

## IJTRC Program Schedule

### 1st INDO-JAPAN TEXTILE RESEARCH CONFERENCE, 27th-28th November, 2023

Jointly Organized By Indian Institute Of Technology Delhi and Shinshu University, Japan

#### DAY 1: 27th November 2023

Registration: 08:00 AM

Inauguration: 09:00 AM

#### Plenary Session I (09:30 - 11:00 AM)

Venue: LH-111

9:30 AM	PL-01	<b>Prof. Kousaku Ohkawa</b> Institute for Fiber Engineering, Interdisciplinary Cluster for Cutting Edge Research, Shinshu University, Ueda, Japan	Evaluation of <i>in vitro</i> Porous Vascular Model for Development of Liquid Embolic Materials
10:00 AM	PL-02	<b>Prof. Maik Gude</b> Lightweight Systems Engineering and Multi Material Design, Technical University of Dresden, Germany	Neutral Lightweight Engineering- A comprehensive approach for a sustainable composite design
10:30 AM	PL-03	<b>Prof. Dipayan Das</b> Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, New Delhi, India.	Nonwoven Air Filters for Automotive Engine Intake Application

Tea Break - 11:00 AM - 11:30 AM

#### Parallel Sessions I-A, I-B, I-C (11:30 AM - 12:55 PM)

LH-416, LH-418, LH-421

LH-416	Parallel Session I-A		Modelling and Simulation
11:30 AM	OL-13	<b>Prof. Masayuki Takatera</b> , Kota Kurahashi and KyoungOk Kim <b>Keynote Speaker</b> Shinshu University, Faculty of Textile Science and Technology, Ueda, Nagano, Tokida 3-15-1, Japan	Construction of an elastica model for monofilament woven fabric
11:55 AM	OL-62	<b>Shivangi Shukla</b> , Jaya Sharma and B K Behera Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Design and Development of 3D Woven Auxetic Metamaterials
12:15 PM	OL-15	<b>Naho Osawa</b> , Chunhong Zhu and Hideaki Morikawa Graduate School of Science and Technology, Shinshu University, 3-15-1 Tokida, Ueda, Nagano 386-8567, Japan	Study on quantification of mask fit performance using 3D apparel CAD
12:35 PM	OL-72	<b>Sameer Kumar Behera</b> , Prabhjot Singh, S.P Singh and B.K. Behera Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Experimental and FEA Analysis of Crash Tests on 3D Woven Composite Bumpers for Automobiles at Various Speed

LH-418	Parallel Session I-B		Polymer and Fibre Science
11:30 AM	OL-26	<b>Prof. Shunichi Kobayashi</b> , Kenta Asai, Yuna Fukumori <b>Keynote Speaker</b> Institute for Fiber Engineering, Shinshu University, 3-15-1 Tokida Ueda Nagano, Japan	Tensile Properties of Sandwich Structured Fiber Composite Dilatant Compound
11:55 AM	OL-77	<b>Deepika Gupta</b> , Parag Patil and Wayne Best Grasim Industries Limited (Pulp and Fibre Innovation Centre) Plot # 1&1-A/1, MIDC Talaja, Section NC-1& NC-2, Taluka Panvel, Dist. Raigad-410208, Maharashtra, India	Lyocell fibres from Bacterial cellulose
12:15 PM	OL-18	<b>Dr. Kartick K. Samanta</b> , S. N. Chattopadhyay, A. N. Roy, D. B. Shakyawar and S. Bhowmick ICAR-National Institute of Natural Fibre Engineering and Technology, 12 Regent Park, Kolkata -700040	Applications Banana Pseudostem in the Field of Paper and Textile

## IJTRC Program Schedule

12:35 PM	OL-09	<b>Advitiya Kumar</b> , Bhupendra Singh Butola and Rajiv K. Srivastava Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Cellulose based HIPE scaffolds for efficient and eco-friendly oil sorption
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LH-421	Parallel Session I-C		Functional Textiles
11:30 AM	OL-38	Dr. Sorna Gowri Vijaya Kumar <b>Keynote Speaker</b> CSIR-Advanced Materials and Processes Research Institute (AMPRI), Bhopal, Madhya Pradesh, India	Smart functional textile finishes based on polymer nanocomposites
11:55 AM	OL-63	<b>Jaya Sharma</b> , Shivangi Shukla, Javed Sheikh and B.K. Behera Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Effect of Pile Height on the Multiscale Properties of Aerogel embedded 3D Woven Spacer Blankets prepared under ambient pressure drying
12:15 PM	OL-07	<b>Dr. Amit Madhu</b> , Nagender Singh, Anil Sachdeva & Neeraj Malik The Technological Institute of Textile & Sciences, Bhiwani, Haryana, India	Durable Multi-functionalization of Cotton Fabric Using Composite Silver & Titanium-dioxide Nano-particles
12:35 PM	OL-41	<b>Hardeep singh Jhinjer</b> , Manjeet Jassal, and Ashwini K. Agrawal SMITA Research Lab, Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India	Metal-Organic Frameworks Based Multifunctional Textiles

<b>Lunch (01:00 PM - 02:00 PM): Open Terrace Level 4</b>
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Plenary Session II (02:00 - 03:30 PM)			Venue: LH-111
2:00 PM	PL-04	<b>Prof. Alexander Büsgen</b> Faculty of Textile and Clothing Technology, Hochschule Niederrhein University of Applied Sciences, Germany	The Benefit of 3D Textiles for Technical Applications - Ambitions, Achievements and Challenges
2:30 PM	PL-05	<b>Prof. Michal Petru</b> Center of Nanotechnology, Advanced Materials and Innovation, Technical University of Liberec, Czech Republic	Modelling of Creep in Hybrid Composite Joints based on Fibers
3:00 PM	PL-06	<b>Dr. Rajkishore Nayak</b> Associate Professor, Fashion Enterprise, School of Communication & Design (SCD), RMIT University – Vietnam	Sustainable recycling of fashion waste collected from Australian consumers as flame-retardant mattress filling with ecofriendly chemicals

<b>Tea Break - 03:30 PM - 04:00 PM</b>
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Parallel Sessions II-A, II-B, II-C (04:00 - 06:00 PM)	LH-416, LH-418, LH-421
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LH-416	Parallel Session II-A		Textile Structural Composites - 1
4:00 PM	OL-03	<b>Prof. Yoshihiro YAMASHITA</b> , Ono Mizuki, Yamane Masachika, Uematsu Hideyuki and Tanoue Shuichi Research Center of Fibers and Materials, University of Fukui, 3-9-1 Bunkyo, Fukui 910-8507, JAPAN	Design of Thermoplastic Thin-Layer Carbon Fiber Fabrics for Aircraft, Rockets, Automobiles, and Robots
4:20 PM	OL-10	<b>Dr. Ghanshayam Neje</b> and B. K. Behera Entrepreneur	Potential of Spacer Weaving for Light Weight Composite Applications
4:40 PM	OL-50	<b>Dr. N. Sukumar</b> , Karthikeyan G and Poongodi G K.S.Rangasamy College of Technology addresses, Department of Textile Technology, Tiruchengode, Namakkal DT, Tamil Nadu	Development and characterization of enset fiber interchange double cloth reinforced composite with unsaturated polyester resin
5:00 PM	OL-53	<b>Arvind Vashishtha</b> , Soumya Chowdhury, Dharendra Sharma and B. K. Behera Department of Textile Technology, MLV Textile & Engineering College, Bhilwara (Raj.) India	An Experimental Investigation on Mechanical properties of Woven Fabric-reinforced Thermoplastic and Thermoset Composites
		<b>Sandeep Olhan</b> , Vikas Khatkar, and B.K. Behera	Mechanical and microstructural behavior of high-performance fibre-

## IJTRC Program Schedule

5:20 PM	OL-67	Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	reinforced metal matrix structural composites for automotive applications
5:40 PM	OL-60	<b>Prabhjot Singh, Javed Sheikh and B. K. Behera</b> Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Comparative flexural behaviour of UD, 2D, and 3D-woven fabric reinforced metal-faced sandwich composite panels

LH-418		Parallel Session II-B	Acoustic Textiles
4:00 PM	OL-01	<b>Prof. Mukesh Kumar Singh, Kaushal Kisho, Supriyo Chakraborty</b> Department of Textile Technology, Uttar Pradesh Textile Technology Institute, 11/208 Souterganj, Kanpur	Acoustic wall panel from rice stubble and cotton waste
4:20 PM	OL-73	<b>Dr. Prikshit Paul and B. K. Behera</b> Department of Textile Technology, Giani Zail Singh Campus College of Engineering and Technology, Bathinda, Punjab - 151001	Influence of airflow resistance on acoustic behaviour of needle-punched nonwoven structures
4:40 PM	OL-54	<b>Siddhi Vardhan Singh Rao, Apurba Das, Bipin Kumar, and Nandan Kumar</b> Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Thermoacoustic insulation behaviour of the stacked nonwoven materials and their empirical relationship
LH-418		Parallel Session II-B	Measurement and Evaluation - 1
5:00 PM	OL-04	<b>Dr. Ajit Kumar Pattanayak and Lima Pattanaik</b> Department of Textile Technology, The Technological Institute of Textile & Sciences Bhiwani, India	Measurement of Drape Profile Parameters of Woven Fabrics under Dynamic Conditions
5:20 PM	OL-47	<b>Prof. Ashwini Anil Raybagi</b> Textile Department, D.K.T.E. Society's Textile & Engineering Institute, Ichalkaranji, Maharashtra	Studies on Wicking of Fabrics with Air Jet Textured Yarns
5:40 PM	OL-65	<b>Dr. Meenakshi Ahirwar, Kajal Gupta, and B. K. Behera</b> Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Investigating the fatigue behavior of textile structural composites

LH-421		Parallel Session II-C	Sustainable Textile Production
4:00 PM	OL-75	<b>Dr. Suresh Kumar Jakhar</b> Associate Professor, Indian Institute of Management Lucknow, India	Sustainable Apparel Supply Chain Coordination
4:20 PM	OL-06	<b>Dr. Nagender Singh, Gajendra Kumar Tyagi, Amandeep Kaura, Ashvani Goyal and Mayank Parashar</b> The Technological Institute of Textile & Sciences Birla Colony, Bhiwani-127021 (Haryana), India	Towards Sustainable Fabric Production: Transforming Virgin-Recycled Cotton Blends into Rib-Knitted Textiles
4:40 PM	OL-69	<b>Shivani Negi, Akash Gupta, B. K. Behera and Santhosh P</b> Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Sustainable Geosynthetics from Textile Waste: Development, Characterization, Performance Evaluation and Comparative Analysis
LH-421		Parallel Session II-C	Sustainable Fashion
5:00 PM	OL-05	<b>Rajesh Bahl, Tarun Panwar, Rajiv Padhye and Rajkishore Nayak</b> RMIT University, Melbourne, Australia	Are Australian consumers ready to wear used clothing to practice sustainable consumption?
5:20 PM	OL-24	<b>Sumi Haldar and Prof. Madhu Sharan</b> Department of Clothing and Textiles, Faculty of Family and Community Sciences, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India	Novel Fiber from Lotus petiole - A Golden Revolution in Sustainable Textiles and Fashion World
5:40 PM	OL-56	<b>Roselyn John Pereira and Rena Mehta</b> Indian Institute of Craft and Design, Jaipur, Rajasthan-302004	Design and Evolving Traditions of Jat Patti: Sustainability and Gender Based Role Against the Backdrop of Cultural Heritage

## IJTRC Program Schedule

**Poster Presentation - 06:00 PM - 07:30 PM (Venue: Open Prism Area Level-3)**

**Conference Dinner: 07:30 PM: Open Terrace Level-4**

### DAY 2: 28th November 2023

Plenary Session III (09:00 - 10:30 AM)			Venue: LH-111
9:00 AM	PL-07	<b>Prof. Rajesh Kumar Mishra</b> Faculty of Engineering, Czech University of Life Sciences Prague, Czech Republic	Hybrid composite materials with waste fibers and biomass for advanced mechanical, thermal and acoustic applications
9:30 AM	PL-08	<b>Dr. Amir Islam</b> Director, Bally Ribbon Mills, Bally, Pennsylvania, USA	3D woven textile composites, their applications and 3D Weaves
10:00 AM	PL-09	<b>Dr. Amit Jadhav</b> Lead Textile Engineer, Textile Centre of Excellence, ResMed Asia Pte Ltd., Singapore	Laser Ablated car seat cover: An Innovation in passenger safety

**Tea Break - 10:30 AM - 11:00 AM**

Parallel Sessions III-A, III-B, III-C (11:00 AM - 01:00 PM)	LH-416, LH-418, LH-421
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LH-416	Parallel Session III-A		Textile Structural Composites - 2
11:00 AM	OL-68	<b>Dr. Vikas Khatkar</b> , Sandeep Olhan, and B. K. Behera Department of Textile and Fiber Engineering, Indian Institute of Technology Delhi, New Delhi	Damping and wear behavior of 3D woven reinforced structural composite for automotive leaf spring application
11:20 AM	OL-61	<b>Dr. Lekhani Tripathi</b> and B.K. Behera Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Design engineering of 3D woven honeycomb structures and their composites
11:40 AM	OL-70	<b>Dushyant Dubey</b> , S. P. Singh and B. K. Behera Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Static and dynamic mechanical properties of additively manufactured short carbon fiber reinforced nylon composites
12:00 PM	OL-71	<b>Soumya Chowdhury</b> and B.K. Behera Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	An Experimental Investigation on Low-velocity Impact Behavior of 3D Woven Fabric-reinforced Composites for Multi-scale Applications
12:20 PM	OL-57	<b>Parna Nandi</b> and Dipayan Das Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Nettle ( <i>Girardinia diversifolia</i> ) yarn-preform reinforced PLA green- composites for automotive structural application
12:40 PM	OL-48	<b>Ashish Hulle</b> , Uday Patil and Ravikumar Purohit Shivaji University, Kolhapur and D.K.T.E. Society's Textile and Engineering Institute, Ichalkaranji-416115, Maharashtra, India (Research Centre)	Multiobjective Optimization of Glass-Agave Americana Leaf Fibre Reinforced Intra Ply Hybrid Composites using Taguchi GRA and Response Surface Method

## IJTRC Program Schedule

LH-418		Parallel Session III-B	Nanotechnology in Textiles
11:00 AM	OL-23	<b>Dr. M. Gopiraman</b> Nano Fusion Technology Research Group, Division of Molecules and Polymers, Institute for Fiber Engineering (IFES), Interdisciplinary Cluster for Cutting Edge Research (ICCER), Shinshu University, Tokida 3-15-1, Ueda, Nagano, Japan	Electrospun nanofibers: Surface modification and potential applications
11:20 AM	OL-76	<b>Dr Jitendra Pratap Singh, Shanu Prabhakar, and Debmalya Roy</b> Department of Textile Technology, Uttar Pradesh Textile Technology Institute, Kanpur-208001, India	Design and Development of Stable 3D Hierarchical Scaffolds by Using 2D PET and PET/Fillers Nanocomposite Nanofibrous Web
11:40 AM	OL-43	<b>Preeti Singh, S. Wazed Ali, and Ravinder D. Kale</b> Fibres & Textile Processing Technology, Institute of Chemical Technology, Mumbai, India	Nano-Innovations in Textile Engineering: Transforming Fibers for Advanced Performance
LH-418		Parallel Session III-B	Measurement and Evaluation - 2
12:00 PM	OL-14	<b>Prof. KyoungOk Kim, Natsumi Suzuki, Masayuki Takatera</b> Shinshu University, Faculty of Textile Science and Technology, Ueda, Nagano, Tokida 3-15-1, Japan	Objective evaluation of shirt wrinkles while being worn using image analysis
12:20 PM	OL-79	<b>Satya Srinivas</b> Carl Zeiss India (HQ) Bangalore	ZEISS advanced multimodel microscopy techniques for engineering composite research
12:40 PM	OL-19	<b>Ashish Bhardwaj, Nagender Singh, Ajit Patnaik, and Amit Madhu</b> The Technological Institute of Textile and Sciences, Bhiwani, India – 127021	Comparative Evaluation of Fabric Hand Value in Softener-Treated Soybean, Wool, and Polyester Blended Fabrics
LH-421		Parallel Session III-C	Natural Fibre
11:00 AM	OL-11	<b>Prof. B. P. Dash, Sanat Kumar Sahoo and Saroj Kumar Pradhan</b> Professor, Department of Textile Engineering, Odisha University of Technology and Research, Bhubaneswar, Odisha, India – 751029	Analysis of the Mechanical and Corrosion Properties of Jute Fibre Composite with Graphite Filler
11:20 AM	OL-36	<b>Dr D. P. Ray, R. K. Ghosh, Avijit Das, Manjunatha BS, B Saha, I Das, I Haque, Amit Das, N. Mridha, A. Singha, Kartick K. Samanta and D.B. Shakyawar</b> Quality Evaluation and Improvement and Chemical & Biochemical Processing Divisions, ICAR-National Institute of Natural Fibre Engineering and Technology, 12 Regent Park, Kolkata -700040	Development of Retting Additives for Production of Quality Jute Fibre
11:40 AM	OL-31	<b>Shivali Sahni, Subhradeep Maitra and Deepti Gupta</b> Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Sustainable Thermal Liners from Himalayan Nettle Fibres
LH-421		Parallel Session III-C	Protective Textiles
12:00 PM	OL-28	<b>Dr. Biswa Ranjan Das, Vinay Kumar Kushwaha, Manoj Kumar Singh, Deepak Kumar Yadav, Amar Srivastava, Dev Narayan Kashyap, Ashok Kumar Yadav and Dr. Mayank Dwivedi</b> Defence Materials and Stores Research and Development Establishment (DMSRDE), Defence Research and Development Organization (DRDO), Ministry of Defence, G. T. Road, Kanpur-208013, Uttar Pradesh, India	Development of Nuclear Biological and Chemical (NBC) Protection Permeable Suit for Indian Navy
12:20 PM	OL-27	<b>Amar Srivastava, Dr. Biswa Ranjan Das, Dr. Subhankar Maity, Deepak Kumar Yadav, Manoj Kumar Singh, Vinay Kumar Kushwaha, Dev Narayan Kashyap, Ashok Kumar Yadav and Dr. Mayank Dwivedi</b> Defence Materials and Stores Research and Development Establishment (DMSRDE), Defence Research and Development Organization (DRDO), Ministry of Defence, G. T. Road, Kanpur-208013, Uttar Pradesh, India	Exploration of Functional features of Outer shell fabric for advanced level Ballistic Protective Textiles
12:40 PM	OL-66	<b>Omender Singh and B. K. Behera</b> Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Comparative analysis of energy dissipation efficiency of honeycomb liner developed with 3D woven composite, Nomex, and Aluminium for aircrew helmet

**Lunch (01:00 PM - 02:00 PM): Open Terrace Level-4**

## IJTRC Program Schedule

Plenary Session IV (02:00 - 03:30 PM)			Venue: LH-111
2:00 PM	PL-10	<b>Prof. Takeshi Kikutani</b> Professor Emeritus, School of Materials and Chemical Technology, Tokyo Institute of Technology, Japan	Development of stereocomplex crystals through melt processing of poly(lactic acid)
2:30 PM	PL-11	<b>Dr. Javed Sheikh</b> Associate Professor, Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, New Delhi, India	Development of Mosquito repellent-cum-multifunctional Textiles using Chitosan-based Microcapsules
3:00 PM	PL-12	<b>Prof. Jaroslav Mlynek</b> Department of Mathematics, Technical University of Liberec, Studentská 2, 461 17 Liberec, Czech Republic	Optimization of winding filaments in curved composite frame

**Tea Break - 03:30 PM - 04:00 PM: Open Terrace Level-4**

Parallel Sessions IV-A, IV-B, IV-C (04:00 - 06:00 PM)			LH-416, LH-418, LH-421
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LH-416		Parallel Session IV-A	Textile Chemical Processing
4:00 PM	OL-16	<b>Dr. Prasanta Kumar Panda</b> , Komal Kukreja, and Amol G. Thite Bombay Textile Research Association, Ghatkopar West, Mumbai 400086	Standard Procedure to Identify dope dyed and exhaust dyed Meta aramid Fiber/Fabric
4:20 PM	OL-64	<b>Shubham Agnihotri</b> , Javed Sheikh, S. P. Singh and B. K. Behera Focus Incubation Centre for 3D Weaving and Structural Composites, Indian Institute of Technology Delhi, New Delhi, INDIA (110016)	Fire Retardant Properties of Textile Structural Composites Prepare with Different Resins
4:40 PM	OL-08	<b>Dr. Manisha Yadav</b> , Deepti Gupta, R S Rengasamy Department of Textile Design, DLC SUPVA University, Rohtak, Haryana-124001, India	Studies on removal of dyes from aqueous solution using cellulosic fibres extracted from Pearl Millet Straw
5:00 PM	OL-12	<b>Rupali Kakaria</b> , Neha Singh and M.S. Parmar National Institute of Fashion Technology, New Delhi, India	Production of Grapefruit essential oil microcapsules and evaluation of its antibacterial properties on Cotton
5:20 PM	OL-25	<b>Thangjam Roshini</b> and Prof. Madhu Sharan Department of Clothing and Textiles, Faculty of Family and Community Sciences, The Maharaja Sayajirao University of Baroda. Vadodara, Gujarat-390002, India	Experimentation of local natural dyes on 100% pineapple yarn to produce aesthetic value-added textiles
5:40 PM	OL-35	<b>Aakanksha Agrawal</b> , Charu Gupta, and Sunita Aggarwal Department of Fabric and Apparel Science, Institute of Home Economics, University of Delhi, New Delhi	Kasim Production Efficiency: A Comparative Analysis of Fermentation Using Sugarcane Juice and Sugarcane Jaggery

LH-418		Parallel Session IV-B	Sensing and Measurement
4:00 PM	OL-59	<b>Dr. Zunjarrao Kamble</b> Assistant Professor, Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India -144008	Electro-mechanical behavior of self-sensing textile reinforced composites for in-situ structural health monitoring
4:20 PM	OL-58	<b>Amit Kumar Mandal</b> , Dipayan Das, and Maloy Kumar Singha Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	An Easy and Economical Way to Determine Large Biaxial Strain of Thin Flexible (2D) Materials
4:40 PM	OL-45	<b>Ankur Shukla</b> , Dipayan Das, and Kushal Sen Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	In situ polymerization of pyrrole via eCVP method for sensing applications
LH-418		Parallel Session IV-B	Textile Science and Applications
5:00 PM	OL-39	<b>Dr. Ashwini K Dash</b> , Pravat Kumar Sahoo, Asimananda Khandual Department of Textile Engineering, Odisha University of Technology and Research, Bhubaneswar	Enhancement of Jute fibre properties by nano-dyeing for technical applications

## IJTRC Program Schedule

5:20 PM	OL-22	<b>Dr. Rochak Rathour</b> , Sudhanshu Maurya, Dr. Apurba Das, Dr. Ramasamy Alagirusamy Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Effect of different orientation of exposure on the flame protective performance of shell fabric of Fire Protective suits
5:40 PM	OL-55	<b>Temesgen Regassa Woyessa</b> , R. Chattopadhyay, and G.V. Ramana Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Hydraulic conductivity of blended natural fibres for geotextile drainage applications

LH-421		Parallel Session IV-C	Sustainable and Circular Materials
4:00 PM	OL-78	<b>Kunal Savaji</b> , Sharad Pawar, and Rupesh Khare Grasim Industries Limited (Pulp and Fibre Innovation Centre) Plot # 1&1-A/1, MIDC Talaja, Section NC-1& NC-2, Taluka Panvel, Dist. Raigad-410208, Maharashtra, India	Innovation in Circular Materials – Cellulosic Fibres from Textile Waste
4:20 PM	OL-42	<b>Yamini Jhanji</b> , G. K. Tyagi, and Asish Bhardwaj Assistant Professor, Department of Fashion & Apparel Engineering, The Technological Institute of Textile & Sciences, Bhiwani, India 127021	Smart Sustainable Sportswear
4:40 PM	OL-44	<b>Aditi Kushwaha</b> and Deepti Gupta Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Sustainable Absorbents from Cellulosic Materials for Industrial Applications

LH-421		Parallel Session IV-C	Clothing Comfort
5:00 PM	OL-34	<b>Sudhanshu Maurya</b> , Riya Sharma, Rochak Rathour, Apurba Das, Ramasamy Alagirusamy Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Water vapour transmission characteristics of shell layer of thermal protective clothing
5:20 PM	OL-52	<b>Ranjna Kumari</b> , R.S. Rengasamy, and R. Chattopadhyay Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Absorption and spreading of liquid microdroplets simulating human sweating in yarn assembly and fabrics
5:40 PM	OL-21	<b>Md. Azharul Islam</b> , Rochak Rathour, Dr. Apurba Das, Dr. R. Alagirusamy Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, INDIA	Effect of PPI on moisture management properties of meta aramid fabrics used as fire protective textiles