



Education Vistas



Introduction

The Directorate of Education of ICFRE is mandated to promote forestry education in Universities by providing financial support to Universities to strengthen infrastructure such as building, equipments, computer centre, library etc. In all, there are 26 Universities in India to which the Grant-in-aid is provided by this Directorate.

This Directorate also undertakes the Human Resource Development Programme such as organizing training on Basic Forestry Management Practices for scientists at the entry level and other training programmes for middle level Senior Scientists on "Research Methodologies" and "Research Management & Administration" with a view to sharpening their research skills & update their knowledge. In addition to these, recently two new thrust areas have been assigned to the Directorate of Education.

These are "Policy Research" and the "Disaster Management". The conduct of Policy Research in the arena of Forests, Wildlife and Environment is one of the important mandate of ICFRE. Recent events such as cyclone, tsunami etc. have triggered research interest in the field of disaster management to explore their mitigatory role in the event of occurrence of such disaster, generate information & create awareness on the same.

The Directorate has Policy Research Division to review and analyze the existing forest policies, statutes and their frame work.

- 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. 450 lakhs to 15 Universities in the financial year 2009-10. Also obtained Utilization Certificates from 15 Universities and revalidations were issued for 12 Universities for the balances available with them.

- 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.

HRD Initiatives

- As part of the HRD initiatives for capacity building of scientific personnel, 13 training programme were organized in a number of training organizations of repute, in which 211 participants were trained in 8 institutions.
- In order to provide wide national exposure to the scientists, a total of 111 permissions were issued at Council level for participation of scientists in national level seminars, workshops, symposia etc.
- Facilitated 47 cases of foreign visits, which were finally approved from the Government of India with funding from a number of sources providing a much needed international exposure to the scientific cadre.
- Prepared Report of MoEF committee on "Capacity Building of other stakeholders and members of other services" and submitted to Ministry.

Mid - Career Training of IFS

- ICFRE successfully competed and prepared 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 also has the distinction of organizing first ever such programme as lead training provider from 14th December 2009 to 19th March 2010, which led to establishment of protocols for future trainings.

Policy Research

Organized third interactive meeting of policy research committee of MoEF on 29th January 2010 and a meeting of Sub committee on 10th February 2010 at New Delhi.

3.1 FRI (Deemed) University

Forest Research Institute, Dehradun was conferred the status of Deemed University by the Ministry of Human Resource Development, Government of India, New Delhi. After the conferment of Deemed University status, the University started three Masters degree courses and three Diplomas in the field of Forestry and allied sectors. Since then, the University is carrying out multi-disciplinary Forestry, R&D, Education and Extension activities aimed at creation and dissemination of scientific knowledge for sustainable development, management, conservation and utilization of forest resources and environmental management.

Academic Courses and Admission

The FRI University is offering M.Sc. in Forestry, M.Sc. Environment Management and M.Sc. Wood Science & Technology besides Post Masters Diploma in Natural Resource Management, Post Graduate Diploma in Aroma Technology and Post Graduate Diploma in Pulp & Paper Technology on a regular basis. The M.Sc. courses are of two years duration while, diplomas are of one year duration.

Admissions to all the courses are made on the basis of all India Competitive Entrance Test while, admission to PGD in Pulp & Paper Technology and PGD in Aroma Technology is on merit basis. During the year 2009-2010, 113 students were admitted in all the above six courses.

Special Lectures

Besides normal curriculum, the students are exposed to the views of experts on various topics by way of arranging exposure trips / tours, special lectures etc.



Students Attending Special Lecture

Trainings

- Forest Research Institute (Deemed) University Organized 10 weeks Induction Training of Scientists and Research Officers of ICFRE from 15th March to 23rd May 2010. The training included topics like Watershed Management, Soil and Water Conservation, Restoration of Mine lands, Forest Types of India, Sustainable Forest Management, Joint Forest Management, Extension Forestry, Research Writing, Climate Change, Forest Protection, Forest Certification, Wildlife Management, Environment Management and Environmental Impact Assessment were delivered by Internal faculties of FRI (Deemed) University as well as visiting faculties from IIRS, WII, IGNFA, SFS College, Meteorological Department etc and retired Scientists / Forest officials etc.



- Educational tour for induction trainees was conducted to Punjab, Haryana and Himachal Pradesh and also to Bangalore and Coimbatore.
- Visits were organized to various organizations like Indian Institute of Remote Sensing, Dehradun; Forest Survey of India, Dehradun; IGNFA, Dehradun and all division of FRI.

North Zone Vice Chancellors Conference was organized by FRI (Deemed) University with the Association of Indian Universities (AIU) from 22nd to 24th September 2009 in Convocation Hall of FRI.

Ph.D. Programme

1. Research Scholar registered during the period	- 63
2. Viva - Voce held during the period	- 66
3. Award of Ph. D. Degree	- 68

Annual Sports Meet was organized by the University from 19th to 22nd March 2010. A number of events including cricket matches, volley ball matches, tug of war, various indoor games etc. were organized during the sports meet.



Tug of War during the Annual Sports Meet



Cultural Activities

- The University organized inaugural session with the officials of FFDC, Kannauj, officials of University and the students of Post Graduate Diploma in Aroma Technology on 11th August 2009 in Conference Hall of the University. The Director FRI inaugurated the session.
- Seminar on the topic “Parvatiya Kshetron Mein Audyogik Vikas aur Paryavaran Sanrakshan” was attended by the students of FRI (Deemed) University at FRI on 4th and 5th November 2009.

Attachments

- Industrial attachment was arranged for the students of M.Sc. Wood Science & Technology 3rd semester from 1st to 31st December 2009 to different wood based industries of India.
- Institutional attachment was arranged for the students of M.Sc. Forestry 3rd semester and M.Sc. Environment Management 3rd semester from 1st to 31st December 2009 to different research Institutions of India.
- Mill attachments were arranged for the students of PGD in Pulp & Paper Technology Students from 15th December 2009 to 15th February 2010 as a part of Industrial training.

Dissertations

- Dissertations were completed by the final semester students of all M.Sc., PMD and PGD courses from 1st March to 31st May 2009 and dissertation reports submitted for evaluation. The work was evaluated by experts.
- The students of Post Masters Diploma in Aroma Technology course went on six months industrial training and project work at



FFDC Kannauj, U.P. from mid December 2009 to mid June 2010.

Placements

- Campus Interview was conducted by different Organizations/Industries/Companies/NGO's and placement of over 35 students was carried out.

3.2 Trainings Organized

Indian Council of Forestry Research & Education (ICFRE), Dehradun

Five days training course for scientists and officers on "Carbon Sequestration" was organized by the Biodiversity and Climate Change Division at ICFRE, Dehradun from 5th to 9th October 2009.



Participants and Organizers of One Week Refresher Training Course for IFS Officers

Forest Research Institute (FRI), Dehradun

- Short term training on "Plywood Manufacture" from 24th to 28th August 2009.
- Training course on "Timber Grading and Timber Testing" was organized by Timber Mechanics Discipline, Forest Products Division, FRI, Dehradun for the officials of J & K State Forest Development Corporation from 6th April to 5th October 2009.
- Five days training programme from 31st August to 4th September 2009 on "Enterpreneurship Development

Programme for Handmade paper through Sisal Fibre" sponsored by UCOST.

- Short term training on "Value Addition of NWFPs" was organized by Chemistry Division FRI from 14th to 17th July 2009.
- Training on "Isolation, Identification and Preservation of Fungi" sponsored by ICFRE, held in Forest Pathology Division, FRI, Dehradun from 18th to 23rd January 2010 for the Scientists and Research Officers of ICFRE institutes.
- Training of Officers of APSARA National Authority, Cambodia at Forest Research Institute, Dehradun for exposure to forestry research in the field of Silviculture, Forest Pathology, Forest Entomology, Forest Products, Botany, Nursery Techniques, and Research Management, etc. from 10th to 26th February 2010.
- Training on Improved Seed and Nursery Technology from 21st to 25th September 2009.
- Training on Hi-Tech Nursery and Plantation Management" from 8th to 17th June 2009.
- Trainings on Plant Protection and Treatment of Diseases of trees to field staff of NDMC 3 batches on 14th to 18th December 2009; 1st to 5th February 2010 and 8th to 12th March 2010.
- Training on forestry for IT/Computer Scientists of ICFRE from 30th November to 11th December 2009 at FRI.
- Training on Afforestation techniques for Eco-task Force personnel of Territorial Army from 15th to 18th September 2009.
- Training on Afforestation techniques for Eco-task Force personnel of Territorial Army from 27th to 30th October 2009.
- Training programme on "Natural Disaster Management in Forestry Sector" in



collaboration with National institute of Disaster Management from 18th to 22nd January 2010.

- Cultivation and value addition of Medicinal plants from 6th to 9th December 2009.
- Training on “Eco-restoration of Wastelands”.
- Training on “Bio-remediation and Environment Amelioration”.
- Training on Arc info 9.3. 2nd to 6th March 2009 Organized by Bio-informatics and GIS Division FRI.
- Farmers Training on “Bamboo species Cultivation Harvesting and Sale” on 28th April 2009.
- Farmers Training on “Value Addition of Medicinal Plants for Better Yield and Profit” on 23rd June 2009.
- Farmers Training on “National Bamboo Mission Farmers Training at CSFER” from 15th to 19th March 2010.
- A Training Programme on “Trainers Training on Nursery Techniques and Raising Quality Planting Stock” from 24th to 28th August 2009. Organised at SFRI Kanpur under Van Vigyan Kendra of ICFRE.
- Farmers Training-cum-Extension Programme on “Age Suitability for Plantation of Tree species” at Demo Village Saidupur, Allahabad on 19th February 2010.
- Farmers Training-cum-Extension programme on “Agroforestry” under the CSFER, Allahabad at Badshahpur, Machhalishahar Tahsil, Jaunpur on 18th February 2010.
- Farmers Training-cum-Extension programme on “Eucalyptus in Agroforestry” under the supervision of Head, CSFER, Allahabad at Ram Sanehi Ghat, Barabanki on 5th March 2010.

- Farmers Training-cum-Extension programme on “Teak in Agroforestry” under the supervision of Head, CSFER, Allahabad at Kaudihar, Soraon Tahsil, Allahabd on 7th March 2010.
- Farmers Training-cum-Extension programme on “Poplar in Agroforestry” under the supervision of Head, CSFER, Allahabad at Khajani, Gorkhpur on 11th March 2010.
- Farmers Training-cum-Extension programme on “Aonla in Agroforestry” under CSFER, Allahabad at Berui, Allahabad on 26th March 2010.

Institute of Forest Genetics & Tree Breeding (IFGTB), Coimbatore

- A Training on Cultivation and Management of Casuarina and Eucalyptus for the farmers of Coimbatore District under the National Agricultural Innovative Programme Project Development of Value chain for Industrial Agroforestry in April 2009.
- A Training-cum-Demonstration was organised on Database of digitized Herbarium of IFTGB in April 2009.
- A five days Training on Bamboo Cultivation and Management for Horticulture officers of Tamil Nadu from 18th to 22nd May 2009.
- A five days Training Programme on Bamboo Cultivation and Management for Horticulture officers of Tamil Nadu from 25th to 29th May 2009.
- Training programme on Quality Planting Stock Production and Agroforestry for the Range Forest Officers of the Extension Wing of Tamil Nadu Forest Department was organised from 24th to 26th July 2009.



- Two days Intensive Hands on Training Programme on “Instrumentation Methods and Chemical Analysis-Extraction, Separation, Suitability of Solvent Ratio, TLC Elucidation and UV Characterization of Plant Metabolites” on 27th and 28th July 2009.
- Training on Industrial Agroforestry for farmers of Karur District on 30th August 2009 under the National Agricultural Innovative Project (NAIP).
- One day Technical Training-cum-Meeting on Descriptors of Eucalyptus and Casuarina sponsored by Protection of Plant Varieties and Farmer's Right Authority of India on 23rd September 2009 at IFGTB.
- Two days Intensive hands on training on “Instrumentation Methods and Chemical Analysis - Extraction, Separation, Suitability of Solvent Ratio, TLC Elucidation and UV characterization of Plant Metabolites” on 9th and 10th September 2009.
- Training on Tree Cultivation and Protection of Plant Varieties for Farmers on 6th October 2009.
- A two days training on Quality Planting Stock Production for farmers on 8th and 9th October 2009.
- A one day training on "Forest Botany and Herbarium Techniques" for the trainee Foresters of the Tamil Nadu Forest Academy (TNFA) on 23rd October 2009.
- Training on Bamboo Cultivation and Management for farmers of Karur District with the support of District Horticulture Department on 22nd October 2009.
- Training on Bamboo Cultivation and Management for farmers of Nagapattinam District of Tamil Nadu on 27th and 28th October 2009.
- A training on Plantation Management for the Assistant Conservators of Forests and Range Officers of the Extension wing of the Tamil Nadu Forest Department on 9th November 2009.
- Training on “Germplasm Characterization using DNA Marker Technologies” for researchers and lecturers on 3rd and 4th December 2009.
- Training on Plantation Technologies for Villagers of Kandiyur Demo Village on 8th December 2009.
- Two days training programme on Rust fungi in weed management on 4th and 5th January 2010 was organised under the Project on “New Biocontrol Opportunities for Prickly Acacia: Exploration in India”.
- Training on "Phytochemical Analysis of Medicinal Plants using TLC, MPLC, UV, HPLC, and GC/MS/MS" for Chemists and Research Scholars of Tamil Nadu State Forest Department from 18th to 23rd March 2010.
- Training on Integrated Pest and Disease Management for officials of the Tamil Nadu State Forest Officials on 30th March 2010.
- Training on Biofertilizers and Biomanures for Farmers of Tamil Nadu on 31st March 2010.

Institute of Wood Science and Technology, (IWST), Bangalore

- Twelve training programmes under "Van Vigyan Kendra", FRC, Hyderabad. A total of 416 participants received training on topics covering Forest nursery, Tree improvement, Wood science, Biodiversity and Environment related issues and Disaster management, etc.



- A training to the officials of KFD on 4th March 2010.
- Training on Wood Seasoning and Preservation from 7th to 11th September 2009.
- Training on Field Identification of Important Timbers from 16th to 20th October 2009.
- Training on Sandal Seed and Nursery Practices from 23rd to 27th November 2009.
- Training on Classification and Grading of Timbers from 2nd to 4th December 2009.
- Training on Wood Protection from 4th to 8th January 2010.
- Training on Designing Green Landscapes to Provide Multiple Services from 4th to 8th January 2010.
- Training on Sandal Seed and Nursery Practice from 15th to 19th February 2010.

Tropical Forest Research Institute (TFRI), Jabalpur

- Training to progressive farmers under Nawan Range, Baranawapara Project Division, Raipur, Chhattisgarh on the benefits of adopting bamboo based agroforestry systems on the 13th and 14th May 2009.
- Training to progressive farmers on the benefits of adopting bamboo based agroforestry systems at Gwalior on 25th and 26th May 2009.
- Training on "Lac and Medicinal Plant based Agroforestry System for Maharashtra" to the selected farmers of different villages of Yeotmal and Chandrapur districts of Maharashtra from 27th to 30th October at Yeotmal and Chandrapur, Maharashtra in association with BAIF, Pune.
- Training on Harvesting and processing of Mahua to the forest officials of Orissa held in January 2010 at Tropical Forest Research Institute, Jabalpur.
- Training on medicinal plant based agroforestry system to the farmers and forest officials of Raipur and Dhamtari districts of Chhattisgarh on 24th and 25th February 2010 at Van Vigyan Kendra, Raipur, Chhattisgarh.
- Training for Trainers on "Mahua Collection and its Storage Practices" from 9th to 11th April 2009 at Chhattisgarh Minor Forest Produce Federation, Raipur.
- Training on bamboo based agroforestry system to the selected farmers of different villages of Yeotmal and Chandrapur, Maharashtra from 27th to 30th October at Yeotmal and Chandrapur, Maharashtra in association with BAIF, Pune.
- Training on Development of wasteland through agroforestry systems to the SFD officials, NGOs and farmers of Madhya Pradesh on 4th and 5th December 2009 at VVK, Jabalpur.
- Training on "Plantation, Agriculture and Climate Change" on 26th February 2010 at village Jamuniya, Jabalpur for farmers and tree growers.
- One day training programme on "Insect Pests and Diseases of Chironji, *Buchanania lanza* and their Control Measures" for the SFD officials of at Batkakhapa, East Forest Division, Chhindwara on 8th January 2010.
- One day training programme on "Insect Pests and Diseases of Teak, *Tectona grandis* and their Control Measures" for the SFD officials at Belkund, Kundam Forest Project Division, (M.P. Forest Development Corporation), Jabalpur on 24th February 2010.
- One day Training Programme on "Insect Pests and Diseases of Aonla, *Emblica officinalis* and their control measures" for the



SFD officials at Wamandehi, Research & Extension Circle, Seoni on 10th March 2010.

- Training on "Application of Biofertilizers in Nurseries and Plantation" for the field personnel of Forest Development Corporation of Maharashtra, Nagpur on 16th and 17th November 2009.
- Training on "Nursery Techniques of Important Forestry Species of Central India" to the farmers and field functionaries of SFD, Madhya Pradesh on 11th and 12th August 2009 at Dindori.
- Training on "Nursery Techniques of Important Forestry Species" to the farmers and field functionaries of SFD, Orissa on 26th and 27th August and 16th and 17th September 2009 at Van Vigyan Kendra, Koraput.
- Training on "Nursery and Plantation Technology of Bamboo" to the farmers and field functionaries of SFD of Gujarat under BTSG of bamboo mission on 7th and 8th September 2009 at Tropical Forest Research Institute, Jabalpur.
- Ten training programmes on different aspects of forestry and environment related issues were organized during the year at CFRHRD, Chhindwara.



Training on "Soil Conservation and Watershed Management" on 4th June 2009 at CFRHRD, Chhindwara

Rain Forest Research Institute (RFRI), Jorhat

- Training on Nursery and Plantation Techniques of *Acacia mangium* from 22nd to 25th June 2009 to farmers.
- Training on Participatory Rural Appraisal (PRA) and Microplanning from 5th to 9th February 2009 for both the staff and villager participants.
- Training on Bamboo Nursery on 21st and 22nd February 2009.
- Training on Vermicomposting on 23rd and 24th February 2009.
- Training on Patchouli Agroforestry on 1st August 2009.
- Training on Awareness on *Acacia mangium* from 22nd to 25th June 2009.
- Training for participating farmers on "Legume Based Agroforestry for Sustainable production in Jhum land" held at Phumen Ingti Village at Rongmorgwe Block (Karbi Anglong)-18th December 2009 and Bey Killing Village at Nilip Block (Karbi Anglong) on 21st December 2009.
- Training on "Application of GPS technology in Land Resource Survey" from 14th to 16th September 2009.



Training on "Application of GPS Technology in Land Resource Survey"



- Training on Bamboo Pests and Diseases and their Management under the Van Vigyan Kendra of Nagaland from 25th to 27th July 2009 at Tuensang, Nagaland.
- Training to a group of Foresters & Forest Guards of State Forest Department of Tripura on 11th October 2009 held at RFRI, Jorhat (Assam).
- Training on Vermicompost production, Post harvest preservation and treatment of Bamboo for enhance durability and Nursery techniques for bamboos on 31st March 2009 to 50 Nos Forest Gaurds of State Forest School, Makum, Dibrugarh at RFRI, Jorhat.
- Training on 'Vermicompost production and its application in Bamboo and other crops' on Van Vigyan Kendra, Assam, at Makum Forest School, Dibrugarh on 13th March 2009.
- Training to a group of Foresters & Forest Guards of State Forest Department of Tripura on 11th October 2009.
- Training on bamboo to the Forest Officials of Mon District, Nagaland on 29th and 30th October 2009.
- Training on plantation management, nursery raising and bamboo value addition in the training under VVK, Tripura on 25th and 26th February 2010 at Agartala (Tripura).
- Training on "Bamboo Value Addition" and "Bamboo: An Opportunity for Livelihood Need" respectively at 10th Jorhat Trade Fair at Jorhat (Assam) on 12th February 2010.
- Training on Bamboo at Phek District, Nagaland under VVK Programme on 25th and 26th March 2010.

Arid Forest Research Institute (AFRI), Jodhpur

- One week compulsory training of IFS Officers on "Integrated Approach for Sustainable Development of Fragile Desert Ecosystem" sponsored by Ministry of Environment & Forests, Govt. of India, New Delhi, from 14th to 18th December 2009.
- Three days training for farmers and field functionaries from 13th to 15th February 2010 under VVK (Rajasthan) at Kisan Bhawan Bikaner, Rajasthan.
- Training on VAM technology from 7th to 9th September 2009 to forest officials, progressive farmers under VVK project at Gandhinagar, Gujarat.

Himalayan Forest Research Institute (HFRI), Shimla

- Two days Training-cum-Demonstration programme on "Inter Cultivation of Medicinal Plants: An Option for Augmenting Rural Income" on 26th and 27th May 2009 at Brundhar Nursery, Manali, District Kullu, Himachal Pradesh.
- One day training programme on "Forest Productivity: Enhancement Through Tree Improvement" on 17th September 2009 at Field Research Station Bir Plasi, Nalagarh.
- One day training programme on "Bee Keeping and Integrated Pest Management" to 80 farmers of Model village Lanabaka, District Sirmaur, Himachal Pradesh on 29th September 2009.
- One day training programme-cum-workshop on "Eco-restoration of Degraded Areas Through Forestry Interventions" at Dhaura Kuan (Poanta Sahib), District Sirmour on 22nd January 2010.



- A one day training programme on "Application of Technological and Research Interventions for Enhancement of Productivity" was organized at State Forest Research Institute, Jammu on 17th February 2010.
- One day Training-cum-Demonstration programme on "Commercial Cultivation of Patish and Chora" at Field Research Station, Bruhandhar (Manali) on 21st February 2010 under National Medicinal Plants Board (NMPB).
- Statistical Training was conducted at IFP, Ranchi from 8th to 18th February 2010.
- Two days farmers training on "Vermicomposting" under the NAIP (ICAR) funded project titled "Up- scaling Livelihood of Forest Communities through Enhanced Farm Productivity and Efficient Support Systems in Godda District of Jharkhand" at Forest Research Centre, Mandar on 22nd and 23rd February 2010.

Institute of Forest Productivity (IFP), Ranchi

- One day farmers training on "Vermicomposting" at Forest Research Centre, Mandar, Ranchi on 20th April 2009 where 12 number of farmers were participated.
- Training on "Lac Cultivation Through Scientific Method" and Establishment of Broodlac Farms" at Khunti district of Jharkhand on 18th and 19th May 2009.
- One month training on "Molecular Biology" was conducted for the students of Marwari College, Ranchi on 04th October 2009 at "Molecular Biology and Tree Physiology Laboratory" of the Institute.
- One day training programme on "Lac Cultivation Through Scientific Method" at N.B. Farm, Hesadiah and N. B. Farm, Chandwa on 30th October 2009 and on 27th November 2009.
- Two days Awareness Training on "Dissemination/Awareness Training on Cultivation & Marketing of Important Medicinal Plants" at Environmental Research Station, Sukna, W.B. on 23rd and 24th February 2010.



Lectures and Field Training to the Farmers during Training on Vermicomposting under NAIP Project

3.3 Visits Abroad

- Dr. G.S. Rawat, DG, ICFRE; Shri M.S. Garbyal, DDG (Admin.); Dr. Rabindra Kumar, DDG (Extension);

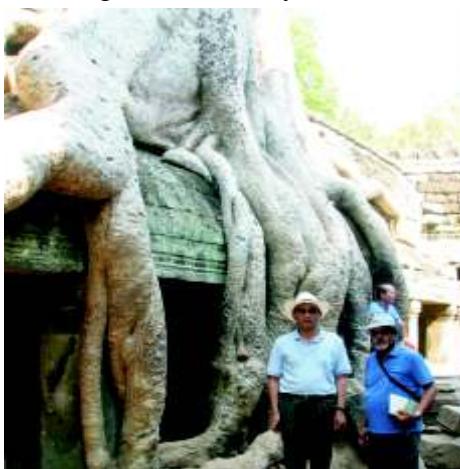


(From L to R) Dr. Dharmendra Verma, ADG (EIA); Shri M.S. Garbyal, DDG (Admin.); Dr. G.S. Rawat, DG, ICFRE; Dr. Rabindra Kumar, DDG (Extn.), in Bhutan



Dr. Dhramendra Verma, ADG (EIA) and Shri Sudhir Kumar, Scientist- E, EIA, ICFRE, Dehradun visited Bhutan to inspect the EIA Consultancy of Sankosh Hydro Electric Project from 7th to 11th September 2009.

- Dr. G.S.Rawat, DG, ICFRE attended APARI 5th Assembly on 4th October 2009 in Malaysia.
- Dr. G.S. Rawat, DG, ICFRE, Dr. S.S. Negi, Director, FRI, Dehradun, Dr. H.S. Ginwal, Head, G&TP Division, FRI, Dehradun and Dr. Madhumita Das Gupta, Scientist-D, IFGTB, Coimbatore attended International Symposium on "Forest Genetics Resources Conservation" from 5th to 8th October 2009 in Malaysia.
- Dr. G.S.Rawat, DG, ICFRE attended FAO SOW FGR Meeting on 9th October 2009 in Malaysia.
- Dr. G.S. Rawat, DG, ICFRE attended "III Meeting of Governing Board of the SAARC Forestry Centre" on 12th and 13th October 2009 in Bhutan.
- Dr. G.S. Rawat, DG, ICFRE, Dehradun inspected the pretreatment and preservation works being conducted by FRI, Dehradun at



Dr. G.S. Rawat, DG, ICFRE, Dehradun along with Dr. N.S.K. Harsh, Scientist- F, FRI, Dehradun Inspecting the Preservation Work at Ta Phrom Temple in Cambodia

Ta Phrom Temple in Cambodia during 2nd to 7th March 2010. He alongwith the team of experts met with the Mr. Bun Narith, DG, APSARA National Authority and other senior officers and assured them of complete cooperation from the Council. He also met with Shri R.K. Sachdev, ambassador of India and appraised him on the works being done by the Council in Cambodia.

- Shri Sandeep Tripathi, Director (Research), ICFRE attended "8th Asia Flux Workshop- 2009" from 27th to 30th October 2009 in Japan.
- Shri Jagdish Kishwan, DG, ICFRE and Shri V.R.S. Rawat, Scientist-D, Biodiversity and Climate Change Division, ICFRE participated in the thirteenth session of the SBSTA and SBI, sixth session of AWG-LCA and eighth session of AWG-KP at Bonn, Germany, from 1st to 12th June 2009 as part of the Government of India delegation.
- Shri V.R.S. Rawat, Scientist-D, Biodiversity and Climate Change Division, ICFRE participated in Climate Change Talks, from 10th to 14th August 2009 at Bonn, Germany as part of the Government of India delegation.
- Shri V.R.S. Rawat, Scientist-D, Biodiversity and Climate Change Division, ICFRE participated in Climate Change Talk at Barcelona from 2nd to 6th November 2009 as part of the Government of India delegation.
- Shri V.R.S. Rawat, Scientist-D, Biodiversity and Climate Change Division, ICFRE participated in 15th Conference of the parties to the UNFCCC / 5th meeting of the parties to the Kyoto Protocol at Copenhagen, Denmark, from 7th to 18th December 2009 as part of the Government of India delegation.



- Dr. N. S. K. Harsh, of FRI, Dehradun attended 18th Technical Session of International Coordination Committee of UNESCO at Siem Reap, Cambodia from 29th May to 5th June 2009 also attended field visit of Adhoc Experts of ICC at Ta Prohm Temple.
- Dr. S. S. Negi, Shri A. S. Rawat, Dr. N. S. K. Harsh and Dr. S. Nautiyal of FRI, Dehradun visited Siem Reap, Cambodia to conduct training on tree protection and conservation at Ta Prohm Temple and to attend 16th Plenary Session of ICC meeting from 09th to 12th December 2009.
- Shri Mohinder Pal, Director, HFRI, Shimla participated in the International Course on "Climate Change & Desertification Process-Assessment and Monitoring" from 22nd June to 10th July 2009 in Israel.
- Dr. S. S. Negi, Director, FRI; Dr. N. S. K. Harsh, Scientist-F and Dr. Subhash Nautiyal, Scientist-F, FRI, Dehradun visited Sri Lanka for comparing the Tree Conservation Practices from 9th to 16th September 2009.
- Dr. I.D. Arya, Scientist-F; Dr. Sarita Arya, Scientist-E, A F R I, J o d h p u r , Shri Raja Muthukrishnan, Scientist-C, IWST, Bangalore and Dr. Abhinav Kant, SRF, FRI, Dehradun participated in the "VIII World Bamboo Congress" from 16th to 19th September 2009 in Thailand.
- Dr. H.S. Ginwal, Scientist-E, FRI, Dehradun; Dr. Modhumita Das Gupta, Scientist-D, IFGTB, Coimbatore participated in the International Symposium on "Forest Genetic Resources, Conservation and Sustainable Utilization towards Climate Change, Mitigation and Adaptation" held in Kuala Lumpur, Malaysia from 5th October to 8th October 2009.
- Dr. Modhumita Dasgupta, Scientist-D, IFGTB, Coimbatore; Dr. Ashok Kumar, Scientist-D, and Ms. Parveen, Scientist-C, FRI, Dehradun participated in the XIII World Forestry Congress held at Buenos Aires, Argentina from 18th to 23rd October 2009.
- Dr. (Mrs) Laxmi Rawat, Scientist-E, FRI, Dehradun participated in Sub-Regional Capacity Building Workshop on Forest, Biodiversity and Climate Change at Singapore from 2nd to 5th September 2009.
- Dr. Rashmi, Scientist-C, FRI, Dehradun carried out research work on "Phytochemical Analysis of Bioactive Compound" as a visiting researcher under DFRFP at Kinjo Gakuin University, Nagoya, Japan from 10th May to 10th November 2009.
- Dr. N. Senthilkumar, Scientist-C, IFGTB, Coimbatore as a Team member EIA, has visited Bhutan during from 11th to 20th May 2009 for the project on "Flora and Fauna for Bhunaka Hydro Electric Project".
- Dr. A. Karthikeyan, Scientist-D, IFGTB, Coimbatore visited China for participation in International Casuarina meeting held at Haikou, China from 22nd to 26th March 2010.
- Dr. N. Krishna Kumar, Director, Dr. A. Nicodemus, Scientist-D, and Dr. V. Sivakumar, Scientist-D, IFGTB, Coimbatore undertook a study visit and training in advanced seed production systems in CSIRO, Australia and Royal Forest Department, Thailand from 20th to 30th November 2009.



- Dr. S. Viswanath and Ms. Dhanya, B (SRF), IWST, Bangalore attended II World Agroforestry Congress at ICRAF/WAC, Nairobi, Kenya on 24th August 2009.
- Shri Umesh A. Kabade, Research Scholar IWST, Bangalore attended World Bamboo Congress, held at Bangkok, Thailand from 18th to 20th September 2009.
- Dr. V.P. Tewari, Scientist-F, IWST, Bangalore visited China to participate in the 3rd GAForN International Symposium on "Academic Forestry Education: Development and Needs" organized at the Kunming Institute of Botany, Chinese Academy of Science, Kunming, China from 8th to 12th March 2010.
- Dr. S.A. Ansari, TFRI, Jabalpur attended 4th Bio Nano Tox and Applications Research Conference, University of Arkansas, Little Rock, USA, on 21st and 22nd October 2009 and Chaired Session VII : Plant Biology, Nano and Biotechnology for Agriculture Use.
- Dr. Nitin Kulkarni, TFRI, Jabalpur attended IUFRO Working Party 7.03.04: Diseases and Insects in Forest Nurseries held from 12th to 16th July 2009 at United States Department of Agriculture (USDA) Forest Service, Hilo, Hawaii, USA.
- Ms. Imtienla Ao, Conservator of Forests and Group Coordinator (Research) RFRI, underwent a compulsory mid-career training programme of eight weeks duration for phase-IV, from February to April 2010, in Finland and Russia.
- Dr. N.K. Bohra, AFRI, Jodhpur visited Copenhagen, Denmark to attend "The Copenhagen Climate Exchange 2009" conference from 2nd to 9th December 2009.
- Shri Mohinder Pal, IFS, Director, HFRI, Shimla participated in the " International Course on Climate Change and Desertification", which was organized by World Meteorological Organization, Israel from 22nd June to 10th July 2009.

3.4 Participation in Seminars/Symposia/Workshops/Trainings

Scientists/Officers/Researchers of ICFRE (H.Q. and Institutes) participated in the following Seminars/Symposia/Workshops/Trainings:

- Fourth National Forestry Conference F.R.I from 9th to 11th November 2009.
- Interaction of Doctorate IFS Officer with Shri Jairam Ramesh, Hon'ble Union Ministry of State for Environment & Forests on 11th January 2010 at ICFRE, Dehradun.
- Fourth Uttarakhand State Science & Technology Congress–2009 from 10th to 12th November 2009 at G.B.Pant University of Agriculture & Technology.
- The 97th Session of Indian Science Congress (Agriculture & Forestry) at Trivendrapuram, Kerala from 3rd to 7th January 2010.
- Conference on Analytical Science in Energy and Environment held at Indian Institute of Petroleum, Dehradun on 19th and 20th November 2009.
- International conference on 'Green Technologies for Greener Environment' from 27th to 30th January 2010 at Chaudhary Charan Singh University, Meerut.
- Second Rashtriya Yuva Vaigyanik Sammelan-2010 at Doon University, Dehradun on 6th and 7th February 2010.



- International conference on mountain biodiversity and sustainable utilization, Doon University, Uttarakhand from 13th to 15th March 2010.
- Biennial Conference on Recent Advances in Weed Science Research-2010 held at Indira Gandhi Krishi Vishwavidyalaya, Raipur on 25th and 26th February 2010.
- Eighth World Bamboo Congress from 16th to 18th September 2009.
- International Conference on "Nurturing Arid Zones for People and the Environment: Issues and Agenda for the 21st Century" organized by Arid Zone Research Association of India at CAZRI, Jodhpur from 24th to 28th November 2009.
- International Conference on "Recent Advances in Environmental Science and Technology" organized by Centre for Environmental Science and Technology, Banaras Hindu University, Varanasi from 2nd to 4th November 2009.
- National Conference on "Food and Environmental Security through Resource Conservation in Central India: Challenges and Opportunities FESCO-2009" organized by Indian Association of Soil and Water Conservationists, Dehradun at Central Soil and Water Conservation Research and Training Institute, Agra from 16th to 18th October 2009.
- Twelfth Indian Agricultural Scientists and Farmers Congress, held at Bioved Research Institute of Agriculture and Technology, Allahabad on 20th and 21st February 2010.
- International Conference on Climate change and Bioresource from 9th to 12th February 2010 at Bharathidasan University, Trichy.
- International Conference on "Climate Change and Environment sustainability in India and Canada: Approaches and Strategies" held at University of Madras, Tamil Nadu (India) from 16th to 18th September 2009.
- National Conference on "Invasive Alien Insects: Threat to Agriculture, Horticulture and Forest Ecosystems" at University of Agricultural Sciences, Dharwad on 20th and 21st January 2010.
- Indian Science Congress, 2010 at Thiruvananthapuram from 3rd to 7th January 2010.
- National Consultation on "Advancing the Science of Taxonomy in India for Biodiversity Conservation" held at ATREE on 23rd February 2010.
- National Conference on "Productivity Enhancement and Value Addition of Bamboo" held at Institute of Forest Productivity, Ranchi on 9th and 10th March 2010.
- National Conference on 'Renewable Energy for Development of Under-Developed Areas with Particular Reference to North-East India" held at Department of Energy, Tezpur University, Tezpur, Assam from 23rd to 25th March 2010.
- "International Conference on Chemical, Biological and Environmental Engineering" held at Nanyang Technological University, in Singapore from 9th to 11th October 2009.
- National Conference on Biodiversity Conservation and Management of Bioresources held on 28th and 29th October 2009 at Andhra Pradesh University, Visakhapatnam.
- National Conference on Biotechnology for the 21st century: New Horizons held on 18th and 19th December 2009 at St. Aloysius College, Jabalpur.
- Fifth International Conference on Biopesticides: Stakeholders Perspective (ICOB-V-2009) held from 26th to 30th April



2009 at Tata Energy and Resources Institute, New Delhi.

- Second International Conference on Biopesticide held from 26th to 28th November, 2009 at St. Xavier's College, Palaymkottai, Tamil Nadu.
- Fifth International Conference on 'Plant Pathology in the Globalized Era', held from 10th to 13th November 2009 at IARI, New Delhi.
- First International Conference on New Frontiers in Biofuels held on 18th and 19th January, 2010 at India Habitat Centre, New Delhi.
- First International Conference on Conservation, Marketing and Patenting of Medicinal Plants (ICCMPMP) held on 14th and 15th March 2010 at Raipur.
- International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation, Sustainable Utilization and Conservation held from 4th to 6th March 2010 at Chennai.
- National Conference on Frontiers in Plant Physiology Towards Sustainable Agriculture, organized by Assam Agricultural University, Jorhat, Assam from 5th to 7th November 2009.
- National Conference on Emerging Trends in Chemical Sciences at Bundelkhand University, Jhansi (UP) from 24th to 26th February 2010.
- National Conference on "Renewable Energy and Trade Show" on 6th November 2009 at Vyas Institute of Engineers and Technology, Jodhpur.
- Twenty fourth Carbohydrate Conference, industrial polysaccharides & biological

significance of carbohydrates from 7th to 9th December 2009 at Lachoo Memorial College of Science & Technology, Jodhpur organized by ACC&T(India) and IGGMA, Jodhpur.

- National Conference on Forestry Solutions; Strategies for Mitigation and Adaptation of the Impacts of Climate Change in Western Himalayan Mountain States held at Peterhoff, Shimla from 19th to 21st November 2009 organized by Himachal Pradesh State Forest Department.
- "International Conference on Recent Trends in Life Science Researches vis-à-vis Natural Resource Management, Sustainable Development and Human Welfare" held from 27th to 29th June 2009 organized under the auspices of Vinoba Bhave University, Hazaribagh (Jharkhand).



International Conference on "Recent Trends in Life Science Researches vis-à-vis Natural Resource Management, Sustainable Development and Human Welfare"



- National Seminar on Responses of Ecological components to the phenomenon of global warming (NSREG- 2009) on 26th and 27th September 2009 in Department of Zoology at Kumaun University, Nainital.
- National Seminar on Climate Change: Data Requirement and Availability on 16th and 17th April 2009 at Indian Institute of Economic Growth, Bangalore.
- National seminar on “Productivity enhancement and Value Addition of Bamboos” Ranchi on 9th and 10th March 2010.
- National Seminar on “Ecological Economics: An Approach towards Socio-economic and Environmental Sustainability” organized by Institute for Social and Economic Change, Bangalore, India on 30th September and 1st October 2009.
- “National Seminar on Frontiers In Biotechnology- (NSFB-2009)” organized by Department of Biotechnology, Bharathiar University, Coimbatore, from 22nd to 24th July 2009.
- National Seminar on "Emerging trends in Plant Biotechnology" on 4th and 5th February 2010 at Government Arts College, Coimbatore.
- National Seminar on "Bioresources—Conservation and Management" on 8th and 9th January 2010 at PSGR Krishnnamal College, Coimbatore.
- National Seminar on the occasion of the Silver Jubilee Celebrations of Silent Valley National Park at Mundur, Palakkad, on 21st November 2009.
- Seminar on Wetland Conservation, organized by Social Forestry Division, Alappuzha under Vembanadu Lake Mangrove conservation project at Perumbalam Island, Alappuzha District, Kerala on 2nd February 2010.
- Third Indo-Korean Joint Seminar on Medicinal Plant Research at Avinashilingum University for Women, Coimbatore, on 3rd February 2010.
- Seminar on “Molecular Strategies in Insect Plant Interactions: Role of Chemical in Host Specialization” organized by Prof. T. N. Ananthakrishnan on 22nd November 2009 at Chennai.
- Water Technology Seminar on “Application of LC and MS Innovation” by Waters, Bangalore on 29th January 2010 at Coimbatore.
- Seminar on “Current Advances in Applied Genetics & Bioethics” at Nirmala College for Women, Coimbatore on 18th and 19th September 2009.
- National Seminar on Genetics, Breeding and Biotechnology organized by University of Calicut on 11th and 12th December 2009.
- National Seminar on “Recent trends in Structural Bioinformatics” conducted by Pondicherry University on 16th and 17th September 2009.
- “Tree Growers Mela” on 18th and 19th February 2010 organized by Institute of Forest Genetics and Tree Breeding, Coimbatore in collaboration with extension wing of Tamil Nadu Forest Department.
- Seminar on "Uses of Modern Technologies in Forests & Advancements in Wood Science" organized by Indo-Italian Trade Centre held at IWST on 19th November 2009.
- National Seminar on Current Trends in the Field of Biodiversity and Sustainable use of



Natural Resources, held at Mata Gujri Mahila Mahavidyalaya, Jabalpur, on 16th and 17th November 2009.

- Second Bhartiya Vigyan Sammelan & Expo-2009 on Green Technologies for Sustainable Development held at Devi Ahilya Vishva Vidyalaya, Indore from 1st to 3rd December 2009.
- National Seminar on Development, Environment and we at Institution of Engineers, Jabalpur on 4th July 2009.
- National Seminar on Designing crops for the changing climate of Birsa Agricultural University, Ranchi from 29th to 31st October 2009.
- National Seminar on Fungal Biodiversity and Bioprospecting in the age of Global warming held on 29th and 30th October 2009 at Department of Botany, Goa University, Goa.
- National Seminar 2010 on Plant Biotechnology: Advances, Impact and Relevance, at Botany Department, AMU, Aligarh on 20th March 2010.
- National Seminar on Rehabilitation of Degraded Lands held on 6th and 7th October 2009 at CSFER, Allahabad.
- National Seminar on "Global Climate Change: Frontier Research in Biological Sciences", held at Department of Life Science, Dibrugarh University on 12th February 2010.
- National Seminar on Emerging Trends in Biotechnology organized by Jodhpur National University on 1st October 2009.
- Seminar on "Water Quality Management" organized by the Marwar Engineering College and Research Centre, Jodhpur on 21st March 2010.
- Second Annual Conclave of High Himalaya Forum as organized by PRAGYA–A Gurgaon based NGO at India Habitat Centre, New Delhi on 9th October 2009.
- Two days Chief Ministers Conclave on Glaciers, Climate Change and Livelihoods at Hotel Peter Hoff, Chora Maidan, Shimla organized by State Council for Science Technology & Environment, in collaboration with Leadership for Environment and Development–India (LEAD) on 29th and 30th October 2009.
- National Seminar on Climate Change held at New Delhi on dated 6th and 7th November 2009 as organized by LEAD, India.
- International Symposium on Rhizosphere Biology of agriculture, horticulture and forestry: Present and future. G. B. Pant University Agriculture and Technology, Pantnagar, Uttarakhand from 25th to 27th February 2010.
- International Symposium on Environmental Pollution, Ecology & Human Health held at Tirupati from 25th to 27th July 2009.
- CIMAP Golden Jubilee National Symposium" on 50 years Research on Medicinal and Aromatic Plants in India" at CIMAP Bangalore on 26th June 2009.
- Workshop on Maintenance of industrially important cells and their molecular characterization, organized by the Department of Biotechnology, PSG College of Technology, Coimbatore from 9th to 21st November 2009.
- Workshop on 'Low Carbon Future', organized by British Council, British Scholars Andhra Pradesh Environment Connect on 18th and 19th July 2009 .
- DST sponsored workshop on Quantitative analysis and modeling in animal science held



at Yeshwant Rao Chavan Academy of Development Administration, Pune from 6th to 11th October 2009.

- The IBISCA Workshop, held at IWST, on 30th October 2009 as a part of 5th International Canopy Conference.
- International Workshop on “Nocturnal Pollination: Patterns & Process” at IISc. from 23rd to 27th March 2009.
- Workshop on Clean Development Mechanism (CDM) held on 11th August 2009 at Bhopal.
- Workshop on Utilization of automatic weather station and agrometeorological station data for M.P. held on 7th October 2009 at SFRI, Jabalpur.
- National workshop on Agroforestry on 5th and 6th July 2009 at College of Agriculture, Nagpur.
- “Workshop on Sustainable Development and Management, Value Addition etc. of the Medicinal Plants of Nagaland” on 9th and 10th December 2009 at Dimapur conducted by Department of Forests, Govt. of Assam.
- “Review Workshop on Bio-Geo Database” organized by NERIWALM, Tezpur at OKDISCD, Guwahati (Assam) on 18th February 2010.
- National Workshop of Rattans (Canes) at Itanagar organized by CBTC, Guwahati from 24th to 26th February 2010.
- “Two days Sensitization Workshop on Common Guidelines” on 25th and 26th June 2009 at Jodhpur.
- Workshop for the preparation of state environment policy for Rajasthan at Jodhpur on 27th October 2009.
- Workshop on Statistical Application in Biotechnology at Dayalbagh Educational Institute, Agra on 30th and 31st October 2009.
- A National Workshop on “Intellectual Property Rights : Biodiversity to Biotechnology vis-a-vis Traditional Knowledge” from 22nd to 24th October 2009 at Dr. Shyama Prasad Mukherjee Govt. Degree College, Allahabad.
- Training Programme on Latest trends in Environmental Impact Assessment (EIA) - Process and Procedures as per MoEF guidelines. Engineering Staff College of India, Hyderabad from 14th to 16th September 2009.
- Training Programme on Comprehensive Landslide Risk Management National Institute of Disaster Management (NIDM), New Delhi from 1st to 5th February 2010.
- Training Programme on Wildlife Conservation: Issues and Challenges. Wildlife Institute of India, Dehradun from 8th to 12th March 2010.
- Training Programme on Dendroclimatology and climate change at IITM Pune from 30th November to 11th December 2009.
- International Training Workshop of “Bamboo as a Modern Construction Material” jointly organized by INBAR and Uttarakhand Bamboo & Fibre Development Board (UBFDB) from 5th to 14th October 2009.
- Training Programme on “Dendroclimatology and Climate Change” conducted by Indian Institute of Tropical Meterology, Pune from 7th to 12th December 2009.
- Training Programme on Eco-restoration of Wastelands at Forest Research Institute, Dehradun from 13th to 17th July 2009.



- DBT Sponsored Training on "Recent advances in EST Analysis & their Annotation" conducted by Indian Institute of Spices Research, Calicut from 20th to 22nd October 2009.
- Specialized Training Programme on Forestry and Information Technology at Forest Research Institute Dheradun from 30th November to 12th December 2009.
- Training on Bio-remediation and Environmental Amelioration at Forest Research Institute, Dehradun from 3rd to 7th August 2009.
- Training on "Plant Germplasm Conservation" held for Scientists of ICFRE, at NBPGR, New Delhi from 13th to 17th April 2009.
- Fifth Training on "Molecular Marker Technology for Crop Improvement" held at Centre for Excellence in Genomics, International Crop Research Institute for Semi Arid Tropics, Patancheru, Hyderabad from 16th May to 29th 2009 with funding from Department of Biotechnology, Government of India.
- Promotion linked advance forest management course for IFS officers of 2000 batch, held at Indira Gandhi National Forest Academy, Dehradun from 25th May to 12th June 2009.
- Planning and Implementation of Watershed Projects held at National Institute of Rural Development, Hyderabad from 27th July to 1st August 2009.
- Economic Analysis and Funding for forestry projects held at Forestry Research Institute, Jaipur on 27th and 28th August 2009.
- Collection, Compilation, Validation and Dissemination of Forestry Statistics held at Kerala Forest Research Institute, Peechi, Thrissur from 16th to 20th November 2009.
- Training Programme on Isolation, Identification and Preservation of fungi at FRI, Dehradun during January 2010.
- "Basic Forestry" for Computer scientist from 30th November to 11th December 2009 at FRI, Dehradun.
- "Isolation and Identification of AM Fungi" at Department of Agriculture Microbiology, Tamil Nadu Agricultural University, Coimbatore from 25th May to 5th June 2009.
- Animal behavior and chronobiology held in the animal behavior department of Madurai Kamarai University from 29th August to 11th September 2009.
- Training on Ecorestoration of Wastelands, Forest Research Institute, Dehradun from 13th to 17th July 2009.
- Training on "Innovation Management for Scientists and Technologists" conducted by Administrative Staff College of India, Hyderabad from 14th to 18th December 2009.
- Compulsory Training for IFS Officers on "Forest Research Methodology" at IIM, Lucknow as nominated by MoEF, Govt.of India from 1st to 5th June 2009.
- Training Programme on Ethnic issues of communities under DST programme held at IIFM, Bhopal from 18th to 22nd January 2010.
- Training on "Third Advanced Training Programme on Cyber Laws, Information Security and Computers for Scientists and Technologists" held at IIPA, New Delhi from 6th to 10th July 2009.
- Sixth Advanced Training Programme on Cyber Laws, Information Security, and Computers for administrative personnel of



S&T Department of Govt. of India held at IIPA, New Delhi from 25th to 31st May 2009.

- Ninth Foundation Training Programme for Scientists and Technologists at Indian Institute of Public Administration 9th November 2009 to 29th January 2010.
- Training on “Identification and uses of Mycorrhiza in Forestry”, from 26th May to 5th June 2009 at Department of Microbiology, Tamil Nadu Agriculture University, Coimbatore (Sponsored by ICFRE).
- Compulsory Training Course on "New Trends and Experiences in Human Resource Development" at Institute of Management Training & Research (IMTR), Goa from 15th to 19th February 2010.
- “Advance Training on Plant Molecular Biology” conducted by Birla Institute of Technology, Mesra, Ranchi from 11th May to 6th June 2009.



Learning Techniques in Lab

- Training on “Fundamental Principles and Techniques of Isolation and Identification of Insect Pheromones” at Indian Institute of

Chemical Technology, Hyderabad from 8th to 13th February 2010.

- Training Workshop on “Molecular Biology and Biotechnology Techniques” during 10th to 20th December 2009 organized by Central Institute of Fisheries Education (CIFE), Versova, Mumbai.



Participants of Training Workshop on “Molecular Biology and Biotechnology Techniques” with Faculty at CIFE, Mumbai

- National Committee on mangroves and coral reefs, Andhra University, Visakhapatnam on 29th and 30th September 2009.
- Training and awareness programme on the cultivation of *Gloriosa superba* at Andhra University, Visakhapatnam on 13th November 2009.
- Brain Storming Workshop on Utilization of Chemistry held at Home Science College, Jabalpur on 10th November 2009.
- Brainstorming Session held at IWST, Bangalore on 9th December 2009.
- State Level Awareness Programme for Tamil Nadu on National Certification System for Tissue Culture Raised Plants organized by Biotech Consortium India Limited (BCIL) at Coimbatore on 25th February 2010.