



Indian Council of
Forestry Research
and Education

ICFRE
NEWSLETTER
Vol. 17 No. 6

November 2017

CONTENT

Pg. No.	Title
01 ➔	Significant Research Findings
02 ➔	Consultancies
02 ➔	Visit Abroad
03 ➔	Training Programmes
06 ➔	Workshops/ Seminars/ Meetings
06 ➔	Rajbhasha News
06 ➔	Awareness and Demonstration Programmes
06 ➔	Awards
07 ➔	Tree Growers Mela/ Kisan Mela
07 ➔	Miscellaneous
08 ➔	Popularizing Forestry through All India Radio/
08 ➔	Information Technology Initiatives
08 ➔	Other Important Activities
08 ➔	Activities under Van Vigyan Kendras and Demo Villages
08 ➔	HR News

Significant Research Findings

Forest Research Institute (FRI), Dehradun

- Chemical hydrolysis of bagasse for the maximum extraction of reducing sugars has been optimized for bio-ethanol keeping the integrity of the pre-extracted residue for paper making.
- Hemicellulose was isolated from *Pinus roxburghii* needles using different extraction protocols. The products have high utility for the benefit of mankind.
- Sample surveys were carried out in 16 transects in 7 forest types. Insect specimens and data were collected on butterflies & base line parameters. Vegetation survey & herbarium of trees & shrubs of two forest sub-types were carried out along the transects. GIS maps of the 7 different forest types of the study area (Kedarnath Musk Deer Reserve) are prepared. Life history of two species have been studied in the laboratory.
- Insect pests of Ban, Moru & Kharsu oak were collected from the field in Kedarnath WL Sanctuary, Chamoli & Rudraprayag districts of Uttarakhand. Rearing experiments on life cycle of 9 insects (5 species of Lepidoptera) were carried out on Ban oak & 1 species of Cerambycidae borer (Coleoptera) on Moru Oak, along with 3 species of parasitoids in the laboratory. Rearing of pests is in progress in the laboratory.

- Digitization of whole drawers of each cabinet: 600 drawers of 30 cabinets were photographed. Photoshop editing of photographs of whole drawers was completed. In the process of digitization of small insects; 100 species were digitized with Automontage 3-D imaging system mounted on SMZ-16 Stereo zoom Microscope. Record of the photographed insect was noted and insect marked for future reference. National Forest Insect Collection (NFIC) Database is also being updated.
- Field Surveys were conducted for Post fire Impact in Tons Forest Division and Upper Yamuna Forest Division of Yamuna Circle. 57 Soil samples and 36 Bulk Density soil samples were collected for laboratory analysis. Nine Soil samples were analysed for Phosphorus and 14 soil samples were analyzed for bulk density.

Arid Forest Research Institute (AFRI), Jodhpur

- Studies on the effects of MPOWER programme on mitigation and adaptation towards Climate Change in western Rajasthan-Phase II were conducted. 1792 households (HHs) were surveyed in Aburoad, Bali, Sanchor, Sankara, Baap and Baitu blocks situated in Sirohi, Pali, Jalore, Jaisalmer, Jodhpur and Barmer districts. It was observed that use of organic manure and vermicompost in the plantations of horticultural species are enhancing soil carbon storage in agriculture land. Soil carbon stock have been observed increasing in order Baitu<Sankara<Baap<Sanchor<Bali<Aburoad among the blocks (Panchayat Samiti) and fallow land<Roadside<Gauchar<Oran<agriculture land<Forests among the land uses. Increased land holding, livestock number per HHs and use of dung-cake and crop residue have shown negative impact on Soil Organic Carbon (SOC) stock.

Consultancies

ICFRE, Dehradun

- Works on 9 consultancy projects, which are awarded by Tehri Hydro Development Corporation India Ltd; Himachal Pradesh Power Corporation Limited; Karnataka State Official Authority; Uttarakhand Jal Vidyut Nigam Limited (UJVNL); MoEF&CC GoI, New Delhi; Coal India Limited, Kolkata; NTPC Ltd Noida; CMPDI Ranchi and NMDC Ltd, Hyderabad are in progress.
- Works on Developing, Approach and Methodology for Index Rating of Environmental Conditions and Performance Evaluation and Environmental Performance Indexing in respect of compliance of EC Conditions and Third Party Mine Auditing of selected 35 Mines pertaining to Environmental Performance was awarded to ICFRE by Coal India Limited, Kolkata.

IWST, Bengaluru

- Detailed survey was conducted in Ranchi (Ranchi Lohardharga Highway) for health assessment of trees to be translocated, Under the consultancy project, “Transplantation of trees NHAI project (for the state of Jharkand), from 27 to 30 November 2017.
- A consultancy research investigation on health status of Silver Oak trees was carried out at M/s. Maitree Apartments, Malleswaram, Bangalore on 23 November 2017.
- A consultancy on Wood Balance Study in the Sate of Andhra Pradesh was awarded by AP Forest Department, Guntur. A Three days Preliminary / Pilot Survey to Chittoor (AP) was done on Wood and Fuel Wood information from East, West & Social Forestry Divisions, Timber Depots and saw mills of Chittoor district under the consultancy.

Visit Abroad

Name of Personnel	Institute	Purpose of Visit	Duration	Place
Dr. Suresh Gairola, DG, ICFRE; Dr. Savita, Director, FRI, DehraDun; V.R.S. Rawat, ADG, BCC, ICFRE	ICFRE, HQ, Dehradun & FRI, Derhadun	COP 23 of UNFCCC, Bonn (Germany)	9 November 2017	Bonn (Germany)
Dr. Vineet Kumar, Scientist-F	FRI, Dehradun	Smart and Adapted Technologies in Agriculture for Productive and Sustainable Land Use Systems in Developing Countries	6-13 November 2017	Germany



Training Programmes

S.No.	Topic	Duration	Beneficiaries
Forest Research Institute, Dehradun			
1.	Development of Agroforestry Practices	14-16 November 2017	30 participants including Farmers, NGOs, Students, Teachers and representative of Wood technologists Association from Uttar Pradesh, Uttarakhand and Haryana
2.	IFS Compulsory Training Programme	13-17 November 2017	Sixteen IFS officers of different states
3.	Silviculture/ Forestry	20-25 November 2017	personnel of Eco Task Force (8 th BN) territorial army
4.	Plywood Manufacturing	30 October - 3 November 2017	-
5.	Importance of Soil for Sustainable Production	8-10 November 2017	-



Training on Development of Agroforestry Practices



IFS compulsory Training Programme



Training on Silviculture/ Forestry

Institute of Forest Genetics and Tree Breeding, Coimbatore

6.	Application of Bio-fertilizers	3 days	27 other stakeholders like school teachers, college lectures and professors, NGOs
----	--------------------------------	--------	---

Institute of Wood Science and Technology, Bengaluru

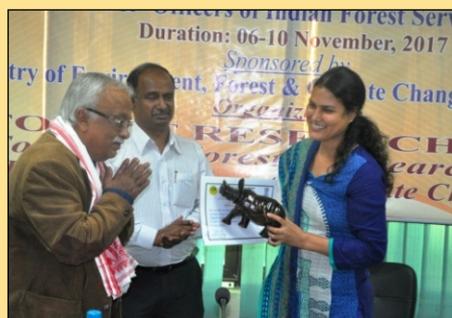
7.	Integrated Insect Pest & Disease Management of Sandalwood	3 November 2017	30 stakeholders from various fields viz., Farmers, Researchers and Forest department
8.	Field Identification of Important Timbers	20-24 November 2017	-

Tropical Forest Research Institute, Jabalpur

9.	Carbon Sequestration through Afforestation at Rourkela Steel Plant, Odisha	8-9 November 2017	30 officers and staff of Steel Authority of India Ltd.
10.	Institutional training organized for B.Sc. VII semester forestry students from GGU University	13-24 November 2017	39 students from Guru Ghasidas University, Bilaspur

Rain Forest Research Institute, Jorhat

11.	Bamboo Resource Development for Addressing Livelihood Concerns of Communities	6-10 November 2017	20 officers from various parts of the country
12.	Tree improvement, Silviculture, Bamboo Cultivation, Propagation, Nursery Management, Value addition & bamboo preservation techniques	15 November 2017	30 Forest Range Officers of Central Academy for State Forest Service (CASFOS), Burnihat, Assam
13.	Bamboo Harvesting and Preservation for Earthquake Resilient Green Buildings	15-16 November, 2017	-
14.	Vermicomposting	20-24 November, 2017	Farmers from BISA Agro Pvt. Ltd., Bordumsa, Changlang
15.	Capacity building training workshop on Modalities of REDD+ in Monitoring, Reporting and Verification	27, 28 and 30 November 2017	30 participants from communities and officials of state forest department, Mizoram



Training on Bamboo Resource Development for Addressing Livelihood Concerns of Communities Programme



Awareness-cum Skill Development Training Programme



Training on Modalities of REDD+ in Monitoring, Reporting and Verification



Himalayan Forest Research Institute, Shimla

- | | | | |
|-----|--|-----------------------|---|
| 16. | Nursery Techniques of Juniper & other important broad-leaved species of cold deserts and high altitude medicinal plants | 14 - 15 November 2017 | 30 participants including officers and frontline staff of Wildlife Divisions of Spiti and Sarahan of Forest Department of Himachal Pradesh |
| 17. | Integrated Approach towards Development of Livelihood Options for Fringe Communities Living Around Protected Areas of Spiti Valley, Himachal Pradesh | 20-22 November 2017 | 18 participants comprising fringe level communities and frontline staff of the State Forest Department of Spiti Wildlife Division, Himachal Pradesh |



Training on Integrated Approach towards Development of Livelihood Options for Fringe Communities Living Around Protected Areas of Spiti Valley



Nursery Techniques of Juniper & other important broad-leaved species of cold deserts and high altitude medicinal plants



Institute of Forest Productivity, Ranchi

- | | | | |
|-----|--|----------------------|---|
| 18. | Two-day training on Lac Cultivation" sponsored by Society for Promotion of Wastelands Development (SPWD), Ranchi | 15 -16 November 2017 | 20 Farmers of Latehar district, Jharkhand |
|-----|--|----------------------|---|

Institute of Forest Biodiversity, Hyderabad

- | | | | |
|-----|--|---------------------|--|
| 18. | Forest Genetic Resource Assessment, Conservation & Management | 1-3 November 2017 | - |
| 19. | Assessment of Forest Resources for Preparation of Working Plan | 20-21 November 2017 | Staff of Telangana state forest Department |
| | | 27-30 November 2017 | Kamareddi and Nizamabad forest staff |

Centre for Forestry Research and Human Resource Development, Chhindwara

- | | | | |
|-----|---|------------------|---|
| 11. | Biodiversity Conservation and Environmental Awareness | 17 November 2017 | for students of Little Step College of Science and Technology, Borgaon, Tehsil Sausar, Chhindwara |
|-----|---|------------------|---|

Workshops/ Seminars/ Meetings

S.No.	Topic	Duration	Beneficiaries
Institute of Forest Genetics and Tree Breeding, Coimbatore			
1.	Windbreak Agro forestry Systems- Scope for Research and Development	30 November 2017	-
Institute of Forest Productivity, Ranchi			
2.	Estimation of Carbon Stock in Forest Ecosystem	8 November 2017	All Officers/ Scientists/ Technical Staffs/ Ministerial Staffs/ Research Scholars, etc.
Arid Forest Research Institute, Jodhpur			
3.	Regional Research Conference & Directors Meet	23-24 November 2017	Directors all ICFRE institutes



Regional Research Conference & Directors Meet



Windbreak Agro forestry Systems- Scope for Research and Development



Estimation of Carbon Stock in Forest Ecosystem

Rajbhasha News

- हि.व.अ.सं., शिमला द्वारा नगर राजभाषा कार्यान्वयन समिति (कार्यालय-2), द्वारा सतलुज-जल विद्युत् निगम लिमिटेड, शिमला में सदस्य कार्यालयों के कर्मचारियों/ अधिकारियों हेतु दिनांक 24 नवम्बर 2017 को आयोजित हिन्दी कार्यशाला में भाग लिया गया।
- Shri Narendra Singh Mehra, Joint Director (Implementation), Ministry of Home Affairs Govt. of India, New Delhi visited Extension and Interpretation center and Farmer's gallery at AFRI, Jodhpur on 27 November 2017 in context of his supervision related to working and implementation of Rajbhasha Hindi.

Awareness and Demonstration Programmes

- IFGTB, Coimbatore organized demonstration programme on Tree Rich Bio-booster from 20 to 21 November 2017 for 200 members of the Irular tribes.

Awards

- Dr. A. Karthikeyan, Scientist – E, IFGTB, Coimbatore received best research paper award on Environment from the Honble Minister, Dept. of Environment, Govt. of Tamilnadu on 7 November 2017.

Tree Growers Mela/ Kisan Mela

Institute	Participated/organized	Duration	Place
IWST, Bengaluru	Krishi Mela	16-19 November 2017	University of Agricultural Science Bangalore
RFRI, Jorhat	Farmers Fair	7 November 2017	Regional Agricultural Research Station (RARS), Titabor
		23 November 2017	Sugarcane Research Station (SRS), Buralikson, Golaghat
HFRI, Shimla	2 nd HP Science Congress	20- 21 November 2017	Shimla
IFP, Ranchi	Festival exhibition- cum-Mela on food of regional species	11 November 2017	Noyamundi, Chaibasa, Jharkhand



Framers Fair at Buralikson, Golaghat



Festival Exhibition- cum-Mela on Food of Regional Species



Krishi Mela at Bengaluru

Miscellaneous

Institute	Special day/ theme	Duration
IFGTB, Coimbatore	Vigilance Awareness Week	3 November 2017
FRI, Dehradun	Constitution Day	26 November 2017
RFRI, Jorhat	Swachhta Pakhwada	1 and 14 November 2017
ARCBR, Aizwal	Swachh Bharat Abhiyan	1 and 30 November 2017
HFRI, Shimla		29 November 2017



Constitution Day at FRI, Dehradun



Vigilance Awareness Week at IFGTB, Coimbatore



Swachh Bharat Abhiyan at HFRI, Shimla

Popularizing Forestry through All India Radio/ Doordarshan

Programme Topic	Channel	Date
Institute of Forest Genetics and Tree Breeding, Coimbatore		
Biocolourant: Bioprospecting of selected accessions of Red tamarind as ecofriendly and protective natural dye in textiles/ foods NFRP-155 ie. biocolourant developed from the red tamarind fruits was used in the preparation of lipstick	Dinamalar and Pudhya Thalaimurai Channels	11 November 2017
Rain Forest Research Institute, Jorhat		
Importance of Rain Forests in conservation of Environment	All India Radio, Dibrugarh, Assam	5 November 2017

Information Technology Initiatives

- ICFRE, Dehradun developed and hosted the application "Information System for Secretary Office" on live server. The URL of application is <http://esttmgmtsec.icfre.org>.

Other Important Activities

- Forest Officers and Scientists of Institute of Forest Productivity, Ranchi visited different regions of Forest Division, Petarwar, Bokaro, Jharkhand for analytical study on problem of Sal trees on 2 November 2017.

Activities under Van Vigyan Kendras and Demo Villages

- FRI, Dehradun organized a training programme on "Sustainable Utilization of Non Wood Forest Produce and Medicinal plants" for Van Panchayat members and other stakeholders under VVK from 28 to 30 November 2017 at Forest Training Academy (FTA) Haldwani (Uttarakhand). 35 Van Panchayat members of Uttarakhand and officials of Uttarakhand Forest Department participated in the training.

HR NEWS

Name & Designation	Date	Name & Designation	Date
Appointment			
Deputation:			
Smt. Arti Chaudhary, IFS, CF, FRI, Dehradun	15.11.2017		
Shri N.C. Sarvanan, IFS, ADG (M&E), ICFRE	15.11.2017		
Shri S.K. Thomas, Dy. CF, FRI, Dehradun	15.11.2017		
Repatriation/ Relieving from ICFRE			
Shri Anil Kumar, Hindi Officer, FRI, Dehradun			17.11.2017
Retirement			
Dr. N. Roychoudhary, Scientist-G, TFRI, Jabalpur			30.11.2017
Dr. M. Balaji, Scientist-E, IFB, Hyderabad			30.11.2017



Patron:

Dr. Suresh Gairola, Director General

Editorial Board:

Shri Vipin Chaudhary DDG(Extn.), Chairman
 Dr. (Smt.) Shamila Kalia, ADG (M& Extn.), Honorary Editor
 Dr. Vimal Kothiyal, ADG(RP), Member
 Shri Raman Nautiyal, Scientist- E, Statistics Division, Member
 Shri Ramakant Mishra, ACTO, (M&Extn.), Member

Disclaimer

- Published for private circulation only
- The articles in the Newsletter do not necessarily reflect the views of the Editorial Board
- ICFRE is not responsible for any loss or damage, whatsoever may be due to the information published here.