



ICFRE

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News Letter



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION
P.O. New Forest, Dehradun (Uttarakhand)

ICFRE NEWSLETTER

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January – June 2013

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Back Cover

Glimpses of Celebration of International Biodiversity Day at different ICFRE Institutes.

Patron's Column

Indian Council of Forestry Research and Education (ICFRE), Dehradun is actively engaged in forestry research and education. The Council is also aware of its social responsibilities and a number of schemes are under implementation to deliver the outputs of research projects to the end users.



With a view to sensitize the Tree Growers on issue related to cultivation and management of tree species, IFGTB, Coimbatore is regularly organizing Tree Growers Melas (TGM) since 2009. Based on the experiences and learning of this successful event, ICFRE is planning to replicate TGM at each ICFRE institute annually on regular basis.

Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is being implemented in India and, ICFRE is regularly working on this aspect by holding number of workshops, trainings and other related activities.

India is the largest producer of Lac in the world. Introduction of the new lac host *Flemingia spp.* by IFP, Ranchi is proving very promising. Recently, it has been observed that a farmer got an additional income of Rs. 2.45 lakh from the cultivation of lac on *Flemingia spp.*

ICFRE through Bamboo Training Support Groups (BTSG) are training different end users, including farmers and rural poor, to enhance their income through scientific management of bamboos and different products made there from.

The Council extends expertise in the form of consultancy to a varied clientele. Recently, the Council has developed R&R Plan for 71 Mines of category A and B in Karnataka out of which 67 R&R Plan have been approved by the CEC of Hon'ble Supreme Court.

I hope that this issue of the Newsletter will be able to provide glimpses of different activities being conducted at the Council.

Shri K. Jude Sekar
Director General

TREE GROWERS MELA

IFGTB, Coimbatore organized the 5th Tree Growers Mela on 21 and 22 February 2013. Shri M. Karunakaran, IAS, District Collector, Coimbatore inaugurated the exhibition on Plantation technologies for sustainable Tree Farming. Shri K. Ravichandran, Head Forest Economics and Extension, welcomed the gathering. Shri Saibal Dasgupta, DDG (Extension), ICFRE, spoke about extension activities of the Council and laid stress on extension of research findings to the stakeholders particularly farmers. Dr. N. Krishnakumar, Director, IFGTB in his address provided an overview about the Tree Growers Mela. Dr. M.H. Swaminath, Chair of Excellence

for Climate Change in his felicitation address congratulated ICFRE and IFGTB, Coimbatore

for organizing the Mela. Dr. S. Nagarajan, Chair of Excellence Forest Genetic Resources in his felicitation address requested ICFRE to carry out exposure visits of farmers to other states to share their knowledge and acquire and adopt the best practices in field of farming. IFGTB, Coimbatore also organized workshop on "Sustainable Tree Farming: Wood Security, Food Security and Livelihood options" on 21 and 22 February 2013 as part of the Tree Growers Mela. More



Inaugural Session in progress



Tree Growers Mela at IFGTB, Coimbatore

than 1700 farmers from all districts of Tamil Nadu, Puducherry and Palakkad district in Kerala participated in the Tree Growers Mela.

WORLD DAY TO COMBAT DESERTIFICATION: 'DROUGHT AND WATER SCARCITY'



Inauguration of the seminar

- **ICFRE, Dehradun** organized a seminar on 17 June 2013 to commemorate **World Day to Combat Desertification**. The World Day to Combat Desertification has been observed since 1995 to promote public awareness relating to international

cooperation to combat desertification and the effects of drought, and the implementation of the United Nations Convention to Combat Desertification (UNCCD). During the technical sessions, subject experts Shri Saibal Dasgupta, DDG (Extn.), Dr. P.P. Bhojvaid, Director, FRI, Prof. S.P. Singh, Chair of Excellence, FRI Deemed University, and Ms. Neena Grewal, IFS, Addl. Director, Uttarakhand Watershed Management Directorate highlighted the importance of water conservation,

forest hydrology, watershed management and impact of climate change on water tower of Himalayas. On the occasion two flyers titled 'Rain water Harvesting and Augmentation of Water Resources for Sustainable Land and Ecosystem Management' and 'Rejuvenation of Gharats (Water mills) for Sustainable Land and Ecosystem Management in Uttarakhand' were also released. The seminar was attended by scientists and officers of ICFRE and FRI, Dehradun.

- **AFRI, Jodhpur** also celebrated World Day to Combat Desertification on 17 June 2013. On this occasion

distribution of seedlings of climbers was undertaken at Interpretation Centre. Chief Guest of the function, Dr M.S. Kumawat, Vice chancellor, Sardar Patel University of Police,

Rajasthan expressed the need of water conservation for future generations. Dr. G.S. Bhardwaj, IFS, CCF (Wild Life) presented the details of biodiversity of the area

through a presentation. Dr.T.S.Rathore, Director AFRI and Shri M.R. Baloch, IFS GC(R), also expressed their views on the theme.

DIRECT TO CONSUMER SCHEME

- In a simple ceremony on 15 March 2013, Shri Rameshwar Das, Director, IFP, Ranchi distributed incentive to six farmers for raising/maintenance of plantation under the 'Direct to Consumer' scheme of ICFRE. Under this scheme lac cultivation was introduced on *Flemingia* spp. at Jeori village in Khunti District. Initial plantation cost and other technical support was provided by the institute to farmers, and remaining inputs like irrigation etc., was carried out by the farmer himself. The scheme has provided substantial amount of return to the farmers. Shri Suto Manki, a farmer, got an additional income of Rs. 2.45 lacs from the cultivation of lac on *Flemingia* spp., that generated immense interest among other farmers for adopting the same model.
- **IFGTB, Coimbatore** has established a Mother Bed Chamber Facility in an area of 180 sq. mt for



IFGTB, Coimbatore has established a Mother Bed Chamber Facility

- vegetative multiplication of Eucalyptus, Casuarina, Ailanthus, Melia, Bamboos, Thespesia and Acacia. This facility with ten propagation trenches has provision for misting, drip irrigation and fertigation. In this facility superior clones and planting stocks will be produced and made available to clients under Direct to Consumer scheme and also as extension activity of IFGTB.
- **IWST, Bangalore** organized one day interactive -cum - information sharing meeting on "Insect pest and disease problems of sandalwood under cultivation and their management" for

sandalwood growers, farmers and forest officials on 7 March 2013 at Krishi Vigyan Kendra, Bagalkot, Agricultural University, Dharwad. This meeting had a gathering of

around 80 participants. Brochures were distributed and arrangements to provide consultation to stakeholders on as - and - when basis were put in place for providing information on cultivation and protection of Sandalwood.

- **RFRI, Jorhat** organized a training on bamboo *Agarbatti* stick making through Public Private Partnership: The first phase of the training commenced at Bamboo Composite Center on 21 January 2013.



Training on Bamboo Agarbatti Stick Making

The aim of the training programme was to train women, youths and farmers in the art of making Agarbatti stick using simple machines. In all 38 trainees from various places such as Sipahikhola, Borholla, Teok, Dhekorgora and Mohbondha participated in the training.

The institute also organized a training-cum-workshop on Bamboo Handicrafts from 14 to 20 March 2013. Fifteen participants including 3 women underwent this training. Shri Mohan Saikia, an expert in handicrafts and two of his assistants from Gramin Hasta Yodyog, Bokota, Sivasagar (Assam) were the Master Trainers. The participants were trained in manufacturing bamboo baskets, sofa, chairs, tray, pen, decorative items, hair bands, bangles and a specially designed comb (locally known as Kakoi) used by the women during Bihu festival of Assam.

- **IFB, Hyderabad** organized a training programme under Agro forestry practices of *Givotia rottleriformis* Griffith for providing livelihoods to artisans and farmers on 9 March 2013 at Nirmal (AP).
- **HFRI, Shimla** organized one day 'Exposure Visit' to demonstrate various techniques of raising



HFRI, Shimla organized 'Exposure Visit'

temperate medicinal plants at Shillaru research nursery of the Institute on 16 March 2013. Twenty farmers from Khatnol (Shimla) and Nichar (Kinnaur) villages of Himachal Pradesh took part in this programme.

- **AFRI, Jodhpur** organized a training cum workshop on 'Rainwater Harvesting and Afforestation for the Rehabilitation of Degraded Hills' at Banswara on 13 March 2013. Participants were briefed about the work along with field visit to the experimental site 'Gauapada/Chhatri pada' village, Bara Nandra Kho forest Block, Banswara.

The institute also organized a training on "Management of Insect pests and diseases in Mehndi and Isabgol" at Krishi Vigyan Kendra, Pali on 20 March 2013. Forty five farmers of Pali District were apprised about the management of insect pests of Mehndi and Isabgol.



Training on "Management of Insect pests and diseases in Mehndi and Isabgol" at AFRI, Jodhpur

ICFRE PARTICIPATION IN FOREIGN MEETINGS/ WORKSHOPS/ SYMPOSIA ETC.

Dr. V.K. Bahuguna, DG; Shri Saibal Dasgupta, DDG(Extn.), Dr. Sudhanshu Gupta, Secretary,

Shri Pankaj Agrawal, ADG(EM), Shri Sudhir Kumar, Scientist- F & Spl. Director (EM), ICFRE,

Dehradun; Dr. N. Ramarao, Scientist -G, IFB, Hyderabad; Dr. H.B. Vashishtha, Scientist-E, FRI,

Dehradun and Dr. V. Mohan, Scientist-E, IFGTB, Coimbatore visited Australia and had firsthand experience of restoration of various mineral areas and interacted with industries and Govt. officials from 2 to 10 March 2013

Dr. P.P. Bhojvaid, Director and Shri M.P. Singh, Head, Climate Change and Forest Influence Division, FRI, Dehradun visited Indonesia to participate in the Third Training Workshop "Transitions to sustainable Forest Management and Rehabilitation

in Asia-Pacific region" from 23 to 28 February 2013

Dr. N. Krishnakumar, Director; Shri T.P. Raghunath, Group Coordinator (Research); Dr. B. Gurudev Singh, Scientist-G and Dr. A. Nicodemous, Scientist-E, IFGTB, Coimbatore (TN) visited Australia to participate in a project workshop and a meeting regarding implementation of AusAID activity 60794" from 19 to 25 May 2013.

Dr. K. Palanisamy, Scientist-F, IFGTB, Coimbatore visited

Republic of Korea to attend International Symposium on "Forest Biodiversity" on 24 and 25 January 2013. He also visited Thailand to attend "World Teak Conference" from 25 to 30 March 2013

Dr. Sangeeta Gupta, Scientist-F, FRI, D.Dun visited Japan to participate in the "219th RISH Symposium" from 17 to 23 February 2013. She also visited Tanzania to participate in the "World Wood Day Event" from 17 to 27 March 2013.

WORKSHOPS/ SEMINARS/ MEETINGS ETC.

- **ICFRE (Hqs.)**, Dehradun organized the following:

A workshop on "Integrating forest based enterprise with rural development for livelihood support and economic growth" on 21 March 2013. The workshop was attended by senior officers and scientists of ICFRE and FRI, village Sarpanch from Haryana, Himachal Pradesh, Uttarakhand and other stakeholders from State Forest Departments, Van Pachayats, Gram Shabhas, NGOs and Self Help Groups working in the field of rural livelihood. The workshop highlighted

the importance of rural Institutions in the scheme of governance and the role of ICFRE in promoting the livelihoods with the involvement of rural institutions Stakeholders shared their experiences regarding use of natural resources to provide livelihood in rural areas. More than 150 participant attended the workshop.

The first meeting of the High Level Research and Extension Advisory Committee (HLREAC) was held on 21 February 2013 under the chairmanship of

ANNUAL REVIEW

ICFRE is regularly monitoring and evaluating the progress of research projects. 261 ongoing and completed research projects were reviewed and corrective measures were suggested to expedite the physical and financial achievements for achieving the objectives of the projects timely. The Annual Review Reports have been communicated to FRI, IFGTB and TFRI for taking follow up action on the observations made in the report.

Dr. Ram Prasad at ICFRE, Dehradun. The members of the committee include expert such as Dr. M.N. Jha, Dr. J.K. Rawat, Dr. T.P. Singh from IUCN, besides many senior officers and researchers from ICFRE. The committee advised on incorporation of various

subsectors of forestry like NTFP and Bio-diversity to be included in the research mandate of ICFRE.

XIV Research Policy Committee Meeting (RPC) was held on 30 and 31 May 2013 in the Board Room of ICFRE under the Chairmanship of Director General, ICFRE. Eighty six new proposals with the budget outlay of Rs. 1663.88 lakhs were submitted by the institutes for discussion and approval by the RPC. 76 new projects with current year (2013-14) budget of Rs 631.23 lakhs were approved in Four Research Thrust Areas.

The 4th meeting of National Steering Committee (NSC) of Sustainable Land and Ecosystem Management (SLEM) Project was held at Hyderabad on 4 and 5 April 2013 under the Chairpersonship of Mrs. Mira Mehrishi, Special Secretary, MoEF. The Meeting was attended

by officials from MoEF, Members of NSC, representatives from World Bank, UNDP and FAO, SLEM-TFO members, officials from Project partners SPACC and CARE, Soil and Land Use Survey, Ministry of Agriculture, Institute of Forest Biodiversity, Desertification Cell MoEF and NGOs. During the meeting Shri Saibal Dasgupta, DDG (Extn.), ICFRE, and Member Secretary-NSC presented the various actions taken with respect to the implementation of the project, status of reporting through quarterly/half yearly reports from project partners, information on baseline report from project partners, consolidation of the annual report by SLEM-TFO and collection of SLEM related best practices for up-scaling and mainstreaming. During the meeting, Dr. T.P. Singh, Project Director, SLEM mentioned that in the past one year outreach material has been developed based on the field visits to different project partners and disseminated widely.

- **FRI, Dehradun** organized the following :

A workshop on "Role of farmers in sustainable supply of wood for industries" for Farmers, Self Help Groups, Non Government Organizations and Agro based Industries in collaboration with Punjab Agricultural University (PAU), Ludhiana, Punjab Forest Department and Wood Industries on 6 and 7 March 2013 at PAU, Ludhiana. The workshop was inaugurated by Shri Surjeet Kumar Jyani, Hon'ble Minister of Forests and Labour, Punjab Government. He also released a book on information of different tree species for farmers written in Punjabi. Dr. P.P. Bhojvaid, Director, Forest Research Institute, Dehradun expressed his views about Greening Punjab Mission. Vice-chancellor, PAU, Ludhiana Dr. Baldev Singh Dillon spoke about food security and laid emphasis on drafting of National Food Security Mission by Central Government. Shri S.C. Jolly, President, Wood Technologist Association (WTA) and Shri Naresh Tiwari President, Northern India Plywood



Releasing of flyers on SLEM activities

Manufacturing Association (NIPMA) also - addressed the workshop.

The institute also organized a national workshop on "Revision of National Working Plan Code" at New Delhi on 16 May 2013. PCCF's of all the states, senior forest officers and officers from MoEF including DGF&SS attended the workshop.

A one day workshop -cum - Kisan Mela on 23 March 2013 in DAV Girls College, Yamunanagar, Haryana. The aim of this Kisan Mela was to bring together farmers, Haryana Forest Department, representatives of wood & plywood industries of Haryana and Forest Research Institute on a common platform to discuss issues & find solutions to each others' problems. The mela was inaugurated by Choudhary Akram Khan, Hon'ble, Dy. Speaker of Haryana Vidhan Sabha. On this occasion, Shri C.R. Jotriwal, Principal Chief Conservator of Forests, Haryana forest department and

Dr. P.P.Bhojvaid, Director, Forest Research Institute also expressed his views and emphasized the importance of Agroforestry in Haryana and Punjab states for better management of land and water resources.

- **IFGTB, Coimbatore** conducted the second meeting of the Task Force (1/2012) constituted by the Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA) on 29 and 30 January 2013. The task force comprised of Dr J.P. Tiwari, Former Dean, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand as Chairman and Dr. N.B. Singh, Director (Ext.), Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Dr. H.S. Ginwal, Scientist -F, FRI, Dehradun Dr. Manoj Srivastava, Registrar, PPV&FRA, New Delhi, Dr. Ravi Prakash Registrar, PPV&FRA, New Delhi and Dr. B. Gurudev Singh, Scientist G, IFGTB, Coimbatore as Members. The committee approved the proposed guidelines and recommended further follow up

action for notification of same under PPV& FRA Act 2001.

The institute also organized a national workshop on "Eucalyptus Gall Wasp - Present Status and Future Strategies" on 10 June 2013 bringing together stake holders involved in large scale eucalyptus planting like Paper industries, State Forest Departments, Forest Development Corporations, farmers besides researchers who are actively working on the gall wasp and its management.

- **IWST, Bangalore** conducted an interactive meet on advanced wood working machines for KSFIC/entrepreneurs/industrialists/ sawmill owners/ construction sector and carpenters to extend the supporting hand to the timber industry and training manpower in wood processing technologies on 8 February 2013. Sixteen personnels including one faculty from APD Industrial Training Centre, Lingarajapuram, Bangalore participated.
- **TFRI, Jabalpur** organized a workshop on

The institute also conducted another interactive meeting for builders on wood related aspects on 14 February 2013 to market the existing technology to prospective customers and builders in particular.



Second meeting of the Task Force at IFGTB, Coimbatore

Biosphere Reserve at Koni, Bilaspur on 23 March 2013, under Lead Institution project for Achanakmar-Amarkanatk biosphere reserve, Chhattisgarh, sponsored by MoEF, New Delhi. The institute also organized a national seminar "Recent Advances in Applied Statistics and its Application in Forestry" from 15 to 17 April 2013 at Jabalpur.

- **HFRI, Shimla** organized the following:

A one day Workshop-cum-Villager's Meeting at Rajgarh on 31 January 2013 in collaboration with the state forest department of Himachal Pradesh for facilitating the transfer

of technologies from laboratory to the land, for the benefit of villagers of the Demonstration Village, Lana Banka. This workshop was also attended by the frontline staff of Himachal Pradesh State Forest Department.

A one day mid-term consultative group meeting on the project titled "Studies on the Influence of Climate on Bionomics of *Pityogenes scitus* (Coleoptera: Scolytidae) in Himachal Pradesh" on 5 March 2013. Senior scientists and researchers from

various research organizations participated in this meet.

4th Meeting of Programme Advisory Committee of Ministry of Environment and Forest, Govt. of India, New Delhi for Ecosystem Research Programme (EcRP) on 6 and 7 June 2013. The meeting was organized to evaluate the ongoing All India Coordinated Research Projects under this programme. The meeting was attended by 30 eminent bureaucrats, academicians and researchers from all over the country.

TRAINING PROGRAMMES

- **FRI, Dehradun** organized the following trainings:

- Five day training on "Silviculture and Management Practices of Agroforestry Species" for front line staff of Punjab Forest Department under 'Greening Punjab Mission' from 28 January to 1 February 2013.
- Training on "Role of Forestry Sector in Disaster Management" in collaboration with NIDM, New Delhi from 28 January to 1 February 2013 for Forest Officers.



Training for Frontline Staff of Punjab Forest Department

- A one day training on "artificial cultivation of *Ganoderma lucidum*" for farmers in collaboration of NGO Bagwan, Premnagar on 6 February 2013.
- Five day Training Programme for Frontline Staff of Punjab Forest Department from 18 to 22 February 2013 under the scheme; Greening Punjab Mission. The training was inaugurated by Dr. P. P. Bhojvaid, Director, FRI, Dehradun.
- Five day training on "Planting Stock Improvement of Shisham for growth and disease resistant" from 25 February to 1 March 2013 for field functionaries of Haryana Forest Department.
- Two training programmes on 'Quality silk Production using



Training on 'Quality silk Production using Herbal Product 'Samriddhi' for silkworm farmers'

Herbal Product 'Samriddhi' for silkworm farmers' at Sahapur and Balluwala villages of Vikas Nagar tehsil (dist.-Dehra- dun) on 30 March 2013. Ninety one silkworm farmers participated in the training. Scientists from Regional Sericulture Research Station (RSRS), Sahaspur and staff of state silk board were also present in the training.

- A short term training course on Development of Green Belts from 10 to 14 June 2013. The training was attended by 8 participants from NTPC, Himachal Pradesh State Council of Science & Technology; Biotic and Environmental Resource Foundation, Bhubaneshwar; Greater NOIDA Development Authority and Uttarakhand Horticulture University.
- Five day Training cum Workshop on "Essential Oils, Perfumery & Aromatherapy" in collaboration with Fragrance and Flavour Development Centre (FFDC), Kanauj from 26 to 30 June 2013. All together 32 participants from diverse fields and different corners of

India attended the programme.

- **I F G T B , Coimbatore** organized the following trainings:
 - A training workshop on "Convention on International Trade in Endangered Species (CITES) of wild fauna and flora from 16 to 18 January 2013 for various agencies involved in CITES implementation in central and western India. Training programme mainly covered CITES: its structure, mode of working procedures and criteria for inclusion of species, role of Wildlife Crime Control Bureau (WCCB) in wildlife crime control and implementation of CITES, Indian plant and animals species including birds, fishes and insects in various CITES Appendices and other issues related to

CITES. Sixteen participants from six states attended the training.

- The Institute also conducted awareness-cum-training workshop on CITES from 19 to 21 March 2013 for various enforcement agencies involved in CITE Simplementation in northern and North Eastern India. Nineteen participants from various states attended the workshop.
- **IWST, Bangalore** conducted a training programme on "Sandal Seed and Nursery Technologies" from 18 to 22 February 2013 for 24 participants including farmers, entrepreneurs and students. The institute also conducted a short term training on "Identification of Wood and Issuing Certificate" for 15 Range Forest Officers of Karnataka Forest Department from 28 January to 1 February 2013.



Awareness Training Workshop on the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)

- **R F R I , Jorhat** organized three days training on "Shifting cultivation practices vis-a-vis livelihood opportunities in North East

India" from 25 to 27 February 2013 under SLEM- CPP. The training programme was attended by 25 participants from State Forest Department, Universities, Soil and Water Conservation Department, NGOs and progressive farmers. A field trip was organized to Kohora and Kaziranga National Park to provide exposure to various soil and water conservation measures adopted in shifting cultivation areas. Participants also visited the rubber plantation sites at Kohora.

- **RFRI, Jorhat** organized a training for craftsmen, Cane farmers, members of NGOs and for functionaries of line departments on "Cane/Rattan conservation and promotion of traditional Cane handicraft for sustainable livelihood for Dzongu Tribal Reserve Area, North Sikkim, India" from 3 to 5 June 2013.

- **IFP, Ranchi** conducted three training programmes on "Lac Cultivation through Scientific Method" one at Kolebira (Simdega Forest Division), Jharkhand on 22 January 2013 which was attended Lac growers/farmers numbering 148 and another at Office Campus of Forest Division Simdega, Jharkhand on 23 January 2013 which was attended by 84 Lac growers/ farmers and the third one from 24 to 28 June 2013 which was attended by Panchyat Mukhia, NGOs and farmers.

- **IFB Hyderabad** organized a training programme on "Climate Change Adaptability and Impact of Land Degradation on Biodiversity conservation" from 26 to 28 February 2013 under SLEM-T CPP.

The Institute organized Demonstration -cum- Training programme for farmers on "Development of Agro-forestry models in *Wrightia*

tinctoria and *Gmelina arborea* as tree species in semi-arid tropics of Andhra Pradesh" on 29 March 2013 at Ramayanapet village, Medak district, Andhra Pradesh.

- **TFRI, Jabalpur** organized a Workshop-cum-Training programme on "Recent Advances in Forestry Research and Sustainable NTFP Harvesting" from 4 to 7 March for the officials of Maharashtra State Forest Department.

The institute also organized two week training programme from 4 to 22 March 2013 for the students of B.Sc. & M.Sc. Forestry, Guru Ghasidas Vishwavidyalaya (Forestry) Bilaspur.

- **HFRI, Shimla** organized a training programme on "Application of technological and Research Interventions for Enhancement of Productivity" at Forest Training Institute, Sunder Nagar which was attended



Demonstration cum training on "Development of Agro-forestry models in *Wrightia tinctoria* and *Gmelina arborea* as tree species in semi-arid tropics of Andhra Pradesh"



Training and demonstration programme at HFRI, Shimla

by the field functionaries of the State Forest Department and progressive farmers on 20 March 2013.

The institute also organized MoEF sponsored three day training and demonstration programme on "Cultivation of Important Temperate Medicinal Plants"

for other Stakeholders at Atal Bihari Vajpayee Mountaineering and Allied Sports Institute, Manali (HP) from 22 to 24 May 2013. About 50 stakeholders comprising Pradhans of Gram Panchayats, NGOs, school principals, social activists, members of Eco-clubs,

representatives from herbal industry etc. took part in the training programme.

- **AFRI, Jodhpur** organized 19 trainings from January 2013 to March 2013 for integrated watershed management members in which 500 members were trained.

BAMBOO TECHNICAL SUPPORT GROUPS (BTSG) ICFRE TRAINING PROGRAMMES



Training on Bamboo making handicraft at FRI, Dehradun

- **FRI, Dehradun** organized a 5 day training on Bamboo handicraft for the farmers/artisans for states of Uttarakhand and Uttar Pradesh under National Bamboo Mission – BTSG-ICFRE from 15 to 19 January

2013. Another training on "Bamboo/Ringal Handicrafts for farmers/artisans of the state of Uttarakhand" was organized from 24 to 28 June 2013. Nineteen artisans from district Chamoli of Uttarakhand participated in the training.

- **TFRI, Jabalpur** organized one week specialized training programme on Bamboo Handicrafts for farmers and artisans of Madhya Pradesh and Chhattisgarh from 24 to 28 June 2013 under BTSG-

ICFRE (NBM) programme.

- **Centre for Forest based Livelihoods and Extension (CFLE), Agartala** organized a five - day training on Bamboo Handicrafts Bamboo Handicrafts for Farmers & Artisans of State of Tripura from 18 to 22 March 2013.



Training on Bamboo handicraft at TFRI, Jabalpur

RESEARCH FINDINGS

- **FRI, Dehradun** achieved the following :

Successfully fermented *Lantana camara* and Pine needle hydrolyzate into ethanol. Co-culture of microorganisms i.e. *Saccharomyces cerevisiae* and *Pichia stiptis* proved better fermentation agent as compared to the fermentation carried out

with conventional process.

Trichoderma viridae and *Coprinus* disseminates were recorded as the best cellulose producer among the ten identified white rot and brown rot fungi. These two fungi were successfully tested for deinking of waste paper.

Developed low cost technology for preparing handmade paper with good strength from Pine needle pulp and Jute

fibres from recycled waste gunny bags. Gunny bags pulp was utilized in different proportions (20% and 30%) with pine needle for making handmade paper.

- **IFGTB, Coimbatore** observed 7 isolates of bacteria, 2 species of entomopathogenic fungus, 2 species of parasites and a species of predatory bug on *Casuarina* hairy caterpillar, *Lymantria ampla*. Five

isolates of bacteria and a species of predatory bug on *Ailanthus* defoliators, *Atteva* and *Eligma* were recorded from the field. Laboratory bioassay and field bioefficacy tests exhibited that two isolates of *Bacillus thuringiensis* in liquid formulations at a concentration of 1×10^8 cells/ml were effective in control of the pests, *L. ampla* and *E. narcissus*.

- At **IWST, Bangalore** a microprocessor controlled vacuum oven for thermal modification of wood under

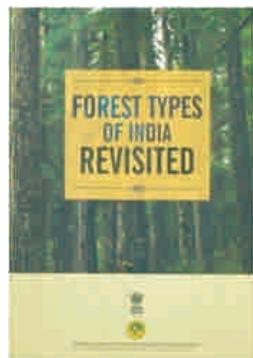
different inert environments was designed and got fabricated. One computer and LVDT-based swellometer equipment was also designed and installed for measuring the swelling profile of wood samples in real-time to evaluate their dimensional stability. Heat treatments of wood of *Acacia auriculaeformis*, rubber wood and *Eucalyptus* spp. were carried out using different temperature profiles under vacuum, nitrogen and

atmospheric pressure in air. Various physical and mechanical properties and durability against termite and fungi were studied. Heat treated wooden planks have shown improved dimensional stability, water resistivity, pleasant darker colour and enhanced durability and were demonstrated for usage as flooring tiles.

- **HFRI, Shimla** with the discovery of a new species under the genus *Nesticella*, has added one new spider family "Nesticidae" in India.

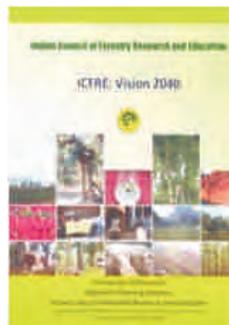
PUBLICATIONS OF ICFRE

- The composition of **Forest Types of India** have drastically changed since 1969. (around 30 mil. hect. of plantations). ICFRE has recently published a book on "Forest Types of India Revisited". This will act as a baseline for monitoring climatic changes in the forests of the country.
- "**Forestry Statistics India 2011**" was published and released by Director General of ICFRE on 22 January 2013. The book is being published bi-annually by ICFRE.
- **ICFRE: Vision 2040** was prepared by ICFRE. The Document addresses Food



Security and Livelihood support,, Biodiversity Conservation and ecological security, Forest Genetic Resource Management for Improving Productivity and Climate Change, its impact and mitigation strategies

- **ICFRE** has brought out a booklet titled "**Forestry Research ICFRE Supporting Rural & Tribal Livelihoods**". This booklet contains significant ICFRE



research highlights viz. recent technologies, products, procedures and extension

strategies, which would be of great use to the people especially, those living in the rural, forest fringe as well as forest areas, besides other stakeholders such as forest departments and industries.

IWST, Bangalore published the following :

- "Endemic Possessions of Eastern Ghats: Red Sanders (*Pterocarpus santalinus* Linn.f)".
- "*Dendrocalamus stocksii* (Munro) : A potential multipurpose bamboo species for Peninsular India.

TFRI, Jabalpur published the book entitled "An Atlas of Wood Decaying Fungi of Central India".

HFRI, Shimla published the following :

- Spiders of Western Himalaya: A Field Guide
- Rakchham Chhitkul Wildlife Sanctuary, Kinnaur, Himachal Pradesh: An Appraisal to its Floristic Wealth
- Samshitoshna Aushdhiya Podhon Ki Kheti

- Wild Medicinal Plants of Himachal Pradesh: An Assessment of their Conservation Status and Management Prioritization.
- **IFGTB, Coimbatore** published the following :
 - Eco friendly approaches for rehabilitation of mine spoils.
 - Field Guide on Insect pests of some important fast growing indigenous tree species.
 - "Tree Growth Booster (VAM Biofertilizers)" in Tamil.
 - "Pest and disease problems of *Melia dubia*

and their management" in Tamil.

- "Pest and disease problems of *Gmelina arborea* and their management" in Tamil
- "Pest and disease problems of *Pongamia pinnata* and their management" in Tamil.
- Tree rich biobooster and Tree Pal (H) brochures in Tamil and English.
- Development of windbreak agroforestry systems-windbreak with Casuarina and Plantain.
- Package of practices for

cultivation of Red and Sweet Tamarind.

- Booklet on *Ailanthus excelsa*
- "*Dendrocalamus stocksii* (Munro) : A potential multipurpose bamboo species for Peninsular India.

AFRI, Jodhpur published (in Hindi and English) the following :

- Rainwater harvesting in restoration of degraded hills and people livelihood.
- Carbon sequestration during rehabilitation of degraded hills.

SLEM-TFO Publication

- Third and Fourth issue of SLEM-CPP Newsletters-Vol.3 No(1) and Vol, 4 No(1)
- Proceedings of the Seminar on "Healthy Soil: Healthy Life "on the occasion of World Day to Combat Desertification.
- Proceedings of the Two Day Interactive Workshop on "Findings of the Baseline Study and Monitoring and Evaluation Framework"
- Flyer on "Participatory model for water harvesting and development of community pastures in Thar desert"
- Flyer on "Rehabilitation of degraded bamboo forests in Madhya Pradesh"
- Flyer on "Agarbatti preparation from degraded bamboo forests of Madhya Pradesh"
- Flyer on "Agro-biodiversity innovations for sustainable land and ecosystem management in Orissa"
- Flyer on "Sustainable land and ecosystem management in shifting cultivation areas of Nagaland"
- Annual and Semi-annual reports of SLEM-TFO



CONSULTANCIES

I. Reclamation and Rehabilitation (R&R) Plan for mining affected areas in Bellary, Chitradurga and Tumkur districts of Karnataka

The Government of Karnataka awarded consultancy for preparing

'Reclamation and Rehabilitation (R&R) Plan'



ICFRE team verifying mine site with the plans

for 166 mines in Bellary, Chitradurga and Tumkur



Scientifically mined pit of DRR mines, Chitradurga

districts of Karnataka to ICFRE. R & R Plans for 71 Mines of category A and B (category defined based on illegalities) have been prepared and submitted to the Hon'ble Supreme Court of India through the Government of Karnataka. Out of these, 67 R & R plans have been approved by the Central Empowered Committee (CEC) of Hon'ble Supreme Court.

II. Cumulative EIA Studies for Sutlej river basin in Himachal Pradesh

The Directorate of Energy, Government of Himachal Pradesh awarded the Cumulative Environmental Impact assessment (CEIA) studies of Hydro-Electric Projects in Sutlej River Basin, Himachal Pradesh to ICFRE as lead consultant. The study is being conducted in association with Alternate Hydro

Energy Centre, Indian Institute of Technology (IIT), Roorkee; Directorate of Cold Water Fisheries Research, ICAR, Bhimtal and Salim Ali Center for Ornithology and Natural History, Coimbatore.

First Interim progress report has been submitted to the project authorities on 30th March, 2013.

III. Cumulative Environmental Impact Assessment Study on Hydropower projects on river Yamuna and Tons in Uttarakhand

Consultancy Project on 'Cumulative Environmental Impact Assessment studies (CEIAS) of hydroelectric projects of River Yamuna and Tons & its Tributaries in Uttarakhand' has been awarded by the Uttarakhand Jal Vidyut

Nigam Limited (UJVNL), Government of Uttarakhand to ICFRE as lead consultant. The study is being conducted in association with Alternate Hydro Energy Centre, Indian Institute of Technology (IIT), Roorkee; Directorate of Cold Water Fisheries Research, ICAR, Bhimtal and Salim Ali Center for Ornithology and Natural History, Coimbatore.

The Project Inception Report of the study has been submitted to Government of Uttarakhand. The study is in progress.



Floristic survey at upstream of Jankichatti Hydro project on Yamuna river

RAJBHASHA NEWS

- ICFRE organized a workshop on implementation of official

language Hindi on 27 June 2013 to promote Hindi in official work. The main speaker of the workshop was Shri S. P. Chaubey, Director (Rajbhasha), MoEF, New Delhi. Shri Saibal Dasgupta, DDG (Extension), ICFRE welcomed the participants. The workshop was inaugurated by Dr. S. P. Singh, DDG (Admin), ICFRE, with the lighting of lamp. In his address he said that Hindi can be used easily in our day to day works, however, the will



Hindi Training Workshop at ICFRE, Dehradun



ICFRE organized a training on Hindi Software "Saransh"

and inclination to do so is required. Shri S.P. Chaubey, Director (Official Language), MoEF, New Delhi discussed in details the Rajbhasha rules, the procedural aspects of Parliamentary Committee on Official Language etc. Officers and Officials of ICFRE and FRI were present in the workshop.

- ICFRE organized a training on Hindi Software "Saransh" at FRI computer lab on 27 June 2013. Shri Gagan Sharma, Engineer, Aryan-E-Software was the trainer. The aim of the training was to train officials of ICFRE as master trainers for the software.

VISITS OF DIGNITARIES

- Senator Eric Abetz, Leader of the opposition in the Australia Senate visited the FRI on 19 January 2013
- Sh. Sushil Kumar Modi, Dy. Chief Minister of Bihar visited the FRI on 10 May 2013.
- Sh. T.K.A. Nair, Advisor to the Honorable Prime Minister of India visited FRI on 20 March 2013 and addressed the Officers, Scientists and students of all M.Sc. courses.
- Dr. Sanjay Kumar Mishra, Advisor, Department of Science and Technology (DST) visited FRI, Dehradun on 4 April 2013. He interacted with the officers and scientists and visited museums of FRI.
- Dr. R. K. Pachauri, Chairperson of the Intergovernmental Panel on Climate Change (IPCC) visited FRI on 26 June 2013 and addressed the

officers and scientists of ICFRE and FRI.

- Mr. Kantharaj Jude Sekar, Director General (Forests) & Special Secretary to the Govt. of India, Ministry of Environment and Forests, New Delhi visited IWST, Bangalore on 20 May 2013. He inaugurated the recently renovated Timber Testing Laboratory. He also released a book on "Endemic Possessions of Eastern Ghats: Red Sanders (*Pterocarpus santalinus* Linn.f)".
- Shri K.T. Pachaimal, Hon'ble Minister for Forests, Tamil Nadu visited the Gass Forest Museum, IFGTB, Coimbatore on 6 January



Shri K.T. Pachaimal, Hon'ble Minister for Forests, Tamil Nadu at the Gass Forest Museum, IFGTB, Coimbatore

2013 along with Shri Gautam Dey, IFS, PCCF&HoFF, Tamil Nadu Forest Department and other senior forest officials.

- Shri A.K. Verma, IFS, PCCF and Head of Forest Force, Karnataka Forest Department visited IFGTB, Coimbatore on 11 January 2013.
- Shri R. Sridharan, IAS, Principal Secretary, Forest Ecology and Environment Department, Government of Karnataka visited IFGTB on 30 March 2013.

IMPROVING FORMAL FORESTRY EDUCATION

ICFRE is providing Grants-in-Aid for infrastructural development and participation of faculties in the national seminars and students educational tours etc., to the universities for promoting forestry education in the country. The ICFRE has released Grant-in-aid to the tune of Rs. 115.00 lakhs to 10 universities during the period 1 January to 30 June 2013.

Accreditation of Universities

ICFRE encourages universities to get accreditation from ICFRE, as a new initiative of quality control in forestry education for the first time through Accreditation Board of ICFRE. The accreditation process has been completed for 18 universities and certificates issued. The proposals for

accreditation of 2 more universities have been received during the period.

Networking Forestry Education with research and extension

ICFRE has initiated a networking project on NTFP for the period 2012 to 2015. During the period 1 January to 30 June 2013 status reports of the states from 9 universities which are involved in the Networking Project on NTFP have been received.

WELFARE MEASURES FOR THE SC / ST / BACKWARD / MINORITY COMMUNITIES

- Organized interactive meeting of grievances redressal cell for SC/ST/OBC employees of ICFRE,

Dehradun on 25 March 2013.

- A training workshop on "Reservation Policy" was

organized for the officers officials of ICFRE (Hqr) and its institutes on 20 March 2013. Nineteen participants attended the training workshop.

MISCELLANEOUS

World Forestry Day- 21 June 2013

- World Forestry Day was observed by ICFRE

institutes on 21 June 2013. More than 2500 school students of Jorhat District gathered at RFRI, Jorhat on the occasion. This unique event was

jointly organized by Inspector of Schools, Jorhat District and Rain Forest Research Institute, Jorhat. The day-long celebration started with an invocation



Director RFRI addressing the gathering during World Forestry Day

song by girl students of Cheniamguri High School, Sotai, Jorhat.

- Observing the occasion, entrance ticket fee was waived at all the six museums of FRI, Dehradun for the visitors.

World Environment Day- 5 June 2013

- **FRI, Dehradun** observed World Environment Day and FRI Day on 5 June 2013. The institute organized a special exhibition showcasing the recent scientific and technical achievements useful to the general people on the occasion
- **RFRI, Jorhat** observed the day jointly with Panchawati Prakiti Mancha, an environment based NGO of Jorhat at Mahatma Gandhi College, Jorhat (Assam). A large section of people mainly school and college students, apart from Scientists, Officers and

supporting staff of RFRI participated in the celebrations. Various events were organized to mark the occasion.

- **AFRI, Jodhpur** observed World Environment Day at Department of Botany, Jai Narayan Vyas University, Jodhpur. On this occasion Chief Guest Shri A.K.Singh, IFS expressed the need for plantations and their conservation. On this occasion, Director AFRI, Dr. T. S. Rathore stated that the forest cover is still below the minimum required level and there is a need for afforestation by every person especially when the changing climate emerges as new threat for the people. Dr N.S. Shekhawat expressed the importance of day and informed about change in the carbon dioxide level and its effect. On this occasion, 76 different



IFGTB, Coimbatore conducted Painting Competition during International Day for Biological Diversity

types of seedlings were planted by guests and staff of the university and AFRI.

International Day for Biological Diversity

The International Day for Biological Diversity 2013 was observed at different regional institutes and centers of ICFRE. Ceremonial tree plantation and various other activities such as drawing and painting competition, quiz competition, slogan writing etc. on the theme, "Water and Biodiversity" were organized for school children by ICFRE institutes to mark the occasion.

PATENTS

- FRI, Dehradun filed a patent on 'A process for obtaining phytoecdysteroids from weeds of amaranthaceae for the synchronized maturation of mulberry silkworm' [Indian Patent application No. 1401/DEL/2013, dated 10.05.2013].

Shri K. Jude Sekar is the new Director General of ICFRE

Shri K. Jude Sekar, IFS (OR:1976), Director General of Forests and Special Secretary, MoEF, New Delhi assumed the additional charge of the post of the Director General, Indian Council of Forestry Research and Education (ICFRE), Dehradun in the afternoon of 4 June 2013.



HR NEWS

Name & Designation

Date

Appointments

A. Deputation :

Dr. A.M. Kandfode, C.F. IWST, Bangalore	03.01.2013
Shri Kunal Satyarthi, ADG (M&Extn.), ICFRE	17.01.2013
Shri P. Subramanyam, C.F., TFRI, Jabalpur	28.01.2013
Shri R.S. Prashantha, C.F., IFGTB, Coimbatore	30.01.2013
Shri B.M. Kalla, DCF, AFRI, Jodhpur	12.02.2013
Shri Khem Singh, DCF, TFRI, Jabalpur	18.02.2013
Shri B. Pradhan, DCF, RFRI, Jorhat	08.03.2013
Shri Vivek Khandekar, Director, BC, ICFRE	18.03.2013
Shri Rajbir Singh, C.F., FRI, Dehradun	11.04.2013
Shri Atanu Saha, DCF, CFERE, Agartala	03.05.2013
Smt. Neena Khandekar, C.F., FRI, Dehradun	13.05.2013
Shri Raja Ram Singh, DCF, TFRI, Jabalpur	20.06.2013

B. Direct :

Dr. Hilaludin, Scientist- D, ICFRE	22.02.2013
Dr. Ranjeet Singh Rawat, Scientist - C, ICFRE	23.04.2013
Dr. Ajay Kumar Saxena, Scientist- D, ICFRE	14.05.2013

Promotions:

Shri B.J. Rao, Under Secretary, IFGTB, Coimbatore	01.01.2013
Smt. N. Indira, Section Officer, IFGTB, Coimbatore	01.01.2013
Shri S.K. Baksi, Section Officer, IFP, Ranchi	01.01.2013
Smt. Sunita Juyal, Section Officer, FRI, Dehradun	02.01.2013
Shri D.V. Neware, Section Officer, TFRI, Jabalpur	02.01.2013
Shri Jawaid Ashraf, Scientist- C, FRI, Dehradun	07.01.2013
Shri R.Raja Rishi, Scientist- C, RFRI, Jorhat	07.01.2013
Dr. Vaneet Jishtu, Scientist- C, HFRI, Shimla	07.01.2013
Shri Uddam Ram, Under Secretary, IWST, Bangalore	15.01.2013
Dr. A.K. Tripathi, Scientist- F, FRI, Dehradun	24.01.2013
Dr. Sandeep Sharma, Scientist- F, HFRI, Shimla	24.01.2013
Dr. R.K. Verma, Scientist- F, HFRI, Shimla	24.01.2013
Dr. Y.C. Tripathi, Scientist- F, FRI, Dehradun	24.01.2013
Dr. U.K. Tomar, Scientist- F, AFRI, Jodhpur	24.01.2013
Dr. Rajesh Sharma, Scientist- F, HFRI, Shimla	24.01.2013
Dr. Vineet Kumar, Scientist- F, FRI, Dehradun	24.01.2013
Dr. Sudhir Singh, Scientist- F, FRI, Dehradun	24.01.2013
Dr. Harish Kumar, Scientist- F, ICFRE, Dehradun	24.01.2013
Dr. Ranjana Arya, Scientist- F, AFRI, Jodhpur	24.01.2013
Dr. V.P. Tiwari, Scientist- G, IWST, Bangalore	24.01.2013
Dr. Subhash Nautiyal, Scientist- G, FRI, Dehradun	24.01.2013
Dr. S.A. Ansari, Scientist- G, TFRI, Jabalpur	24.01.2013
Dr. I. D. Arya, Scientist- G, AFRI, Jodhpur	24.01.2013
Dr. R. Sundararaj, Scientist- G, IWST, Bangalore	24.01.2013
Dr. S. Murugesan, Scientist- G, IFGTB, Coimbatore	24.01.2013
Dr. S.K. Sharma, Scientist- G, IWST, Bangalore	24.01.2013
Dr. N.P. Mahadevan, Scientist- C, IFGTB, Coimbatore	29.01.2013
Dr. Nawa Bahar, Scientist- C, FRI, Dehradun	29.01.2013
Dr. N. Ravi, Scientist- C, RFRI, Jorhat	29.01.2013
Shri M. Baskaran, Section Officer, ICFRE, Dehradun	26.02.2013
Shri Vijay Kumar, Under Secretary, ICFRE, Dehradun	01.03.2013
Smt. Vijay Dhasmana, Under Secretary, ICFRE, Dehradun	01.03.2013

Repatriation:

Shri Loko Puni, CF, FRI, Dehradun	12.02.2013
Shri Sandeep Tripathi, DDG (Res.), ICFRE, Dehradun	15.03.2013
Dr. M.S. Rana, CMO, NFH	31.03.2013
Shri Deepak Mishra, CF, FRI, Dehradun	30.04.2013
Dr. V.K. Bahuguna, DG, ICFRE, Dehradun	04.06.2013
Shri Amit Asthana, CF, FRI, Dehradun	04.06.2013
Shri Omkar Singh, DDG (Edu), ICFRE, Dehradun	19.06.2013

Retirement:

Dr. O.K. Remadevi, Scientist- G, IWST, Bangalore	28.02.2013
Dr. C.K. Tiwari, Scientist- C, TFRI, Jabalpur	28.02.2013
Shri P.C. Verma, Research officer	31.03.2013
Shri Seena Ram Joshi, Scientist- B, FRI, Dehradun	30.04.2013
Shri Ashok Kumar, Section Officer, FRI, Dehradun	30.06.2013
Shri Vijay Kumar, PS, ICFRE, Dehradun	30.06.2013
Shri S.K. Mukharjee, PS, TFRI, Jabalpur	30.06.2013

Transfers :

	From	To
Dr. B.M. Dimri, Scientist- C	ICFRE	FRI
Shri Manish Kumar, RO	RFRI	ICFRE
Shri H.C. Sindhuverendra, Scientist- B	IFP	IWST
Shri Rajendra Kumar Meena, Scientist- B	RFRI	FRI
Dr. S.C. Biswas, Scientist- B	TFRI	RFRI
Dr. A.K. Pandey, Scientist- F	TFRI	IFP
Dr. Vikas Rana, Scientist- D	RFRI	FRI
Dr. Arunachalam Rajasekaran, Scientist- C	HFRI	IFGTB
Dr. M.V. Durai, RO. Gd. I	IFP	IFGTB
Shri Uddam Ram, Under Secretary	IWST	HFRI
Shri Dharendra Kumar, Under Secretary	TFRI	CSFER,
Shri B. Jagadeeswara Rao, Under Secretary	IFGTB	IWST
Shri M. Baskaran, Section Officer	ICFRE	IFGTB
Shri Sanjay Kumar Komra, RA- II	AFRI	TFRI

Awards

- N.Bala, Pramod Kumar, N.K. Bohra, N.K. Limba, S.R. Baloch and G. Singh were awarded the prestigious S.K. Seth Prize for the year 2010 for the best research paper entitled "Production and decomposition of litter in plantation forests of Eucalyptus camaldulensis along canal command area in Indian desert".
- AFRI Director received Pramod Goswami Award 2012 on behalf of AFRI for work related to environment. The award was given on 5 June 2013.
- Dr. N. K. Bohra, PRO, AFRI received Manak Alankaran Award 2012 for best work in PRO category. The Award was given on 26 January 2013 by Shri Ashok Gehlot, Hon'ble Chief Minister of Rajasthan.
- Kavyashree S., JRF, IWST, Bangalore was awarded Ron Concroft Award (RCA) by International Research Group on Wood Protection (IRG) for the paper presented in the 44th Annual Meeting of IRG/WP (16-20 June 2013) at Stockholm, Sweden.
- Karpaga Raja Sundari, B. and Modhumita Ghosh Dasgupta, IFGTB, Coimbatore was awarded 1st Prize for Best Poster Presentation, "Selection and validation of reference genes for real - time RT-qPCR normalization in different tissues of Eucalyptus tereticornis" at the International Conference on Structural and Functional Genomics ICSAFG 2013 at Sastra University, Tanjore on 6 and 7 January 2013.
- R. Srinivasan, V. Mohan, N. Krishnakumar and H. Basavaraju. 2013, IFGTB, Coimbatore got Best Paper Award for "Study on fungal pathogens and its management of selected fast growing indigenous tree species in Tamil Nadu" presented in "Prof. T.S. Sadasivan's Birth Centenary Celebration's - National Conference on Advances in Plant Pathology (NCAPP-2013)" organized by Centre for Advanced Studies in Botany, University of Madras, Chennai on 27 and 28 March 2013.
- Dr. Bhimi Ram, SRF, IFB, Hyderabad has got 1st prize in poster presentation for molecular analysis of micro-propagated Meliadiaplants using RAPD and ISSR markers for creating clonal fidelity at CMR college, Bangalore on 6 March 2013.

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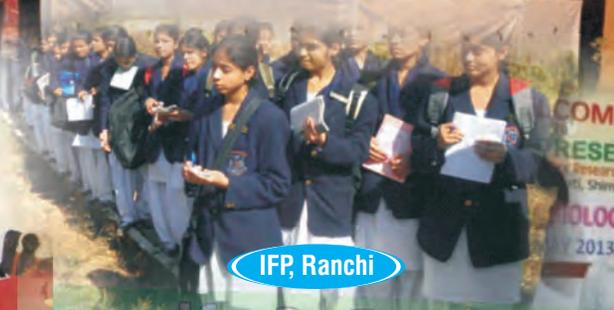
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