

Training Programme
on
"Climate Change and Forests"
For Scientists of ICFRE
31 January - 04 February 2011
Organized by:
Biodiversity and Climate Change Division
Indian Council of Forestry Research and Education, Dehradun
Venue: Scientist Hostel, FRI, Dehradun



EDUCATION VISTAS



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Introduction

The National Commission on the Agriculture in its report in 1976 recommended for creation of forestry education facilities in the universities for conducting graduate and post graduate level programmes. Initially, the universities imparting forestry education were supported by the grants released by ICAR. However, after grant of autonomy to the ICFRE, pursuant to its mission objective the Directorate of Education, ICFRE has been mandated to galvanize forestry education in the country through State and Central Universities in order to develop technical capabilities and strengthen infrastructure for forestry faculties in the universities imparting forestry education at the graduate and postgraduate levels. The Directorate of Education being an important part of the ICFRE also nurtures Forest Research Institute (D) University into an institute of excellence in higher learning in forestry. It provides financial support in the form of Grant-in-aid to improve gap-filling infrastructure to different universities. Other activities of Directorate of Education, ICFRE are to enhance quality of forestry education by continuously striving for improvements in curriculum, to provide a frame work of quality assurance through a well laid system of accreditation in forestry, to integrate the institutions of forestry education with research in ICFRE system to foster mutual symbiosis and outreach, to network with the international institutions of repute on faculty and students exchange, to enhance employability of the forestry professionals for main streaming of forestry across sectors, to attract talent into forestry as a profession, to provide avenues for capacity building to the scientific and technical cadre of the council and of the sector in general and to provide policy research support to the ministry.

Processes in Forestry Education

For achievement of the mandate, the Directorate has a processes of creating infrastructure for universities for giving impetus to Forestry Education, matching international standards for forestry education and providing access to international level teaching and learning resources, including books and journals through e-consortium and information system. In addition to these, other processes include :

- Providing well laid IT enabled environment for academic excellence.
- A well laid system of accreditation is in place. Efforts are made to bring all the universities imparting forestry education under the aegis of accreditation.
- Development of a very clear road-map for each university for the purpose of future growth in terms of Institutional management, financial resource allocation and utilization, physical infrastructure, faculty and staff, students affairs profile, course delivery, co-curricular and related activities, research and development.
- Periodical curriculum revision and upgradation, in tune with the requirements of the sector, with wider stakeholder participation, bearing stamp of both the councils (ICAR & ICFRE) for wider acceptability.
- Provide support for gap-filling infrastructure for funding capital investment for forestry education and also attract matching investment from the states as per prescribed guidelines.
- Enhancing employability of the Forestry professionals and facilitating appropriate placements by tie ups.



- Development of a range of programmes on Capacity Building catering to the requirements of the sector.
- Fostering international cooperation in the field of forestry education through networking, faculty and students exchange to bring international wisdom.
- Policy Research Support to the MoEF by hosting the policy research committee at ICFRE and also institution of Policy Research Studies to provide inputs to the Ministry.
- Design Development and Execution of Mid Career Training of Indian Forest Service phase-III as Lead Training Organization.

Forestry Education

- The Directorate of Education is providing Grant-in-aid to the Universities for promoting Forestry Education in the Country. Towards this end, ICFRE released Grant-in-aid to the tune of Rs. 204.088 lakhs to 10 Universities in the financial year 2010-11. Also obtained Utilization certificates from 10 universities and Revalidations were issued for 14 universities for the balances available with them for utilization in the current financial year.
- Encouraged Universities to get accreditation with ICFRE, as a new initiative of quality control in forestry education for the first time through Accreditation Board of ICFRE. The accreditation process completed for 9 Universities and certificates issued. The proposals for accreditation of 9 more Universities have been received.

HRD Initiatives

- As part of the HRD initiatives for capacity building of scientific personnel, 11 training programme (including 1 training of MCT Phase-III) were organized in a number of training organizations of repute, in which

207 participants (including 60 participants of MCT) were trained in 8 Institutions.

- In order to provide wide national exposure to the scientists, a total of 71 permissions were accorded at Council level for participation of scientists in national level seminars, workshops and symposia etc.
- Facilitated 44 cases of foreign visits, which were finally approved by the Government of India with funding from a number of sources providing a much needed international exposure to the scientific cadre.

Mid Career Training of IFS

- ICFRE has been entrusted with Mid Career Training Project for IFS officers for phase III, by providing best institutional arrangement and partnership with Institutions like WII, Dehradun, FSI Dehradun, IIM-Ahmedabad, Colorado State University (US) and Swedish University of Agricultural Sciences (SLU) Sweden.
- ICFRE has the distinction of organizing second such programme as Lead training provider from 31st January 2011 to 4th March 2011.

Policy Research

- Organized two Evaluation Committee meetings at ICFRE on 29th September 2011, 25th November 2011 and 4th Policy Research Committee meetings at Van Vigyan Bhawan, New Delhi on 30th March 2011 respectively.
- ICFRE hosted the National Forest Rights committee, jointly constituted by MoEF & MoTA. After detailed deliberations, consultations, meetings across 17 States, the committee submitted its report "MANTHAN" to the Hon'ble Minister of Environment & Forests, Govt. of India in January 2011 (details of meetings enclosed).

**H.R.D.**

As part of the HRD Initiatives, the ICFRE Organized Following Specialized Training Programme for Scientists and Forest Officers from 1.4.2010 to 31.03.2011 as follows ;

S. No	Training	Dates	Institution	No of participants
1	Training on maintaining roaster for SC/ST/OBC	30 and 31 August 2010	SC/ST Commission Lkw at ICFRE, D.Dun	21
2	Climate Change & Carbon Mitigation (CCCM)	06 to 10 September 2010	BCC Divn ICFRE D.Dun	5
3	Training of staff RAI, RAII & TAI on Laboratory Management	13 to 17 September 2010	FRI, D.Dun.	25
4	Climate Change & Carbon Mitigation (CCCM) for Women Scientists & Technologists	06 to 10 September 2010	BCC Divn ICFRE D.Dun	7
5	Training of staff RAI, RAII & TAI on Laboratory Management	06 to 10 December 2010	TFRI, Jabalpur	25
6	Training on 'Wood Property Characterization'	03 to 07 January 2011	IWST, Bangalore	5
7	Training on 'Nanotechnology'	18 to 20 January 2011	IWST, Bangalore	7
8	Training on 'Climate Change & Forests'	31 January 2011 to 04 February 2011	BCC Divn, ICFRE D.Dun	20
9	Training on 'Remote Sensing & GIS Application'	31 January 2011 to 11 February 2011	Indian Institute of Remote Sensing, D.Dun	7
10	Induction Training for Scientists & Research Officers of ICFRE	21 March 2011 to 27 March 2011	FRI (Deemed) University, D.Dun.	
11	Mid Carrier Training for IFS Officers	31 January 2011 to 04 February 2011	Dte of Edu, ICFRE at IGNFA, D.Dun	60
			Total	207

Grant-in-Aid

ICFRE has been giving Grant-in-aid to various forestry research universities/ institutions under Agricultural Universities offering Undergraduate and Postgraduate Courses to strengthen the infrastructure for giving impetus to Forestry Education in the country. During the period April 2010 to March, 2011 Rs. 204.088 lakh have been released to 10 Universities as Grant-in-aid. Unutilized grant revalidated to

14 universities and permission for diversion of grant from one head of account to another has been issued to 04 Universities.

ICFRE Accreditation Board

The Directorate of Education has also undertaken the work of evaluation of the Forestry Courses being run in the Universities under the programme "Accreditation of course programme" by constituting as follows:



S.No	Name of College/University	Team	Date of visit
1.	CCS Haryana Agricultural University, Hisar (Haryana)	1. Sh. Omkar Singh, DDG(Edu) ICFRE & Chairman 2. Dr. T.C. Pokhriyal, Former Scientist-F, FRI, D.Dun	08 – 11 February 2011
2.	Orissa University of Agriculture & Technology, Bhubneshwar (Orissa)	1. Sh. Omkar Singh, DDG(Edu) ICFRE & Chairman 2. Dr. J.K. Rawat, IFS (Retd.), Former Director, FRI, D.Dun	19 to 21 May 2010
3.	Kumaun University, Nainital (Uttarakhand)	1. Sh. R.K. Dogra, ADG(Edu) ICFRE & Member Secretary 2. Dr. A.N. Shukla, Former HoD, Path. Divn., FRI, D.Dun	23-24 April 2010
4.	Central Agricultural University, College of Horticulture & Forestry, Pasighat (Arunachal Pradesh)	1. Sh. R.K. Dogra, ADG(Edu) ICFRE & Member Secretary 2. Sh. R.P.S. Katwal, Former D.G., ICFRE, D.Dun	27 October 2010 to onwards
5.	Punjab Agricultural University, Ludhiana (Punjab)	1. Sh. Omkar Singh, DDG(Edu) ICFRE & Chairman 2. Dr. J.D.S. Negi, Former Scientist-F, FRI, D.Dun	21 to 24 September 2010
6.	College of Forestry, Dr. BSS Konkan Krishi Vidyapeeth, Dapoli (MS)	1. Sh. R.K. Dogra, ADG(Edu) ICFRE & Member Secretary 2. Sh. R.P.S. Katwal, Former D.G., ICFRE, D.Dun	24 to 26 August 2010
7.	College of Horticulture & Forestry, Navsari Agricultural University, Navsari (Gujrat)	1. Sh. Omkar Singh, DDG(Edu) ICFRE & Chairman 2. Dr. S.D. Bhardwaj, Former Dean, Dr. YSP U.H.F., Solan (HP)	09 November 2010 to onwards

Policy Research Study

- First presentation on the outcome of preliminary study, desk review and response of the field study of Policy Research Study entitled “Synergy in Various Institutions in Implementation of the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006 to Ensure Improved

Livelihood Support as also Sustainable Forest Management” by the consultant of Environ Legal Defence Firm Noida, before the Evaluation Committee of ICFRE under the Chairmanship of DDG(Edu) was organized on 29th September 2010 in the Committee Room of ICFRE.



- Second presentation on the outcome of preliminary study, desk review and response of the field study of Policy Research Study entitled “Synergy in Various Institutions in Implementation of the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006 to Ensure Improved Livelihood Support as also Sustainable Forest Management” by the consultant of Environ Legal Defence Firm, Noida, before the Evaluation Committee of ICFRE under the Chairmanship of DDG(Edu) was organized on 25th November 2010 in the Committee Room of ICFRE.
- Fourth Policy Research Committee meeting on 30th March 2011 at Van Vigyan Bhawan, New Delhi, under the Chairmanship of the Additional Director General (FC), MoEF, New Delhi was organized.
- The 1st meeting of National FRA Committee was organized on 3rd May 2010 in the Conference Room No. 403, Paryavaran Bhawan, New Delhi under the chairmanship of Dr. N.C. Saxena, Retd. Secretary, Planning Commission.
- Second National FRA Committee Meeting (joint Committee of Ministry of Environment & Forest and Ministry of Tribal Affairs) was organized on 7th June 2010 at Van Vigyan Bhawan, New Delhi.
- Third National FRA Committee meeting (joint Committee of Ministry of Environment & Forest and Ministry of Tribal Affairs) was organized on 9th August 2010 at Van Vigyan Bhawan, New Delhi.
- Fourth National FRA Committee meeting (joint Committee of Ministry of environment & Forest and Ministry of Tribal Affairs) was organized on 14th September 2010 at Van Vigyan Bhawan, New Delhi.
- Fifth National FRA Committee meeting (joint Committee of Ministry of Environment & Forest and Ministry of Tribal Affairs) was organized on 13th October 2010 at Van Vigyan Bhawan, New Delhi.
- Sixth National FRA Committee Meeting (joint Committee of Ministry of Environment & Forest and Ministry of Tribal Affairs) was organized on 16th November 2010 at Van Vigyan Bhawan, New Delhi.
- Meeting of sub-group for drafting the report of National FRA Committee (joint Committee of Ministry of Environment & Forest and Ministry of Tribal Affairs) was organized on 3rd December 2010 at Van Vigyan Bhawan, New Delhi.
- Meeting for report discussion and final report preparation of National FRA Committee (joint Committee of Ministry of Environment & Forest and Ministry of Tribal Affairs) was organized from 12th to 15th December 2010.

3.1 FRI (Deemed) University

Forest Research Institute, Dehradun was conferred the status of University by the Ministry of Human Resource Development, Government of India, New Delhi vide **Notification No. F.9.25/89 U-3 dated 06-12-1991**. After the conferment of Deemed University status, academic activities of the Institute have increased tremendously and it has been fostering research and education in forestry, environment and other allied disciplines in a more meaningful and productive way. The University has been fostering pioneering research in specialized areas under Ph. D. Programme.

Academic Courses and Admission

The FRI (Deemed) University has been offering the following academic courses on a regular basis:- Two years M.Sc. courses in Forestry, Environment Management and Wood Science & Technology and one year courses in Post Masters Diploma in Natural Resource



Management, and Post Graduate diploma in Aroma Technology.

Admissions to M.Sc. Courses are made on the basis of all India Competitive Entrance Test During the year 2010-2011, 165 students were admitted in all the above six courses for the academic session 2010-2012. The course wise strength is as follows:

1. M.Sc. Wood Science & Technology	- 35
2. M.Sc. Environment Management	- 35
3. M.Sc. Forestry	- 35
4. PMD in Natural Resource Management	- 20
5. PGD in Pulp & Paper Technology	- 20
6. PMD in Aroma Technology	- 20

Course Plan: Course plan of all the courses were prepared accordingly to syllabus. Internal and External faculties were invited for taking classes. Theory and practical classes were arranged from July to December 2010 for the students of 1st and 3rd Semester and from January to May 2011 for the students of 2nd and 4th Semesters.

Special Lectures: Special lectures arranged on the following specific topic for all courses.

- “WST challenges and opportunities” delivered by Dr. S. C. Joshi, IFS, Director, IWST, Bangalore for the students of WST courses on 12th May 2010.
- “Management of Forests in USA” delivered by Prof. Rene Germaine on 7th June 2010. It was attended by the Research Officers and Scientists of FRI along with the students of FRI (Deemed) University.
- “Clean Development Management” lecture delivered by Mr. Vijay Anand on 19th August 2010.
- “Personality Development” lecture delivered by Dr. K. L. Aryan, Director Institute of Communication & Management, for the students of M.Sc. Forestry and M.Sc. Environment Management.

- “Definition of Forests” lecture delivered by Dr. K.S. Sethi, DIG, Forest Policy, MoEF, New Delhi to the all students of FRI University on 22nd October 2010.
- “Tiger Conservation Programme in India” delivered by Dr. Gardon M. Hickey on 13th October 2010.
- Special talk delivered by Dr. S. Chandola, IFS, PCCF and Chief Wildlife Warden, Govt. of Uttarakhand on 4th October 2010 on the eve of Wildlife Week 2010.
- “Personality Development” delivered by Dr. K. L. Aryan, Director, ICM to all the M.Sc. students in January and February 2011.
- “Conservation Oriented Research in the field of Human Wild Life Conflict, Herpetology, ornithology and lepidopteron entomology” delivered by Mr. Sanjay Sondhi, Teetle Trust Organization, Dehradun to all the students of on 12th February 2011.
- “First Aid and Industrial Disasters” delivered by Dr. Atul Aalok, CMO, New Forest Hospital, FRI, Dehradun to the students of M.Sc. WST from 01st to 4th March 2011
- “Orchid Conservation in India” delivered by Dr. K. S. Shashidhar, IFS, Chief Wildlife Warden Nagaland, to the students of M.Sc. Forestry on 1st March 2011.
- “Vocational Studies” delivered by Dr. Ernest Kruistan, Incharge Officer of Vocational Studies in Germany on 11th March 2011
- “Near Infrared Spectroscopy” delivered by Dr. Laurence R. Schimleck, Associate professor, University of Georgia on 8th March 2011.

Study Tours/Excursions

One day study tour /excursion were arranged to the following places during the period 1st April 2010 to 31st March 2011 for the University students.



1. Wadia Institute of Himalayan Geology on 18th and 19th August 2010.
2. Watershed Works at Sahastradhara on 26th July 2010.
3. Jodhpur, Ahmedabad, Mysore and Bangalore from 22nd August to 10th September 2010.
4. Valley of Flowers from 6th to 9th September 2010 and 29th August to 3rd September.
5. Paper & Plywood Industries in Yamuna nagar on 20th August 2010.
6. Delhi from 29th and 30th September 2010.
7. Song Valley (Raipur – Kumalda) on 9th October 2010.
8. Dhanolti on 14th October 2010.
9. Sahanshahi Ashram, Dehradun on 14th October 2010.
10. Rajaji National Park, Dehradun on 17th November 2010.
11. Northern Uttar Pradesh in third week of November 2010.
12. Tehri Dam in November 2010.
13. Yumuna Nagar and Saharanpur from 11th to 13th February 2011.
14. Rajaji National Park, Dehradun on 11th February 2011.
15. Faridabad, Jaipur and Jodhpur from 12th to 19th March 2011.
16. Rishikesh on 4th March 2011.
17. Baddi, Himachal Pradesh from 9th to 12th March 2011.

Foreign Visits

Ms. Anisha Biswarya student of M.Sc. EM, 4th Semester (2009-11) visited Canada for dissertation work from February to May 2011.

Term Papers

1. M.Sc. students completed their term papers and submitted them in June 2010.
2. Post Master Diploma course students completed term papers in December 2010 and submitted the same.

Sports Meet

Sports meet was organized by University from 17th to 27th March.

- Indoor games conducted from 19th to 22nd March 2011 and outdoor games from 23rd to 27th March 2011.
- Cricket Matches organized from 17th to 21st March 2011 on the University cricket Ground.
- Closing Ceremony of Sports meet was organized on 27th March 2011.

Seminars

- M. Sc. Environment Management students participated in National Seminar on the topic “Landscape restoration process – challenges and opportunities” at FRI, Dehradun on 22nd and 23rd February 2011.
- M. Sc. WST students participated in National Seminar on the topic “Advances in Wood Science & Technology Research: Recent Trends, Future Challenges and opportunities” at FRI, Dehradun on 09th and 10th March 2011.

Industrial Attachment/Institutional Attachment/ Mill Visit

- Industrial attachment for M.Sc. WST 3rd Semester arranged in December 2010.
- Institutional attachment for M.Sc. Forestry & M.Sc. Environment Management 3rd Semester arranged in December 2010.
- Paper Mill visit arranged for PGD in Pulp & Paper Technology in December 2010.
- Industrial training and project work for Post Masters Diploma in Aroma Technology course, 2nd Semester arranged from January to June 2011.

Dissertations/Project Works

- Dissertation and Project work carried out by the final semester students of all M.Sc., PMD and PGD courses from 1st March to 31st May 2010.



- Project work Seminars of all courses conducted in the month of June 2010.

Induction Training

Forest Research Institute (Deemed) University Organized 10 weeks Induction Training of Scientists and Research Officers of ICFRE from 21st March to 27th May 2011: During the training, lectures delivered on many important topics related to Forestry, Genetics, Remote Sensing, Forest Policy & Law, Forest Survey, Wildlife, Biodiversity and Soil Science. Subject experts were invited for special lectures from different institutions like Forest Survey of India, Wildlife Institute of India, Indian Institute of Remote Sensing, Indira Gandhi National Forest Academy, CASFOS and Central Soil and Water Conservation Training and Research Institute.

Tours

- Trainees of Induction Training visited different division of FRI i.e. Non Wood Forest Product Division, Genetics and Tree Propagation Division, Botany Division, Forest Entomology Division, Forest Soil & Land Reclamation Division, RSM Division, Silviculture Division, Chemistry Division, Forest Pathology Division, Forest Ecology & Environment Division, Botany Division, Bio-Informatics Centre & GIS Cell and Cellulose & Paper Division etc.
- Long educational tour was conducted to South India for visits to IFGTB, Coimbatore, IWST, IPIRITI and IISc., Bangalore.
- Trainees of Induction Training visited Field Research Station (ICAR). With Dr. Madhu Agronomist ICAR and Shri. M.C. Pandey (Retd. CCF) Uttar Pradesh.

Other Activities

Introductory meeting was called by Dean (Academic) along with the course coordinators for the newly admitted students of FRI University in July 2010 and for students of PGD in Aroma Technology and Pulp & Paper Technology on 23rd August 2010 to welcome them and also make them aware regarding university & hostel rules and regulations.

Extra Curricular Activities

- FRI (Deemed) University celebrated Wildlife week from 2nd to 8th October 2010.
- Students of “Wildlife Club” of University attended a Voluntary Camp at Sahastradhara, Dehradun for treatment of injured animals.
- FRI (Deemed) University celebrated the “World Forestry Day” on 21st March 2011 and organized Quiz and poster presentation for the students.

Compulsory Course for Ph.D and Research Scholars:

Compulsory course for Ph.D. and Research Scholars in Forestry, Statistics and Computer Application was conducted from 15th September to 31st December 2010.

Placements

- Placement brochure prepared for all M.Sc. and Diploma courses.
- Placement brochure with student's profile was sent to different Organizations/ Industries/ Companies/ NGO's and contact them through phone/ fax/e-mail to conduct Campus Interview was maintained.
- Campus Interview was conducted with different Organizations/ Industries/ Companies/ NGO's and placement of students for academic year 2010-2011 carried out.



Placements 2011

S. No.	Institution	Selected Students	Course
1.	M/s Sudima International, Singapore	A. Raghupthi Amey Kale Amol Rangrari Mukesh Rawat	M.Sc. WST
2.	M/s CHEP International, Bombay	Vinoth V.	M.Sc. WST
3.	M/s Century Plywood, Kolkata	Arnab Chatopadhyaya Arun Kumar Vidya Sagar Surbhi Shravan	M.Sc. WST
4.	M/s Sharda Plywood, Kolkata	Kazhi Shahabuddin Prem Kumar * one name awaited	M.Sc. WST
5.	M/s C.L. Gupta, Moradabad	Bijendra Narayan Tyagi	M.Sc. WST
6.	M/s Aggarwala Timbers, Gandhi Dham	Nitesh Nandana Kumar	M.Sc. WST
7.	M/s Paharpur Ltd, Kolkata	Result awaited	
8.	ACF, Sikkim	Arti Basneth	M.Sc. Forestry
9.	M/s ABC Paper Mills Ltd., (Hoshiyarpur)	Result awaited	M.Sc. WST
10.	Dy. Commandant CRPF	Anisha Siddhik	M.Sc. Forestry



Field Visit of Officers and Scientists under Induction Training, Hoshiyarpur



Visit of Officers and Scientists under Induction Training at Modern Nursery Unit



Field Visit of Officers and Scientists Arranged by FRI University for Demonstration at Shimla



Visits of FRI Students to Valley of Flowers

3.2 Trainings Organized

FRI, Dehradun

- The second Distance Learning Programme on Remote Sensing, Geographical Information System and Global Positioning System was conducted from 4th October to 9th December 2010 for the students of FRI University. Twenty seven students participated in this programme which consisted of 4 modules, viz., Remote Sensing & Digital Image Processing, Global Positioning System, Geographical Information System and RS & GIS Application.
- Remote Sensing & GIS training for the scientists and officers of the Institute.
- Computer application for the employees of the Institute.
- Training on Afforestation Techniques for Ecotask Force personnel of Territorial Army from 20th to 23rd April 2010.
- Training on Tree Seed Technology from 17th to 21st May 2010.
- Training on Seed and Nursery Technology for IGWDP-NABARD officials from Rajasthan from 6th to 10th September 2010.
- Training on Nursery and Plantation Technology for SSB personnel from 27th September to 1st October 2010.
- Training on Afforestation techniques for Ecotask Force personnel of Territorial Army from 26th to 29th October 2010.
- Organized training on “Forest Fire Management.” Sponsored by National Institute of Disaster Management, New Delhi for Officers from different States on 6th to 10th December 2010.
- One-day interactive meeting for developing a network on Shisham mortality was organized on September 21, 2011, which was attended by scientists from HAU, Hissar; Dr. Y S Parmar University of For. & Hort., Nauni, Solan; G. B. Pant Univ. of Agr. & Tech., Pantnagar; ICFRE Institutes (Jodhpur, Jorhat, Jabalpur, Ranchi and Allahabad); Forest Officers from Haryana, Punjab, Uttarakhand and Uttar Pradesh forest departments and Scientists of concerned Divisions of FRI.
- One-day training programme on cultivation of *Ganoderma lucidum* was conducted on 11th March 2011 for local mushroom growers and farmers (21 No.)
- Five days training from 3rd to 7th May 2010 on “Bamboo Resources and Propagation” was organized to the forest officers of Haryana Forest Department.



- Five days training from 10th to 14th May 2010 on “Bamboo Resources and Propagation” was organized for Punjab Forest Department at Forest Research Institute.
- Short term training was organized on ` Low cost clonal propagation technologies for NDMC, New Delhi.
- A short term training programme on “Management of Herbarium and Arboreta” between 10th to 14th May 2010.
- A short term training programme on “Development of Green Belt” between 16 to 20 August 2010.
- A DST funded training programme on “Capacity Building in Plant taxonomy” between 27th September to 8th October 2010.
- Tissue Culture of Important Forest Trees, Bamboos and Medicinal plants” was organized between December 13 to 17, 2010.
- Organized 5 days training programme on handmade paper from *Lantana camara* from 7th to 11th June 2010 sponsored by Department of Science and Technology (DST), New Delhi.
- Training organized by NWFP Division on “Value addition, cultivation and Marketing of Medicinal plants” during 7th to 11th December 2010.
- The NWFP Division organized Training for Farmers on cultivation, value addition and utilization of *Thymus serpyllum*. 22nd March 2011.
- A five days Training-cum-Workshop on “Essential oil, Perfumery and Aromatherapy” jointly organized by Chemistry Division, FRI in collaboration with FFDC, Kannauj on 31st May 4th June 2010 at FRI, Dehradun.
- Hands-on Training to Prepare Handmade Paper and its conversion to various products for NGO's.
- Display of Technology of Natural Dyes and Compost to Honuorable Union Minister of Environment and Forest Govt. of India during All India Meet of National Biodiversity Authority MoEF, GOI and States Biodiversity Boards on 6th September 2010 at Chandigarh.
- Demonstration of Natural Dye and Herbal Gulal Technology to ETV which was broadcasted on 22nd September 2010.
- Training-cum-Workshop on “Applications and Benefits of SAMRIDDHI- A Silk Productivity Enhancer” at Bhudwala and Bhud villages of Vikas Nagar for Silkworm farmers on 27th March 2011.
- A five days short term training course on “Wood Seasoning” was organized by the Division during 25th to 29th October 2010 in which 12 participants from Naval Dockyard, Mumbai and Naval Ship Repairing Centre, Kochi participated. Apart from seasoning other related topics like Wood Preservation, mechanics, finishing and composites were also introduced to the trainees by the faculty of the Forest Products Division.
- A five days Short term training course on “Classification and grading of timbers” was organized by Timber Mechanics Discipline, Forest Products Division, FRI from 6th to 10th December 2010. In this training, 23 personnal from Naval Dockyard, Mumbai, Naval Ship Repair Yard, Naval Base, Kochi, Himachal Pradesh State Forest Corporation Ltd.,



Training on Cultivation of *Thymus serpyllum*



Shimla, Garden Reach Shipbuilders & Engineers Ltd., Kolkata participated.

- Training on “Ecorestoration of Wastelands”
- Training on “Bioremediation and Environment Amelioration”
- Organized technical meeting cum workshop on “Remediation of the waterlogged site through Biodrainage” with farmers at selected water logged site (Dated 16th March 2011).

IFGTB, Coimbatore

- A training on “PCR Based Gene Isolation Techniques” on 29th and 30th July 2010.
- A five days “Training Workshop on Conservation and Management of Forest Genetic Resources” from 5th to 9th July. The Training Workshop was cosponsored by the ICFRE, Forest Research Institute, Malaysia (FRIM), APAFRI, Bioversity International and International Timber Trade Organization (ITTO). 21 researchers/officers from 7 countries participated in the Workshop. The details of participation is as follows, India – 6, Cambodia - 3, Indonesia – 3, Malaysia – 3, Myanmar – 2, Philippines -1, Thailand -3.
- Two training workshops to the officials of forest department, wood-based industries and farmers on production of genetically improved seeds and seedlings at IFGTB on 12th and 13th August 2010 under the AusAID-funded project. Mr.K. Pinyopusarek from CSIRO, Australia functioned as a Resource Person for the two training programmes.
- A training programme on “Clonal Forestry” to the officials of Tamil Nadu Forest department on 21st December 2010. About 37 officials attended the training.
- A training programme on “Importance of Biodiversity, its Conservation and Sustainable Utilization” for students and teachers of Govt. Schools and Govt. aided Schools in Tamil Nadu was conducted on the following

dates, by utilizing the amount made available by the Directorate of Environment, Chennai.

- 4th and 5th August 2010 - 36 Participants
- 11th and 12th August 2010 - 40 Participants
- 18th and 19th August 2010 - 33 Participants
- 25th and 26th August 2010 - 29 Participants
- An Environmental Awareness Programme was conducted to the Students of Panchayat Union Elementary School, Kandiyoor on 30th March 2011.
- A two days training works shops on “Management of Forest Resources for Indian Forest Service Officers sponsored by the Ministry of Environment and Forest was conducted on 18th and 19th October 2010.
- An “Introductory ArcGIS Training Program from 11th and 12th January 2011 for scientists of IFGTB, Coimbatore.
- One day orientation programme for the faculty and students of the Dept. of Zoology, Govt. Arts College, Coimbatore, on 6th August 2010.



Training Programme on “Instrumentation Methods and Chemical Analysis”



- Two days Intensive Hands on Training Program on “Instrumentation methods and chemical analysis” on 27th and 28th September 2010 at IFGTB. About twenty participants including students, and research scholars from different colleges and universities had participated and benefited.
- As part of the training, Dr. Annadurai, CEO, Prescient Biosciences, Bangalore, delivered special lecture on “Emerging Opportunities in Biosciences” to the training participants, JRFs, Officers and scientist of IFGTB on 28th September 2010.
- A two weeks Training on “Ectomycorrhizal Fungi – Isolation, Identification, Pure culture and Mass production and Application methods in tissue culture, nursery and field” was organized to a Women Young Scientist, FRI, Dehradun at IFGTB, Coimbatore on 14th to 26th March 2011.

IWST, Bangalore

- Short term training on “Instrumentation Techniques for Phytochemical Analysis” from 14th to 16th December 2010 at the Institute. Seven participants attended the training from different colleges affiliated to Bangalore University and Kuvempu University.
- A specialized training on “Wood Property Characterization” for Five ICFRE Scientists from 3rd to 7th January 2011.
- A specialized training on “Wood Finishing” was conducted during 27th and 28th January 2011. Participants from High Build Coating Private limited (7 no.) attended the training programme.
- Short term training on “Sandal Seed and Nursery Technologies” at the Institute from 21st to 25th February 2011. Thirty participants participated.
- Conducted Course Coordinator for the compulsory training of Ph.D. scholars working under FRI University at IWST Bangalore
- Training to farmers and tree growers from different regions of the country on Chemistry and utilization of sandal was imparted on 22nd November 2010 and 21st February 2011.
- Dr. R. Sundararaj delivered lectures on “Management of Pests in Sandal nursery” to the trainees of “Modern Seed and Nursery Technologies” on 22nd February 2011
- Compulsory training course on “Computer Applications” for Research Scholars of FRI University in 15th September to 24th December 2010.
- One day training programmes on “IFRIS (Research Information System Module) Implementation” for Scientist on 22nd April 2010 and 13th July 2010 at IWST, New Computer Lab Bangalore.
- One day training programme on “IFRIS (Research Information System Module) new Project updating” for Scientist on 8th December 2010 and February 2011 at IWST, New Computer Lab Bangalore.
- Six months compulsory training programme for research scholars of FRI Deemed Univeristy.
- Two training programmes on 'Impact of Bauxite Mining on Environment and Management Measures, and Socio-economics and Ecological Aspects on the Exploitation of the Bauxite in the Traibal Areas' for the Andhra Pradesh Mining Development Corporation tribal trainees from Araku Valley on 1st October 2010

TFRI, Jabalpur

- Training on vermicompost/ biofertilizers at Bhaisajhar Nursery, Bilashpur on 17th and 18th May 2010 to the trainees of CGRVVN Ltd.



- Training on “Recent Advances in Nursery Techniques” for Staff of TFRI at TFRI, Jabalpur from 27th to 29th May 2010.
- Training on “Non-destructive Harvesting, Processing and Value Addition of NTFPs Including Medicinal and Aromatic plants” for Orissa Forestry Sector Development Project Officials at Rourkela and Talchar, Orissa on 16th to 18th and 20th to 22th September 2010 respectively.
- Training on “Bamboo Based Silvi-agri System and Medicinal Plant Based Silvi-medicinal System” to the farmers of Majhauri under the NABARD training programme at the institute on 21st December 2010.
- Training on “Agroforestry research Experiments” to the Forest Guards Trainees of Balaghat district, M.P. on 2nd February 2011 at the Institute.
- Training on “Environment and Afforestation” for NTPC officials during 22nd to 24th March 2011 at the Institute.
- Training on “Integrated Development of Jatropha and Karanja” for trainers and farmers at Gwalior and Guna, M.P. respectively.
- Training on “Sustainable Harvesting of Gums and Oleoresin of Salai, Dhawara and other Gums” on 27th and 28th, and 29th and 30th March 2011 at Sheopur-Kala (M.P.).
- Training on “Environmental Issues & Green Solutions and Cultivation of Medicinal Plants & Processing” on 05th June 2010 at the Centre, Chindwara.
- Training on “Soil Conservation & Watershed Management” on 26th July 2010 at the Centre.
- Training on “Naturalists & Guides of Bhariya Tribes of Patalkot, Chhindwara (M.P.)” from 26th July to 4th August, 2010 at the Centre.
- Training on “Agroforestry with Reference to Medicinal Plants” by the Centre on 20th and 21st January 2011.
- Training on “Cultivation of Medicinal and Aromatic Plants” at the centre on 28th January 2011.
- Training on “Biofertilizers and Biopesticides” at the Centre on 24th February 2011.
- Training on “NWFP value Addition, Processing and Marketing” at the Centre on 4th March 2011.

RFRI, Jorhat

- Training on 'Fundamentals of GPS and its application in Forest Resource Mapping to Scientists, Research Officer, Research Fellows as In-house Capacity Building on 24th March 2011 at, RFRI. Twenty numbers of trainees participated at the event.
- Training on “Diversity of Rattan in Northeast India” on 25th to 29th November 2010 to Foresters Trainees had come from Andaman and Nicobar and Arunachal Pradesh.



Forester Trainees from Arunachal Pradesh Visiting Rattan Demonstration Garden

AFRI, Jodhpur

- Training on increasing productivity of wastelands, for 35 farmers and officials of Agriculture Department, Sri Ganganagar district, on 2nd July 2010.
- A training cum field visit in collaboration with Jal Bhagirathi Foundation, Jodhpur for farmers and field functionaries on 13th August 2010.
- One week refresher course training for IFS officers from 27th to 31st December 2010 on



integrated approach for sustainable development of fragile desert ecosystem.

- Summer training on plant tissue culture and biotechnology from 1st to 14th June 2010.
- Training programme “Van Ayum Krishi Utthan” was jointly organized by AFRI with Vichar Munch Abu Road for around 100 nos. of farmers on 5th May 2011.
- A workshop-cum-training on GPS, population assessment, identification of medicinal plants and methodology for sample collection of selected medicinal plants etc. was organized under NMPB sponsored network project for all the officers and staffs involved in execution of the project on 3rd May 2010.
- A training programme on “Collection, Preservation and Studying Coleopteran Insects Infesting Coniferous Forests” on 14th and 15th October 2010 at HFRI, Shimla for the frontline staff of the State Forest Department, Himachal Pradesh. In total, 20 field officials, participated in the above training. The training included lectures on Nursery pests, entomo-pathogens, methods of collection of beetles, preservation methods and nature of damage and potential of beetles as pest in the conifer forests.



Training on “Collection, Preservation and Studying Coleopteran Insects Infesting Coniferous Forests”

- A one-day training programme on “Enhancement of Forest Productivity” in Kathua Forest Division, on 17th January 2011 for field functionaries working in the State Forest Department, Jammu & Kashmir. About 32 officials were present during the training programme.



Training on “Enhancement of Forest Productivity”

- One-day training on "Eco-restoration of Degraded Area Through forestry Intervention" on 14th February 2011 at Krishi Vigyan Kendra, Saru, Chamba. About 45 officials of state forest department comprising of Forest guards and Deputy Rangers of Chamba, Churah and Dalhousie Forest Divisions including 15 local farmers participated in the training.



Training on "Eco-restoration of Degraded Area Through Forestry Intervention"

- A one-day training-cum-interaction programme on “Production of Tall Plants in Nursery: Issues and Concerns” at Forest Training Institute, Chail on 15th February 2011. It was attended by 30 nos. of field functionaries of State Forest Department of Himachal Pradesh.



Training on “Production of Tall Plants in Nursery: Issues and Concerns”

- A one-day training on “Cultivation of Medicinal Plants; an Option for Diversification and augmentation of rural income” on 19th February 2011 at Sai Ropa, Banjar, Kullu (Himachal Pradesh). About 48 participants from State Forest Department, Himachal Pradesh, NGO's, Mahila Mandals and members of VFDC's took active part in the programme.



Training on “Cultivation of Medicinal Plants; an Option for Diversification and Augmentation of Rural Income”

- Training on “Identification, Sustainable Utilization and Conservation of Medicinal Plants of Himachal Pradesh” at Forest Training Institute, Chail on 25th February 2011 for the field staff of State Forest Department, Himachal Pradesh. A total of 64 field staff participated in the training.



Training on “Identification, Sustainable Utilization and Conservation of Medicinal Plants of Himachal Pradesh”

- Training on “Prospects of Wild edible plants of Kinnaur District: Their Utilization and Conservation” at Forest Rest House, Nichar on 17th March 2011 for the farmers, Forest field staffs, Mahila mandals etc. About 60 people participated in the training.
- A training on, “Soil Fertility and Nutrient Management Through Agroforestry Species” was organized at Town Bharari (Bhota), District Hamirpur (H.P.) on 28th February 2011. Forty farmers, SFD field functionaries and members of Mahila Mandals participated in the training programme.

IFP, Ranchi

- Two days farmers training on “Vermi-Composting” under the NAIP funded at Forest Research Centre, Mandar on 22nd and 23rd February 2010 where 27 nos. of farmers of Godda District participated.



Sh. Chandi Pratihar, Vermicompost Consultant, West Bengal Delivering Lectures and Giving Field Training to the Farmers During Training on Vermicomposting under NAIP (ICAR) Project



- Two days training programme on “Lac Cultivation through Scientific Method” in Ranka Block, Garhwa District of Jharkhand on 16th and 17th June 2010 in which 185 nos. of farmers and cultivators attended.
- A training on “Medicinal & Aromatic Plants Cultivation” on 10th to 12th March 2011 at IFP, Ranchi in which 25 nos. of farmers participated.
- A Training Programme on “Bamboo Propagation, Cultivation and Management for Sustainable Livelihood” on 24th to 26th March 2011 at IFP, Ranchi in which 25 nos. of farmers participated.

3.3 Visits Abroad

- Dr. Vimal Kothiyal, Head, FP Division, FRI, Dehradun visited China & Malaysia as a member of Expert Team of Commonwealth games for approval of furniture and its quality from July 2010 up to 15th July.
- Dr. Sudhanshu Gupta, Secretary, ICFRE, Dehradun visited Sweden for participation in the ITP (Intensive Training Programme) for Forest Certification from 12th to 28th May 2010.
- Dr. A. Vijayaraghavan, Scientist-C; Dr. Maheshwar Hegde, Scientist-C, IFGTB, Coimbatore and Dr. R.K. Kalita, Scientist-C, RFRI, Jorhat visited Taiwan to attend “National Programme for Training of Scientists and Technologists Working in Govt. Sector” organizes and funded by DST, GoI, New Delhi from 29th May to 06th June 2010.
- Dr. G.S. Rawat, DG and Shri V.R.S. Rawat, Scientist-D, BCC ICFRE, Dehradun visited Germany to participate in the “Next United Nations Climate Change Negotiations from 31st May to 11th June 2010.
- Dr. S.S. Negi, Director and Dr. N.S.K. Harsh, Scientist-F, FRI, Dehradun visited Cambodia for demonstration of preservation and treatment works to the selected trees and to participate in the “19th Technical Session of International Coordination Committee for Safeguarding Angkor” and make presentation in ICC from 5th to 13th June 2010.
- Mohd. Yousuf, Scientist-F, TFRI, Jabalpur visited Hungary to participate in the “7th International Congress of Hymenopterists” from 20th to 26th June 2010.
- Dr. S.S. Negi, Director, FRI, Dehradun visited China to attend Forestry College Dean Meeting in “Asia-Pacific Region – Forestry Education towards Sustainable Forest Management” from 21st to 23rd July 2010.
- Dr. S.A. Ansari, Scientist-F, TFRI, Jabalpur visited London, UK to attend “WGGW and Expo 10” from 23rd to 27th July 2010.
- Dr. G.S. Rawat, DG, ICFRE, Dehradun; Dr. N.K. Vasu, Director, RFRI, Jorhat; Dr. O.K. Remadevi, Scientist-F; Dr. V.P. Tiwari, Scientist-F; Dr. Syam Vishwanath, Scientist-E, IWST, Bangalore; Dr. R. Yashodha, Scientist-E; Dr. Modhoumita Dasgupta, Scientist-D, IFGTB, Coimbatore; Dr. Ombir Singh, Scientist-C, FRI, Dehradun; Dr. B. Divakara, Scientist-C, IFP, Ranchi; Ms. Parveen, Scientist-C; Ms. Nazhat-UI-Qayoom Quazi, SRF; Ms. Preeti Chauhan, SRF; Ms. Shivani Dhobhal, Research Scholar, FRI, Dehradun and Ms. Dhanya Bhasker, SRF, IWST, Bangalore visited S. Korea to participate in the “XXIII World IUFRO Congress” from 23rd to 28th August 2010.
- Shri V.R.S. Rawat, Scientist-E, ICFRE, Dehradun visited Germany to attend “UN Climate Change Negotiations” from 02nd to 06th August 2010.
- Dr. Geeta Joshi, Scientist-D, IWST, Bangalore and Km. Poonam Dubey, Research Scholar, TFRI, Jabalpur visited Taiwan to attend “IUFRO Tree Seed Symposium” from 15th to 21st August 2010.



- Dr. N. Senthilkumar, Scientist-C, IFGTB visited Hungary to attend “IX European Congress” from 22nd to 27th August 2010.
- Shri V.R.S. Rawat, Scientist-E, BCC, ICFRE, Dehradun visited China to attend “United Nations Climate Change Talks from 02nd to 09th October, 2010
- Dr. Girish Chandra, Scientist-C, TFRI, Jabalpur visited Slovenia to attend International on “Applied Statistics 2010 from 19th to 22nd September 2010.
- Dr. B.N. Divakara, Scientist-C, IFP, Ranchi visited Benin to attend “International Symposium DADOBAT 2010” from 25th to 27th October 2010.
- Dr. G.S. Rawat, DG, ICFRE, Dehradun visited Bhutan to attend “IV Meeting of the Governing Board of the SAARC Forestry Centre (SFC)” from 20th and 21st October 2010.
- Dr. Sangeeta Gupta, Scientist-E, FRI, Dehradun visited China to attend “International Conference on Wood Culture (ICWC) form 23rd to 26th October 2010.
- Dr. Sudhanshu Gupta, Secretary, ICFRE, Dehradun visited Mozambique to attend “2nd Part of the SIDA financed International Training Programme on Forest Certification” from 03rd to 13th November 2010.
- Dr. S.S. Negi, Director, FRI, Dehradun visited Germany to participate in the DAAD Autumn School on “International School Networking, Economic Approaches, Policies, Education and Future Strategies” from 08th to 18th November 2010.
- Dr. Rajiv Pandey, Scientist-E, ICFRE, Dehraun visited Philippines to participate in the International Conference on “Forestry Education & Research for the Asia Pacific Region” from 23rd to 25th November 2010.
- Shri V.R.S. Rawat, Scientist-E, BCC, ICFRE, Dehradun visited Mexico to attend meeting of “COP-16 to NFCC” from 29th November to 10th December 2010.
- Dr. Maheshwar Hegde, Scientist-D, IFGTB, Coimbatore visited Nepal to attend meeting of Cites on “Convention International for Adventure Species of Flora & Fauna” from 9th to 11th January 2011.
- Sh. Sandeep Tripathi, Director (Research), ICFRE visited Nepal to participate in the “Eastern Himalayas Regional Workshop on Forests and Climate Change” from 24th to 28th January 2011.
- Dr. S.S. Negi, Director; Dr. N.S.K. Harsh, Scientist-F and Dr. Subhash Nautiyal, Scientist-F, FRI, Dehradun visited Cambodia for project related studies and works under the consultancy project “Preservation and Conservation Treatment of Trees with Active Participation of local Stakeholders” at Ta Prohm Temple (4th Enclosures) for fourth phase of Archeological Survey of India Project on the Conservation and Restoration of Ta Prohm Temple (Cambodia) under ITEC Programme of MoEA, GoI from Cambodia 10th to 20th February 2011.
- Dr. Sangeeta Gupta, Scientist-E invited as guest speaker in “2010 International Wood Culture Symposium, Shaanxi, China” 22nd to 26th October 2010 at Yangling, Shaanxi. One of her student presented papers at Germany and Las Vegas.
- Ms. Shivani Dobhal, Scientist WoS-B attended 23rd IUFRO World Congress, Seoul, Korea 23rd to 28th August 2010.
- Ms. Preeti Chauhan, SRF, attended 23rd IUFRO World Congress, Seoul, Korea 23rd to 28th August 2010.
- By Dr. N. S. K. Harsh- 05th to 13th June 2010 to attend 19th Technical Session of International



Coordination Committee (ICC) Meeting of UNESCO at Siem Reap, Cambodia and make presentation of the activities, preceded by field visit of AD-HOC Experts and project related activities after the ICC Meeting.

- By Dr. N. S. K. Harsh-February 09th to 16th 2011 visit to Siem Reap, Cambodia for project related studies and works under the consultancy project “Preservation and Conservation Treatments of Trees with Active Participation of Local Stakeholders at Ta Prohm Temple (4th Enclosure), Siem Reap, Cambodia” (Archeological Survey of India Project on the Conservation and Restoration of Ta Prohm Temple (Cambodia) under ITEC Programme of Ministry of External Affairs, Govt. of India)
- Shri S.K.Shanmugasundaram, HOD, Visited U.S.A as part of Mid Career Training Phase 4 from 19th June to 04th July 2010.
- Dr. Maheshwar Hegde attended International Training Workshop on Non-detriment Findings and the Review of Significant Trade for Plant Species during 9th to 11th January 2011 at Hotel Everest, Kathmandu, Nepal. This International regional (Asian countries) workshop was organized in Nepal at Kathmandu by CITES management authorities in collaboration and cooperation with CITES secretariat Geneva, Switzerland.
- Sri M. Lokeswara Rao, IFS visited USA for in-service mid career training programme.
- Dr. N. Rama Rao, Scientist F, visited Bhutan for EIA and EMP studies on Bhunakha and Sankosh Hydro-electric Projects.
- Dr. Geeta Joshi attended IUFRO Tree Seed Symposium: Recent advances in seed research and *ex-situ* conservation, at Taipei Taiwan during 16th to 18th August 2010.
- Dr. Sanjay Singh, Scientist-D participated in International Seminar, 2010 on “Climate Change and Environmental Challenges of

21st Century” at Rajshahi, Bangladesh during 7th to 9th December 2010 and presented his research paper entitled “Carbon Sequestration Potential of Bamboos vis-à-vis Fast Growing Tropical Trees”.

- Dr. Sanjay Singh, Scientist-D and Sri Satya Prakash Mishra, SRF attended the 1st Asia International Conference on “Environmental Supporting in Food & Energy Security : Crisis & opportunities” on 22nd to 25th March 2011 at Bangkok, Thailand.

3.4 Participation in Seminars/Symposia/ Workshops/Trainings

- Scientists/Officers/ Researcher of ICFRE (H.Q. and Institutes) participated in the following Seminars/ Symposia/ Workshops/ Trainings
- Water Technology Seminar on “Solution for Current Analytical Changes” organized by Waters, Bangalore on 1st February 2010 at Coimbatore.
- Second Rashtriya Yuva Vaigyanik Sammelan-2010 on 6th and 7th February 2010 at Doon University, Dehradun.
- Sixth National Conference on Advancement of Technologies- Focus 2010. Theme “Information Technology & Energy Management”, GLA group of Institutions, Mathura, UP on 20th and 21st February 2010.
- National Conference on “Conservation, Improvement and Sustainable Use of Medicinal Plants & Non Wood Forest Products” held on 9th and 10th March 2010 at Ranchi.
- “FGRMN National Workshop” conducted at IFGTB, Coimbatore on 9th and 10th March 2010.
- National Conference on “Sustainable production and Utilization of Medicinal and Aromatic Plants : Current Trends and Future



- Prospects” held at Bhubaneswar organized by Regional Plant Resource Centre, Govt. of Orissa with the collaboration of State Medicinal Plant Board, Govt. of Orissa, Bhubaneswar on 8th and 9th April 2010.
- Workshop on Joint Forest Management held on 13th April 2010 at MoEF, New Delhi.
 - Sensitization training programme on Modalities and Procedure of CDM afforestation and reforestation projects on 16th and 17th April 2010.
 - National Workshop: Global Plan of Action (GPA) for Conservation and Sustainable utilization of Plant Genetic Resources for Food and Agriculture (PGFRA) at NBPGR, New Delhi on 17th April 2010.
 - Training programme on “Creativity and innovation”, conducted by ASCI, Hyderabad from 1st to 7th May 2010.
 - Training workshop on Biodiversity Data Discovery and Publication, Organized by Wildlife Institute of India from 4th to 7th May 2010.
 - Edusat Coordinator Workshop organized by ICFRE on 7th May 2010.
 - International conference on "Wildlife and Biodiversity Conservation viz-a-viz Climate Change" held at Sher-e-Kashmir University of Agricultural Sciences and Technology-Kashmir, Srinagar, J & K, India from 3rd to 5th June 2010.
 - Second Environment Summit 2010 on 5th June 2010 organized by CII at Dehradun.
 - National conference on forest people interaction held in Pokhara, Nepal on 6th and 7th June 2010.
 - Training on "Tendering & Contracting" from 14th to 18th June 2010 at the National Institute of Financial Management, Faridabad.
 - Training on Management and Leadership development at LBSNAA, Mussoorie from 14th to 18th June 2010.
 - Workshop on Developing an EIA Biodiversity Data Publishing Framework: India Pilot Project from 23rd to 25th June 2010 at Wildlife Institute of India, Dehradun.
 - Seventh International Congress of Hymenopterists at Koszeg, Hungary from 20th to 26th June 2010.
 - International Training Workshop on Conservation and Management of Forest Genetic Resources during 5th to 9th July 2010 co-organized by ICFRE, FRIM, APAFRI, Biodiversity International and supported by ITTO and conducted at the Institute of Forest Genetics and Tree Breeding, Coimbatore.
 - Third National Congress on “Plant Breeding and Genomics” held from 7th to 9th July 2010 at Tamil Nadu Agricultural University, Coimbatore.
 - National seminar on Impact of climate change on biodiversity and challenges in thar desert on 9th July 2010 organised by Desert Regional Centre, Zoological Survey of India, Jodhpur.
 - International conference of Image Processing Computer Vision and Pattern recognition IPCV 2010 from 12th to 15th July 2010 at Las Vegas, USA.
 - "National Workshop on the Archaeological Science" on 17th and 18th July 2010 at New Delhi.
 - National seminar on combating environmental degradation on 26th and 27th July 2010 organized by Gujarat Ecology Commission, at Gandhinagar.
 - International conference on computer Graphics-Visualization computer vision and Image Processing from 27th to 29th July 2010 at Freiburg, Germany.



- National Seminar on “Recent Trends in Pharmaceutical Research” held at MM University, Mulana on 7th and 8th August 2010.
- Workshop to review the conduct of DUS test for the period 2007-2010 at National Academy of Agricultural Research Management, Hyderabad on 11th and 12th August 2010.
- Training programme on “Importance of Biodiversity, its Conservation and Sustainable Utilization” Funded by the Directorate of Environment, Govt. of Tamil Nadu for the 3rd Batch–Pollachi Educational District school students and School teachers on 18th August 2010 at IFGTB, Coimbatore.
- National Conference on “Biodiversity for Sustainable Development: Threats, Indicators, Climate Change, Poverty Alleviation and Targets for Safeguarding Biodiversity” on 25th and 26th August 2010 organized by Department of Plant Science, Centre for Biodiversity and Forest Studies, Madurai Kamaraj University, Madurai.
- XXIII IUFRO World Congress on “Forest for the Future: Sustaining Society and the Environment” held at Seoul, South Korea from 23rd and 28th August 2010.
- Meeting-cum-workshop on "Research needs and the Financial, Technological and Capacity Needs and Constraints to Address Climate Change Concerns vis-a-vis Forests and Forest Products in India" on 1st September 2010 at TFRI, Jabalpur.
- National Seminar on Conservation and Sustainable Utilization of Red-listed Medicinal Plants on 2nd and 3rd September 2010 at Newman's college, Thodupuzha, Kerala.
- National Conference on Herbal medicine on 8th and 9th September 2010 by Department of Botany, Bharathiar University, Coimbatore.
- Workshop Strengthening of Science & Technology at KFRI, Peechi, Kerala on 13th and 14th September 2010.
- National Seminar on Managing Fragile Ecosystems: Research Needs and Priorities in the Peninsular Indian Region at the MES ASMABI College, P. Vemballur, Kodungallur, Thrissur district, Kerala on 15th and 16th September 2010.
- 'Physiological and Molecular Interventions for yield and quality improvement in Crop Plants' held at SVBP, Meerut on 17th and 18th September 2010.
- Workshop on “Shisham Mortality Finding Solutions for Future Plantation” held at Dehradun on 20th September 2010.
- Fourth International Conference: INDIAS 2010 organized by Allahabad University from 19th to 21st September 2010 at University of Allahabad.
- International Conference Applied Statistics-2010 from 19th to 22th September 2010 at Ribno, Slovenia.
- Training workshop on “Earthquake Resistant Design & Construction Practices” from 21st to 24th September 2010 at CBRI, Roorkee.
- Workshop on Validation and verification being organized by UNESCO and UNDP (India), New Delhi from 28th September to 1st October 2010.
- National Seminar on “Biotechnology for Human and Social Welfare” organized by Yash Krishi Takaniki Evam Vigyan Kentdra , Allahabad on 3rd and 4th October 2010.
- International conference on Bioresource Technology, organized by Nirmala college for women, Coimbatore on 7th and 8th October 2010.
- DBT sponsored training on “Biological data analysis” conducted by Bioinformatics centre, CPCRI, Kasarcode, Kerala from 10th to 12th October 2010.
- “Desert biodiversity workshop: Priority Conservation of Grasses, Trees and Fauna,”



- organized by WWF-India, Mehrangarh Museum Trust, INTACH, AFRI, Tiger Watch, Bishnoi Tigers Vanya and Paryavaran Sanstha, and TWSI at AFRI, Jodhpur on 11th and 12th October 2010.
- Workshop on management of Forest Genetic Resources for IFS officers on 19th October 2010 sponsored by the MOEF, GOI.
 - Workshop on “Sustainable Participatory Management of Natural Resources to Control Land Degradation in the Thar Desert Ecosystem” at Jal Bhagirathi Foundation, Bijolia, Jodhpur (Rajasthan) on 20th October 2010.
 - Training programme in the area of biotechnology in 2010 organized at FRI from 27th September to 8th October 2010 under State Biotechnology Programme.
 - Conference, Biopesticide: Emerging Trends (BET 2010). Biopesticides in Food and Environment Security from 20th to 22nd October 2010 Hisar (Haryana).
 - “2010 International Wood Culture Symposium, Shaanxi, China” from 22nd to 26th October 2010 at Yangling, Shaanxi.
 - Training workshop on Role of Scientist in Biodiversity Conservation from 25th to 29th October 2010 organized by Wildlife Institute of India, Dehradun.
 - International Conference on Environment and Management (ICEM 10), held at Hyderabad from 25th to 28th October 2010.
 - “International Conference on Nano Sensor and Technology (ICNST)” from 28th to 30th October 2010 at CSIO, Chandigarh.
 - Regional Workshop on Biodiversity Conservation” conducted by Panchmarhi Bioserve at Samvad Sadan Chhindwara on 7th November 2010.
 - Fifth Uttarakhand State Science and Technology Congress (USSTC) held at Doon Univ., Dehradun from 10th to 12th November 2010.
 - XXV Carbohydrate Conference from 11th to 13th November 2010 at H.P. University, Shimla.
 - Regional workshop on "लघुवनोपज के सतत वन प्रबन्धन में महिला वन समिति सदस्यों की सहभागिता" on 16th November 2010 at State Forest Research Institute, Jabalpur.
 - International Conference on “Cooling the Earth Tactics for Restoring Climate Order and Saving the Living Planet” organized by the Department of Environmental Science, G. B. Pant University of Agriculture and Technology at Pantnagar from 15th to 17th November 2010.
 - Conference on “Fertilizer” at Birsa Agricultural University, Kanke, Ranchi on 16th November 2010.
 - Biodiversity and Biotechnology: Biodiversity Resource Management and Sustainable Development conference at Department of Botany and Biotechnology, Govt. new Science College, Rewa, M.P. on 16th and 17th November 2010
 - Dr. Girish Chandra attended and presented the paper Ranked Set Sampling Theory for Large Set Size with probability proportional to Rank Size Matrix in conference on Interface between Statistics, Mathematics and allied Science from 20th to 22nd November 2010 at Kumoun University, campus Almora, Uttarakhand.
 - Second Biennial International Conference on New Developments in Drug discovery from natural products and traditional medicines from 20th to 24th November 2010 at National Institute of Pharmaceutical Education and Research (NIPER), Chandigarh.
 - National Seminar on “Current Advances in Biosciences: Application in Health, Environment and Agriculture” at Department of Botany, Hitkarni, Mahila Mahavidyalaya, Jabalpur on 23rd and 24th November 2010.



- Compulsory training programme for Indian Forest Services officers from 22nd to 26th November 2010 on "Water Conservation and Rain Harvesting" at Forestry Training Institute, Jaipur (Rajasthan).
- International Conference on Folk and Herbal Medicine, Udaipur, Rajasthan from 25th to 27th November 2010.
- Conference of Plant physiology held at BHU, Varanasi from 25th to 27th November 2010.
- International Symposium on "Taxonomy, Plant Diversity and Conservation" from 26th to 28th November 2010. Organized by Department of Botany, Bhatathiar University, Coimbatore, Tamil Nadu.
- National Symposium on Sustainable rice production system under changed climate held from 27th to 29th November 2010 organized by Central Rice Research Institute, Cuttack.
- Workshop for IFS officers on the subject 'Personal & Employees job satisfaction at IMTR, Goa held on 2nd and 3rd December 2010.
- National Seminar on "Global Perspective of Biological Researches in the Present Scenario" Organized by Department of Botany Dayanand Girls (P.G.) College, Kanpur, on 7th and 8th December 2010.
- International conference on "Energy, Environment and Development (ICEED) 2010" at Sambalpur, Orissa from 10th to 12th December 2010.
- "Fourth International Conference on Plants & Environmental Pollution, 2010" from 8th to 11th December 2010 organized by International Society of Environmental Botanists and National Botanical Research Institute, Lucknow.
- International Seminar on Conservation, Sustainable Collection, Processing and Marketing of Medicinal Plants with focus on RET species at Bangalore on 11th and 12th December 2010.
- "Biodiversity: Challenges and Issues" organized by ICFRE at Dehradun on 16th December 2010.
- International symposium on "Recent Advancement in Cross Disciplinary Microbiology: Avenues & Challenges AMI 2010-CMAC.BIT Mesra from 14th to 17th December 2010.
- Madhya Pradesh Mahila Vigyan Sammelan held at Mata Gujri Girl's College, Jabalpur on 18th and 19th December 2010.
- National Training Workshop on 'Strengthening CITES implementation capacity to ensure sustainable wildlife management and non-detrimental trade in India' on 20th and 21st December 2010 at Wildlife Institute of India, Dehradun.
- Seventh symposium on Phytochemistry and Ayurveda: Poential and Prospectus at Dehradun on 25th December 2010.
- National Seminar on "Tropical ecosystems: Structure, Function and Services" held on 28th and 29th December 2010 at IFGTB, Coimbatore.
- Workshop on "कृषि वानिकी विस्तार- समस्या एवं महत्व" on 29th December 2010 organized by Extension and Research Circle, Jabalpur.
- "Specialized Training on DNA Fingerprinting of Plants following RAPD and Microsatelite Techniques" at Rajiv Gandhi Centre for Biotechnology, Thiruananthapuram from 27th December 2010 to 14th January 2011.
- "Indian Science Congress 2010" at Chennai from 3rd to 7th January 2011.
- Third Herbal International Exhibition-cum-Summit on Medicinal and Aromatics Products, Species and Finished Products (HI- MAPS) organized by the Associated Chambers of Commerce and Industry of India on 15th and 16th January 2011 at New Delhi-110020.



- Workshop on “Jatropha: A Biofuel Plant” on 18th January 2011 organized by S.N. Tripathi Memorial Foundation at Chaundauli District, U.P.
- Workshop on “New Frontiers and future of Wood Science & Technology in India” held at Institute of Wood Science and Technology, Bangalore on 20th January 2011.
- Training on “Nano Technology” organized by Indian Institute of Science, Bangalore from 18th to 20th January 2011.
- Seminar on “Climate Change and Adaption” organized by St. Francis College for Woman, 20th January 2011.
- International conference on “Recent trends in Renewable Energy Resources”, organized by IICT, Hyderabad from 28th to 30th January 2011.
- Training on Remote Sensing and GIS Application in Forestry & Ecology held at IIRS, Dehradun from 31st January to 11th February 2011.
- A two-week training course in “Basic Remote sensing and GIS Applications in Forestry” at Forestry and Ecology Division (FED), IIRS, ISRO, Dehradun from 31st January to 11th February 2011.
- Seminar on Bamboo under National Bamboo mission organized by Agriculture Department at Abu Road, Sirohi, Rajasthan on 3rd February 2011.
- Training programme on Climate Change and Forest conducted by BCC Division, ICFRE from 31st January to 4th February 2011.
- “Delhi Sustainable Development Summit-2011” at New Delhi Sponsored by The Energy Research Institute, New Delhi from 3rd to 5th February 2011.
- National Symposium on “Recent advances in Plant Tissue Culture and Biotechnological Researches in India & XXXII Annual meet of Plant tissue culture association (INDIA) from 4th to 6th February 2011.
- National Seminar on “Progress in Life Science for Human Welfare” on 5th and 6th February 2011 at Govt. Model Science College, Jabalpur.
- IUFRO Symposium on Short Rotation Forestry : Synergies for Wood Production and Environmental Amelioration from 10th to 12th February 2011 at PAU Ludhiana.
- Eight All India People's Technology Congress on 11th and 12th February 2011 at Science City & Energy Park, Kolkata.
- National Conference on Conservation of Sacred Groves to Protect Local Biodiversity from 12th to 14th February 2011 at CPR Environmental Education Centre, Chennai.
- National Seminar on Climate Change, Biodiversity and Conservation held at St. Andrews PG College, Gorakhpur on 16th and 17th February 2011.
- National Seminar on “Recent Advances in Bamboo Propagation, Management and Utilization” on 17th and 18th February 2011 at IWST, Bangalore.
- Seminar on “Krishi Prodyogiki Dwara Khaddann, Poshan Ebam Paryavaran Suraksha” at Agriculture Research Station, Keshwana, Jalore on 18th February 2011.
- National workshop on “Non Timber Forest Products Marketing: Issues and Strategies” held on 19th February 2011 organized by NTFP Division, TFRI sponsored by MP Trading and Development Cooperative Federation, Bhopal.
- “Thirteen Indian Agricultural Scientists & Farmer's Congress” on 19th and 20th February 2011 organized by Bioved Research Institute of Agriculture & Technology Allahabad.
- National Conference on Landscape Restoration Processes-Challenges and opportunities at FRI, Dehradun on 22nd and 23rd February 2011.



- Symposium on Insect Pest Management, held at the Entomology Research Institute, St. Xavier College, Palayamkottai from 23rd to 25th February 2011.
- Workshop on “Science-based Policy Options for Climate Change Adaptation in Rajasthan” organized by Rajasthan Pollution Control Board, Jaipur on 24th and 25th February 2011.
- Ninth CYSC-2011 from 28th February to 1st March 2011 at Jagdalpur (Chhatisgarh).
- National Seminar on Casuarinas on 3rd and 4th March 2011 at IFGTB Coimbatore.
- Second National Workshop on Forest Genetic Resources held at IFGTB on 8th and 9th March 2011.
- National Seminar on Advances in Wood Science and Technology Research: Recent Trends, Future Challenges and opportunities at FRI, Dehradun on 9th and 10th March 2011.
- Consultative workshop on strategies for formulation of Forest Genetic Resources Management Network (FGRMN), organized by the Institute of Forest Genetics and Tree Breeding, Coimbatore on 9th and 10th March 2011.
- राजभाषा वैज्ञानिक संगोष्ठी, रक्षा प्रयोगशाला, जोधपुर 10 से 11 मार्च 2011, पृष्ठ सं. 32&36A।
- "National Seminar-cum-Workshop on Computational Biology and applications" on 11th March 2011 at Bharathiyar University, Coimbatore.
- State level workshop as a delegate on UK India collaboration forest landuse restoration project organized by Forest department, Uttarakhand at Manthan Hall, Rajpur Road, Dehradun on 13th March 2011.
- Conference on 'Green Chemistry Education: Necessity for sustainable development' on 22nd and 23rd March 2011 at HNB Garhwal University, Srinagar (Garhwal).
- National workshop on *Prosopis juliflora*: Past Present & Future at Central Arid Zone Research Institute, Jodhpur on 23rd and 24th March 2011.
- National conference on “Plants and People” held at the Kakatiya University, Warangal on 29th and 30th March 2011, and presented a paper titled “Ethnobotany – an essential tool for human welfare and biodiversity conservation”.
- One day workshop on “Bio-remediation of Contaminated Soil” conducted by The Research Wing of Tamil Nadu Forest Department on 25th March 2011.
- Water management training on 29th March 2011 organized by Central Ground Water Board (WZ), Jaipur at CAZRI, Jodhpur.
- Third Insect Science Congress on “Pest Management for Food Security and Environment Health” as organized by Indian Society for the Advancement of Insect Science and Department of Entomology, Punjab Agricultural University at Ludhiana from 18th to 20th April 2011.
- “Experience Sharing Workshop” at Attappady Hills Area Development Society (AHADS), Agali, Kerala on 21st May 2011.
- Training-cum-Workshop on Essential oils, Perfumery and Aromatherapy' organized jointly with FFDC, Kannauj from 31st May to 4th June 2011 at FRI.