



The 10th International Conference of the Textile Research and Technology Institute



"Innovative Pathways to Meet Challenges in Textile Industries and SDGs"

The Textile Research and Technology Institute

under the auspices of

His Excellency

Prof. Abdelaziz Konswa

*Minister of Higher Education
and Scientific Research*

His Excellency

Eng. Khaled Hashim

Minister of Industry

Prof. Mamdouh Moawad

*President of
the National Research Centre*

Prof. Gina El-Feky

*Acting President of the Academy of Scientific
Research & Technology*

Conference Chairperson

Prof. Samar Sami Sharaf

Dean of the Textile Research and Technology Institute, NRC

National Research Centre,

Giza - Egypt

May 4-6, 2026

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The 10th International Conference of the

Textile Research and Technology Institute

“Innovative Pathways to Meet Challenges in Textile Industries and SDGs”

4th – 6th May 2026, NRC, Cairo, Egypt

Monday, 4th of May, 2026

8:30 – 9:30

Registration

9:30 – 10:30

Opening Ceremony

Main Hall

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- Welcome speech by **Prof. Samar Sharaf**; Dean of TRTI and Conference Chairperson.
 - **Mr. Mohamed Moustafa**; CEO, Bed Janssen: A Successful Partnership between Research and Industry
 - **Mr. Ahmed Kamal**; Executive Director of the Environmental Compliance Office, Federation of Egyptian Industries.
 - **Eng. Mohamed El-Kateb**; Chairman of the Cotton and Textile Industry Holding Company.
 - **Eng. Mohamed Abdel-Ghany**; Chairman of the Engineering Syndicate
 - **Prof. Gouda Helal**; President of Heliopolis University for Sustainable Development
 - **Prof. Gina El-Fiky**; Acting President of the ASRT.
 - **Prof. Mamdouh Moawad**; President of the NRC, Cairo, Egypt.
 - **Major General Sherif El-Rashidi**; Head of the Industrial Affairs Sector, Ministry of Industry, On behalf of **H. E. Eng. Khaled Hashim**; Minister of Industry
 - **H. E. Prof. Abdelaziz Konswa**; Minister of Higher Education and Scientific Research.
 - Signing Cooperation Protocol between the NRC & Heliopolis University for Sustainable Development
 - Opening of TRTI-2026 Exhibition of Textile Products
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10:30 – 11:00	Break	Restaurant
Session I	Panel Session	Main Hall
11:00 – 12:00	Connecting Manufacturers with Global Supply Chains	
Chairmen:	Prof. Mohamed Hashem: Former President of the NRC Eng. Hany Sallam: Chairman of the Egyptian Textile Export Council	
Main Panel Members:	<i>- Prof. K. Haggag, Prof. M. Saad, and Prof. Y. Youssef (Research Sector)</i> <i>- Eng. Kh. Abo El-Makarem, Eng. M. El-Sayyad, and Eng. M. El-Kateb (Industrial sector)</i>	
Coordinator	<i>Prof. Marwa A. Ali</i>	
Session II	Plenary Session	New Main Hall
Chairpersons:	Prof. Nabil A. Ibrahim	Prof. Wafaa Anwar
12:00 – 12:30	<i>Prof. Roshan Paul</i> Institute of Textile Technology, RWTH-Aachen, Germany & Editor-in-Chief, Textile Research Journal. Biotransformation of the Textile Industry: Spotlight on Algal Biomass	
12:30 – 1:00	<i>Prof. Philippe Le Coustumer</i> Université de Bordeaux, Bordeaux Science Economique, Pessac, France. A Double-Edged Sword For The Textile Industry To Fight Microplastic & Emergent Contaminants	
1:00 – 1:30	<i>Prof. Hossam Emam</i> Textile Research and Technology Institute, NRC, Egypt. Technical Textiles: Finishing vs. Environmental Protection. “Nanostructures and Metal Organic Frameworks”	
1:30 – 2:00	<i>Prof. Mehrez El-Naggar</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Nanotechnology-Enabled Smart Textiles: From Functional Fabrics to Intelligent Wearables	
2:00 – 2:45	Lunch	Restaurant

Parallel Scientific Sessions III & IV

Session III	Sustainability in Textiles Industry	Hall A
Chairpersons:	Prof. Sherif Hassan	Prof. Usama Abdel-Hakeem
2:45 – 3:05	<i>Dr. Dalia Abdel-Hafiz</i> Department of Fashion Design, Faculty of Arts and Design, October University for Modern Sciences and Arts, Giza, Egypt. Fabric Manipulation as a Sustainable Strategy for Reintegrating Defective Denim into Creative Production	
3:05 – 3:25	<i>Eng. Hajer Adel Ezzeldin</i> Textile Printing, Dyeing and Finishing Department, Faculty of Applied Arts, Benha University, Benha, Egypt Sustainable Digital Printing as Eco-friendly Method for Trendy Customized Printing Garment	
3:25 – 3:45	<i>Chem. Ebraheem M. Shehab Eldeen</i> Faculty of Technology and Education, Suez University, Egypt Sustainable Cellulosic Knitted Fabrics: Optimization for Human Thermal Comfort and Biodegradation Performance	

Session IV	Functional Finishing	Hall B
Chairpersons:	Prof. Mohamed Higazy	Prof. Ashraf Hassan
2:45 – 3:05	<i>Prof. Amina L. Mohamed</i> Textile Research and Technology Institute, NRC, Egypt Development and Optimization of Encapsulated Bio-Based Functional Materials for Thermal and Acoustic Insulation using Cotton Fabrics	
3:05 – 3:25	<i>Dr. Aziza Hussien</i> Textile Research and Technology Institute, NRC, Egypt. A Sustainable Eco-friendly Strategy for One-Pot Dyeing & Finishing of Polyamide 6 Fabric Using Crude Extract of Endophytic Fungus <i>E. nigrum</i>	
3:25 – 3:45	<i>Dr. Heba Mohammed</i> Textile Chemistry Department, Cotton Research Institute, Agriculture Research Center, Giza, Egypt. Application of Natural Polyelectrolytes for Performance Improvement of Cotton Fabrics	

Session V	Poster Session	Main Hall
Chairpersons:	Prof. Badrya Youssef	Prof. Salah Saleh
	Prof. Soha Hamdy	

3:45 – 3:50	<i>Eng. Menna Ragab</i> Faculty of Applied Arts, Benha University, Egypt An Overview of Azo Dyes, Including Their Classification, Recent Synthesis Approaches and Their Application on Different Textiles
3:50 – 3:55	<i>Eng. Sara Ebrahim</i> Faculty of Applied Arts, Benha University, Egypt A Current Assessment of the Use of Biomaterials in Wound Care
3:55 – 4:00	<i>Eng. Mahmoud Almouregi</i> Faculty of Applied Arts, Benha University, Egypt Investigation of Mechanical and Electromagnetic Shielding Properties of Stainless-Steel Reinforced Polyester Fabrics using different weave structures
4:00 – 4:05	<i>Prof. Lamiaa K. El Gabry</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Potential Applications of Chemical Modified Acrylic Fibres
4:05 – 4:10	<i>Chem. Mary Mikhail</i> Chemistry Department, Faculty of Science, Capital University, Egypt Sustainable Textile Functionalization Using Carbon Quantum Dots: Fabrication, Performance, and Emerging Applications
4:10 – 4:15	<i>Dr. Justin Kühn</i> Institute of Textile Technology, RWTH-Aachen, Germany Development of a Knitting Process for Processing Mechanically Recycled Yarns on Circular Knitting Machines
4:15 – 4:20	<i>Eng. Noha Essam</i> Faculty of Applied Arts, Capital university, Egypt. Development of a Sustainable Warning Textile Mask for Enhanced Protection and Early Detection of Respiratory Diseases
4:20 – 4:25	<i>Prof. Nancy S. El-Hawary</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Reducing Water Footprint in Textile Dyeing
4:25 – 4:30	<i>Eng. Amira Gad</i> Faculty of Applied Arts, Capital university, Egypt. Design and Production of Shock-Absorbent Tiles from Textile Waste
4:30 – 4:35	<i>Eng. Ebtehal Kenawy</i> Faculty of Applied Arts, Capital university, Egypt. Firefighter Protective Clothing: Performance Challenges, Innovations and Sustainability Insights–A Review

4:35 – 4:40	<i>Eng. Menna Ragab</i> Faculty of Applied Arts, Benha University, Egypt Synthesis of Novel Azo Dyes Using <i>Corallina Officinalis</i> Algae Extract's Polyphenols as a Diazonium Coupler and Their Application in Textile Wet Processes
4:40 – 4:45	<i>Eng. Sara Ebrahim</i> Faculty of Applied Arts, Benha University, Egypt Sustainable Functionalization of Wool Fabrics Using Biopolymer–Clay Hybrid Systems for Enhanced Natural and Acid Dyeing Performance
4:45 – 4:50	<i>Eng. Mahmoud Almouregi</i> Faculty of Applied Arts, Benha University, Egypt Influence of Fabric Construction Elements on Comfort and Mechanical Properties of Protective Clothes
4:50 – 4:55	<i>Eng. Beishoy Nashaat Abd-elmalak</i> Textile Printing, Dyeing and Finishing Department, Faculty of Applied Arts, Capital university, Egypt. Development of High-Performance Superhydrophobic Medical Textiles with Synergistic Antibacterial Efficacy using Chitosan-encapsulated Ag/Au Bimetallic Nanostructures

Tuesday, 5th May, 2026

Session VI	Plenary Session	Main Hall
Chairpersons:	Prof. Fagr Abdel-Gawwad	Prof. Amira El-Shafei
10:00 – 10:30	Prof. Sabu Thoma Mahatma Gandhi University, Priyadarshini Hills, Kottayam, Kerala, India. Christ University, Bangalore, India Nanostructured Scaffolds for Tissue Engineering	
10:30 – 11:00	Prof. Adel El-Hadidy Faculty of Textile Engineering, Mansoura University, Mansoura, Egypt. Advanced Blood Filtration: Multi-Layer Nano-Melt-Blown Membrane for Kidney Patient Disease. From Concept to Preclinical Trials	
11:00 – 11:30	Prof. Tawfik Khattab Textile Research and Technology Institute, NRC, Egypt. Recent Advances in Optical Materials and Technologies for Anticounterfeiting Purposes	
11:30 – 12:00	Prof. Moustafa Fouda Textile Research and Technology Institute, NRC, Giza, Egypt. Application of Metal Nanoparticles: Case study report from “Lab to Fab”	
12:00 – 12:30	Coffee Break	Restaurant

Parallel Scientific Sessions: VII – VIII

Session VII	Industry, Innovation and Infrastructure	Main Hall
Chairpersons:	Prof. Samar Sharaf	Prof. Roshan Paul
12:30 – 12:50	Mr. Abdul Kader Trabouls DesertBoard Area Manager, Abu Dhabi, United Arab Emirates Manufacturer of the gulf’s most sustainable building material	
12:50 – 1:10	Dr. Mohamed El-Fiky Faculty of Engineering, Heliopolis University, Cairo, Egypt. From Waste to Wall: Engineering PFFC Panels for Modern Construction	
1:10 – 1:30	Dr. Mai El-Basel College of Engineering, Abu Dhabi University, United Arab Emirates Composite Panels Based Recycled Palm Waste Leaves in Arab Culture Interior Design as a Comparative Study	

Session VIII	Functional Colorants	Hall D
Chairpersons:	Prof. Fikry Attallah	Prof. Mohamed Mabrouk

12:30 – 12:50	<i>Prof. Ferial Tera</i> Chemistry Division, National Institute of Standards, Giza, Egypt Photofading Characteristics of Two Natural Dyes Extracted from Insect and Agricultural Waste
12:50 – 1:10	<i>Dr. Hanaa Saad</i> Textile Chemistry Department, Cotton Research Institute, Agricultural Research Center, Giza, Egypt Dyeability of Egyptian cotton fibers using natural dye in different pH
1:10– 1:30	<i>Dr. Raghda Abdel-Sattar</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Diabetic Wound Healing Using Smart Electrospun Polysaccharide Nanofiber Dressings Loaded with Herbal Oil, Marine Extract and Nanoparticles

Parallel Scientific Sessions: IX – X

Session IX	Sustainability in Textiles Industry & Cleaner Production	Hall D
Chairpersons:	Prof. Enas Abou-Taleb	Prof. Ahmed Abou-Qandeel
1:40 – 2:00	<i>Prof. Rabeay Hassan</i> Zewail City of Science and Technology, Egypt From Pollution Control to Smart Manufacturing: Sensors and Biosensors in the Textile Industry	
2:00–2:20	<i>Prof. Nour Attia</i> Gas Analysis and Fire Safety Laboratory, Chemistry Division, National Institute of Standards, Giza, Egypt Sustainable Nanomaterials as Green Tool for Textile Functionalization	
2:20– 2:40	<i>Prof. Tarek Jamil</i> Water Pollution Research Department, NRC, Egypt GHG Accounting & Carbon Border Adjustment Mechanism (CBAM)	
2:40 – 3:20	Lunch	Restaurant
Session X	Miscellaneous Session	Hall E
Chairpersons:	Prof. Magdy El-Messiry	Prof. Waleed Yahia
1:40 – 2:00	<i>Prof. Mohamed Negm</i> Chairman of International Cotton Researcher's Association-ICRA Cotton Traceability Through Supply Chain	

2:00–2:20	Prof. Mehrez El-Naggar Textile Research and Technology Institute, NRC, Giza, Egypt. Sustainable Bioactive Nanofibrous Textiles from Cellulose Acetate and Lignin Loaded with a Copper (II) Complex for Skin Protection Applications	
2:20– 2:40	Dr. Zeinab Kenawy Textile Chemistry Department, Cotton Research Institute, Agricultural Research Center, Giza, Egypt Comparison of cotton fiber quality and natural dye ability of some Egyptian cotton varieties and promising crosses	
2:40 – 3:20	Lunch	Restaurant
Parallel Scientific Sessions XI – XII		
Session XI	Recycling and Circular Economy	Hall D
Chairpersons:	Prof. Mohamed Nour	Prof. Afaf Farag
3:20 – 3:40	Prof. Suzan Sanad Cotton Research Institute, Agricultural Research Center, Egypt Transforming Garment Cutting Waste of Cotton into value-added products Toward Sustainable Textile Production	
3:40 – 4:00	Prof. Salwa Mowafi Textile Research and Technology Institute, NRC, Giza, Egypt. Electro-spun Nanofibers from Natural Fibers	
4:00 – 4:20	Dr. Marwa Abou-Taleb Textile Research and Technology Institute, NRC, Giza, Egypt. Wastes of Protein Fibres: Chemistry and Potential Applications	
Session XII	Miscellaneous Session	Hall E
Chairpersons:	Prof. Naser Gad	Prof. Mahmoud Bahgat
3:20 – 3:40	Prof. Mohamed Mabrouk Textile Research and Technology Institute, NRC, Giza, Egypt. Preparation and Characterization of Sodium Alginate from Egyptian Brown Algae	
3:40 – 4:00	Dr. Ghalia Asaad Gaber Faculty of Science, (Girls Branch), Al-Azhar University, Egypt. Green Nanotechnology Approaches for Developing Smart and Functional Textiles	

4:00 – 4:20	<i>Dr. Dina Hammouda</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Advanced Protective Textile Materials in Healthcare Applications
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Parallel Scientific Sessions XIII – XIV

Session XIII	Cleaner Production	Hall E
Chairpersons:	Prof. Eman Osman	Prof. Ahmed Youssef
4:30 – 4:45	<i>Prof. Samar Sharaf</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Honey Bee Propolis As a Sustainable, Multifunctional Agent in Textile Applications	
4:45 – 5:00	<i>Prof. Ahmed Hegazi</i> Veterinary Research Institute, NRC, Egypt Medical Importance of Bee Products	
5:00 – 5:15	<i>Prof. Amira El-Shafei</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Design and Fabrication of Sustainable Textile-Based Face Masks Treated with Propolis as a Natural Antibacterial Agent	
5:15 - 5:30	<i>Dr. Emad Tolba</i> Chemical Industries Research Institute, NRC, Egypt Polycaprolactone-Based Nanofibrous Mat Enriched with Propolis and Silver Nanoparticles: A Next-Generation Dressing for Dermal Wounds	

Session XIV	Poster Session	Main Hall
Chairpersons:	Prof. Ghalia El-Shennawy Prof. Dalia Maamoun	Prof. Manal El-Bisy
4:30 – 4:35	<i>Prof. Hend Ahmed</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Development of Multifunctional Cotton Fabrics Using Titanium Dioxide Nanoparticle Finishing	
1:35 – 4:40	<i>Eng. Marwa Youssef</i> Export and Import Control Authority, Cairo, Egypt. A comparative Study Between Photovoltaic Thread and Luminous Dyes to produce Illuminated Fabrics	
4:40 – 4:45	<i>Dr. Safia Mohamed</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Eco-Friendly Enhancement of Dyeing and Functional Printing of Cellulosic Fabrics Using Chitosan Treatment	

4:45 – 4:50	Eng. Mahmoud Azzam Faculty of Applied Arts, Capital university, Egypt. Enhancing the Productivity of Reclaimed Sandy Soils Using Multilayer Jute Geotextiles
4:50 – 4:55	Dr. Meram S. Abdelrahman Textile Research and Technology Institute, NRC, Giza, Egypt. Stimuli-Responsive Materials for Smart Fibers and Advanced Applications
4:55 – 5:00	Dr. Heba Abdel Tawab Faculty of Specific Education, Cairo University, Egypt Optimization of the Performance Properties of Elastic Bandage Fabrics to Enhance Stability and User Comfort
5:00 – 5:05	Prof. Fatma Abdelghaffar Textile Research and Technology Institute, NRC, Giza, Egypt. Biogenic Synthesis and Evaluation of Producing Copper Oxide Nanoparticles via <i>Stenotrophomonasrhizophila</i> Strain SS for Multifunctional Biological Applications
5:05 – 5:10	Prof. M. A. Ali Textile Research and Technology Institute, NRC, Giza, Egypt. Braided Cotton and/or Polyester Supported with Sisal Fibers as a Sustainable Products Novel Braiding Products Based on Renewable and Eco-Sisal Fibers
5:10 – 5:15	Dr. Safia Mahmoud Textile Research and Technology Institute, NRC, Giza, Egypt. Green and Sustainable Encapsulation of Blood Deer Extracts into Nano-chitosan/Calcium Alginate Microcapsules for Multifunctional Dyeing of Cotton and Wool
5:15 – 5:20	Chem. Doaa L. Abd Elrazik Faculty of Science, Menoufia University, Egypt Sulfa Drug-Derived Pyrano[2,3-c]pyrazole Azo Dyes for High-Performance Multifunctional Textiles: Superior Dyeing Efficiency, Nano-Amplified Bioactivity, and In Silico Mechanistic Insight
5:20 – 5:25	Chem. Hager M. Y. Okda Textile Research and Technology Institute, NRC, Giza, Egypt. Eco-Friendly X-Ray Shielding Textiles: Multilayer Deposition of Bismuth Oxide and Tungsten Oxide in PVA on Knitted Cotton Fabrics
5:25 – 5:30	Eng. Rania Farid Abdelkhalek Faculty of Applied Arts, Benha University, Egypt Development of Antimicrobial Textile Finishing Agent Based on Copper Nanoparticles

Wednesday, 6th of May, 2026

Session XV	AI-Driven manufacturing in textiles & fashion	Main Hall
Chairperson:	Prof. Adel El-Hadidy	Prof. Sherwet El-Ghalmy
10:00 – 10:20	<i>Dr. Hanaa Abd El-Wahab</i> Founder & CEO of SRBA Academy Artificial Intelligence and the Future of Scholarship: Research, Writing, and Statistics	
10:20 – 11:40	Prof. Manal Rekaby Textile Research and Technology Institute, NRC, Giza, Egypt. Artificial Intelligence in Textile Wet Processes	
10:40 – 11:00	<i>Dr. Marwa Elmor</i> Faculty of Textile Engineering, Alexandria University, Egypt Quantitative Recognition of Textile Architectures: Performance Analysis of a Novel AI Framework under Real-World Conditions	
11:00 – 11:20	Dr. Mona Shawky Textile Research and Technology Institute, NRC, Giza, Egypt. Integrating Artificial Intelligence into Textile Production and Analytical Testing Frameworks	

11:20 – 11:45	Coffee Break	Restaurant
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Parallel Competition Sessions I – II

Session I	Postgraduate Projects	Main Hall
Chairpersons:	Hidden	

11:40 – 12:30	<i>Group A-1</i>	<i>(Competitor 1 – Competitor 10)</i>
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Session II	Graduation projects	New Main Hall
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Chairpersons: Hidden

11:40 – 12:50	<i>Group B-1</i>	<i>(Competitor 1 – Competitor 14)</i>
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Parallel Competition Sessions III – IV

Session III	Postgraduate Projects	Main Hall
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Chairpersons: Hidden

12:45 – 1:30	<i>Group A-2</i>	<i>(Competitor 11 – Competitor 19)</i>
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1:30 – 1:45	Refreshment	Restaurant
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Session IV	Graduation Projects	New Main Hall
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Chairperson: Hidden

12:55 – 2:00	<i>Group B-2</i>	<i>(Competitor 15 – Competitor 27)</i>
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2:00 – 2:10	Refreshment	Restaurant
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Parallel Scientific Sessions XVI – XVII

Session XVI	Multidisciplinary Arabic Session	Main Hall
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Chairpersons: Prof. Mahmoud H. El-Shakankiry Prof. Yasser Eid

2:00 – 2:15 *Eng. Noora Hassan Al-amari*
 Department of the Fashion and Textile, Faculty of Human Sciences and Design, King Abdulaziz University, Jeddah, KSA
Improving the thermal comfort of viscose fabrics using thermal regulation treatments, moisture management and silicone treatment

2:15 – 2:30	<i>Eng. Shatha Ali Alamoodi</i> Department of the Fashion and Textile, Faculty of Human Sciences and Design, King Abdulaziz University, Jeddah, KSA Designing a Functional Hiking Vest Using the Person–Environment Fit (P–E Fit) Framework to Enhance Performance and Comfort in Saudi Arabia’s Natural Environments
2:30 – 2:45	<i>Eng. Rehab Reda</i> Department of the Fashion and Textile, Faculty of Human Sciences and Design, King Abdulaziz University, Jeddah, KSA Ergonomic Micro-Break Exercises as a Low-Cost Intervention to Improve Productivity and Worker Well-Being in Garment Manufacturing Environments: A Systematic Review and Practical Guide
2:45 – 3:00	<i>Eng. Fadia Mufleh Saleh Alkhatabi</i> Department of the Fashion and Textile, Faculty of Human Sciences and Design, King Abdulaziz University, Jeddah, KSA An Integrated Application of Effective Design Strategies in the Apparel Industry: A Model for Calculating Production Cost

Session XVII	Functional Finishes & Coloration	Hall A
Chairpersons:	Prof. Magda Kamel	Prof. Sahar Fawzy
2:00 – 2:20	<i>Prof. Mohamed Mabrouk</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Utilization of Sodium Alginate Extracted from Egyptian Algae in Transfer Printing of Polyester and Nylon 6	
2:20 – 2:40	<i>Prof. Najia Ali</i> Textile Research and Technology Institute, NRC, Giza, Egypt. Sustainable Application of Natural Dyes on Wool Fibers Pretreated with Chitosan/Propolis Nano Composite and Its Antimicrobial Activity	
2:40 – 3:00	<i>Dr. Thanaa Fawzy</i> Textile Research and Technology Institute, NRC, Giza, Egypt. A benign synergism of an oxidant and a deep eutectic solvent for anti-felting of wool	
3:00 – 4:00	Fashion Show for Sustainable Textile Articles	Main Hall
4:00 – 4:15	Recommendations & Students’ Competition Results	Main Hall

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