

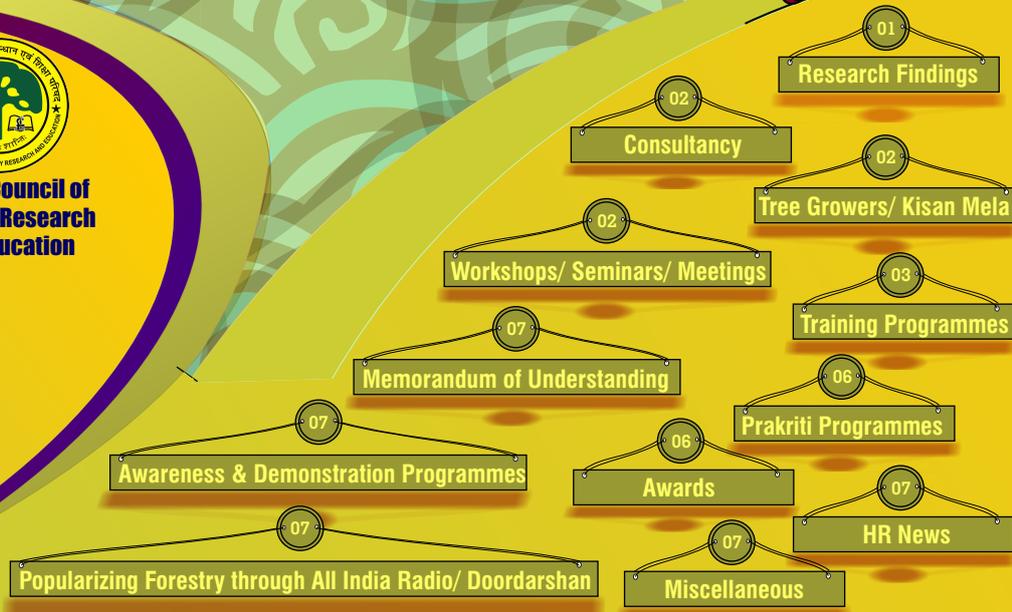


**Indian Council of
Forestry Research
and Education**

ICFRE

NEWSLETTER

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Research Findings

Arid Forest Research Institute, Jodhpur

The study conducted on biological diversity in Raj Bhavan Areas of Mt. Abu in Rajasthan indicates dominance (i.e., highest importance value index) of *Mangifera indica* followed by Phoenix dactylifera. The least dominant tree species are *Butea monosperma*, *Citharexylum substratum*, *Crateva religiosa*, *Eriobotrya japonica*, *Juniperus communis*, *Lansea coromandelica*, and *Michelia champaca*.

Forest Research Institute, Dehradun

- Six samples of lepidopterous larvae/cocoons were collected from Rohtak, Mahendragarh, Rewari and Jhajjar in Haryana from different forestry trees: *Cassia fistula*, *Tectona grandis* and *Acacia latifolia* for their laboratory rearing which was continued for emergence of *Apanteles* spp. and some unknown lepidopterous larvae were also reared. Eight specimens were sorted out from collected samples. Slide preparation, photography and species identification of *Apanteles* spp. are in progress under the project "Studies on taxonomy and host range of larval Parasitoids, *Apanteles* spp. (Hymenoptera: Braconidae from Uttarakhand and Haryana)".
- Eighty insect samples were collected from various localities of Rohtak, Mahendragarh, Rewari and Jhajjar in Haryana and districts Bahraich, Shravasti, Balrampur, Gonda and Basti from Uttar Pradesh for the screening of egg parasitoids. Fifty egg parasitoids were sorted out from collected samples. Nineteen samples of insect eggs were collected from different forestry trees: *Acacia latifolia*, *Tectona grandis*, *Mallotus philippensis*, *Cassia fistula*, *Holoptelia integrifolia*. Slide preparation and photography are in progress under the project "Studies on diversity and host range of hymenopteran egg parasitoids from northern India (Haryana, Uttar Pradesh and Uttarakhand)".
- Larvae of 4 species of lepidoptera collected from ban oak trees during the surveys were reared for life history studies in

the laboratory. 18 of them are in pupa stages under hibernation and there was emergence of two species of lymantrid & geometrid moths.

- 650 species were digitized – 270 with DSLR (in cabinet nos. 35, 37, 38, 41, 47, 54, 65, 67, 99, 101, 102, 105, 106, 115, 122, 123, 124-26) and 380 with stereo zoom microscope (in cabinets no. 115, 122- 127) and about 1200 photographs of these species were edited and stored. Database was updated for editing species holding data in the database under the project "Digitization and enrichment of National Forest Insect Collection (NFIC) of Forest Research Institute, Phase-II (minute insects)".
- Study of influence of Forest fires on nutrients in burnt and unbrunt Chirpine forests during 2017-18 post fires period in upper Yamuna Forests suggests that the water holding capacity, electrical conductivity (EC) & soil organic carbon (SOC) increased in burnt site as compared to unbrunt site. The available nutrients i.e. N, P, & K also followed similar trend.
- The study on soil nutrient pool in different forest types of Uttarakhand revealed that the pH of soil is more acidic in Kharsu Oak, Chirpine Forests compared to Banj Oak Forests. The SOC and available nutrients (N, P & K) decreased down with soil depth and was higher in Banj Oak followed by Kharsu Oak and Chirpine Forests.
- The chloroform extract *Cassia tora* endosperm was quantitatively analyzed by HPLC for presence of anthra quinones. It indicated the presence of emodin, chrosophenic acid and rhein.
- Two populations of *Quercus semicarpifolia* (QS-21 and QS-23) grown in the forests of Nag Tibba, Tehri and Kunjakhark, Nainital, Uttarakhand were characterized for the first time for total phenolic contents determined in their leaves.
- Two populations (VAJ-10-PT and VAJ-10-BT) of *Valeriana jatamansi* collected from Arunachal Pradesh was

characterized for the first time for their volatile constituents determined in their rhizomes.

Himalayan Forest Research Institute, Shimla

- Identification of 24 specimen of insect species upto species level was authenticated at FRI, Dehradun. Out of them 15

belong to the order Coleoptera, 1 belongs to Lepidoptera and 8 belong to hymenoptera.

- Identification of 35 wild mushroom species collected from the different parts of Kinnaur district was also authenticated at FRI Dehradun. The identified species represent 19 families.

Consultancy

ICFRE, Dehradun presently works on nine consultancy projects, which were 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, Kolkotta; NTPC Ltd Noida and NMDC Ltd, Hyderabad.

Tree Growers/ Kisan mela

Institute	Organized/Participated	Duration	Place
IFP, Ranchi	Kissan Mela cum Exhibition	6 February 2019	CTRTI, Nagri Ranchi
	Krishi Kumbh Mela	9-11 February 2019	Motihari, Bihar
IFGTB, Coimbatore	Tree Growers Mela	13 February 2019	A.S. Mahal, Tiruvannamalai
IWST, Bengaluru	2nd Udyamsamagam	14-16 February 2019	Police Maidan Kannur, Kerala



Tree Growers Mela at Tiruvannamalai, Coimbatore

Workshops/ Seminars/ Meetings

S.No.	Topic	Duration	Beneficiaries
Institute of Forest Genetics and Tree Breeding, Coimbatore			
1.	Ecology and Climate Change: Perspectives, Prospects and Insights	28 February 2019	Officers, Scientists, Technical staff & Research Scholars of IFGTB

Forest Research Institute, Dehradun

2.	Role of Agroforestry and Wood Technology for Livelihood Improvement	1 February 2019	Farmers, Government and Non-Government Organizations, Forest Departments, Self Help Groups, Wood Industries
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3.	Intellectual Property Awareness in Forestry Research	20 February 2019	Scientists/Officers/ Technical Staff/ Research Scholar
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4.	Eco-restoration of degraded areas of Cold Deserts in Himachal Pradesh and Jammu & Kashmir	22 February 2019	Scientists, officers, research and technical support staff
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Monthly Seminar on Eco-restoration of degraded areas of Cold Deserts in Himachal Pradesh and Jammu & Kashmir

Training Programme

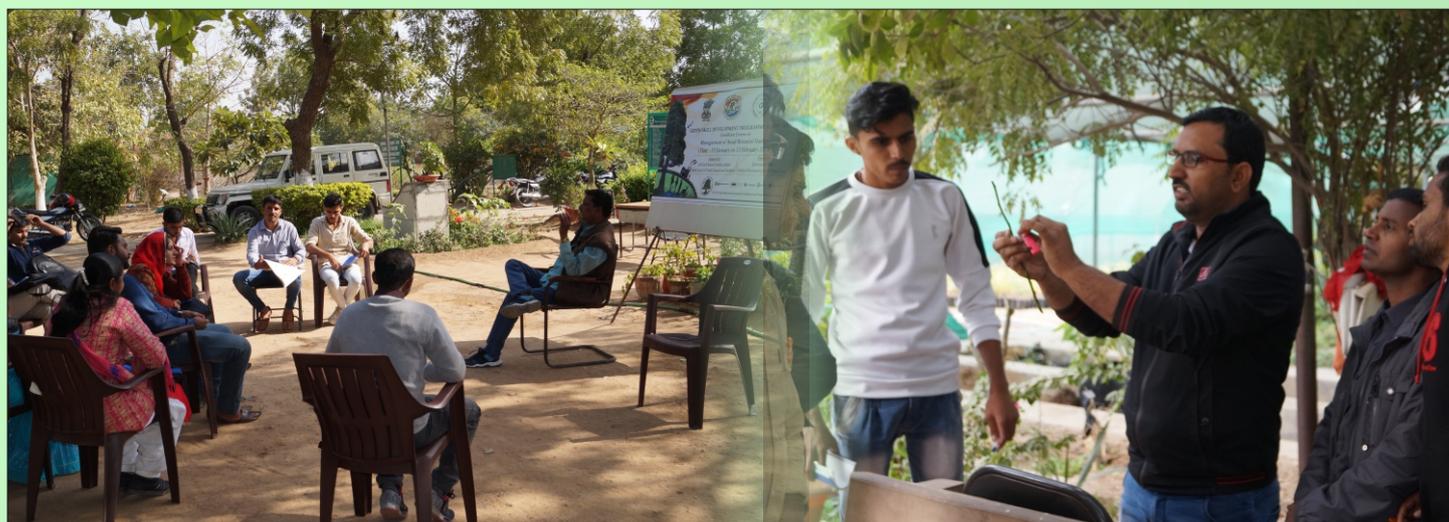
S.No.	Topic	Duration	Beneficiaries
Forest Research Institute, Dehradun			
1.	Forest Entomology & Pest Control	14 February – 20 March 2019	-
2.	Value addition and marketing on NTFPs and Medicinal Plants	4 - 19 February 2019	13 participants from different states of India
Institute of Wood Science and Technology, Bengaluru			
3.	Wood Protection	4-8 February 2019	Naval Dockyard, Mumbai & Visakhapatnam and War Overseeing Team (WOT), Mumbai
4.	Sandalwood: Seed Handling, Nursery, and Plantation Technology	18 - 22 February 2019	Farmers from various states and NGO's.

Tropical Forest Research Institute, Jabalpur

5.	Small Botanical Garden under GSDP training programme	7 January to 8 February 2019	Unemployed youth and students
6.	Agroforestry and its management	19,20 and 21 February 2019	Women farmer, NGO, Unemployed youth, farmer, Academicians
7.	Forest Entomology and Pest Control under GSDP training programm	29 January to 28 February 2019	Unemployed youth and students

Arid Forest Research Institute, Jodhpur

8.	Waste Management of Green skill development Programme	4 February 2019	Science graduates
9.	New Technology in Forestry	12 to 14 February 2019	Members of Village Forest Protection and Management Committee and Field Functionaries of State Forest Department
10.	Management of Small Botanical Gardens	15 January to 13 February 2019	Trainees aspirant to open private Forest Nurseries



Training on Management of Small Botanical Gardens

Rain Forest Research Institute, Jorhat

11.	Bamboo Craft" under Green Skill Development Programme (GSDP)	11 February to 23 March, 2019	-
12.	Propagation and Management of Bamboo under Green Skill Development Programme (GSDP)	25 February to 23 March, 2019	-
13.	Bamboo propagation and Nursey Management under VVK .	26 and 27 February 2019	-

14.	Development and Management of Bamboo Kisan Nurseries	27 and 28 February 2019	-
15.	Skill Development on Bamboo Handicrafts for Promotion of Community Enterprises	27 and 28 February 2019	-



Training on Bamboo propagation and Nursery Management



Training on Development and Management of Bamboo Kisan Nurseries

Himalayan Forest Research Institute, Shimla

16.	Cultivation of important high value temperate medicinal plants	19 February 2019	Stakeholders
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Training on cultivation of important high value temperate medicinal plants



Institute of Forest Productivity, Ranchi

Bamboo Nursery and Management	4-8 February 2019	Forest Guards of SFD, Jharkhand & Odisha
Bamboo Propagation and Management	12 February – 29 March 2019	Students, Famers

Institute of Forest Biodiversity, Hyderabad

Preparation of Andhra Pradesh Working plan	5 – 8 February 2019	DFOs & FROs of Paderu & Visakhapatnam Divisions
Preparation of Andhra Pradesh Working plan and data collection on carbon	11 – 15 February 2019	DFOs & FROs of Guntur & Krishna Divisions



PRAKRITI PROGRAMMES

- IWST, Bengaluru organized the following programs in February 2019 under PRAKRITI program.
 - 200 students of 6th, 7th and 8th grade from Kendriya Vidyalaya, Malleswaram, Bengaluru visited the institute on 4 February 2019.
 - 200 students of 7th, 8th, 9th and 11th grade from Kendriya Vidyalaya, Malleswaram, Bengaluru visited the institute on 5 and 6 February 2019.
- TFRI, Jabalpur conducted a programme for students of Kendriya Vidyalaya, Barkuhi, Chhindwara District under "PRAKRITI" on 7 February 2019.
- AFRI, Jodhpur delivered a lecture on the topic, "Forest and Environment Conservation" was to 985 students of class 1 to 11 (35 teachers also participated in the program) of Kendriya Vidyalaya on 27 February 2019. Research activities of AFRI, Jodhpur displayed through posters, forest products, seedlings raised in AFRI nursery.
- Research and development activities of RFRI, Jorhat in the field of Bamboo Cultivation, Propagation, Nursery Management, Value addition & bamboo preservation techniques, Biotechnology and Tissue Culture, Lac Cultivation, Botanical Garden, Orchidarium, Vermi composting etc., were explained to the students of Jawahar Navodaya Vidyalaya, Jorhat under 'PRAKRITI' programme on 12 February 2019.
- Research and development activities of RFRI, Jorhat in the field of Bamboo Cultivation, Propagation, Nursery Management, Value addition & bamboo preservation techniques, Biotechnology and Tissue Culture, Lac Cultivation, Botanical Garden, Orchidarium, Vermi composting etc. were explained to the students of KV, ONGC, Jorhat under 'PRAKRITI' programme on 26 February 2019.
- IFP, Ranchi organized one day training and demonstration programme on "Nursery Maintenance" at Jawahar Navodaya Vidyalaya, Bonga, Hazaribagh under 'Prakriti programme' on 18 February 2019. 200 teachers and students participated in the programme.

Awards

- Ms. Rekha Devrani awarded 'Young Scientist Award' for the paper titled "Enzyme assisted extraction of phenolics antioxidants from biomass residues of poplar and lemongrass" authored by Devrani, Rekha; Singh, Rakesh; Varshney, V.K. and Negi, Vipul presented in 13th Uttarakhand State Science & Technology Congress 2018-19 held at Vigyan Dham, UCOST, Jhajra, Dehradun from 26 to 28 February 2019.
- Ms. Rishika Guleria bagged Young Scientist Award for her presentation under 'Oral' category entitled "Pinus roxburghii needles: Contemporary source of antiviral precursor shikimic acid" authored by Vineet Kumar, Rishika Guleria and Pradeep Sharma during the 13th Uttarakhand State Science & Technology Congress 2018-19 (USSTC) held on 26-28 February 2019, at Vigyan Dham, UCOST, Dehradun.
- Dy. Chief Minister of Karnataka G. Parameashwara awarded the 'Outreach Award' for generating awareness about Sandalwood in rural community of Karnataka and other parts to Dr. Pankaj K. Aggarwal, Scientist-G and Head, WP Division in the National Conference on Sandalwood organized by Sandal Society of Karnataka at J.N. Tata Auditorium, Bengaluru on 25th February 2019.
- Dr. Shiny. K.S, Postdoctoral Fellow was selected for Augmenting Writing Skills for Articulating Research Award 2018 (AWSAR) on "Coconut shell oil to protect wood" under Postdoctoral Fellow (PDF) Category. The award carries a cash prize of Rs. 10,000/- and Certificate of Appreciation.

Awareness and Demonstration Programmes

- HFRI, Shimla organized awareness programme to reduce incidences of fire in chirpine forests under the ICFRE funded project titled "Analyzing impact of control burning on plant diversity and soil properties in chir pine forests" on 28 February 2019. The programme was attended by 28 local villagers and representative of Panchayat of Kasauli Gadkhal, Teh. Kasauli, Distt. Solan.
- IFP, Ranchi organized training and demonstration programme on the "NTFPs cultivation technique" to the Gram Van Samiti of Hazaribagh district and medicinal plants and "Forestry Research Activities" to the student of Biotechnology Department, Ranchi Women's College, Ranchi on 13 February 2019.

Popularizing Forestry through All India Radio / Doordarshan

Programme Topic	Channel	Date
Forest Research Institute, Dehradun		
Role of Jigat in Agarbatti making-Contributions of FRI	All India Radio	27 Feb. 2019
Institute of Forest Productivity, Ranchi		
Role for Forestry research and constraints	Doordarshan, Ranchi	16 Feb. 2019

Miscellaneous

Institute	Special day/theme	Date
IFB, Hyderabad	World Wetland Day	2 February 2019
RFRI, Jorhat	National Science Day 2019	28 February 2019

Memorandum of Understanding

- HFRI, Shimla signed a Memorandum of Understanding (MoU) on 12 February 2019 with Himachal Pradesh Forest Department for maintenance of Van Vigyan Kendra Jagatsukh, Manali, Distt. Kullu (HP).

HR News

Promotions

Name	Date of appointment	Name	Date of appointment
Shri Prem Lal, Under Secretary, ICFRE	21 Feb 2019	Smt. Rekha Rani, Under Secretary, FRI	21 Feb 2019
Shri Sardar Singh Chauhan, Under Secretary, ICFRE	21 Feb 2019	Smt. Suman Kaushal, Under Secretary, HFRI	21 Feb 2019
(on ad-hoc basis)		Shri Rakesh Kumar Bhandari, Under Secretary, FRI	21 Feb 2019
Shri Jagdish Saran Saxena, Under Secretary, FRI	21 Feb 2019	Shri Hemant Galgal, Under Secretary, AFRI	21 Feb 2019

Patron:

Dr. Suresh Gairola, Director General, ICFRE, Dehradun

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