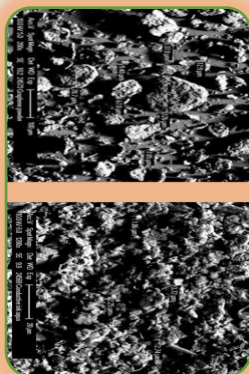




## Technology of the Month

### *EMI shield fabric using graphite conductive paste*



Mobile radiation protective fabric is designed to shield against electromagnetic radiation emitted by mobile devices such as smartphones, tablets, and laptops. The potential harm from mobile radiation is a subject of ongoing research and debate among scientists and health experts. An electrically conductive paste was developed at ICAR-CIRCOT, Mumbai using the graphite powder and was used to coat the cotton fabric to develop radiation protective fabric. The coated fabrics were tested for EMI Shielding effectiveness using co-axial line transmission method as per ASTM-D-4935. The test result showed that the coated fabric can protect from about 87-92% radiation having the frequency of 100-1500 MHz at 9-11dB. These fabrics can be used as EMI shields which will protect from mobile phone radiation and also from other electrical and electronic devices.

## Institute Research Council Meeting



- The 123<sup>rd</sup> Annual IRC meeting was held during May 2-3, 2023 in the Conference Hall of the ICAR-CIRCOT, Mumbai. The meeting was chaired by Dr. S. K. Shukla, Director, ICAR-CIRCOT, all the HoDs, Scientists and Technical Officers attended the meeting. The new project proposals, final report of the completed projects and the progress of the ongoing research projects were deliberated upon. In the concluding session the IRC deliberated upon the priority areas of the future research activity in line with guidelines of the Research Advisory Committee .

## Human Resource Development



- Dr. P. Jagajanantha, Scientist attended a training program on "Laboratory Assessor's Training Course" organised by National Accreditation Board for Testing and Calibration Laboratories (NABL), Gurugram at ICAR-Central Institute of Fisheries Education (ICAR-CIFE), Mumbai during May 15-19, 2023.
- Dr. S. K. Shukla, Director attended the Executive development programme on Leadership Development at ICAR-NAARM, Hyderabad during May 22-27, 2023

## New Project Initiative in Robotics



- ICAR-CIRCOT, Mumbai in collaboration with ICAR-CICR, Nagpur and CNH Industrial Technology Services (India) Private Limited, Gurugram, Haryana has taken up a project for development of Robotic Cotton Harvester.

## Outreach Activities



- Dr. S. S. Kautkar, Scientist conducted demonstration cum awareness program on “Gin setting, importance of perfect grooving and tips for quality lint production” for the fitters/technicians of M/s. Shree Krishna Ginning, Saoner and M/s. Mahalaxmi Ginning, Dhapewada on 16<sup>th</sup> May 2023. Total 20 staff of the ginneries have got benefitted through the program.
- Dr. S. S. Kautkar, Scientist delivered a radio talk on “नवीन कृषी उद्योगांना चालना देणारी RKVY रफ्तार आर्थिक सहायता योजना” on Akashwani, All India Radio, Mumbai on 16<sup>th</sup> May 2023.

## Workshop on Design, Copyright and Trademark



- ICAR-CIRCOT organized a workshop on “Role of Design, Copyright and Trademark: Scientific and Entrepreneurial Perspective” on 16<sup>th</sup> May, 2023 in line with DARE-ICAR Campaign for Azadi ka Amrut Mahotsav India@75. This workshop was arranged by ITMU and ABIC of the Institute with support from Intellectual Property and Technology Management Unit of ICAR, New Delhi. Dr. Neeru Bhooshan, ADG (Intellectual Property & Technology Management) ICAR, New Delhi; Dr. Ashwini Siwal, Assistant Professor, Faculty of law, University of Delhi; and, Dr Vikram Singh, Senior Scientist, IP &TM unit, ICAR, New Delhi sensitized the participants about the significance of various aspects of IPR.

## Common Cancer Awareness Program



- ICAR- Central Institute for Research on Cotton Technology, Mumbai in collaboration with Department of Preventive Oncology, Tata Memorial Hospital, Mumbai organized ‘Common Cancer Awareness Program’ in line with DARE-ICAR Campaign for India@75 on 25<sup>th</sup> May, 2023 in hybrid mode. The program was coordinated by Internal Committee of the Institute. Dr. Aditi Dey enlightened the participants with basic causes and symptoms of breast cancer, cervical cancer and tobacco related oral cancer; their early detection and preventive measures.

## New Project Initiatives under CRP on Natural Fibres



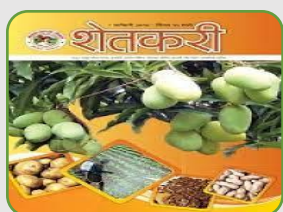
- Optimize spinning process parameters for Cotton/hemp blends and develop value added products.
- Development & Evaluation of pre-grooved chrome leather rollers and automatic deep-cut-grooving machine for double roller gin.
- Design and development of high-capacity double roller gin to enhance ginning efficiency.

## Awards



- Dr. Jyoti Dhakane-Lad, Scientist received Outstanding Young Scientist National Award 2023 by Kamarajar Institute of Education and Research, Tamil Nadu on 21<sup>st</sup> May, 2023.

## Publications



- Published Marathi Popular article in “Shetkari” magazine a publication of Agriculture Department, Government of Maharashtra entitled “हायड्रोपोनिक तंत्रज्ञान: उन्हाळ्यातही हिरवा चारा उत्पादनाचा लाभदायी मार्ग ” शेषराव काऊतकर आणि डॉ. आजिनाथ डुकरे, Shetkari, Vol. 23 Issue 2: May, 2023

# Glimpses of Activities



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