

# **Newsletter for the Month of February 2020**

## **Institute of Wood Science & Technology, Bengaluru**

### **1. Significant Research Findings:**

### **2. Publications:**

- Abhilash RM, JayshriGunjal, Venkatesh GS, Shakti Chauhan Tailoring Mechanical Properties of Bamboo Thermoplastic Composite for Various Applications, Paper presented in the 11<sup>th</sup> International Conference on Advancements in Polymeric Materials organized by CIPET, Bangalore (13-15 February 2020)
- JayshriGunjal and Shakti Chauhan, Effect of natural weathering on colour and mechanical properties of wood-polypropylene composites, poster presented in the 11<sup>th</sup> International Conference on Advancements in Polymeric Materials organized by CIPET, Bangalore (13-15 February 2020)
- Darshan H K, Sathish Kumar M.H.and Shakti Singh Chauhan. Optimization of polylactic acid and coconut shell powder based biodegradable composites for rigid container development, Poster presented (Awarded best poster) in the Int'l Conference on Current Research and Approaches in Food Technology 2020 at Osmania University, Hyderabad on 14-15 February 2020.
- RichaBansal, Sreeja Nair, Giridhar B. N., PriyaBisht, K. K. Pandey. UV Stabilization of wood using linseed oil nanoemulsions incorporated with ZnO nanoparticles
- Giridhar B. N., Sreeja Nair, RichaBansal, PriyaBisht, K. K. Pandey. Physical properties of thermally modified bamboo
- Sreeja Nair, Giridhar B. N., RichaBansal, PriyaBisht, K. K. Pandey. UV stability of polyurethane coatings embedded with inorganic and organic UV absorbers
- PriyaBisht, Giridhar, B.N., Sreeja Nair, RichaBansal, K.K. Pandey. Transparent wood composite from poplar wood
- Dr. S.R. Shukla, Title: Performance evaluation of modified (poly) vinyl acetate wood adhesive by cross-linking with 4,4'-methylenebis (cyclohexylisocyanate) (HMDI). Abstract No. 20OL166.

### **3. Consultancies:**

- Dr. A.Muthukumar submitted a consultancy report on “Investigation on the mortality of Sandalwood (*Santalum album* linn.) In the private plantation at Chikmagalur, Karnataka”-
- Mr.Rajarishi submitted details of the Annual survey report for the year 2019 to ICFRE regarding the consultancy project entitled “Monitoring of National Thermal Power Corporation (NTPC) accelerated afforestation programme of plantation of 10 million trees” - in Karnataka State.

#### 4. Tree Growers Mela/KisanMela/ Trade fairs:

Institute	Participated	Duration	Place
NuernbergMesse India Pvt. Ltd	India Wood Exhibition 2020	27 Feb – 2 March 2020	Bangalore International Exhibition Centre, Bangalore

#### 5. Visit abroad: Nil

#### 6. Meetings Organized:

Sl. No	Topic	Duration	No. of participants	Beneficiaries
1.	NABL Meeting	18/02/2020	8 members	Discussion with NABL Consultant

#### 7. Meeting Attended:

Sl. No	Topic	Duration	No. of participants	Beneficiaries
01	11 <sup>th</sup> International Conference on Advancements in Polymeric Materials organized by CIPET, Bangalore	13-15 Feb 2020	5	Academia and Industry
02	Meeting of State Forest Development Corporations	12 Feb.2020 1 day	4	Participants from State Forest Development Corporations and Research Organizations.

03	Review meeting of ongoing/completed research projects under SERB EMR / CRG - Materials, Mining and Minerals Engineering Program at IIT Delhi	28 Feb 2020 1 day	1	Researchers and other officials
04	National Workshop under All India Coordinated Research Project (AICRP) on climate change - "Study of Climate driven effects on Indian Forests through long Term Monitoring" at Mudumalai (Tamil Nadu)	18- 22 Feb 2020 (5 days)	4	Scientists and Technical staff from all ICFRE institutes involved in the study, IISc, ATREE, academicians, forest department officials etc
05	Meeting on Tree Transplantation organized by Deputy Inspector General of Forests, MoEF& CC at Indira Paryavaran Bhawan, New Delhi	12/02/2020	1	
06	Meeting at NMPB, New Delhi to present progress on Development of Integrated Pest and Disease Management Practices for Cultivating Medicinal plants in Karnataka .	13-02-2020	1	

**a) Training Programs Organized:**

Sl. No	Topic	Duration	No. of participants	Beneficiaries
01	Short Term Training on Wood Protection	3 - 7 Feb 2020 5 days	7	Entrepreneurs from Private wood industries, Academia, Trainees from Private Bamboo Industry
02	Short term training on Sandalwood – seed handling, nursery & plantation technology	10 - 14 Feb, 2020 5 days	14	Farmers
03	Propagation and Management of Bamboo sponsored by Green Skill Development Program (GSDP), ENVIS –	25.Feb – 26 Mar 2020	45	Students

	MoEF&CC			
04	Under VVK, Technology demonstration on package of practice of sandalwood cultivation at Ramanagar	5 Feb 2020	200	Farmers
05	Under VVK, Technology demonstration on package of practice of sandalwood cultivation at Kolar / Mysore	6-7 Feb 2020	150	Farmers
06	Under VVK, Technology demonstration on package of practice of sandalwood cultivation at Kalburgi	12 Feb 2020	100	Farmers and Foresters
07	Under VVK, Technology demonstration on package of practice of sandalwood cultivation at Viyayapura	13 Feb 2020	100	Farmers and Foresters

**b) Training Programs Attended:**

Sl.No	Topic	Duration	No. of participants	Beneficiaries

**8. Rajbhasha News: Nil**

**9. Visit of Dignitaries: Nil**

**10. Popularizing forestry through Radio/TV etc.: Nil**

**11. Awards: Nil**

**12. Miscellaneous:**

- Under Prakriti program 44 students of Grade V from Sharadha Vidyalaya, Bangalore visited the institute on 4 February 2020
- Under Prakriti program 38 students of Grade VI from Sharadha Vidyalaya, Bangalore visited the institute on 5 February 2020
- Under Prakriti program 47 students of Grade VII from Sharadha Vidyalaya, Bangalore visited the institute on 6 February 2020
- As part of education tour 26 students of B. Arch from M.G.R. Educational and Research Institute, Chennai Tamilnadu visited the institute on 4 February 2020
- As part of education tour 48 students of III BSc (Hons) from Forest College and Research Institute (Affiliated to Osmania University), Hyderabad visited the institute on 11 February 2020

- As part of Victorian Botany Alumni Association activity of Government Victoria College, Palakkad, 12 members visited the institute on 17 February 2020.
- As part of curriculum 48 Artisan trainees of Madras Engineering Group, Bangalore visited the institute on 18 February 2020
- As part of education tour 65 students of II & III BSc (Agri) from Karunya Institute of Technology, Coimbatore, Tamilnadu visited the institute on 24 February 2020
- As part of education tour 65 students of II & III BSc (Agri) from Karunya Institute of Technology, Coimbatore, Tamilnadu visited the institute on 25 February 2020
- Shakti Chauhan presented the activities of the Institute in the Workshop for State Forest development Corporations at Ministry of Environment and Forest, New Delhi (12th Feb, 2020)
- Shakti Chauhan - Session Chair - Clean & Green Vigor (ENERGY HARVESTING & STORAGE - I), 11th International Conference on Advanced Polymeric Materials (14th Feb 2020)
- Shakti Chauhan - Invited lecture on Natural fiber reinforced biopolymer based thermoplastic composites in 11th International Conference on Advanced Polymeric Materials on 15th Feb. 2020
- Wood testing enquiries (7 samples for identification, 8 samples for moisture content, 5 samples for specific gravity tests and 21 samples for other tests, were received and test reports of 4 samples for identification, 3 samples for moisture content, 2 samples for specific gravity tests and 9 samples for other tests were sent to the concerned department/parties.)
- Dr.A. Muthukumar executed a work as an expert member of BBMP-Tree expert committee and report was submitted on assessment on health of trees proposed for felling under various developmental projects within BBMP limits (This is based on a field visit on 07/02/2020)
- Dr. A. Muthukumar participated as an expert member of BBMP Tree expert Committee to review applications on tree felling, submitted to BBMP, on 14/02/2020.
- Dr. R.Sundararaj delivered a lecture on Sandalwood health on 28-2-2020 at the function organized by M.S. Ramaiah College of Arts, Science and Commerce – on National Science day.
- A technical bulletin ( No.17) entitled “Disease alert on eruption of the Sandal Spike Disease (SSD) in conservation and cultivation of Indian Sandalwood ( Santalum album Linn.)” ( 8 –Pages) prepared by Dr.Sundararaj and R.Raja Rishi was published by IWST, Bengaluru. Mr. Raja rishi

### 13. **Staff News:**

- Smt. KusumaGoswami, Library Information Assistant retired from service on superannuation on 29 Feb 2020