignitaries. All the members agreed that NASI-UK Chapter will organise theme based programme on Bio-Diversity & Climate Change and Farm Mechanism (problem of Mountain Farming in Uttarakhand) and also decided that NASI 86th Annual Session and Symposium on “Science, Technology and Entrepreneurship for Human Welfare in The Himalayan Region” will be held at Dehradun in collaboration with Uttarakhand State Council for Science & Technology & Uttarakhand Technical University, Dehradun.



Fig. 24 NASI Allahabad & NASI UK Chapter Office Bearer in meeting

Fig. 25 Release of
NASI-UK Chapter
Annual Report 2014-15



Science Day and S&T Exhibition

Celebration of National Science Day-2016

National science day 2016 was organized at Regional Science Center (RSC) Jhajra, Dehradun on 27th February 2016. The Chief Guest, Prof. A.N.Purohit, Former Vice Chancellor, HNB Garhwal University Srinagar & NASI, UK Chapter Chairman, elaborated that the human resources of the Country should be skilled in such a way so that they can contribute to the Make in India programme. He professed that the scientific temperament should be inculcated in every man of the society. The Scientific approach is must for the youth of the country and much more is needed than a technological approach as science is the source for the development of technology. Dr. Rajendra Dobhal, DG, UCOST & Secretary NASI, UK Chapter, elaborated on the theme of this year national

science day "Make in India: S&T based innovation". He said that make in India should be innovation centric for maintaining the momentum of Research & Development in the Country. If make in India programme becomes successful than India will leave a mark globally. The guest speaker Dr. S.S.Pandey, Joint Commissioner, Civil Supply & Consumer protection, Uttarakhand Government in her presentation described why science day is celebrated in context of Prof. C.V. Raman. She also explained about how in pre- independence era, Jamshedji, Tata influenced by Swami Vivekanand started manufacturing steel within India. Dr. Swaminathan's role in bringing about Green revolution within the Country to make India self sufficient in Agricultural production. Other Scientists she touched upon were Dr. Vivesaraya etc. The other speaker for the event, Dr. C. M. Nautiyal, Scientist Incharge Radiocarbon Dating Lab, Birbal sahani Institute of Paleobotony, Lucknow gave his talk on "How old is old: Radiocarbon dating". In a very simple

way he explained to the participants about the techniques of radiocarbon dating and told that Willard Libbi got a Nobel prize in chemistry for this technique. During the session, the participants were given hands-on training on making of solar and LED lights by Dr. Brij Mohan Sharma, SPECS along with his team. At the end the participants toured the RSC where they learn about science through exhibits installed. The

250 participants were from Govt. Degree College Rishikesh; DIT University, DAV PG College, Uttarakhand University, The Cambridge School, University of Petroleum & Energy Studies, Himalayan Institute of Pharmacy, Govt. High School, Kotla Santoor, Doon School, Welham Boys School, Gyani Inder Institute and Doon University.

Fig. 26 Dignitaries sitting on Dias during National Science Day-2016



Fig. 27 Participants during National Science Day -2016

Fig. 28 Dr. C.S. Nautiyal
delivering lecture during
National Science
Day-2016



Science & Technology Exhibition:

With a view to encourage, popularize and inculcate scientific temper among the Students/Researchers & common masses, every year State level Science Exhibition is being organised, Students/ Researchers showcase their talents in science and their applications in different areas related with our everyday life.

The exhibition was inaugurated by Hon. Minister of Science & Technology, Govt. of Uttarakhand, Sh. Surendra Singh Negi. During the exhibition, the exhibitors not only displayed their scientific talents through their models and exhibits, but also get an opportunity to listen to some of the eminent scientists and scholars of the region.

Objectives of the Exhibition:

- a. To provide a forum for Students to pursue their natural curiosity and inventiveness to quench their thirst for creativity;
- b. To make Students feel that science is all around us and we can gain knowledge as well as solve many problems also by relating the learning process to the physical and social environment;
- c. To lay emphasis on the development of science and technology as a major instrument for achieving goals of self-reliance and socio-economic and socio-ecological development;
- d. To highlight the role of science and technology for producing good quality and environmental friendly materials for the use of society;a.
- e. To encourage Students to visualise future of the nation and help them become sensitive and responsible citizens;
- f. To analyse how science has developed and is affected by many diverse individuals, cultures, societies and environment;
- g. To develop critical thinking about global issues to maintain healthy and sustainable societies in today's environment;
- h. To apply mathematics and information technology to visualise and solve problems pertaining to everyday life etc.;
- i. To appreciate the role of science in meeting the challenges of life such as climate change, opening new avenues in the area of agriculture, fertiliser, food processing, biotechnology, green energy, disaster management, information and

communication technology, astronomy, transport, games and sports etc.; and

- j. To create awareness about environmental issues and concerns and inspiring Students to devise innovative ideas towards their mitigation.

List of exhibitor in Science Exhibition:

1. Uttarakhand State Council for Science & Technology(UCOST), Dehradun.
2. Forest Research Institute(FRI), Dehradun.
3. Society for Pollution and Environmental Conservation Scientists (SPECS, Dehradun.
5. Centre for Technology Development (CTD), Dehradun.
6. Navdanya , Dehradun.
7. Indian Institute of Central Soil and Water Conservation Research and Training Institute (IICSWCRT), Dehradun.
8. Himalayan Action Research Center (HARC), Dehradun.
9. Dehradun Institute of Technology (DIT)

University, Dehradun.

10. Himalayan Institute for Environment, Ecology & Development (HIFED), Dehradun.
11. Industries Association of Uttarakhand(IAU), Dehradun.
12. Graphic Era University(GEU), Dehradun.
13. University of Petroleum & Energy Studies (UPES), Dehradun.
14. Instruments Research & Development Establishment(IRDE), Dehradun
15. Centre for Aromatic plants (CAP), Dehradun.
16. Wadia Institute of Himalayan Geology (WIHG), Dehradun.
17. Indian Institute of Petroleum(IIP), Dehradun.
18. Industries Department Uttarakhand(IDU), Dehradun.
19. Defence Electronics Applications Laboratory (DEAL), Dehradun.
20. Defence R&D Organization(DRDO), Govt. of India, Ministry of Defence, Dehradun.
21. M/s. Strategic Marketing, Dehradun.
22. Uttarakhand Organic Commodity Board (UOCB), Dehradun.



Fig. 29 Hon. Minister S &T
Sh. Surendra Singh Negi
inaugurating
S&T Exhibition

Fig. 30 Exhibitor showing their model to the Hon. Minister Science & Technology, Govt. of Uttarakhand



Fig. 31 Exhibitor showing their models to visitors

NASI Best Science Teacher Award

NASI BEST TEACHER AWARD:

National Academy of Sciences (NASI), Uttarakhand Chapter and Uttarakhand State Council for Science & Technology every year facilitate Best Science Teacher Award. NASI Best Teacher Awards nominations were invited through advertisement published in different newspaper by UCOST, Dehradun on dated 10 November, 2015.

A total of 16 nomination from different Schools of Uttarakhand were received. A NASI committee was set up to select the best teacher for selection of the NASI Award. After going through the Bio-data, enclosed testimonial, teaching experience and board results the committee selected Mr. Samir Dhingra, HOD-Science, Welham Boys School, Dehradun for NASI Best Teacher Award 2016 for outstanding contribution in the field of Science Popularization.

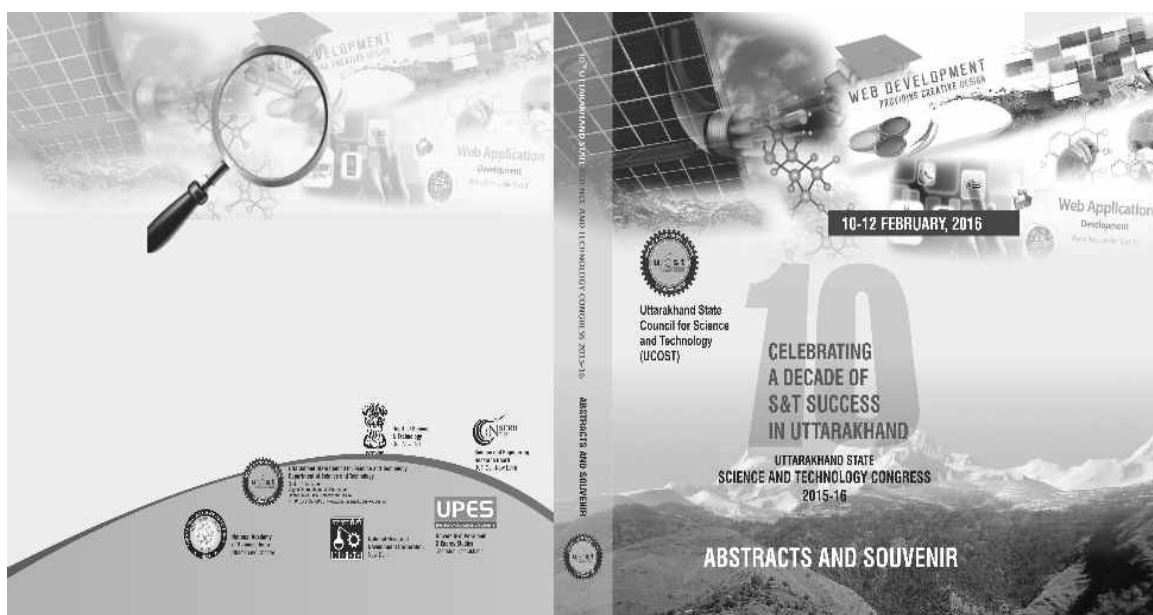


Fig. 32 Sh. Samir Dhingra receiving Best Science Teacher Award from Hon. Minister S&T Govt. of Uttarakhand, Sh. Surendra Singh Negi

Previous year NASI Best Science Teacher Awardees

S. No.	Name of Teacher	Designation	School Name	Year of Award	Subject
1	Dr. Bhuwan Chandra Pandey	Lecturer	Govt. Inter College, Khoont, Almora	2008	Botany
2	Mr. Narayan Singh Rana	Lecturer	Government Kirti Inter College, Uttarkashi	2009	Botany
3	Mr. Umesh Chandra Pandey	Lecturer	Govt. Inter College Dinapani, Almora.	2010	Mathematics
4	Mr. Alakh Narayan Dubey	Assistant Teacher	Govt. Higher Secondary School, Aagar, Tehri Garhwal	2011	Science
5	Mr. Aatma Prakash	Assistant Teacher	Govt. Inter College Chinka, Chamoli	2012	Mathematics
6	Mr. Kalayan Singh Rawat	Lecturer	Govt. Inter College, Maldevta	2014	Biology
7	Mr. Neeraj Kumar Joshi	Assistant Teacher	Govt. Inter College, Josha, Munsiyari	2015	Mathematics

Publication & Reports



For more information:
The Uttarakhand Chapter of NASI
will be available at the following address:
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will be available at the following address:
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2014-15

राष्ट्रीय विज्ञान अकादमी भारत (नासी) इलाहाबाद द्वारा विज्ञान एवं प्रौद्योगिकी जागरूकता कार्यशाला का आयोजन भारत तिब्बत सीमा पुलिस, देहरादून में।



उत्तराखण्ड राज्य विज्ञान एवं प्रौद्योगिकी परिषद व राष्ट्रीय विज्ञान अकादमी भारत (नासी), उत्तराखण्ड अध्याय के संयुक्त तत्त्वधान में भारत तिब्बत सीमा पुलिस, सीमाद्वारा के परिसर में "सेना में विज्ञान एवं प्रौद्योगिकी" की श्रृंगार विषय पर कार्यशाला का आयोजन दिनांक 4 जून, 2015 को किया गया। इसका

मुख्य उद्देश्य सैनिकों को सुदूर क्षेत्रों में सीमाओं की निगरानी करते हुए जो शारीरिक व मानसिक कठिनाई आती है उनके बारे में विस्तार से बर्ता की गयी व विषय विशेषज्ञों ने उन्हें बताया कि उन्हें किस प्रकार के व्यायाम, कपड़े, खानपान व रहन-सहन रखने चाहिए जिससे कि वे शारीरिक व मानसिक रूप से स्वास्थ्य रह सकें व साथ ही अपने कर्त्यों को सुचारु रूप से कर सकें। उत्तरोक्त कार्यक्रम

में डॉ० मंजु शर्मा, भूतपूर्व सचिव, डी०बी०टी०, डा० शशी वाला सिंह, निदेशक, रक्षा अनुसंधान एवं विज्ञान संगठन, रक्षा शरीरकिया एवं सम्बद्ध विज्ञान संस्थान, नई दिल्ली, डॉ० राजेन्द्र डोनाल, महानिदेशक, यू०ई०ए०, प्रो० रूषी श्रीवास्तव, महाराष्ट्र, नासी, डॉ० चैतन कुमार, अधिष्ठाता, सीधे, नासी, इलाहाबाद ने अपने विचार प्रस्तुत किए व साथ ही अधिकारी व सैनिकों ने अपने संकाओं का समधान भी किया।



राष्ट्रीय विज्ञान अकादमी भारत (नासी), उत्तराखण्ड अध्याय की वार्षिक बैठक



राष्ट्रीय विज्ञान अकादमी भारत (नासी), उत्तराखण्ड अध्याय की वार्षिक बैठक प्रमुख वैज्ञानिक डॉ० मंजु शर्मा, भूतपूर्व सचिव, नासी

प्रौद्योगिकी विभाग, भारत सरकार, नई दिल्ली की अध्यक्षता में परिषद के परिसर विज्ञान धाम, शाहवा में दिनांक 03 जून, 2015 आहूत की

गयी। सर्वप्रथम डॉ० राजेन्द्र डोनाल, सचिव, नासी उत्तराखण्ड अध्याय ने उत्तराखण्ड अध्याय द्वारा राज्य में किये जा रहे विज्ञान लोकप्रियकरण के कार्यक्रमों (कार्यशाला/सेमिनार/लोकप्रिय गारखान/विज्ञान प्रदर्शनी आदि) के बारे में विस्तृत प्रस्तुतिकरण दिया व बताया कि इस वर्ष कार्यक्रमों से 2000 से अधिक शोधार्थियों/वैज्ञानिकों को लाभ मिला है साथ में उनके द्वारा परिषद द्वारा शोध एवं विकास, विज्ञान लोकप्रियकरण आदि पर किये जा रहे प्रयासों का भी विवरण दिया।

डॉ० मंजु शर्मा ने नासी, उत्तराखण्ड अध्याय के गवेष के कार्यक्रमों पर उपस्थित सदस्यों से

विचार विमर्श कर कार्यक्रमों की रूपरेखा तैयार की। डॉ० शर्मा ने कहा कि इस वर्ष स्वास्थ्य चौपाल, जलवायु परिवर्तन व कृषि तकनीकी विषयों पर कार्यशाला व लोकप्रिय व्याख्यान व Science Conclave व नासी का वार्षिक अधिवेशन का आयोजन किया जाने पर सहमती बनी। इस बैठक में नासी, उत्तराखण्ड अध्याय के अध्यक्ष, डॉ० ए०एन० पुरोहित, भूतपूर्व कुलपति, गढ़वाल विश्वविद्यालय, श्रीनगर ने

विशेष बल देकर कहा कि राज्य के सुदूर क्षेत्रों में स्कूली बच्चों के लिये नासी, उत्तराखण्ड अध्याय विभिन्न प्रकार के कार्यक्रम आयोजित करेगी। प्रो० आर०डी० गौर, सलाहकार, नासी, उत्तराखण्ड अध्याय ने कहा कि राज्य में जैव विविधता पर कार्यशालाओं का आयोजन किये जाने पर बल दिया। नासी, इलाहाबाद से आये डॉ० नीरज कुमार द्वारा अकादमी के नवीनतम कार्यक्रमों की जानकारी दी

गयी। कार्यक्रम में नासी, उत्तराखण्ड अध्याय की वार्षिक रिपोर्ट 2014-15 का भी विमोचन किया गया। इस बैठक में डॉ० डी०पी० उनियाल, समन्वयक, नासी, उत्तराखण्ड अध्याय एवं डॉ० बी०पी० पुरोहित, संयुक्त निदेशक, यूकॉस्ट उपस्थित रहे।

राष्ट्रीय विज्ञान अकादमी भारत (नासी) की वार्षिक बैठक

राष्ट्रीय विज्ञान अकादमी भारत (नासी) की वार्षिक बैठक का आयोजन नेशनल इंस्टीट्यूट ऑफ प्लांट जियोनोमिक रिसर्च, नई दिल्ली में दिनांक 14 अप्रैल, 2015 को आयोजित की गयी। इसमें उत्तराखण्ड अध्याय की वैज्ञानिक उपलब्धियों को प्रस्तुत करने हेतु डॉ०डी०पी० उनियाल, समन्वयक,

नासी उत्तराखण्ड अध्याय ने प्रतिभाग किया व अध्याय द्वारा किये जा रहे विज्ञान लोकव्यापीकरण कार्यक्रमों का प्रस्तुतीकरण किया, जिसको कि नासी के पदाधिकारी ने काफी सराहा व अन्य अध्यायों से उत्तराखण्ड की तरह कार्य करने हेतु सुझाव दिये। इस बैठक में नासी के महासचिव, डॉ० ए०के०

त्यागी, डॉ० मंजू शर्मा, पूर्व सचिव, नासी, डॉ० वी०पी० शर्मा, प्रो० यू०सी० श्रीवास्तव व डॉ० नीरज कुमार ने सभी अध्यायों का मूल्यांकन किया व भविष्य में नासी इलाहाबाद द्वारा कार्यक्रम किये जाने हेतु जानकारी दी।

राष्ट्रीय विज्ञान अकादमी भारत द्वारा ग्रीष्मकालीन शिविर का आयोजन

राष्ट्रीय विज्ञान अकादमी भारत (नासी), इलाहाबाद द्वारा ग्रीष्मकालीन शिविर का आयोजन दिनांक 12-18 जून, 2015 को इंस्टीट्यूट ऑफ टेक्नोलॉजी, देहरादून (डी०आई०टी०) में किया गया। उद्घाटन सत्र में परिषद के महानिदेशक, डॉ० राजेन्द्र डोभाल ने छात्र-छात्राओं को विज्ञान एवं तकनीकी के विषय में विस्तृत जानकारी देते हुए बताया कि किस प्रकार वे विज्ञान के क्षेत्र में अपने करियर की शुरुआत कर सकते हैं व भारत में विज्ञान का क्या इतिहास रहा है व कौन से वैज्ञानिकों द्वारा उत्कृष्ट वैज्ञानिक कार्य किये गये हैं। उन्होंने प्रतिभागियों को विज्ञान के विषय में समझने हेतु प्रयोग करने के लिए प्रेरित किया। उपरोक्त समर स्कूल प्रतिभागियों को देहरादून स्थित वन अनुसंधान संस्थान, देहरादून, ऑयल एण्ड

नेचुरल गैस कारपोरेशन लिमिटेड, (ओ०एन०जी०सी०), वाडिया इंस्टीट्यूट ऑफ हिमालयन संस्थान, सर्वे ऑफ इण्डिया आदि का भ्रमण कराया गया। उपरोक्त शिविर में डॉ० डी०पी० उनियाल, वरिष्ठ वैज्ञानिक अधिकारी, व समन्वयक नासी उत्तराखण्ड अध्याय

ने "हिमालयी जैव विविधता" पर विशेष व्याख्यान दिया व उन्होंने प्रतिभागियों को जैव विविधता के संवर्द्धन व संरक्षण हेतु आवश्यकता के बारे में बताया व हिमालयी क्षेत्र में पाये जाने वाले जीव जन्तुओं के बारे में जानकारी दी।



विज्ञान परिचर्चा | वर्ष 5, अंक 4 | अप्रैल-जून 2015



Forthcoming Events

1. NASI 86th Annual Session/Symposium
2. Workshops/Seminars/ Conferences
3. Environment Summit
4. Brain Storming Sessions on S&T Issues
5. National Science Day
6. International Biodiversity Day
7. National Technology Day
8. World Environment Day
9. Popular Lectures on S& T Issues
10. Science & Technology Exhibition

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State Science & Technology Minister SS Negi presents an award at the inauguration of the 10th Uttarakhand State Science and Technology Congress (USSTC) 2015-16, being organised from 10 to 12 February at Vigyan Dham, Jhajra, in Doon. Also seen Director General, UCOST, Dr Rajendra Dobhal. (News on page 2)

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IISWC technologies exhibited at 10th USSTC



**By OUR STAFF
REPORTER**
DEHRADUN, 13 Feb:
IISWC exhibited the
technologies developed by the

Institute of Science Exhibition
during the 10th Uttarakhand
State Science and Technology
Congress (USSTC-2016)
organised by Uttarakhand

Council of Science and
Technology (UCOST) from 10
to 12 February. Dr PK Mishra,
Director, IISWC, held
discussions with dignitaries of

the congress and had a
proactive interaction with
participants and at 25
scientific stalls present.

Surendra Singh Negi,
Minister of Science and
Technology, Uttarakhand, Dr
Rajendra Dobhal, Director
General, UCOST, over 300
scientists, technocrats, scholars
and students from various
research organisations,
academia and NGOs, besides
many Directors, Heads,
Professors and VCs of research
organisations and universities
were exposed to various
technologies of the Institute.

Various soil and water
conservation technologies,
technological potential for
improving agricultural and

fisheries production and the
need for faster recognition of
effective technologies by the
stakeholders were highlighted
during the exhibition. Flyers
and brochures on various
technologies and concepts
evolved at the Institute were
distributed to the participants.
The participants of the
congress remarked on the
useful interaction held at the
IISWC Stall.

Dr Muruganandam, Sr
Scientist (Fisheries),
coordinated the exhibition of
IISWC at the Congress.
Laxmikant Sharma, Rakesh
Kumar and KR Joshi, Senior-
level Technical Officers,
actively participated in the
exhibition.

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The Tribune

DEHRADUN EDITION
THURSDAY, FEBRUARY 11, 2016 • UTTARAKHAND EDITION

Use scientific tools to make people's life better, says Negi

TRIBUNE NEWS SERVICE

DEHRADUN, FEBRUARY 10 Science and Technology Minister Suresh Singh Negi today said the top priority must be given to using science a tool for facilitating common man and making his life easier and better.

Negi inaugurated the 10th Uttarakhand State Science and Technology Congress (USSTC) 2015-16 at Vigyan Dham at Dhara in Dehradun today. He said knowledge gained on the basis of experience attained over the last thousands of years by human beings must be linked with the latest technical knowledge to make it more relevant.

Negi stressed the importance of drinking water and said a scientific technology should be invented to purify water resources to ensure safe drinking water. "Also, efforts must be made so that women in hill areas become technologically sound in agriculture," he added.

He appreciated the works and achievements of USSTC and said it could coordinate with various scientific and educational



Science and Technology Minister Suresh Singh Negi honours Prof RD Gaur for his significant contribution to plant science at the Uttarakhand Science Congress in Dehradun on Wednesday. (Tribune News)

institutions of the state as a representative of scientific agencies. He expressed happiness at the scientific temperament which USSTC has developed in the state. He said the Regional Science Centre at Vigyan Dham was a hit with students and other people.

Earlier, Director General of USSTC Dr. Rajendra Dobhal said more than 600 researchers from various universities and higher education institutions of the state were participating

in the congress this year. The participation of women in the scientific field was increasing, he added. The minister honoured three renowned scientists,

namely Prof RD Gaur for outstanding contribution to the field of plant sciences, Dr BR Arora for outstanding contribution to earth sciences and Prof SP Singh for outstanding contribution to the field of environmental sciences.

Dr. Purnima Singh Anja, Director of the Institute of Himalayan Bio-resource Technology, Palampur, Himachal Pradesh, highlighted the evolution of life on earth and how innovation in science and technology played a crucial role in its development. He said the country could come up with the best of mathematicians, biologists, chemists and engineers if all decide to work together.

Dr MO Garg, Director of the Indian Institute of Petroleum (IIP), Dehradun, cited various examples to motivate researchers of Uttarakhand to focus on how research could serve the mankind. The Uttarakhand Science Congress this year is being organised in collaboration with the University of Petroleum and Energy Studies (UPES), Dehradun and the NASI, Dehradun Chapter.

The Tribune

DEHRADUN EDITION
SATURDAY, FEBRUARY 13, 2016 • UTTARAKHAND EDITION

Develop libraries for better research: Negi

State science congress concludes, budding scientists honoured

TRIBUNE NEWS SERVICE

DEHRADUN, FEBRUARY 10 Director General, Science, Dr SS Negi today stressed the need for developing libraries for better research facilities for the country.

Negi, while addressing the valedictory session of the 10th Uttarakhand State Science Congress at Vigyan Dham, Dhara, Dehradun, said for better research and development activities, one had to first develop libraries for children.

The availability of research documents must be ensured at libraries. He asked the newly set up Regional Science Centre at Vigyan Dham and associated for assistance in research and development activities.

Dr Anil Kumar Gupta, Director of Wadia Institute of Himalayan Geology, said research and development activities should be encouraged in higher edu-



Dr SS Negi today stressed the need for developing libraries for better research facilities for the country. He asked the newly set up Regional Science Centre at Vigyan Dham and associated for assistance in research and development activities.

Dr Anil Kumar Gupta, Director of Wadia Institute of Himalayan Geology, said research and development activities should be encouraged in higher edu-

cation for the development of a programme. Science, Culture, Ministry's financial assistance to the USSTC. Scientist Dr. CM Nautilyal spoke about the importance of Science Communication.

gation of science. He said 400 papers presented during 15 technical sessions, were evaluated by subject experts from outside the state.

"Among them, 50 budding scientists, including 33 women, were given the Young Scientist Award," he said.

GB Pant University of Agriculture and Technology, Pantnagar, followed by six by HNB Garhwal University, Sitabganj, and four by Kumaon University, Nainital.

Dr. Anil Kumar Gupta, Director of Wadia Institute of Himalayan Geology, said research and development activities should be encouraged in higher edu-

cation for the development of a programme. Science, Culture, Ministry's financial assistance to the USSTC. Scientist Dr. CM Nautilyal spoke about the importance of Science Communication.

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10th USSTC concludes at Vigyan Dham

Develop libraries for children to promote research: Dr SS Negi

By OUR STAFF REPORTER DEHRADUN, 12 Feb: The 10th USSTC concluded at Vigyan Dham, Jhithra, today.

The Chief Guest at the valedictory function was Dr SS Negi, Director General, Union Ministry of Forest, Environment & Climate Change, said that to develop R&D activities, one had to develop libraries first for the children and also to create relevant books and journals, and provide easy accessibility to them. He advocated the full exploitation of the newly created innovation hub in the premises of the regional science centre by the young scientists, in particular, and the masses, in general.

The presidential address was delivered by Indu Kumar Pandey, Financial Advisor to CM Harish Rawat. He advised that traditional knowledge in modern times ought to be propagated. Internationalisation of Yoga was a fruition of such a process.

Dr RC Sobti, Vice Chancellor, Baba Bhimrao Ambedkar University, Lucknow, gave a detailed lecture regarding



Research on Stem cells and their utility in curing various diseases. He explained how the human organs could be developed through the process of organogenesis. He prophesied that, in the near future, diseases would be cured through stem cells only.

Prof HS Dhama, VC, Kumaon University, said that to be in the

league of best universities, one had to enrich qualitatively. He wanted such conferences and workshops to be periodically organised.

VC, UTU, Prof PK Garg advised young researchers to contribute prolifically in R&D activities. Focus on skill development made youth more employable.

Director, Wadia Institute of Himalayan Geology, Dr Anil Kumar Gupta said one had to increase R&D activities in the higher education sector for a developed economy.

Dr Rajendra Dobhal, Director General, USSTC summed up the three day USSTC and presented a brief report. He presented the recommendations given by the

experts in the four brainstorming sessions. A total of 490 papers were presented during 17 technical sessions, which were evaluated by subject experts from outside the state of Uttarakhand. Among them 50 young scientists were awarded the Young Scientist Award, of which 28 were male and 22 females.

The selected awardees were then felicitated by the dignitaries with awards and certificates. GB Pant University of Agriculture and Technology grabbed the maximum awards - 14, followed by HNB Garhwal University, 6, and Kumaon University, 4.

Prof SP Singh, ex-VC, HNB Garhwal University, was felicitated with the Eminent Science & Technology Excellence Award by USSTC. BSIP, Lucknow, Scientist Dr. CM Nautilyal spoke about the importance of Science Communication.

The Innovator of the Year Award 2016 was won by Sonjit Mandal, Graphic Era University for his water flow stopper.

UPES Chancellor Prof SJ Chopra proposed the Vote of Thanks.

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