

# ICFRE NEWSLETTER

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Indian Council of Forestry Research and Education  
P.O. New Forest, Dehradun  
Uttarakhand, India

# ICFRE NEWSLETTER

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**All Communication and suggestions for improvement may kindly be addressed to:**

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*Patron's Column*



The Indian Council of Forestry Research and Education (ICFRE), Dehradun is engaged in carrying out research, promoting education and delivering simple innovative technologies in the forestry sector to the stakeholders.

With a view to addressing the livelihood issues of farmers, tribals and rural folks, especially the women, the Council has focused its activities on these challenges besides its regular activities. The Research Thrust Areas have been revamped, and six thrust areas and 35 themes have been identified. National Subject Matter Coordinators (NSMCs) have been appointed for each theme, and 35 State of Knowledge Reports (SKRs) on various themes of forestry describing national and international work carried out with ICFRE contributions are under preparation.

National Project Directors have been designated in all the six thrust areas to formulate the national programmes and to implement and execute them. To meet the new emerging challenges, the Council has created new divisions, namely, the Biodiversity Conservation Division, Forests and Climate Change Division and Panchayat and Human Dimensions Division.

The composition of the forest types of India was revised last in 1968. The situation in the field has changed a lot since then, and another revision has been long overdue. Therefore, the Council has constituted a Task Force to prepare a change-matrix of the forest vegetation in the country. The matrix will be completed by November 2012. This will provide a baseline for monitoring climatic changes in the forests of the country.

All India Coordinated Projects (AICPs), inter-institutional projects and networked projects have been envisaged to avoid duplication and for optimum utilization of resources.

The ICFRE has been entrusted with consultancies for the reclamation and rehabilitation (R&R) plans of mine-affected areas of the Bellary, Chitradurga and Tumkur districts of Karnataka. R&R plans prepared by the Council for 10 mines were subsequently approved by the Central Empowered Committee (CEC) of the Hon'ble Supreme Court.

The Council is actively engaged in meaningful research with deliverables for the poorest of the poor on one hand and addressing biodiversity and climate change issues on the other. I am sure the Council will be successful in providing environment-friendly income enhancement models for fringe forest dwellers, farmers and other stakeholders.

**Dr. V K. Bahuguna**  
**Director General**



### XIII RPC Meet : New Thrust Areas and Themes Identified

The XIII RPC Meeting was held at ICFRE, Dehradun from 14 to 16 February 2012. During the meeting, the research priorities of the ICFRE were revisited to make them people-centric, primarily focusing on the livelihoods of the rural tribal population, along with a focus on food and water security. Six thrust areas and 35 themes were identified during the meet. The new thrust areas are as following:

- Thrust Area 1: Managing Forests and Forests Products for Livelihood Support and Economic Growth
- Thrust Area 2: Biodiversity Conservation and Ecological Security
- Thrust Area 3: Forests and Climate Change
- Thrust Area 4: Forest Genetic Resource Management and Tree Improvement
- Thrust Area 5: Forestry Education and Policy Research to Meet Emerging Challenges
- Thrust Area 6: Forestry Extension for Taking Research to People

**National Project Directors (NPDs)** have been nominated in all six thrust areas to oversee the implementation and execution of national programmes.

- Projects in the form of **All India Coordinated Projects (AICPs), inter-institutional projects and networked projects**, where scientists of all the ICFRE institutes will work together to achieve common goals by pooling resources, have been envisaged and implemented.
- The output and inputs of national programmes are to be interlinked with each other.

As the thrust areas have been restructured to cater to the research needs of the country, the setup of the Council has also been reorganized to match the changes. The Council restructured the erstwhile Project Formulation Division into the **Panchayat and Human Dimensions Division**, headed by an officer of ADG rank, for broadening its activities by having an interface with Panchayat Raj institutions in the country with a special focus on developing a baseline of forest and non-forest land use practices. Work in this direction is going on in 275 districts of the country.

### XX ICFRE Society Meeting

The XX ICFRE Society Meeting was held on 17 May 2012 at the MoEF, New Delhi, chaired by Smt. Jayanthi Natarajan, Hon'ble Minister for Environment and Forests, Government of India. The meeting was attended by Dr. P.J. Dilip Kumar, DG (F) & SS, MoEF and Dr. V.K. Bahuguna, DG, ICFRE. Shri Saibal Dasgupta, DDG (Extension)



The XX ICFRE Society Meeting held at MoEF, New Delhi

made a presentation on the achievements of the ICFRE during the year 2011–2012 and its new initiatives and future plans. The presentation highlighted the recent initiatives of the ICFRE and was appreciated by the forum. The Audited Annual Accounts and ICFRE Annual Report for the year 2010-11 were passed by the Society during the meeting.

### Tree Growers' Mela 2012

The Institute of Forest Genetics and Tree Breeding, Coimbatore organized Tree Growers' Mela 2012 on 23 and 24 February 2012. It was inaugurated on 23 February 2012 by Smt. Jayanthi Natarajan, Hon'ble Minister of State (independent charge), Ministry of Environment and Forests, Government of India. During the function, she released publications



Smt. Jayanthi Natarajan, Hon'ble Minister of Environment and Forests inaugurating Tree Growers' Mela 2012



brought out by the IFGTB: "The Vision Document of IFGTB", "Proceedings of Tropical Forest Structure, Function and Services Workshop", "Proceedings of Casuarina Seminar", "Biofertilizers and Biomanures", guides to cultivation of *Gmelina arborea* and *Frankia, Vana Ariviyal*, a Tamil quarterly newsletter, a brochure on IFGTB in Hindi and "Yield Table for Casuarina". The Hon'ble Minister also released two products, a biofertilizer and HyACT, a pesticide, based on plant formulations and developed by the IFGTB. She distributed awards to IFGTB staff member who had rendered meritorious services. Dr. V.K. Bahuguna, IFS, DG,

ICFRE highlighted the achievements of the ICFRE in his presidential address. He highlighted the fact that the ICFRE has started orienting all its research activities towards stakeholders' needs and improving the livelihoods of people. He congratulated the IFGTB for organizing such an important event in the interest of the farming community. A workshop was also organized, on "Tree Farming for Sustainable Livelihood", on 23 and 24 February 2012 as part of the mela. The workshop was attended by about 1000 farmers besides representatives from the state forest department, wood-based industries, academic and research institutions and voluntary organizations.

### Networking of Van Vigyan Kendras with Krishi Vigyan Kendras

The initiative of the Indian Council of Forestry Research and Education (ICFRE) to establish Van Vigyan Kendras in each state/UT under the XI Five Year Plan has the objective of disseminating various technologies developed by the Council and its institutes and state forest departments (SFDs) to user groups, including farmers and forest-based industries.

ICFRE institutes have taken a leading role in the establishment of 26 Van Vigyan Kendras (VVKs) in different states of the country with the active participation of the concerned SFDs and established eight Demo Villages with the involvement of different local agencies (NGOs, etc.).

It has been proposed that the ICFRE collaborate with the Indian Council of Agricultural Research (ICAR), New Delhi to disseminate information pertaining to forestry practices and create environmental awareness. The ICAR has rich experience and a large network of over 600 Krishi Vigyan Kendras (KVKs) distributed throughout the length and breadth of the country.

A meeting was, therefore, held in Delhi between Shri Saibal Dasgupta, Deputy Director General (Extension), ICFRE, Dehradun and Dr. K.D. Kokate, Deputy Director General (Agricultural Extension), Division of Agricultural Extension, Krishi Anusandhan Bhawan, New Delhi wherein the matters related to linking VVKs with KVKs were discussed in detail.

Dr. Kokate evinced keen interest in ICFRE's proposal and stated that some institutes of ICFRE may link up with the respective KVKs in their jurisdiction for disseminating technologies and processes related to forestry-related species that offer direct benefits to farmers. Accordingly, the FRI, Dehradun and IFGTB, Coimbatore have been entrusted with the responsibility of initiating the proposed networking.

Recently, a meeting between the IFGTB, Coimbatore and the Zonal Director, KVK Zone VIII was held at the IFGTB, and the Director, IFGTB was entrusted with the assignment of preparing operational guidelines along with draft MoUs. The guidelines will be circulated to the directors of all the ICFRE institutes to carry forward the linking of VVKs with KVKs.

The initiative will provide the ICFRE and its institutes, a platform to disseminate its technologies to a larger populace, especially farmers, to provide them livelihood security by way of generating additional income.



### Direct to Consumer

A new innovative scheme, "Direct to Consumer", for quick transfer of technologies to consumers/ stakeholders on completion of research projects has been launched by the ICFRE, so that the end users can get immediate benefits from the research findings.

The ICFRE has been a pioneer in conducting research in the area of forestry. This research has led to advances in technologies and forest products, which are of immense use to various stakeholders, particularly the state forest departments, farmers, industries and populations residing around forest areas.

Apart from making technologies available to stakeholders through proactive work of the scientific community of the ICFRE, implementation is being carried out through PPP(Public Private Partnership)mode and joint collaborations.

The ADG (Recruitment Board) has been made the

Nodal Officer of the scheme. Seventeen projects from various institutes of the ICFRE have been identified for extension under the Direct to Consumer scheme.

As a step towards implementation of the scheme, the IFGTB, Coimbatore has recently signed an MoU with Biotech Consortium India Limited (BCIL) to facilitate the transfer of a technology related to isolation of nucleic acid from plant tissues. Lac cultivation practices developed by the IFP, Ranchi, have already significantly enhanced the livelihoods of villagers in Jharkhand.

Under the programme, technology developed for "Reshaping of Exudates Gums" was transferred to Anand Gond Udyog, Nagpur on 18 June 2012 by the FRI, Dehradun. A license fee of Rs.1.4 lakh was charged.

The FRI, Dehradun has also applied for a patent for the "Use of volatile effects of essential oils for the management of fungal deterioration of stored medicinal plant produce".

### Lac cultivation on a potential lac host plant, *Flemingia semialata* Roxb.

#### "An innovative Direct to Consumer scheme for improving the livelihoods of tribals"

Lac production in India is declining day- by- day due to a loss in vigour of traditional lac host trees and deforestation. To improve lac cultivation and lac production, we have to move towards intensive cultivation of lac, and for this we have to introduce and establish new fast-growing plantations of lac hosts. In this context, *Flemingia semialata* is a perennial fast-growing lac host plant. It is most suitable for intensive cultivation. *Flemingia* is a shrub of the family Leguminosae. The plant has an average height of 2-3 m with long and light green leaves. This plant species may be raised in any kind of acidic soil having a pH of 5 and an average organic matter content. *F. semialata* is a species with a good potential for being a lac host, especially for production of the *kusmi* strain lac. This species is very easy to raise, and due to its short height, lac inoculation and monitoring is easy. *Flemingia* can be raised from seeds and through vegetative propagation.

Lac cultivation on *Flemingia* is very easy and cost effective compared with others due to its simple method of propagation, the waiting period of just one year, easy manageability and high rate of lac production. In this context, the Institute of Forest Productivity, Ranchi is doing wonderful work in introduction and promotion of *Flemingia semialata* among farmers of Jharkhand. One ICFRE-funded project has already been implemented on a farmer's field by the IFP, Ranchi, while another project is going to be implemented by him under a "Direct to Consumer" scheme of the ICFRE, in which a five-hectare plantation of *Flemingia semialata* is to be established in five villages of Jharkhand. Additionally, under a UNDP-sponsored project, a total of 14,000 plants have already been established in farmers' fields in Bari village of Khunti district of Jharkhand, and lac has been inoculated. These initiatives of the ICFRE in promotion of *Flemingia semialata* for intensive cultivation under an agro-horticulture system will directly increase Indian lac production and ultimately improve farmers' livelihoods.



## Forest Types of India

India's forests were classified for the first time in 1935 by Sir H.G. Champion. The classification was revised by Champion and Seth in 1968, dividing India's forests into 16 types and about 221 sub-types. Now, about



*Zanthoxylum rhetsa* in semi evergreen forests in Great Nicobar Island

45 years later, Champion and Seth's classification continues to be used for forest management purposes while India's forests have undergone tremendous changes owing to anthropogenic and various other causes. Forest plantation work

has been taken up in about 30 million hectares in the last 50 years. In view

of this, the ICFRE constituted a task force with the primary aim of revisiting the forest types of India and assessing the changes, if any, due to climatic and other factors. The main objective of the exercise is to understand the impact of climate change on forest ecosystems and to provide field foresters a forest classification based on field management imperatives. The task force will also work for synchronizing the forest types of India with other internationally accepted systems of classification of forests. All the institutes of the ICFRE are

involved in this massive national-level exercise. The task force is headed by Dr. V.K. Bahuguna, DG, ICFRE, and Dr. M.S. Swaminath, Former Additional PCCF of Karnataka is a co-leader of the team. Other important team



5B c1a Dry Shivalik Sal Forest near Manak Sidh, Dehradun Forest Division (Uttarakhand)

members include Dr. Manoranjan Bhanja of Andhra Pradesh, Dr. G.S. Goraya of Himachal Pradesh and Dr. N. Krishnakumar, Director, IFGTB Coimbatore, as well as nodal officers from the regional institutes of the ICFRE. Shri Sandeep Tripathi, DDG (Res), ICFRE is the Member Secretary of the task force. The task force is likely to complete its work by October 2012.

*The revised classification will act as a baseline for monitoring climate-induced changes in the forests of the country.*



Field team at work: Studies on forest type of India 5B c1a Dry Shivalik Sal Forest near Manak Sidh, Dehradun Forest Division (Uttarakhand)

### All-India Coordinated Project on Climate Change

An all-encompassing study titled “**All India Coordinated Climate Change Forestry Research Programme (AICFP-INDIA)**” has been launched by the ICFRE in programme mode to improve our understanding and to assess the impacts of climate change on forest ecosystem processes and functioning and to make informed decisions on practical adaptation actions and mitigation measures.

The programme aims to fill the research gaps related to forest ecosystem processes and upscale information to the landscape level. The major components of the study have been identified, and the detailed

methodology has been worked out. Once the methodology is standardized, all the Institutes of the ICFRE and other partners will join this All-India Coordinated Programme in project mode, making the study broad based and pan-Indian. Networking with competent organizations with a strong hold over the social aspects involved in the programme will be required. Moreover, this programme will require considerable manpower, repeated data collection and capacity building of grassroots NGOs. Village-level investigators will help reduce the transaction cost and provide a social dimension to the programme.



### ICFRE conducted MCT for IFS Officers

ICFRE successfully conducted Mid-Career Training (MCT) Phase III for IFS Officers between 18 April 2012 and 2 May 2012. As part of the training, officers visited the Swedish Forest Agency and the Swedish University of Agricultural Sciences (SLU), in Sweden, and Colorado State University (CSU), Fort Collins. Fifty-four officers from across the states participated in the programme.

The ICFRE has been conducting MCT of IFS officers for Phase III in partnership with IIM-Ahmedabad, WII, Dehradun and FSI, Dehradun, besides SLU/SFA Sweden and CSU, Colorado, USA. Dr. V.K. Bahuguna, DG, ICFRE and DDG (Education) visited SLU to oversee the training facilities of the ongoing MCT, to identify possibilities of bilateral cooperation in the fields of forestry and forestry research, student and faculty exchange programmes and capacity building and to explore the possibilities of obtaining assistance from the World Bank for forestry research.



Meeting with Mr. Marcus Ohman, M/o Rural Affairs  
Stockholm, Sweden

Dr. Monika Stridsman, Director General, Swedish Forest Agency and Peter Blomback, Head, Forest Policy and Analysis and expert Hillevi Eriksson, SLU suggested that the possibilities of cooperation be explored, mainly in the areas of bio-energy and watershed management, and that the MCT programme be continued.

During the visit to Colorado State University, Fort Collins, the Vice Chancellor and officers of the university expressed the desire that the possibilities of deputing officers/scientists for a capacity building programme in the areas of student/faculty/scientist exchange, man-animal conflicts and protected area management be explored and the MCT programme be continued.

The matter has been taken up by the Director, International Cooperation, ICFRE and Dean, FRI Deemed University. Dr. Anderson, Faculty of Forest Sciences, Swedish University of Agricultural Sciences (SLU) has agreed to deepen discussions on the subject with the ICFRE. A visit to the ICFRE of a Swedish delegation is planned in the coming months.

International Coordinator, Shri Rakesh Kumar Dogra, ADG (Edu), ICFRE, Dehradun visited CSU between 14 and 28 April 2012 for internal monitoring of the MCT for IFS officers and to coordinate the programme. Shri Senthil Kumar, DCF (Admin), ICFRE, Dehradun visited Sweden from 15 to 28 April 2012.

### ICFRE Participation in Foreign Meetings/ Workshops / Symposia, etc.

**Dr. V.K. Bahuguna**, DG, ICFRE; **Dr. S.S. Negi**, Director, FRI, **Dr. V.R.R. Singh**, Head, Silviculture Division, FRI and **Dr. N.S.K. Harsh**, Head, Pathology Division, FRI, Dehradun visited Cambodia and Bangkok to work on the consultancy project "Preservation and Conservation Treatment of Trees with Active Participation of Local Stakeholders" under the ITEC Programme of MoEA, GoI from 28 January to 6 February 2012.

**Dr. T.S. Rathore**, Director, AFRI, Jodhpur visited South Sumatra to attend the second meeting of the ASEAN-India Working Group on Agriculture and Forestry from 6 to 8 March 2012.

**Shri V.R.S. Rawat**, Scientist 'E'/Addl. Director, Forest and Climate Change Division, ICFRE participated in the 36<sup>th</sup> session of SBSTA/SBI, the 15<sup>th</sup> session of AWG-LCA, the 17<sup>th</sup> session of AWG-KP and the first session of the Ad-hoc Working Group on Durban Platform for Enhanced Actions (ADP) from 14 to 25 May 2012 at the UN Climate Change negotiations in Bonn as a member of the official Indian delegation.

### Workshops/Seminars/Meetings, etc.

The third meeting of the National Steering Committee (NSC) of SLEM was held on 28 February 2012 under the chairmanship of Smt. Mira Mehrishi, Additional Secretary, MoEF at the AFRI, Jodhpur. The meeting was attended by Shri B.M.S Rathore, Joint Secretary, MoEF;



Shri Saibal Dasgupta, Deputy Director General (Extn.) and Member Secretary, NSC, representatives of UNDP and FAO, SLEM-TFO members, officials of the Desertification Cell, MoEF and one co-opted member from Action for Food Production, New Delhi.



A view of 3<sup>rd</sup> NSC meeting held at AFRI, Jodhpur

The FRI, Dehradun organized a two-day meeting on 2 and 3 March 2012 on revision of the National Working Plan Code under the chairmanship of Shri A.K. Mukherjee, DGF & SS (Retd.). The FRI, Dehradun also organized a regional workshop, "Revision of National Working Plan Code", on 28 and 29 May 2012 at Kolkata. Senior Working Plan Officers from the northeastern states attended the workshop.

The IWST, Bangalore and the FRI, Dehradun jointly organized a regional workshop on revision of the National Working Plan Code–2004 on 13 and 14 June 2012. The workshop was chaired by Shri A.K. Mukherjee, Ex-DG (Forests) & Special Secretary. Shri A.K. Verma, PCCF Karnataka, Shri S.C. Joshi, Director, IWST, Bangalore, Dr. P.P. Bhojvaid, Director, FRI, Dehradun and Regional CCF, MoEF, Gol also participated, apart from senior forest officers from southern and western states.



Regional workshop on revision of National Working Plan Code – 2004 at IWST, Bangalore

The IFGTB, Coimbatore organized a National Seminar on forest health management, FHM– 2012,

on 21 and 22 March 2012. Dr. P.J. Dilip Kumar, IFS, Director General of Forest & Special Secretary, MoEF, Gol and Dr. K. Ramasamy, Vice Chancellor, Karpagam University, Coimbatore and Member, Tamil Nadu State Planning Commission inaugurated the seminar.



National seminar on forest health management FHM- 2012 at IFGTB, Coimbatore

The TFRI, Jabalpur conducted a workshop, "Economic Valuation of Plantation Raised by NTPC, Dadri" at NTPC, Dadri on 12 January 2012; a workshop-cum-training programme on "Environment and Afforestation" for the officers of NTPC at Pench National Park from 27 to 29 February 2012 and a one-day workshop on Achanakmar-Amarkantak Biosphere Reserve at Koni, Bilaspur, Chhattisgarh on 3 March 2012.

### Training Programmes

As part of the HRD initiatives for capacity building in scientific personnel, eight training programmes (Including MCT Phase - III – Third Course) were organized in a number of training organizations of repute. A total of 163 participants (including 54 participants of MCT) were trained in seven institutions.

The ICFRE, Dehradun organized a one-week training programme for women scientists and technologists on "Climate Change and Carbon Mitigation" from 6 to 10 February 2012. The training programme was sponsored by the Department of Science and Technology, New Delhi, and 25 women scientists and technologists participated.

The ICFRE, Dehradun organized a two-day training workshop for IFS officers on "The Significance and Scope of REDD/REDD+ for Indian Forests" on 13 and 14 February 2012. The training workshop was sponsored by the Ministry of Environment and Forests, Government of India, New Delhi, and 18 IFS officers from different state forest departments participated in the training workshop.

## World Day to Combat Desertification

### Seminar on Healthy Soil: Healthy Life

On the occasion of World Day to Combat Desertification, the ICFRE, Dehradun organized a seminar on “Healthy Soil: Healthy Life” under the SLEM project on 17 June 2012 at ICFRE. Dr. V.K. Bahuguna, Director General, ICFRE inaugurated the seminar. Shri B.M.S. Rathore, Joint Secretary, Ministry of Environment and Forests, New Delhi and Shri Saibal Dasgupta, DDG (Extn.) were also present during the inauguration. Dr. Bahuguna outlined the need for improving soil fertility which is decreasing day by day, and emphasized the point that in the coming years there will be a problem of food security. Further, he stressed the need for people to be aware of the threat and pointed out that this seminar has been organized to generate awareness among a



Seminar on “Healthy Soil: Healthy Life”  
at ICFRE, Dehradun

wide range of people. Shri Saibal Dasgupta, DDG (Extn.) welcomed the participants and introduced the theme of the seminar, “Healthy Soil: Healthy Life”. Shri B.M.S Rathore, Joint Secretary, Ministry of Environment and Forests emphasized the importance of traditional knowledge and said that whatever we take from Mother Earth must be returned at the earliest. He said that the soil is a living medium and that we should care for it. He also said that the media have a vital role to play in awareness generation.

Dr. M.N. Jha, Former Head, Forests Soil and Land Reclamation Division, FRI highlighted the importance of soil and its factors in his presentation. He said that approximately 800 million tons of soil is lost every year and the world's most significant non-renewable resource, i.e. fertile soil, can be understood best through its component of good microbes, which lead to a healthy soil. He further added that the soil is one of the most neglected parts of renewable resources. He cautioned that with the loss of fertile soil, the carpet is being pulled from underneath our feet. Ms. Rashmi Bajaj made a presentation titled “Desertification to Zero Land Degradation”. At the end, a vote of thanks was delivered by Dr. Renu Singh, Project Director, SLEM. The seminar was attended by senior forest officers, scientists and researchers of ICFRE and FRI.

The TFRI, Jabalpur observed World Day to Combat Desertification at village Saliwara, Jabalpur. The programme was attended by NGOs, farmers, and scientists and officers of TFRI.

The AFRI, Jodhpur observed the day by ceremonial planting of *Santalum album* (chandan) seedlings at the AFRI campus.

**The ICFRE, Dehradun** organized a mid-career training programme for IFS officers from 12 March to 5 May 2012 at IGNFA, Dehradun. A total of 54 participants participated in the training.

**The FRI, Dehradun** organized training programmes on “Environmental Impact Assessment” from 19 to 23 March 2012; a three-day training programme on “Propagation, Cultivation and Nursery Management of *Saraca asoca* (Ashok) and Other Medicinal Species” from 22 to 24 February 2012; short training programmes for cultivation of *Ganoderma lucidum* on 22 February 2012, 29 February 2012 and 29 March

2012; a five-day training programme on “Forest Fire Management” for forest officers sponsored by NIDM, New Delhi from 27 February to 2 March 2012; a five-days' short term training on “Grading and Classification of Timber” from 27 February to 2 March 2012; a five-day specialized training programme on “Bamboo, Ringal and Grass-based Jewellery Making” from 18 to 22 June 2012; and a short-term training course for the officers of the Forest, Environment and Wildlife Management Department, Gangtok, Sikkim on “Artificial Cultivation of *Cordyceps sinensis* (Yarcha Gomba)” from 25 to 27 June 2012.



**The IFGTB, Coimbatore** organized three training programmes for field functionaries under the National Bamboo Mission from 30 January 2012 to 3 February 2012, from 5 to 9 March 2012 and from 12 to 19 March 2012. A total of about 100 participants from the Horticulture Departments of nine districts of Tamil Nadu participated in the training programmes with funding support from the Tamil Nadu Horticulture Development Agency (TANHODA), Chennai.



A training programme under “Field Functionaries Training on Bamboo” at IFGTB, Coimbatore

**The IFGTB, Coimbatore** organized a training workshop on “Public Private Partnership: Scope in Forestry” for Indian Forest Service officers sponsored by the Ministry of Environment and Forests, Gol on 21 and 22 February 2012. A total of 29 IFS officers from Assam, Andhra Pradesh, Chhattisgarh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Orissa, Punjab, Rajasthan, Sikkim and Tamil Nadu participated in the training workshop. Dr. V.K. Bahuguna, IFS, Director General, ICFRE, Dehradun delivered the valedictory address and gave away certificates and mementos to the participants.



Dr. V.K. Bahuguna, DG, ICFRE addressing a training workshop organized by IFGTB, Coimbatore

**The IFGTB, Coimbatore** organized a training programme on “Role of Micro and Macro Propagation for Large Scale Production of Quality Planting Stock with Focus on Economically Important Tree Species” on 26 and 27 March 2012 and a training programme on “Seed Handling and Nursery Technology for Biodiversity Conservation and Sustainable Production” on 16 and 17 March 2012.

**The IWST, Bangalore** organized a short-term training programme on “Field Identification of Certain Important Timbers” from 21 to 23 February 2012; a one-week training programme on “Sandalwood: Seed Handling, Nursery and Management” from 13 to 17 February 2012; two training programmes on “Bamboo Resource Conservation and Management and Sandal Cultivation” on 28 and 29 February 2012 and on 6 and 7 March 2012; and a training programme on “Nanotechnology” from 22 to 25 February 2012.

**The IFP, Ranchi** organized a one-day training programme on “Lac Cultivation through Scientific Method in Kusum Trees” for the farmers of Gutuhatu village of Khunti district under a UNDP project on 26 June 2012, where in 36 farmers participated.

**The RFRI, Jorhat** organized a field functionaries' training programme on “Bamboo Propagation and Management”, sponsored by the Bamboo Development Agency, Jorhat under the National Bamboo Mission from 17 to 20 January 2012. Farmers' training programmes on “Bamboo Propagation and Management”, sponsored by the Forest Development Agency, Dibrugarh under the National Bamboo Mission were also conducted on 23 and 24 January 2012 and on 9 and 10 February 2012.

**The RFRI, Jorhat** organized a training programme cum workshop on “Global Positioning System Application in Forest and Land Resource Survey” for officer trainees of the State Environment and Forestry Training Institute (SEFTI), Dimapur, Nagaland and Nagaland Forest Department, Govt. of Nagaland from 13 to 16 February 2012. Twenty trainees participated in the workshop.

**The RFRI, Jorhat** organized training for 100 farmers (in four batches) from Manipur on “Bamboo Propagation and Management”, sponsored by the Forest Development Agency,



GPS training for frontline staff, SEFTI, Nagaland at RFRI, Jorhat

Manipur under the National Bamboo Mission on 17 and 18 February 2012; on 5 and 6 March 2012; on 12 and 13 March 2012; and 16 and 17 March 2012.

### Van Vigyan Kendra/Demo Village

The FRI, Dehradun conducted 3 three-day training programmes during February and March 2012 at VVK, Chandigarh on “Urban Forestry, Cultivation of Medicinal Plants and Eco-Friendly Colours of Holi”; at Demo village, Shyampur on “Cultivation of Medicinal Plants, Mushroom and Its Utilization”; and at VVK, Haldwani on “Cultivation, Utilisation, Marketing Problems and Solution of Medicinal Plants”.

The IFGTB, Coimbatore organized training programmes on “Bio-Fertilizer Production and Application” and “Insect Pest and Disease Management in Forest Nurseries” for farmers and women self-help groups of Kandiyur village, Coimbatore district, Tamil Nadu on 6 January 2012.

The RFRI, Jorhat organized eight training programmes during January-April 2012 on “Bamboo, Rattan and Vermicomposting” under Van Vigyan Kendra, Assam; on sustainable management, product diversification, addition of value to bamboo and wildlife management at SEFTI, Dimapur and Sainik School Punglwa, Peren district and on capacity building/extension of forestry for JFMC members/stakeholders at VVK, Hatipara, Agartala.

A new Van Vigyan Kendra was inaugurated at Khanvel, Silvasa, UT, DNH by Shri S. K. Agarwal, CCF, Forest Department, Dadra & Nagar Haveli and Daman, UT on 24 January 2012. A two-day VVK training programme was organized at the newly inaugurated VVK from 24 to 25 January 2012. Twenty-nine participants (15 forest staff and 14 farmers) underwent the training. An MoU for the establishment of VVK/DNH had been signed between the AFRI, Jodhpur and FD/DNH in January 2012.

The HFRI, Shimla organized a one-day training programme on “Sustainable Utilization, Conservation and Cultivation of Medicinal Plants” at VVK, Sundernagar on 28 March 2012, which was attended by about 50 field functionaries of the State Forest Department, Himachal Pradesh.

ICFRE has prepared the HRD Plan for Capacity Building of Scientific Personnel for the XII Five Year Plan. The document is available at the website of ICFRE at [www.icfre.org.in](http://www.icfre.org.in).

### RESEARCH FINDINGS

- Scientists from FRI, Dehradun determined the nutritional composition of a leaf protein concentrate isolated from *Pongamia pinnata* with respect to xanthophylls, polyphenols, fats, crude fibres and ash content. They also determined the anti-nutritional factors.
- Scientists at the FRI, Dehradun concluded that three clones of *Dalbergia sissoo* demonstrate resistance against *Fusarium solani* wilt disease.
- The IFGTB, Coimbatore published a *Hyblaea puera* SXR-like protein mRNA, partial cds. sequence in National Center for Biotechnology Information (NCBI) - **JQ319890**.
- The IFGTB, Coimbatore published a *Hyblaea puera* chitin synthase mRNA, partial cds. sequence in NCBI - **JQ289043**.
- The IFGTB, Coimbatore published a partial sequence of the *L. invasa* actin gene in NCBI.
- The IFGTB, Coimbatore developed a new technique for rooting thin branch cuttings of *Bambusa bambos*.
- At IWST, Bangalore chemically modified (benzoylated and acetylated) specimens of rubber wood and the wood of the radiata pine were coated with a transparent and opaque polyurethane exterior paint. The coated panels were exposed to



outdoor weathering, and samples were periodically examined for weathering deterioration. The results indicate that the performance of the coating on modified wood was remarkably improved as compared with unmodified specimens. Chemically modified wood improved the adhesion of coatings and enhanced the performance of paints significantly.

- A solvent-free process for chemical modification of wood using acetic anhydride and butyric anhydride with iodine as a catalyst has been developed by the IWST, Bangalore. The presence of small amounts of iodine elevated the conversion rate of modification significantly. Rubber wood esterified with fatty acid chlorides exhibited good dimensional stability, and the degree of dimensional stability increased with increasing carbon chain length. Treated wood was partially effective in inducing stability against UV light irradiation. Modified wood samples exhibited very good resistance to brown rot and white rot fungi. Dispersion of ZnO nanoparticles in maleic anhydride-modified polypropylene (MAPP) enhanced the UV resistance of wood polymers, indicating the potential of nanoparticle-based wood coatings to provide protection against harmful UV radiation in outdoor environments. Properties of thermally modified rubber wood and silver oak were evaluated. Heat treatment resulted in darkening and improved the dimensional stability, although a significant loss in the static mechanical properties was observed.

- The active ingredients of *Garcinia indica* were evaluated pharmacologically for anti-diabetic properties. The fruit rind extracts (methanolic) were further subjected to column chromatography and two distinct fractions were separated using chloroform and benzene. These extracts were evaluated in the mouse model using streptozotocin-nicotinamide-induced diabetes in male Wistar rats. The results show that when 200 mg and 400 mg/kg body weight were administered to the rats, the sugar level was reduced by up to 49% and 60%, respectively. The results indicate that *Garcinia indica* has potential as an anti-diabetic drug.

- Negligible infestation was observed on timber treated with low CCA concentrations of 11.80-16.12 kg/m<sup>3</sup>. The control panels were completely infested by the fungi tested.

- Transesterification of *Pongamia pinnata* seed oil by microwave heating was carried out at different reaction temperatures (50°C, 60°C and 65°C) and microwave irradiation durations (3, 5, 7 and 10 minutes). The results of the study suggested that 0.5% sodium hydroxide and 1.0% potassium hydroxide catalyst concentrations were optimal for biodiesel production from *Pongamia pinnata* oil under microwave-irradiated conditions. The results also showed a reduction in reaction time for microwave-induced transesterification. The fuel properties of biodiesel (viscosity, flash point, cloud point, neutralization value, sulphur content, water content, etc.) were determined as per biodiesel ASTM standards.

- The TFRI, Jabalpur has developed a regression equation by cutting 20 identified tree species at NTPC, Korba from 27 to 29 February 2012.

## CONSULTANCIES

### Reclamation and Rehabilitation (R&R) Plan

The ICFRE has been awarded with a consultancy worth Rs.14 crores by the Government of Karnataka for preparing a reclamation and rehabilitation (R&R) plan for the mining-affected areas of Bellary, Chitradurga and Tumkur districts of Karnataka.



Expert team at a mining site in Bellary district, Karnataka



Dr. V K Bahuguna, DG, ICFRE inspecting the OB dump of John Mines along with EIA team in Chitradurga



A consultancy on the “Cumulative Environmental Impact Assessment Studies (CEIAS) of hydroelectric projects in Satluj Basin in Himachal Pradesh” for Rs.2.91 crores has been awarded by the Directorate of Energy, Government of Himachal Pradesh. The study will be conducted by the Indian Council of Forestry Research and Education, Dehradun as lead organization, in close association with the following three institutions:

- i. Alternate Hydro Energy Centre, Indian Institute of Technology, Roorkee;
- ii. Directorate of Cold Water Fisheries Research, Bhimtal; and
- iii. Salim Ali Centre for Ornithology and Natural History, Coimbatore.

Northern Coalfields Limited, Singrauli, Madhya Pradesh has awarded a study of baseline data for Bina Extn. and Krishnashila Open Cast Project of Northern Coalfields Limited, Singrauli for a total consultancy cost of Rs.36.74 lakhs.

Mahan Coal Limited, Madhya Pradesh has awarded a study for assessing the forest cover, density and biodiversity in Mahan Coal Block, Singrauli Forest Division, Madhya Pradesh for a total consultancy cost of Rs.29.36 lakhs.

The HFRI, Shimla has been awarded a consultancy titled “Redrafting of Catchment Area Treatment Plan for Shongtong-Karchham Hydroelectric Project” by HP Power Corporation Ltd., Shimla, with a total cost of Rs.5.60 lakhs.

## **PUBLICATIONS**

SLEM-CPP published the following:

SLEM-CPP Newsletter Vol. 2 No. 1

Proceedings of the Workshop on SLEM: Role of Forests in Dryland Areas

Annual Report for 2010-11

The TFRI, Jabalpur published the following:

Kundu, M., Schmidt, L. (Editors), 2012. *Madhuca longifolia* (Koenig) J. F. Macb. Seed Leaflet, No. 156. p-1-2. Forest & Landscape, University of Copenhagen, Denmark.

Kundu, M., Schmidt, L. (Editors), 2012. *Holoptelea integrifolia* Planch. Seed Leaflet, No. 155. p-1-2. Forest & Landscape, University of Copenhagen, Denmark.

Kundu, M., Schmidt, L. (Editors), 2012. *Embllica officinalis* Gaertn. Seed Leaflet, No. 154. p-1-2.

Forest & Landscape, University of Copenhagen, Denmark.

The HFRI, Shimla published the following pamphlets/brochures and booklets:

### **Pajja**

by Shri Jagdish Singh, Scientist-E

### **Ban ke kit**

by Dr. S. Chakrabarti, Scientist-E

### **Seabuckthorn**

by Dr. K.S. Kapoor, Scientist-F

### **Climatic Records for the Year 2009**

by Dr. K.S. Kapoor, Scientist-F, Dr. R.K. Verma, Scientist-E & Sh. Dushyant Kumar

## **STAKEHOLDERS' MEETING**

A stakeholders' meeting was held on 4 May 2012 at the ICFRE board room to define the work plan, finalize the baseline information and methodology and discuss the road map for the cumulative environment impact assessment study for the Satluj Basin. The meeting was attended by officials from the ICFRE team from ICFRE Headquarters; Himalayan Forest Research Institute, Shimla; Himachal Pradesh Power Corporation Ltd., Shimla; Directorate of Energy, Govt. of Himachal Pradesh; Alternate Hydro Energy Centre, Indian Institute of Technology, Roorkee; Directorate of Cold Water Fisheries Research, Bhimtal; Salim Ali Center for Ornithology and Natural History, Coimbatore; and domain experts.

The IFGTB, Coimbatore organized a stakeholders' meeting on validation of descriptors of casuarinas and



### **Stakeholders' meeting on Validation of Descriptors of Casuarinas and Eucalyptus at IFGTB, Coimbatore**

Eucalyptus on 15 June 2012 with the funding support of the PPVFR Authority to complete the validation process of the draft DUS guidelines.



Dr. N. Krishnakumar, Director, IFGTB, Coimbatore presented the highlights of the work done by the IFGTB towards the development of guidelines for the registration of clones and varieties for the first time in forestry species. He also explained to the stakeholders the initiatives of the ICFRE/IFGTB in documenting and conserving forest genetic resources, in particular the establishment of FGRMN under the ICFRE.

### VISITS OF DIGNITARIES

A team of the Planning Commission led by Mr. Ranjan Chatterjee, Senior Advisor and Dr. Biswajeet Banerjee, Director (Forestry) visited ICFRE and held an



**Dr. V.K. Bahuguna, DG, ICFRE with the team from the Planning Commission at ICFRE**

interactive meeting with the senior officials and scientists of ICFRE and FRI on 19 January 2012. Welcoming the Planning Commission team, Dr. V.K. Bahuguna, DG, ICFRE briefed them about the new initiatives undertaken in ICFRE and requested the support of the Planning Commission for these initiatives. A presentation was also made highlighting the functioning and significant achievements of the Council. Dr. V.K. Bahuguna emphasized the point that while the budget of the ICFRE has remained almost static for the last few years, the expenditure on salary has increased significantly after the implementation of the 6th Pay Commission recommendation, leaving only a meagre amount for research activities. The DG, ICFRE highlighted the importance of the release of superior quality clones of different species to farmers to address their livelihood issues and apprised the team about the success of the Planning Commission-funded project to encourage community participation in Bihar and about the proposal to take up Phase II of the project. He also said that the ICFRE planned to take up a project for

bamboos. Dr. Bahuguna also informed the Planning Commission team that the South Asia Network of Forestry Research Institutes needs to be operationalized, for which the initial seed money is required. Mr. Ranjan Chatterjee and Dr. Biswajeet Banerjee, while assuring full support to the ICFRE from the Planning Commission, suggested that the success of the Bihar project be replicated in other areas, for which projects could be submitted to the Planning Commission. Mr. Chatterjee reiterated that we should make forest management people-centric and that more efforts should be made for the transfer of technologies from the lab to the land as extension activities are grossly lacking. Mr. Chatterjee highly appreciated the wonderful blend of forest officers and scientists in the Council and suggested that redeployment of human resources should be resorted to as per the priorities. Mr. Chatterjee, while appreciating the new initiatives of the ICFRE, suggested that studies for assessing the impact of new policy initiatives also be taken up.

Dr. V.K. Bahuguna, Director General, ICFRE, Dehradun visited the IFP, Ranchi from 31 May to 3 June 2012. During his visit, the DG inspected and visited the research centres and project sites of the Institute.

Dr. Bahuguna met Shri Arjun Munda, Chief Minister, Jharkhand during his four days' visit to Jharkhand. He briefed the Chief Minister about various ICFRE initiatives on forestry research, livelihood promotion programmes, sustainable management of NTFPs and scientific cultivation of lac in the state of Jharkhand. He apprised the CM regarding capacity building and livelihood improvement programmes being implemented under the UNDP project on community-based natural resource management. He also laid the foundation stone of the Interpretation Centre of the Lead Garden on 31 May 2012 during the visit.



**DG, ICFRE inaugurating Interpretation Centre of Lead Garden at IFP, Ranchi**



Dr. Albert Nikiema, Forestry Officer (Forest Genetic Resources) from FAO visited the IFGTB, Coimbatore on 28 February 2012.

The Hon'ble Chief Minister of Assam Shri Tarun Gogoi visited IWST, Bangalore on 1 June 2012 and interacted with all the officers and scientists to understand the research activities being taken up by the Institute. Shri S.C. Joshi, Director, IWST welcomed the Hon'ble Chief Minister and made a brief presentation about the various activities of the Institute. Shri Tarun Gogoi, Hon'ble Chief Minister of Assam addressed the officers of IWST Bangalore and requested them to develop technologies suitable



**Hon'ble Chief Minister of Assam Shri Tarun Gogoi visited IWST, Bangalore**

for a "green economy". He appreciated the achievements of the scientists of IWST and stressed the need for a greater collaboration with the northeastern states.

A four-member delegation from the SAARC Forestry Centre visited the Indian Council of Forestry Research and Education (ICFRE) on 1 March 2012. The delegation consisted of Dr. Sangay Wangchuk, Director, SAARC Forestry Centre, Shri A.K. Lal, Head, Shri Passang Norbu, SFM specialist and Shri Chado Tshering, PFM specialist. The delegation met Dr. V.K. Bahuguna, DG, ICFRE and held discussions on identification of collaborative research in natural resource management on important issues including research on impacts, adaptation and vulnerability of Himalayan ecosystems, sustainable management of high-altitude NTFPs, transfer of established technologies and establishment of institutional linkages with institutions in SAARC nations. Bringing out a special issue of "Indian Forester" focusing on issues concerning management of natural resources in SAARC countries was also discussed.

The special issue will be brought out in December, coinciding with SAARC Charter Day. Further, a three - member delegation, including Dr. Sangay Wangchuk, Shri Passang Norbu and Shri Chado Tshering, from SAARC Forestry Centre, Taba, Thimpu, Bhutan visited the HFRI, Shimla and held detailed discussions on various research issues of common interest with the officers and scientists of the Institute on 5 March 2012.

The Governor of Uttarakhand, His Excellency Shri Aziz Qureshi visited FRI, Dehradun on 22 May 2012 and graced the "International Biodiversity Day" celebrations as the chief guest.

The Third Sub-Committee of Committee of Parliament on Official Language including Hon'ble Members of Parliament Prof. Alka Balram Kshatriya, Shri Hukumdev Narayan Yadav, Dr. Raghuvansh Prashad Singh and Dr. Ram Prakash visited FRI, Dehradun on 29 May 2012 and reviewed the progress in implementation of Rajbhasha Hindi in the FRI and ICFRE, Dehradun.

A Parliamentary Committee for implementation of Rajbhasha Hindi visited the TFRI, Jabalpur on 29 May 2012 and evaluated the progress in the use of Hindi in day-to-day administrative work of the TFRI, Jabalpur.

Hon'ble Members of Parliament Shri Anil Madhav, Shri S.P.Y. Reddy and Shri Mahendra Singh Chauhan visited the FRI, Dehradun on 13 June 2012.

Dr. D.N. Tiwari, Ex. DG-ICFRE and Former Member, Planning Commission visited the TFRI and addressed the scientists of the Institute on 19 May 2012.

## **MISCELLANEOUS**

### **Inauguration of Woods Museum-cum- Interpretation Centre at IWST, Bangalore**

The Woods Museum-cum-Interpretation Centre(WMIC) was inaugurated at IWST, Bangalore



**Inauguration of Woods Museum - cum - Interpretation Centre at IWST, Bangalore**



on 4 January 2012 by Dr P.J. Dilip Kumar, IFS, Director General (Forests) & Special Secretary to Government of India in the presence of Dr. V.K. Bahuguna, IFS, Director General, Indian Council of Forestry Research and Education, Dehradun.

**Bihar Project:** A poplar-based agroforestry programme, *Samudai Adharit Samanvit Van Prabandhan Evam Sanrakhan Yojana (SASVPSY)*, was launched by the ICFRE in June 2005 in Vaishali district in Bihar in collaboration with the State Forest Department, Bihar with a total outlay of Rs.51.00 crores. Till date, 65.45 lakh Entire Trans Planting (ETP) of poplar have been distributed to 1040 farmers and planted in 1864 acres of fields, and more than 81 lakh plants of other forestry species have also been distributed to farmers.

### Grants-in-Aid

The ICFRE has been giving Grants-in-Aid to various forestry research universities/ institutions under agricultural universities offering undergraduate and postgraduate courses to strengthen the infrastructure for giving an impetus to forestry education in the country. During the period from April 2011 to March 2012, **Rs.100.00 lakh** was released to 10 universities as Grants-in-Aid.

### Policy Research

A study on “**Synergy in Various Institutions in Implementation of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006 to Ensure Improved Livelihood Support as also Sustainable Forest Management**” was completed through Enviro Legal Defense Firm, Noida in the financial year 2011-12. A meeting of the Evaluation Committee of the ICFRE to evaluate the report was held on 23 January 2012.

A study on “**Analyzing the Linkage between Poverty Alleviation and Forestry Programme**” was completed in project mode in the financial year 2011-12.

The ICFRE organized the quarterly meeting of the Grievances Redressal Cell of ICFRE (Hqrs.) for the quarter from January to March 2012 on 29 March 2012 at the ICFRE, Dehradun. It also organized a two-day training programme for officials of the ICFRE (Hqrs.) and FRI, Dehradun on “Reservation Policy” on 27 and 28 March 2012 at the FRI, Dehradun.

The ICFRE organized an HRD Committee meeting on 7 January 2012 at ICFRE and revised the old HRD Plan for Capacity Building of Scientific/Managerial Cadre/Research Support Staff.

The ICFRE has been entrusted with the execution of a project on “Enhancing Capacity for Alignment of National Action Programme to 10 year Strategy to UNCCD and for National Reporting to UNCCD Secretariat” by the MoEF, GoI. The aforesaid project activity in the ICFRE is being executed by the Biodiversity Conservation Division, ICFRE.

### Annual Review

Annual review and evaluation of all the ongoing research projects of the ICFRE institutes is a regular activity. It suggests corrective measures for timely completion of the projects and achievement of the objectives perfectly. The approved schedule for reviewing the progress of ongoing research projects during 2012 is as follows:

IFP, Ranchi	2 - 4 July 2012
HFRI, Shimla	23 - 26 July 2012
FRI, Dehradun	6 - 9 August 2012
IFGTB, Coimbatore	21 - 24 August 2012
IWST, Bangalore	27 - 29 August 2012
TFRI, Jabalpur	18 - September 2012
AFRI, Jodhpur	24 - 27 September 2012
RFRI, Jorhat	9 - 12 October 2012

### Annual Sports Meet

Dr. V.K. Bahuguna, IFS, DG, ICFRE inaugurated the five-day Annual Sports Meet of FRI University on 22 March 2012. The four houses of the university, i.e., Teak, Pine, Sal and Sandalwood, took part in indoor and outdoor games. Dr. S.S. Negi, IFS, Director, FRI was the chief guest for the closing ceremony on 26 March 2012.



Annual Sports Meet of FRI University



### World Environment Day

Dr. V.K. Bahuguna, Director General, Indian Council of Forestry Research and Education and Chancellor, Forest Research Institute (Deemed) University delivered a lecture on “Changing Himalayan Environment and Impact of Global Warming” on the occasion of World Environment Day on 5 June 2012 at Wadia Institute of Himalayan Geology, Dehradun. He stressed the theme that the Himalaya are a legacy for India to preserve and that joint actions of the Union Government, Himalayan states, research institutions, local communities and non-governmental organizations are needed to preserve the Himalaya from climatic stresses.



Dr. V.K.. Bahuguna, DG, ICFRE delivering a talk at Wadia Institute of Himalayan Geology, Dehradun

World Environment Day was observed by the ICFRE institutes on 5 June 2012. On the occasion, the FRI, Dehradun launched a campaign against the use of polythene. Speaking on the occasion, Dr. P.P. Bhojvaid, Director, FRI, Dehradun said that there was a need to bring about a change in the working culture to balance the environment and development. The RFRI, Jorhat observed the day with a plantation programme.



World Environment Day at RFRI, Jorhat

The AFRI, Jodhpur organized a painting competition for children on the theme “Our Environment” on the occasion, a ceremonial plantation was carried out by

the Director and other officials of the AFRI, Jodhpur.

### International Biodiversity Day

The AFRI, Jodhpur observed International Biodiversity Day on 22 May 2012 in collaboration with the State Forest Department, Rajasthan, and Jai Narayan Vyas University, Jodhpur. On this occasion, 50 seedlings of various tree species and medicinal plants were planted. The chief guest of the programme was Prof. B.S. Rajpurohit, Vice Chancellor of Jai Narayan Vyas University, Jodhpur, and the guests of honour were Shri A.K. Singh, CCF, Jodhpur and Shri I. Singh, CCF/Wildlife Jodhpur. The Director of AFRI, Dr. T.S. Rathore emphasized the importance of the biodiversity in the Thar Desert and its uses.

### World Forestry Day

The FRI, Dehradun observed World Forestry Day on 21 March 2012. An exhibition was organized at the FRI Information Centre. Posters and models depicting the achievements of the Institute were displayed.

### National Technology Day

The FRI, Dehradun observed National Technology Day on 11 May 2012. A special exhibition was set up in front of the Information Centre of the Institute. Exhibits showcasing the recent scientific and technical achievements useful to the general people were exhibited. The exhibition was inaugurated by Dr. P.P. Bhojvaid, Director, FRI.

### Awards

The presentation entitled “Structural Analysis of *Tinospora sinensis* Polysaccharide”, made by Vineet Kumar, Y.C. Tripathi and Shipra Nagar, and the presentation “Effect of *Cassia glauca* Leaf Extract on Gentamycin Sulphate Induced Nephrotoxicity in Rats”, made by M. Redhu, M. Singh, V.K. Varshney and Y.C. Tripathi, were awarded the Best Poster Presentation Award during the Indo-US workshop on “Green Chemistry for Environment & Sustainable Development” organized by the Indo-US Science and Technology Forum in collaboration with the Department of Chemistry, HNB Garhwal University, Srinagar (Garhwal), Uttarakhand from 11 to 13 March 2012.



## Rajbhasha News

The ICFRE organized a training workshop on Rajbhasha Hindi on 10 May 2012 in the ICFRE auditorium. The workshop was addressed by Shri S.P. Choubey, Director (Rajbhasha), MoEF and



Dr. V.K. Bahuguna, DG, ICFRE addressing the workshop

Dr. Bhagwan Das Pateriya, Vice Chairman, Kendriya Sachivalaya Hindi Parishad, New Delhi.

Dr. V.K. Bahuguna, DG, ICFRE inaugurated the workshop. Dr. P.P. Bhojvaid, Director, FRI, Dehradun, Dr. S.P. Singh, DDG (Admin.), Shri Saibal Dasgupta, DDG (Extension),

Shri Omkar Singh, DDG (Education), Shri Sandeep Tripathi, DDG (Research), Dr. N.S. Bisht, Director (International Cooperation), ICFRE, Dehradun and over 200 officers, scientists and staff members of the ICFRE and FRI attended the workshop.

The ICFRE organized a Hindi Kavya Goshthi on 22 May 2012 in the ICFRE auditorium. Nine renowned Hindi poets of national repute were invited to recite poems in the goshthi. Dr. V.K. Bahuguna, DG, ICFRE inaugurated the *Kavya Goshthi* by lighting a lamp. The Director, FRI, Dehradun, all DDGs and Senior Officers of the FRI and ICFRE and over 200 officers, scientists and staff members of the ICFRE and FRI enjoyed the goshthi.



Hindi Kavya Goshthi at ICFRE, Dehradun

## Future Course of Action

### Vision Document of ICFRE

The ICFRE vision document of the next 15-20 years for programme-based research is being prepared for proper manpower utilization and to cater to future research needs. Inputs of six NPDs are being incorporated in the vision document, which will highlight the scope for generation of livelihood, future prospects and challenges and the role of ICFRE.

### Forest Biodiversity in India

The ICFRE is in the process of publishing a coffee table book on "Forest Biodiversity in India". The book will mainly capture the essence of biodiversity in the country based on diverse forest types, biodiversity hotspots, floral and faunal diversity, insects and butterflies, benefits and provisioning services and efforts to conserve biodiversity in India. It will also highlight the threats and challenges faced by India's biodiversity, including habitat destruction, climate change and invasive species in the country. Various conservation steps taken for controlling the depletion of biodiversity through the protected areas network and conservation sites in the country will also be discussed.

### State of Knowledge Reports

**Thirty-five State of Knowledge Reports** on various themes of forestry portraying national and international research with contributions of the ICFRE are being prepared.

### Interface with Panchayat Raj Institutions

The ICFRE is broadening its activities by having an interface with Panchayat Raj Institutions in the country with a special focus on developing baseline information on the forest and non-forest land use practices through the Panchayat and Human Dimensions Division.

### International Poplar Commission (IPC)

In recognition of the significant place of poplars and willows in the livelihood and economy of the people of India as well as the pioneering work done by the ICFRE, the FAO and the International Poplar Commission (IPC), a technical statutory body of FAO, have agreed to hold the 24 session of the IPC and 46 meeting of its executive committee in Dehradun in October 2012. It is for the first time that such a prestigious event of the IPC is to be held in India. For the information of participants, a website has been launched by the ICFRE (<http://ipc2012.icfre.gov.in>), where online registration may also be done. The link is also available through the FAO website, <http://www.fao.org/forestry/ipc>.

## HR NEWS

Name & Designation	Date	
<b>Appointments:</b>		
Ms. Tresa Dominic, Scientist-B, TFRI, Jabalpur	03.2.2012	
<b>Promotion:</b>		
Shri B.D. Joshi, Deputy Secretary, ICFRE, Dehradun	18.1.2012	
Shri R.S. Sharma, Under Secretary, ICFRE, Dehradun	18.1.2012	
Smt. Satya Ghai, Section Officer, FRI, Dehradun	18.1.2012	
Shri Prem Lal, Section Officer, ICFRE, Dehradun	18.1.2012	
Shri V.K. Sharma, Section Officer, ICFRE, Dehradun	18.1.2012	
Shri S.S. Chauhan, Section Officer, ICFRE, Dehradun	18.1.2012	
Shri A.K. Khanna, Section Officer, FRI, Dehradun	18.1.2012	
Smt. M. Sujata, Research Officer, IWST, Bangalore	31.1.2012	
Shri P.K. Hazarika, Research Officer, RFRI, Jorhat	31.1.2012	
Shri A. Ahmed, Research Officer, RFRI, Jorhat	31.1.2012	
Shri G.S. Sharma, Research Officer, RFRI, Jorhat	31.1.2012	
Smt. Mamta Meshram, Research Officer, TFRI, Jabalpur	03.2.2012	
Smt. Shalini Bhowte, Research Officer, TFRI, Jabalpur	03.2.2012	
Shri S.R. Baloch, Scientist-B, AFRI, Jodhpur	06.2.2012	
Shri P.K. Kuckereti, Research Officer, FRI, Dehradun	10.2.2012	
Shri S.K. Rajpur, Research Officer, AFRI, Jodhpur	12.3.2012	
Shri V. Subramanian, Research Officer, IFGTB, Coimbatore	12.3.2012	
Shri Chaman Lal, Under Secretary, FRI, Dehradun	23.3.2012	
Shri A.K. Gulati, Section Officer, FRI, Dehradun	26.3.2012	
Smt. B.J. Kaantimathi, Section Officer, IWST, Bangalore	27.3.2012	
<b>Repatriation:</b>		
Shri M.S. Garbyal, DDG (Admin.), ICFRE, Dehradun	10.1.2012	
Shri Mohinder Pal, Director, HFRI, Shimla	27.1.2012	
Shri Suneesh Buxy, DCF, CFRHRD, Chhindwara	31.3.2012	
Shri Ashok Kumar, CF, AFRI, Jodhpur	03.5.2012	
Dr. S.S. Negi, Director, FRI, Dehradun	02.5.2012	
Dr. D.S. Pangety, CMO, NFH, FRI, Dehradun	12.5.2012	
Shri R.S.C. Jayraj, CF, IFGTB, Coimbatore	31.5.2012	
Shri Sarvesh Singhal, CF, FRI, Dehradun	31.5.2012	
Dr. N.K. Vasu, Director, RFRI, Jorhat	31.5.2012	
<b>Retirement:</b>		
Dr. M.S. Negi, Scientist-G, FRI, Dehradun	01.1.2012	
Shri A.K. Khanna, Section Officer, FRI, Dehradun	29.2.2012	
Shri S.S. Jain, Scientist-E, ICFRE, Dehradun	30.4.2012	
Dr. A.K. Mandal, Scientist-G, IFP, Ranchi	31.5.2012	
<b>Deputation:</b>		
Dr. V.R.R. Singh, Director, HFRI, Shimla	27.1.2012	
Dr. Alakjot Kaur, Sr. Medical Officer, FRI, Dehradun	01.2.2012	
Dr. Nikesh Keshao Bawane, Medical Officer, TFRI, Jabalpur	07.2.2012	
Dr. U. Prakasham, Director, TFRI, Jabalpur	09.2.2012	
Shri Saibal Dasgupta, DDG (Extn.), ICFRE, Dehradun	14.2.2012	
Shri Deepak Mishra, CF, FRI, Dehradun	23.2.2012	
Shri Gopal Singh Thakur, DCF, HFRI, Shimla	01.3.2012	
Shri Pradeep Bhardwaj, DCF, HFRI, Shimla	05.3.2012	
Dr. N.S. Bisht, Director (IC), ICFRE, Dehradun	16.3.2012	
Dr. T.P. Singh, ADG (FCC), ICFRE, Dehradun	26.3.2012	
Shri Manoj Kumar Shukla, Director, CSFER, Allahabad	29.3.2012	
Ms. Kamal Preet, ADG (RB), ICFRE, Dehradun	04.4.2012	
Dr. S.P. Singh, DDG (Admin.), ICFRE, Dehradun	23.4.2012	
Dr. P.P. Bhojvaid, Director, FRI, Dehradun	02.5.2012	
<b>Transfers:</b>		
	From	To
Shri Ram Bahadur Singh, RO	HFRI, Shimla	FRI, Dehradun
Dr. Ashwani Tapwal, Scientist-C	FRI, Jorhat	FRI, Dehradun
Dr. B.N. Diwakara, Scientist-C	IFP, Ranchi	IWST, Bangalore
Shri K. Rajagopal, RO	FRI, Dehradun	IFGTB, Coimbatore
Shri Sharad Tiwari, Scientist-E	TFRI, Jabalpur	IFP, Ranchi
Shri Aditya Kumar, Scientist-B	RFRI, Jorhat	IFP, Ranchi

**Promotions under FCS**

**From Scientist 'B' to Scientist 'C'**  
Shri Subhash Chandra, TFRI, Jabalpur

**From Scientist 'D' to Scientist 'E'**  
Shri C. Bhuvaneshwaran, IFGTB, Coimbatore  
Dr. A.N. Singh, ICFRE, Dehradun  
Dr. Sanjay Singh, IFP, Ranchi  
Smt. H.C. Nagaveni, IWST, Bangalore  
Dr. Manisha Thapliyal, FRI, Dehradun  
Dr. K.R. Sasidharan, IFGTB, Coimbatore  
Dr. Y.B. Srivivasa, IWST, Bangalore

**From Scientist 'E' to Scientist 'F'**  
Dr. Amit Pandey, FRI, Dehradun  
Dr. V. Mohan, IFGTB, Coimbatore  
Dr. R. Yasodha, IFGTB, Coimbatore  
Dr. S. Nath, IFP, Ranchi  
Dr. Syam Viswanathan, IWST, Bangalore  
Dr. Dinesh Kumar, FRI, Dehradun  
Dr. Dhruv Kumar Mishra, AFRI, Jodhpur  
Dr. Pankaj Kumar Aggarwal, IWST, Bangalore  
Shri Ranjeet Singh, HFRI, Shimla  
Dr. Sumit Chakrabarti, HFRI, Shimla

**From Scientist 'F' to Scientist 'G'**  
Dr. B. Gurudev Singh, IFGTB, Coimbatore  
Dr. N. Rama Rao, IWST, Bangalore  
Dr. N.S.K. Harsh, FRI, Dehradun  
Dr. T.S. Rathore, AFRI, Jodhpur  
Dr. Vimal Kothiyal, FRI, Dehradun  
Dr. Krishna Kumar Pandey, IWST, Bangalore  
Dr. (Smt.) O.K. Rema Devi, IWST, Bangalore

- With a view to getting focused outcomes, the Director (P&IC) was re-designated as the Director, International Cooperation (IC) and the ADG, Policy Networking and Local Governance (PNLG) was re-designated as the ADG, Panchayat & Human Dimensions (P&HD) from 2 May 2012.
- The Council has also created two new divisions by bifurcating the BCC Division as follows:
  1. **The Biodiversity Conservation Division** under the Directorate of Extension to address Thrust Area 2 – Biodiversity Conservation and Ecological Security.
  2. **The Forests and Climate Change Division** under the Directorate of Research to get focused outcomes in Thrust Area 3 – Forests and Climate Change.
- Eight FRI University students qualified for the Indian Forest Service and will join the Indira Gandhi National Forest Academy (IGNFA) in September 2012.



- Twelve companies, including Sarda Plywood, Rushil Group, Reliance Foundation, RR Industries, Foundation for Ecological Security, Century Plyboards, Megha Agro Plantation and Grass Roots Research & Creation India (P) Ltd., visited FRI University for campus selections. Thirty-five students were selected.

**OBITUARY**

The ICFRE family deeply condoles the sudden and sad demise of Shri Santram, Office Attendant of TFRI, Jabalpur on 27 January 2012 and prays for the peace of the departed soul.

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- The articles in this newsletter do not necessarily reflect the views of the editorial board.
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Establishment of new *F. semialata* plantation



Growing *F. semialata* plantation



*F. semialata* plantation ready to lac inoculation



Brood lac inoculation on *F. semialata* plantation



Growing lac on *F. semialata* plant



Matured lac on *F. semialata* plant

**Lac cultivation on a potential lac host plant *Flemingia semialata* Roxb.**

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