



वस्त्र मंत्रालय
MINISTRY OF
TEXTILES



62nd

JOINT TECHNOLOGICAL CONFERENCE

Organized By

ATIRA, BTRA, SITRA & NITRA

Date: 24th & 25th October, 2024

Venue: NITRA, Ghaziabad, U.P.

Northern India Textile Research Association

(Linked to Ministry of Textiles, Govt. of India)

Sector-23, Raj Nagar, Ghaziabad-201017

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ABOUT NITRA:

Northern India Textile Research Association (NITRA) is one of the prime textile research institutes in the country. The textile industry and the Ministry of Textiles, Govt. of India jointly established NITRA in 1974 to conduct applied scientific research and provide support services to the Indian textile industry. The organization is situated at NCR Ghaziabad, near Delhi. NITRA is recognized by CII as one of the top 3 innovative institutes in India in the year 2022 and one of the top 5 innovative institutes in India in the year 2023. NITRA's prime activities include research & development, technical consultancy, quality evaluation of materials, manpower training, third-party inspection and publication of technical books and papers. With support from MoT, GoI, NITRA is also running two Centres of Excellence (CoE) for Protective and Automotive Textiles. The activities of CoE are product development, preparation of standards/specifications, testing, training manpower, organizing workshops & seminars, and information dissemination as a resource centre. NITRA serves around 2000 clients in a year including overseas companies. This year NITRA is celebrating its Golden Jubilee year.



ABOUT THE CONFERENCE:

The 62nd Joint Technological Conference (JTC), organized by four Textile Research Associations (ATIRA, BTRA, SITRA, and NITRA), will be hosted by NITRA in the 3rd week of October 2024. This 2-day event will feature deep discussions on R&D and its industry applications. For the first time, R&D carried out by all eight TRAs (ATIRA, BTRA, SITRA, NITRA, IJIRA, MANTRA, SASMIRA, and WRA) will be presented at this conference. An exclusive session on Technical Textiles and an exhibition on both technical and conventional textiles will also be included. We firmly believe that the professionals engaged in textiles, apparel industries as well as personnel from military and para-military forces will be benefited by taking part in this mega conference.



PAPERS TO BE PRESENTED :

ATIRA

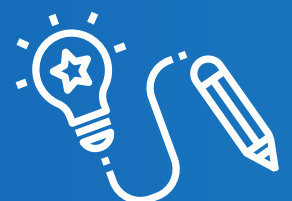
1. Development of the indigenous HEPA filter media using Nanofiber Technology
2. Understanding the behaviour mechanism of composites under high radiant energy heat
3. Development of Natural Fiber-Based Sandwich Composites for Porta Cabin Application
4. Graphene-Coated Natural Fiber-Reinforced Composites with Improved Mechanical Properties

BTRA

1. Antimicrobial functional finishing on cotton using plasma technology for biomedical application
2. Preparation of CNT-based lyocell fibers
3. Development of CNT reinforced acrylic precursor for carbon fibre
4. Flame Retardant Cotton Fabric by Plasma assisted chemical treatment



NITRA



SITRA:

- Effect of trash and microdust accumulation in lattice compact apron on compact yarn quality
- Inter-fibre cohesion of cotton and its influence on yarn quality attributes
- Dyeing and sizing of yarn for handloom weavers in cheese dyeing machine
- Development of scouring process chemicals to reduce TDS & COD in effluent

NITRA:

- Case studies on reducing water and chemical consumption in textile processing
- Spinning yarns using recycled cotton fibre with virgin fibre
- Impact protection and comfort characteristics of STF-infused 3D knitted fabrics for sports textiles
- Optimization of firefighter suit layers
- Development of cold climate clothing from cellulose-based fibres
- Use of banana and sunhemp fibers in Agrotextiles

IJIRA:

- New Drafting System for Jute Drawing
- Retrofit automation technology for conventional Jute Spinning Frame

MANTRA:

- Development of highly electro-conductive non-metallic textile for sensing and EMI shielding
- Development of protective workwear (gloves, socks) for Leptospirosis protection

SASMIRA:

- Development of energy responsive agrotextile for horticultural application
- Development and characterization of high-performance hail protection net

WRA:

- Fabrication and characterization of stretchable & non-stretchable wool blended denim fabric
- Design and development of lightweight cricket pad using non-Newtonian fluids



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With this backdrop, we earnestly request you to register as many delegates as possible from your esteemed organization, so as to take maximum benefit out of this conference.

Inviting Entries for Unique Poster-Making Competition

Theme: Advancement in textiles/Technical textiles/Nanotechnology in textiles/Fashion and apparel industry/Sustainable processing of textiles/Recycling and life cycle analysis of textiles

Winners will be awarded with attractive prizes and all will be given participant certificate.

Entry fee per poster is Rs. 1,000/- + 18%GST



DELEGATE FORM

Name of the Organisation:

Address:

Telephone/Mobile No.: Email ID:

DELEGATE INFORMATION

| No. | Name of Delegate | Designation | Department |
|-----|------------------|-------------|------------|
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Please use additional sheet, if necessary

Tick (✓) the appropriate box:

For the conference Rs. 1000/= + 18% GST per delegate NITRA Member

Faculty/Students Rs. 500/= + 18% GST per delegate

- NITRA member mills will be given special discount of 25% on delegate fee

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(in words)

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**For further details,
Contact COORDINATOR (JTC)**

Northern India Textile Research Association

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