



Indian Council of  
Forestry Research  
and Education

# ICFRE NEWSLETTER

## CONTENT

- |                                    |                                      |
|------------------------------------|--------------------------------------|
| 01 → Significant Research Findings | 06 → Research Advisory Group Meeting |
| 02 → Workshops/ Seminars/ Meetings | 06 → Swachh Bharat Abhiyan           |
| 03 → Training Programmes           | 06 → Visit of Dignitaries            |
| 05 → Miscellaneous                 | 06 → HR News                         |

### SIGNIFICANT RESEARCH FINDINGS:

#### Arid Forest Research Institute, Jodhpur:

- Study carried out in 55 villages in Jodhpur district shows availability of 19 trees, 11 shrubs, 3 under shrubs and two woody climbers belonging to 21 families including *Ephedra foliata*. Most dominant tree species with highest Importance Value Index (IVI) are *Prosopis cineraria*, *Prosopis juliflora*, *Capparis decidua*, *Vachalea tortilis*, *Salvadora persica* and *Salvadora oleoides*. Among shrubs, dominant species are *Zizyphus nummularia*, *Calotropis procera*, *Aerva pseudotomentosa*, *Leptadeneia pyrotechnica*, *Calligonum polygonoides*, and *Grewia tenax*. *P. cineraria* dominate in agriculture land whereas *C. decidua* and *P. juliflora* dominates in other land uses. Population of *P. juliflora* has been observed negatively correlated with population of *P. cineraria*.

#### Forest Research Institute, Dehradun:

- A survey was carried out in Chamoli district, Valley of Flowers National Park, Hemkund, Ghangharia and Govind Ghat areas between 2500m-4000m covering 5 forest types. Butterfly sampling were carried out on 9 transects in 15/C1 Birch/Rhododendron scrub forest; 14/C1a West Himalayan sub alpine fir forest; 14/1S2 Deciduous Sub Alpine Forest; 12/C1e Moist temperate deciduous forest & 12/C1d Western Mixed Coniferous Forest. Database on species of butterflies under different forest types was updated by adding 5 new species from the data on 22 species sampled during the tour, to 179 species sampled so far. New specimens of 6 species of butterflies captured during the survey were also stretched, preserved and identified. GIS based map of forest types was

generated for these 4 sampled sites (Valley of Flowers NP, Hemkund, Ghangharia and Govind Ghat).

- 37 species of moths collected from Ban oak forests were identified. Database on insect pests of western Himalayan oaks was updated by adding information on 5 species of coleoptera recorded feeding on ban oak.
- 526 species of beetles were digitized and about 1200 photographs of these species were edited and stored. Database was updated for editing species holding data in the database.
- Only 12 mm evaporation was recorded owing to a high rainfall in Mussoorie. 99.7% humidity was recorded during the month. Maximum and minimum temperature recorded was 24.4°C and 15.1°C respectively. "Assessment of Hydrological services imparted by Forest of Kempty Watershed (Mussoorie)".
- Under a "Study on adaptive response of plants to elevated CO<sub>2</sub> conditions". Final growth of all the species was measured. The plants were uprooted for further nutrient and biomass estimation. Dry biomass content was analyzed. Dry sample was crushed for further nutrient and carbon estimation.
- Three wild populations (AP8, AP1 and NGL1) of *Valeriana jatamansi* collected from Arunachal Pradesh were characterized for the first time for their volatile constituents in their rhizomes.
- One population of *Quercus semecarpifolia* grown in the forests of Chaurangikhal, Uttarkashi was characterized for the first time for total phenolic contents in their leaves.
- *Melia dubia* and *Eucalyptus tereticornis* knot wood were found to be potent scavengers of DPPH

free radicals in in vitro antioxidant assay.

- Spectrophotometric method for determination of total saponins content in the rhizomes of *Paris polyphylla* was standardized. This method is being applied for chemical screening of the wild populations of *Paris polyphylla*.

**Himalayan Forest Research Institute, Shimla :**

- A survey was conducted to address the problem of large-scale defoliation in poplars in Leh forest division. Epidemic of willow leaf beetle, *Plagiodera versicolora* Laichart (Coleoptera :Chrysomelidae) was observed and a detailed research report for controlling the pest was submitted to the Leh forest division.

**WORKSHOPS/SEMINARS/MEETINGS:**

S.No.	Topic	Duration	Beneficiaries
<b>Forest Research Institute, Dehradun</b>			
1.	Viable Investment and Employment Opportunities in Forest and Climate Change	23 October 2018	Officers, Scientists of FRI and members of NGOs
<b>Institute of Forest Genetics and Tree Breeding, Coimbatore</b>			
2.	Periodical seminar on “Inventor-user meet 2018”	1 October 2018	Progressive farmers, entrepreneurs and NGOs along with inventors/Scientists of IFGTB, Coimbatore
3.	Genomics and Transgenic Research in Forestry: Opportunities and Future Challenges	29 October 2018	50 stakeholders from paper industries including , ITC Life Science and Technology Centre, Bengaluru; Tamilnadu Newsprint Ltd, Karur and Seshasayee Paper and Boards Ltd, Erode
<b>Institute of Forest Productivity, Ranchi</b>			
4.	Physio-biochemical screening for productivity enhancement	26 October 2018	All Officers, Scientists, Technical Staffs and Research Scholars



Participants of seminar altogether

**Arid Forest Research Institute, Jodhpur**

5.	Technology of Micropropagation for Production of Quality planting Material	18 October 2018	26 Scientists, Technical staff and Research Scholars of AFRI
6.	Evidence based Ayurvedic clinical practice - Migrane and Pancreatitis	22 October 2018	62 Scientists, Technical staff and Research Scholars of AFRI



Seminar on Evidence based Ayurvedic clinical practice - Migrane and Pancreatitis

**Himalayan Forest Research Institute, Shimla**

7.	Pheromones in Integrated Pest Management and its application in field conditions	26 October 2018	Experts professors; Research Scholars from HPU University, Shimla and the Scientists, officers, Research and Technical Support Staff
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**TRAININGS:**

S.No.	Topic	Duration	Beneficiaries
<b>Forest Research Institute, Dehradun</b>			
1.	Forestry Acts & Policy	15 - 27 October 2018	13 participants
2.	Management of Small Botanical Garden	3 October – 2 November 2018	14 participants
<b>Institute of Forest Genetics and Tree Breeding, Coimbatore</b>			
3.	Biodiversity Conservation & Nature Education” to the teachers of Eco-Club	09-11 October 2018	32 Eco club teachers of Coimbatore District

4.	Bio-fertilizer Production and Application in Nursery and Field	23 October 2018	120 Stake holders of Kolli Hills, Namakkal District, Tamil Nadu
5.	Biotechnology and its Applications	25-26 October 2018	School students and teachers

**Arid Forest Research Institute, Jodhpur**

6.	Forest and livelihood resource	8-10 October 2018	Panchayati Raj Institutions: Sarpanch, VFPMC Members, Scout Rovers, Eco Club members, Watershed Development team members, Teachers, NGO, Progressive Farmers.
7.	Role of Forest in soil and water conservation	11-13 October 2018	VFPMC Members, Scout Rovers, Eco Club members, Watershed Development team members, Teachers, NGO, Progressive Farmers



Training on Forest and livelihood resource



Training on Role of Forest in soil and water conservation

**Himalayan Forest Research Institute, Shimla**

8.	Modern Nursery Techniques for raising Quality Nursery Stock of Important Himalayan Forestry Species	22-26 October 2018	Forest officials and frontline Staff of the Research Circle, Uttarakhand SFD
9.	Seed and Modern Nursery Techniques for Raising Quality Nursery Stock of Temperate Forestry Species	28-29 October 2018	Officers and frontline staff of Sarahan Wildlife Division, State Forest Department, HP
10.	Planting Stock Improvement Programme for Enhancement of Productivity	29-31 October 2018	NGOs, JFMCs, Students, Nature Club/ Eco Club, Village Panchayats, Eco Task Force Members, Watershed Committees

**Tropical Forest Research Institute, Jabalpur**

11.	Capacity building on collection, sustainable harvesting and processing of Harra for NTFP gatherer in M.P.	15,16,22,23,24,25 29,30 & 31 October 2018	NTFP gatherers
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**Rain Forest Research Institute, Jorhat**

12.	Bamboo Cultivation, Propagation, Nursery Management & Bamboo Preservation Techniques, Vermicomposting	30-31 October 2018	Foresters
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Training on Bamboo Cultivation, Propagation, Nursery Management & Bamboo Preservation Techniques, Vermicomposting

**Institute of Forest Productivity, Ranchi**

13.	Training on Agroforestry, Modern Nursery practices and Lac cultivation	31 October 2018	Trainees for Forest Training School, Mahilong, Ranchi, Jharkhand
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**Institute of Forest Biodiversity, Hyderabad**

14.	Cultural Practice & Agro forestry of Sandalwood	6-8 October 2018	Farmers
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**MISCELLANEOUS:**

Institute	Special Day/ Theme	Duration
AFRI, Jodhpur	Vigilance Awareness Week	29 October to 2 November 2018
IFP, Ranchi		
HFRI, Shimla		29 October 2018

**RESEARCH ADVISORY GROUP MEETING:**

- Research Advisory Group Meeting was conducted on 8 October 2018 at IFGTB, Coimbatore.
- Rain Forest Research Institute (RFRI) organized the XX Research Advisory Group Meeting of RFRI, Jorhat on 1 October 2018.
- RAG meeting was held under the Chairmanship of Director, HFRI on 9 October 2018.
- XIXth meeting of Research Advisory Group (RAG) Meeting of IFP, Ranchi was organized on 3 October 2018 under the Chairmanship of the Director, IFP, Ranchi.



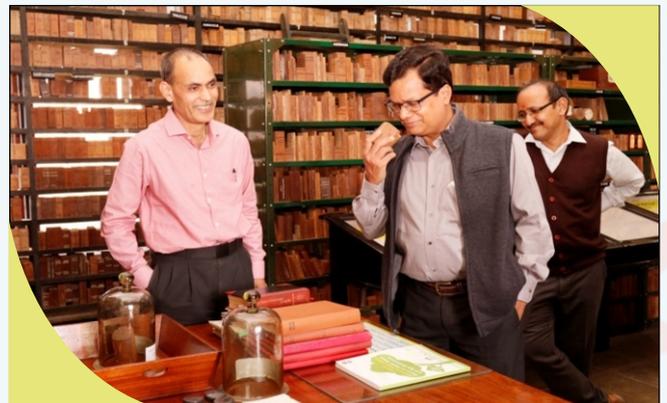
Research Advisory Group Meeting at RFRI, Jorhat

**SWACHH BHARAT ABHIYAN:**

- Swachh Bharat Abhiyan Diwas' was organized across the ICFRE institutes on 2 October 2018 .

**VISIT OF DIGNITARIES:**

- Shri Praveen Garg, Additional Secretary & Financial Advisor, Ministry of Environment, Forests & Climate Change, Government of India, New Delhi visited at FRI, Dehradun on 19 October 2018.
- Shri Anil Sant, Joint Secretary, National Institute of Animal Welfare, Ministry of Environment, Forests & Climate Change, Government of India, New Delhi visited at FRI, Dehradun on 24 October 2018.



Shri Praveen Garg, Additional Secretary & Financial Advisor, MoEF&CC, Govt, New Delhi visited at FRI, Dehradun

**HR NEWS:**

**Repatriation**

Name of Officer	Dated
Dr. Neelu Gera, IFS, DDG(Edu.), ICFRE	09.10. 2018
Shri. Sandeep Kujur, IFS, ADG(Admin.), ICFRE	26.10.2018
Smt. K. Yasodha, IFS, DCF, IFGTB, Coimbatore	06.10.2018

**Retirement**

Name of Officer	Dated
Dr. Y.M. Dubey, Scientist-E, FRI, Dehradun	31.10.2018
Shri Girish Chandra Bhandari, SO, ICFRE	31.10. 2018

**Patron:**

Dr. Suresh Gairola, Director General, ICFRE, Dehradun

**Editorial Board:**

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