



Indian Council of
Forestry Research
and Education

NEWS LETTER



MAY VOLUME 24 2024
NO. 05

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Transfer of Technology

- ICFRE, and G.B. Pant, NIHE jointly organized a workshop on "Transfer of Technology" on 30th May 2024 at G.B. Pant NIHE Almora campus. Workshop was inaugurated by Dr. Sunil Nautiyal, Director G.B. Pant & Dr. Geeta Joshi, ADG(M&Extn.), ICFRE Dehradun. During the workshop technologies on "Harvesting Technology for efficient Production of Oleoresin from Chirpine; Advanced Techniques for extraction of Bhimal Fibre; and Separation of Natural Fiber from Chirpine" were discussed by scientists of ICFRE-FRI with about 30 farmers and women's from Mahila Haat Sansthan.



Workshop on Transfer of Technologies at G.B.Pant, NIHE

International Day of Biological Diversity

International Day for Biological Diversity celebrated on 22nd May 2024 by ICFRE institutes and centres.



Mission LiFE

ICFRE-Rain Forest Research Institute, Jorhat

- 100 students from 10 Eco-clubs of various educational institutions of Jorhat, district participated in workshop on “Solid Waste Management and Vermicomposting” under Environment Education Programme Mission LiFE in Assam supported by Ministry of Environment, Forest and Climate Change (MoEF&CC), Govt. of India from 27th to 28th May 2024. They were made aware about importance of Mission LiFE Programme and put emphasis on adopting sustainable lifestyle for protecting and preserving the environment.



Group of students from 10 eco club participated workshop on “Solid Waste Management and Vermicomposting”

- Students from Teok Girls Higher Secondary School, Teok, Jorhat visited ICFRE-RFRI, Jorhat on 22nd May 2024. They were made aware about Mission LiFE.



Students from Teok Girls Higher Secondary School, Teok, Jorhat visited ICFRE-RFRI, Jorhat



ICFRE-AFRI, Jorhat organized programme on "Tree Plantation and Biodiversity Promotion Drive"

Significant Research Finding

ICFRE- Forest Research Institute, Dehradun

- ICFRE-FRI, Dehradun organized a awareness workshop on "E-Waste and its Management" on 16th May 2024. 20 participants including scientists, technical staff and students participated in the workshop. They were made aware about Mission LiFE.



ICFRE-FRI, Dehradun organized a Awareness workshop on "E-Waste and its Management"

ICFRE- Arid Forest Research Institute, Jodhpur

- ICFRE-AFRI, Jodhpur organized a programme on "Tree Plantation and Biodiversity Promotion Drive" under Mission LiFE on 30th May 2024 at PM Shri Kendriya Vidyalaya, No.2, Jodhpur. Around 550 students along with teachers participated in the programme. Lecture on Environment and Biodiversity Conservation delivered to students.

ICFRE- Forest Research Institute, Dehradun

- Under Assessment of Species Diversity of *Heterocera* (moths) across the Shiwalik Landscape of Northern India and Development of a Database, Moths were collected and identified up to species level and the database on moths of Shiwaliks of northern India was updated to 385. Digitalization of all the specimens was carried out.
- Successfully stored the seeds of *Tsuga dumosa*, *Albizia odoratissima*, *Toona sinensis* and *Pterospermum acerifolium* extended the seed viability at 5°C and 15°C storage temperatures. Germination of *Toona sinensis* was 74% at 5°C and 66% at 15°C in 12 months, of *Pterospermum acerifolium* was 90% at Ambient RT and 95% at 5°C in 21 months, of *Tsuga dumosa* was 50% at 5°C and 40% at 15°C in 12 months, of *Alnus nitida* was 30% at 5°C and 20% at 15°C in 12 months and of *Albizia odoratissima* was 65% at 5°C and 20% at 15°C in 27 months. Seed pretreatment methods was standardized for highly dormant seeds of *Acer pictum* through cold stratification and Gibberellic acid treatment.
- From different forest types in Uttar Pradesh seeds of 13 forest tree species were collected. Seed germination experiments are being conducted on freshly collected seeds

of *Tamarindus indica*, *Hymeno dictyonorixense*, *Gmelina arborea*, *Ehretia laevis*, *Ficus religiosa*, *Dalbergia latifolia*, *Thespesia populnea*, *Manikara hexandra*, *Bauhinia variegata* and *Bombax ceiba*. Seeds of 14 forest tree species with 92 samples were deposited in the gene bank of NBPGR, New Delhi, after seed desiccation and vacuum sealing.

- Ultra-high performance liquid chromatography-tandem mass spectrometry (UHPLC-QTOF-MS/MS)-based qualitative chemical profiling of *Trillium govanianum* rhizome samples collected from Bhatkidhar in Kullu, Himachal Pradesh, India was conducted. A total of 15 phytochemicals, primarily diverse saponins, were identified. Cross linking of guar gum using Ethylene Diamine Tetraacetic Acid (EDTA) was done using green chemistry approach.
- HPLC assisted characterization of four populations of *Terminalia arjuna* located in Marhan Range, Mirzapur; Chandraprabha WLS, Chandauli; Maharajaganj Forest

Division, Nichlaul Range, Maharajaganj; and District Basti of Uttar Pradesh for marker compounds- arjunic acid and arjungenin was carried out. Arjunic acid and arjungenin contents (mg/gm of dry bark) in these populations were determined to be 4.29 ± 0.27 and 3.08 ± 0.72 ; 3.91 ± 1.71 and 3.35 ± 0.34 ; 3.99 ± 0.77 and 3.48 ± 0.45 ; 2.28 ± 1.01 and 2.03 ± 1.04 , respectively.

Consultancies

Indian Council of Forestry Research and Education, Dehradun

- New Projects Awarded on a Study of Bailadila Deposit-4 Mine of NMDC-CMDC Ltd. for ascertaining the safe distance from the existing Tree-Fern habitat for carrying out mining activities and infrastructure development.

Workshops/Seminars/Meetings

Indian Council of Forestry Research and Education, Dehradun

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|----|---|---------------------------|------------------------------------|
| 01 | Sustainable Land Management: Principles, Practices and Applications | 16 th May 2024 | 178 participants from 52 countries |
|----|---|---------------------------|------------------------------------|

ICFRE- Institute of Wood Science and Technology, Bengaluru

- | | | | |
|----|--|---------------------------|--|
| 03 | Manufacturing and testing of fire retardant door shutters in India | 17 th May 2024 | 50 students including scientists and other industry representative |
|----|--|---------------------------|--|

ICFRE- Himalayan Forest Research Institute, Shimla

- | | | | |
|----|--------------------------------|---------------------------|---|
| 04 | Forest Fire and its Management | 30 th May 2024 | 48 participants including Scientists, Technical staff, Research staff |
|----|--------------------------------|---------------------------|---|

ICFRE- Tropical Forest Research Institute, Jabalpur

- | | | | |
|----|--------------------------------------|---------------------------|---|
| 05 | Innovation in Agro forestry Research | 31 st May 2024 | Scientist, officers and Research Scholars |
|----|--------------------------------------|---------------------------|---|

ICFRE- Institute of Forest Biodiversity, Hyderabad

02 Green Solvents

31st May
2024

24 official staff from IFB



ICFRE, Headquarter organized a webinar on “Sustainable Land Management: Principles, Practices and Applications”



ICFRE-IFB, Hyderabad organized a meeting on “Green Solvents”

Training Programme

ICFRE- Forest Research Institute, Dehradun

01 Plywood Manufacture

29th April to
03rd May
2024

16 participants of wood based industries from Surat, Gujrat and Yamunanagar, Haryana

02 Guiding Principles for Processing for FCA Projects

27th to 31st
May 2024

23 IFS Officers



ICFRE-FRI, Dehradun organized a training on “Plywood Manufacture”



ICFRE-FRI, Dehradun organized a training on “Guiding Principles for Processing for FCA Projects”

ICFRE- Rain Forest Research Institute, Jorhat

03 Preparation of Ecosystem Health Card

06th to 08th
May 2024

28 IFS officers from ICFRE-BRC, Aizwal

04 Extension on bamboo propagation and nursery management at its premises

15th May
2024

22 SHGs member including 19 women from different localities in South Tripura, Sepahijala, Khowai and West Tripura districts



ICFRE-RFRI, Jorhat organized a training on “Preparation of Ecosystem Health Card”



ICFRE-RFRI, Jorhat organized a training on “Extension on Bamboo Propagation and Nursery Management at its premises”

ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

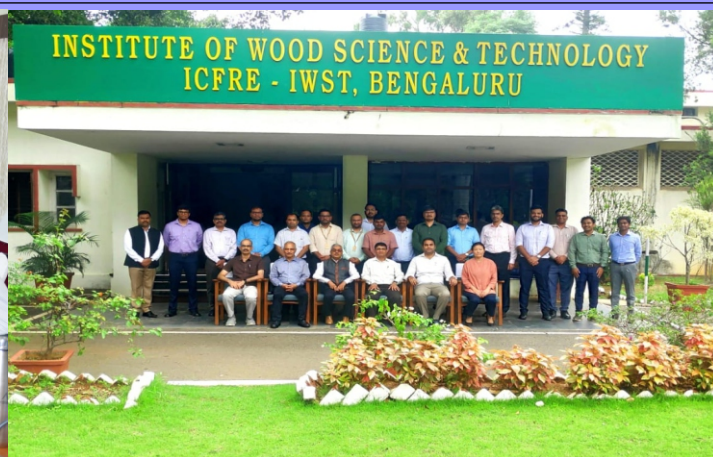
- | | | | |
|----|---|---|--|
| 05 | Soil and Plant Analysis for Nutrient Management | 06 th to 10 th May 2024 | 20 students from Yuvakshetra Institute of Management Studies, Palakkad |
|----|---|---|--|



ICFRE-IFGTB, Coimbatore organized a training on “Soil and Plant Analysis for Nutrient Management”

ICFRE- Institute of Wood Science and Technology, Bengaluru

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|----|---|---|--|
| 06 | Sustainable Infrastructure Development through Wood | 20 th to 24 th May 2024 | 17 IFS officers from different state forest department |
|----|---|---|--|



ICFRE-IWST, Bengaluru organized a training on “Sustainable Infrastructure Development through Wood”

- | | | | |
|----|---|---------------------------|-------------|
| 07 | Plant Tissue Culture: Introduction, techniques and applications | 01 st May 2024 | 15 students |
|----|---|---------------------------|-------------|

- 08 Sandalwood: Introduction, uses and propagation' and 'Tissue culture techniques for sandalwood 03rd May 2024 15 students

ICFRE- Tropical Forest Research Institute, Jabalpur

- 09 Seed and Nursery Technology of selected Forestry Species from different forest type of Central India 17th May 2024 31 frontline staff of Madhya Pradesh State Forest Department
- 10 Use of Soil Health Cards for Promoting Nutrient Management Practices 28th May 2024 70 rangers including Deputy Rangers from forest division from Chhindwara, Seoni, Betal and Hoshangabad circle



ICFRE-TFRI, Jabalpur organized a training on "Seed and Nursery Technology"



ICFRE-TFRI, Jabalpur organized a training on "Use of Soil Health Card for promoting Nutrient Management Practices"

ICFRE- Institute of Forest Biodiversity, Hyderabad

- 11 Soil Sampling in Forest Areas 09th May 2024 65 forest officials from TSFDCL



ICFRE-IFB, Hyderabad organized a training on "Soil Sampling in forest Areas"

ICFRE- Arid Forest Research Institute, Jodhpur

- 12 Rehabilitation of Degraded Hills 22nd May 2024 Farmers from Lunawas, Bhakar, Jodhpur

Activities under Van Vigyan Kendra

ICFRE-Himalayan Forest Research Institute, Shimla

- Students from Government Senior Secondary School, Haripur Kullu visited at Van Vigyan Kendra, Jagatsukh, Kullu of HFRI Shimla on 4th May 2024. They were briefed about identification, importance and cultivation of medical plants viz. *Podophyllum hexandrum* (van kakri), *Picrorhiza kurroa* (kadu), *Valeriana jatamansi* (nihani) and *Angelica gluaca* (chora).



Students from Govt. Senior Secondary School, Haripur Kullu visited Van Vigyan Kendra, Jagatsukh, Kullu of Shimla

ICFRE- Tropical Forest Research Institute, Jabalpur

- 20 participants including Nodal Officer from VVK Chandrapur Forest Academy along with DFO visited Field Trials established at TFRI from 9th to 10th May 2024.



Nodal Officer from VVK Chandrapur Forest Academy along with DFO visited ICFRE-TFRI, Jabalpur

Memorandum of Understanding

- MoU was signed between Director HFRI and Economic Advisor, Economics and Statistics department Himachal Pradesh for execution of activities under the project "Assessment of Non-Timber Forest Products (NTFPs)" on 17th May 2024.

Prakriti Programme

ICFRE- Arid Forest Research Institute, Jodhpur

- ICFRE-AFRI, Jodhpur organized a Prakriti Programme on 15th May 2024 at Orchid Central School of Excellence, Kudi, Jodhpur. Around 80 students of class 9th, 11th, and 12th participated in the programme. Lecture on Environment and Biodiversity Conservation delivered to students and also made them aware about maximum Plantation, water and soil conservation.



A group of 80 students from Orchid Central School of Excellence, Kudi, Jodhpur participated programme organized by ICFRE-AFRI, Jodhpur

ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

- A group of 52 students along with their teachers from St. Joseph's Matriculation Higher Secondary School, Ondipudur visited ICFRE-IFGTB, Coimbatore on 21st May 2024. Lecture on Fertilizer were also delivered to students.



A group of 52 students from St. Joseph's Matriculation Higher Secondary School, Ondipudur visited ICFRE-IFGTB, Coimbatore

ICFRE-Rain Forest Research Institute, Jorhat

- 108 students along with teachers from Marani High School, Jorhat, Jawaharlal Nehru High School, Komar Khartowal and Karanga Gazpuria High School, Karanga, Jorhat on 10th, 13th & 27th May 2024 visited ICFRE-RFRI, Jorhat. They were briefed about the research and development activities of the institutes.



Students from Marani High School, Jorhat visited ICFRE-RFRI, Jorhat

Awareness and Demonstration Programme

ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- A group of 88 students along with faculties from Avinashilingam Home Science College for Women's visited ICFRE-IFGTB, Coimbatore on 3rd May 2024. Lectured on Bio-Fertilizer and Food

Science & Environment were also delivered to students.



Students from Avinashilingam Home Science College visited ICFRE-IFGTB, Coimbatore

ICFRE-Institute of Wood Science and Technology, Bengaluru

- 34 RFOs trainees along with faculty from Tamil Nadu Forest Academy, Coimbatore visited Tissue Culture lab, Xylarium, Nursery, Wood Workshop, Advanced Wood Working Training Centre and Wood Museum ICFRE-IWST, Bengaluru on 29th May 2024. They were briefed about Wood Properties & Processing and Sandalwood Cultivation and its prospects.



34 RFOs trainees from Tamil Nadu Forest Academy, Coimbatore visited ICFRE-IWST, Bengaluru

ICFRE-Rain Forest Research Institute, Jorhat

- 11 Forest Officials including Journalists, Self help group(NGO) members and village volunteers from Tamenglong district of Manipur visited ICFRE-RFRI,

Jorhat on 27th May 2024. They were sensitized on bamboo based entrepreneurship development for livelihood generation and delivered hands on demonstration on Bamboo propagation method.



Forest officials, Journalists, Self Help Group (NGO) and Village Volunteers from Manipur visited ICFRE-RFRI, Jorhat

ICFRE-Tropical Forest Research Institute, Jabalpur

- Seven participants from Bhartiya prani Servesthan, Jabalpur, Madhya Pradesh visited ICFRE-TFRI, Jabalpur on 14th May 2024. They were briefed about the TFRI technologies displayed in the museum cum interpretation centre.
- A group of 34 RFOs from Lakhnadon, Seoni Madhya Pradesh took a educational tour on 26th May 2024 at ICFRE-TFRI, Jabalpur and also visited forest Ecology & Climate change Division, Pest Management Laboratory and Forest Museum of TFRI, Jorhat.



34 RFOs from Lakhnadon Seoni Madhya Pradesh visited ICFRE-TFRI, Jabalpur

- 17 new IFS officers of Madhya Pradesh Cadre (2022-2024 batch) visited ICFRE-TFRI, Jabalpur on 30th May 2024. They were briefed about TFRI technologies.



17 new IFS officers of Madhya Pradesh Cadre visited ICFRE-RFRI, Jorhat

ICFRE-Institute of Forest Biodiversity, Hyderabad

- A group of participants from Wildlife Conservation through Research and Education NGO visited ICFRE- Coastal Ecosystem Centre on 15th May 2024. They were briefed about centre and research related activities carried out in the centre.

Rajbhasha Activity

- ICFRE, Headquarter and ICFRE-FRI, Dehradun jointly organized a training programme on "Kanthasth Translation Tool" from 27th to 29th May 2024 at ICFRE-FRI, Dehradun. Training was inaugurated by Dr. Geeta Joshi, ADG (M&Extn.), ICFRE and Shri R. Anand, Registrar, ICFRE. 39 participants from from ICFRE-FRI, Dehradun and ICFRE, Headquarter participated in the training.



ICFRE, Headquarter and ICFRE-FRI, Dehradun Jointly organized training on "Kanthasth Translation Tool"

HR NEWS**RETIREMENT**

Name of Officer	Date
Sh. L. Manimuthu, CTO, ICFRE- IFGTB, Coimbatore	31.05.2024
Sh. Manoranjan Das, Under Secretary, ICFRE- RFRI, Jorhat	31.05.2024
Sh. Lakhi Ram Joshi, Under Secretary, ICFRE (HQ)	31.05.2024

REPATRIATION

Name of Officer	Date
Shri. S.K. Thomas, CF, ICFRE-FRI, Dehradun	14.05.2024

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Smt. Kanchan Devi, IFS, Director General,
ICFRE, Dehradun

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