



11th INTERNATIONAL TEXTILE, CLOTHING & DESIGN CONFERENCE

Magic World of Textiles

FINAL PROGRAMME

Organized by:

University of Zagreb
Faculty of Textile Technology
Zagreb, Croatia

Under the Auspices of:

MINISTRY OF SCIENCE, EDUCATION AND YOUTH, Zagreb, Croatia
UNIVERSITY OF ZAGREB, Zagreb, Croatia
THE CROATIAN CHAMBER OF ECONOMY (HGK), Zagreb, Croatia
CROATIAN ACADEMY OF ENGINEERING (HATZ), Zagreb, Croatia
DANUBE ADRIA ASSOCIATION FOR AUTOMATION & MANUFACTURING (DAAAM), Vienna, Austria
ASSOCIATION OF UNIVERSITIES FOR TEXTILES (AUTEX), Ghent, Belgium
THE INTERNATIONAL FEDERATION OF KNITTING AND WARP KNITTING PROFESSIONALS
(IFWS / IFKT), Reutlingen, Germany
TEXTILE SCIENCE RESEARCH CENTER (TSRC), Zagreb, Croatia
CROATIAN ASSOCIATION OF TEXTILE ENGINEERS (HIST), Zagreb, Croatia
THE FIBER SOCIETY, Athens, Georgia, USA
INTERNATIONAL TECHNICAL COMMITTEE FOR TEXTILE CARE (ICTC), Ophemert, Netherlands

Dubrovnik, CROATIA
October 6th to October 9th, 2024

The Faculty of Textile Technology, University of Zagreb, has once more organised the 11th International Textile, Clothing and Design Conference in Dubrovnik, making this conference traditional. The aim of the ITC&DC 2024 is to promote textile, clothing and footwear technology and design, through interdisciplinary approach. For over twenty years, the ITC&DC conference serves as a platform to exchange knowledge, experiences and research results on all aspects across the fashion, textile, and apparel industry. Our growing ITC&DC family will once more enjoy networking and exchange ideas.

Out of 81 papers received, the International Review Committee has accepted 67 papers from 145 authors coming from 16 countries, and 56 of them are published in 2024 Book of Proceedings.

These scientific papers are published in their integral form in the Book of Proceedings of the 11th ITC&DC 2024, and will be presented in one of the following sections:

- A Textile fibres and advanced materials
- B Textile finishing, dyeing and care
- C Clothing technologies and engineering
- D Analysis, testing and quality control
- E Design and marketing of textile and clothing
- F Sustainable textile products and processes.

We would like to express our sincerest thanks to all the participants for their valuable contribution and readiness to spend a part of their time in Dubrovnik, making the picture of the Magic World of Textiles more valuable and more real. We express special thanks to the domestic and international scientific associations that have accepted to be the patrons of the 11th International Textile, Clothing and Design Conference (ITC&DC 2024). Our sincerest gratitude also goes to all the individuals and institutions that have helped us organise the 11th ITC&DC 2024.

ITC&DC Team will try to do everything necessary to realise the aims of the Conference and to make all the participant feel welcome guests in Croatia.

Welcome to Dubrovnik!

ITC&DC Team

International Scientific/Programme Committee of the 11th ITC&DC 2024**President:**

Zvonko DRAGČEVIĆ, University of Zagreb, Zagreb, Croatia

Vice-president:

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Members:

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Branko KATALINIĆ, Vienna University of Technology, Vienna, Austria

Thomas LUXBACHER, Anton Paar, Graz, Austria

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Organizing Committee of the 11th ITC&DC 2024 (ITC&DC Team)

Katia GRGIĆ, Selma IMAMAGIĆ, Zorana KOVAČEVIĆ, Maja MATUŠIN, Tanja PUŠIĆ, Bosiljka ŠARAVANJA, Ivana ŠPELIĆ (President), Edita VUJASINOVIĆ

Coordinators of the 11th ITC&DC 2024:

Section A - Textile fibres and advanced materials: Andrej DEMŠAR
Section B - Textile finishing, dyeing and care: Tanja PUŠIĆ
Section C - Clothing technologies and engineering: Jelka GERŠAK
Section D - Analysis, testing and quality control: Rimvydas MILAŠIUS
Section E - Design and marketing of textile and clothing: Antonela CURTEZA
Section F - Sustainable textile products and processes: Alka MIHELIC-BOGDANIĆ

Registration desk: Ivana ŠPELIĆ & Selma IMAMAGIĆ

Technical assistance: Marin ŠPERANDA

GENERAL INFORMATION

11th ITC&DC 2024 will start on Sunday, October 6th to Wednesday October 9th 2024 in the Centre for Advanced Academic Studies (CAAS) in the heart of the historic city centre of Dubrovnik (area Pile), Don Frana Bulića Street 4 (see map).

Information desk is in operation at the CAAS during the Conference. All details and necessary information on the contents and schedule of the Conference, as well as other relevant matter, will be available there for the participants and guests.

All participants during the conference should bring accreditation and appropriate tickets for individual events.

FINAL PROGRAMME

Sunday, October 6th 2024, Arrival day

17:00 – 20:00	Registration of authors and other participants
19:30 – 20:00	Meeting of International Scientific Committee and Coordinators of Sections (Conference Hall 2)
20:00 – 21:30	Welcome party (CAAS)

Monday, October 7th 2024

08:00 – 09:00	Registration of authors and other participants	
09:00 – 09:30	Opening ceremony (Conference Hall 1)	
09:30 – 10:30	Plenary lecture (Conference Hall 1)	
10:30 – 11:00	Coffee break (Restaurant Atrium, CAAS)	
11:00 – 12:30	Expert focus lecture (Conference Hall 1)	
12:30 – 12:45	AUTEX presentation (Conference Hall 1)	
12:45 – 14:00	Conference lunch (Restaurant Atrium, CAAS)	
14:00 – 15:30	Oral presentation – Section B, D & E	
	B1 – B4 & E1	D1 – D5
15:30 – 17:00	Poster presentations and discussion – Section A & F	
	AP1 – AP8	FP1 – FP8
20:00- 21:00	Evening entertainment (LINDO)	

Tuesday, October 8th 2024

09:00 – 10:30	Oral presentation – Section A & F	
	A1 – A6	F1 – F6
10:30 – 11:00	Coffee break (Restaurant Atrium, CAAS)	
11:00 – 12:30	Oral presentation – Section A & F	
	A7 – A8 & C1 – C2	F7 – F10
12:30 – 14:00	Conference lunch (Restaurant Atrium, CAAS)	
14:00 – 15:00	Poster presentations and discussion – Section B & C	
	BP1 – BP5 & CP1 – CP3	
	Poster presentations and discussion – Section D & E	
		DP1 – DP6 & EP1
15:00 – 16:00	Closing ceremony (Conference Hall 1)	
20:00	Conference dinner (Restaurant Akademis Academia)	

Wednesday, October 9th 2024

10:00	Official ITC&DC excursion for authors and other participants
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	Conference Hall 1
	Conference Hall 2

Monday, October 7th 2024**09:30 – 10:30 Plenary lecture (Conference Hall 1)**

Daniela ZAVEC
Smart Textiles for Flexible Intelligence

Chair person: Savvas G. VASSILIADIS & Anica HURSA ŠAJATOVIĆ

11:00 – 12:30 Expert focus lectures (Conference Hall 1)

Lidija FRAS ZEMLJIĆ
Innovative Advancements in Textile Chemistry and Sustainable Materials: Achievements of the Research Program Group P2 0118

Chair persons: Tanja PUŠIĆ & Jaime C. GRUNLAN

Torsten TEXTOR
Interdisciplinary Product Development in Research and Education – with some Examples from Smart Textiles

Chair persons: Klaus OPWIS & Ivana ŠPELIĆ

14:00 – 15:30 Section B: Textile finishing, dyeing and care (Conference Hall 1)

Chair person: Torsten TEXTOR

B1	DOMINIĆ Ines, KOVAČEVIĆ Zorana, BISCHOF Sandra <i>Pretreatments of Energy Culture Miscanthus X Giganteus for Fibers Isolation</i>
B2	GUL Zarnab; IQBAL Kashif & MILASIENE Daiva <i>Multifunctional Coconut Oil Based Microcapsules for Functional Textile</i>
B3	GOFMAN Rasa & MILAŠIUS Rimvydas <i>Antimicrobial Treatment Beyond Microbes: Antistatic Potential for Enhanced Industrial Textile</i>
B4	JORDANOV Igor & PETKOVSKA Jovana <i>Sustainable Multilayer Finishing of Textile Materials</i>

14:00 – 15:30 Section: E: Design and marketing of textile and clothing (Conference Hall 1)

Chair person: Elizabeth RAMOS KALMAR

E1	BİRSEN Sinem & SARIÇAM Canan <i>A Research on Big Data Applications in the Retail Sector</i>
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14:00 – 15:30 Section D: Analysis, testing and quality control (Conference Hall 2)

Chair person: Holger CEBULLA

D1	BİRSEN Sinem & SARIÇAM Canan <i>The Comparison of Comfort Properties of Non-Recycled and Recycled Fabrics</i>
D2	CENGİZALP Burhan; MANCAR Barış; DURUR Güngör <i>Towel Performance Evaluation in Textile Engineering: Loop Tensile Force Analysis</i>
D3	DRACZYNSKI Zbigniew, LARA Ninon, MUCHINGANI Alvinton Takunda, AKCALI Yigit, EMMERICH Rebecca & BARBURSKI Marcin <i>Mechanical and Anti-Inflammation Properties of Composites Made Of Poly(L-Lactic Acid) and Flax Nonwovens</i>
D4	MIHOVILOVIĆ Petra & VOJNOVIĆ Branka <i>The Possibility of Using an AZO Dye in the Determination of Chitosan in Textile Wastewaters</i>
D5	MILEIKA Evelina, GORNEVS Ilgvars, JURKĀNS Vilnis, BALGALE Ilze, BALTIŅA Ilze & BLŪMS Juris <i>Determining Triboelectric Properties of Textiles</i>

Monday, October 7th 2024**15:30 – 17:00 Poster presentation****Section A: Textile fibres and advanced materials**

AP1	CSISZÁR Emília, MIRANDA Mik & FEKETE Erika <i>Atmospheric Air Plasma Treatment of Natural and Synthetic Fibres: Degradation Phenomena</i>
AP2	JANČIČ Urška; TRČEK Janja; VERESTIUC Liliana; GORGIEVA Selestina <i>Bioactive Bacterial Nanocellulose for Enzymatic Burn Debridement</i>
AP3	KUREČIČ Manja; ŠKODIČ Lidija; ŠTANC Darko; NERAL Branko; BERGLEZ Laura & HRIBERNIK Silvo <i>Utilization of Waste Silk Cocoons for Innovative Material Production: A Pathway towards Sustainable Solutions</i>
AP4	MRDULJAŠ Branka; PAVUNC SAMARŽIJA Marijana; BARIČEVIĆ Ana & VUJASINOVIĆ Edita <i>Mechanical Performance of Basalt Fibres Under Alkaline Conditions</i>
AP5	OJSTRŠEK Alenka & JUG Laura <i>Synthesis and Characterisation of $Ti_3C_2T_x$ Mxenes for Electroconductive Functionalisation of Textiles</i>
AP6	PUŠNIK ČREŠNAR Klementina; FINŠGAR Matjaž & FRAS ZEMLJIČ Lidija <i>Surface Property Relations in Fibre-Reinforced Recycled Polymer Material</i>
AP7	TOMČIKOVÁ Zita; KRIVOŠ Štefan & HRBÁL František <i>A Planned Experiment for the Development and Preparation of PLA Fibres with Improved Elongation</i>
AP8	UJHELYIOVÁ Anna; GREGOROVÁ Jana; JANČOVIČOVÁ Viera; ANNUS Július; HRICOVÁ Marcela & PETKOVÁ Mária <i>Dyed PLA Fibres for Textile Applications</i>

15:30 – 17:00 Poster presentation**Section F: Sustainable textile products and processes**

FP1	CSISZÁR Emília, KUN Dávid, FEKETE Erika <i>Nanocelluloses from Cotton and Flax Fibres and Their Properties</i>
FP2	HANDJISKI Vasil, VEIT Neja, ERJAVEC Alen & VOLMAJER VALH Julija <i>Studies on the Environmental Impact of Garden Cover</i>
FP3	HRIBERNIK Silvo; BERGLEZ Laura; ŠKODIČ Lidija; ŠTANC Darko; NERAL Branko & KUREČIČ Manja <i>Advancing Bacterial Nanocellulose Production: From Scoby Medium to Oriented Filaments</i>
FP4	POPA Lavinia & CURTEZA Antonela <i>Upcycling in the Fashion Industry</i>
FP5	JOHN Athira, PUŠNIK ČREŠNAR Klementina, PEREIRA PASSOS Cláudia, BIKIARIS Dimitrios, FRAS ZEMLJIČ Lidija <i>Innovative Functional Coatings from Waste for Polymer-Based Films and Fibers</i>
FP6	RAMOS KALMAR Elizabeth <i>Ecofashion Lifestyle: Development of Circular Fashion Accessories for a Sustainable Future – Case Study</i>
FP7	STREBA Iuliana & CURTEZA Antonela <i>Sustainable Design Approaches for the Fashion Industry</i>
FP8	ŠPELIĆ Ivana, MIHELIĆ-BOGDANIĆ Aika & ŠIPRAK Lucija <i>Energy Diversification and Savings in Polyisoprene Production</i>

Tuesday, October 8th 2024**09:00 – 10:30 Section A: Textile fibres and advanced materials (Conference Hall 1)**

Chair persons: Emília CSISZÁR

A1	BARBURSKI Marcin; LEMMI Tsegaye; PONIECKA Agata & EMMERICH Rebecca <i>Impact Properties of Natural Fiber Reinforced Composites</i>
A2	ÇAY Ahmet; TÖNGÜÇ YALÇINKAYA Tuğçe; İŞILAY Mert; BOZACI Ebru; DUMAN TAÇ Gözde; AKÇAKOCA KUMBASAR E. Perrin; YANIK Jale <i>Carbon Dioxide Capture of Wool-Based Activated Carbon Fibers by Chemical Activation with K₂CO₃</i>
A3	ČUK Nina; SIMONČIČ Barbara; FINK Rok & TOMŠIČ Brigita <i>Unveiling the Impact of Cotton Surface Free Energy on Bacterial Adhesion Properties</i>
A4	GORGIEVA Selestina; JANCÍČ Urška; HREN Maša; TRČEK Janja <i>Grape Waste in Bacterial Nanocellulose Production</i>
A5	GRUNLAN Jaime C. <i>Textiles with Thermoelectric and/or Flame Retardant Behavior from Aqueous Polyelectrolyte Complexes</i>
A6	KYZYMCHUK Olena; ARABUL Svitlana, PILLING Tilo & HALAVSKA Liudmyla <i>Effect of a Metal Wire on the Structure of Hybrid Knitted Fabric</i>

11:00 – 12:30 Section A: Textile fibres and advanced materials (Conference Hall 1)

Chair persons: Yordan KYOSEV

A7	OPWIS Klaus & SCHNEIDER Jessica, MAYER-GALL Thomas & GUTMANN <i>Textiles with Catalytic Properties</i>
A8	PUPEIKĖ Julija, SANKAUSKAITĖ Audronė, VARNAITĖ-ŽURAVLIOVA Sandra, RUBEŽIENĖ Vitalija, ABRAITIENĖ Aušra & BALTUŠNIKAITĖ Julija -GUZAITIENĖ <i>Application of Pedot: PSS for Electrically Conductive and Wear-Resistant Coating</i>

11:00 – 12:30 Section C: Clothing technologies and engineering (Conference Hall 1)

Chair person: Bosiljka ŠARAVANJA

C1	GERŠAK Jelka <i>Investigation of the Phenomenon of Welded Seam Strength</i>
C2	KYOSEV Yordan; NAAKE Anselm <i>Correlation Between Panel Test and Tissue Softness Analyzer Regarding Textile Handle for a Textile Fabrics</i>

Tuesday, October 8th 2024**09:00 – 10:30 Section F: Sustainable textile products and processes (Conference Hall 2)**

Chair person: Sandra BISCHOF

F1	BASHO Megi & CEBULLA Holger Maximizing Sustainability: Advanced Techniques in Recycling Wool and Wool Blends
F2	BREITMOZERÉ Inga, DARGIENÉ Jovita, DOMSKIENÉ Jurgita Readability Analysis of QR Code Application in Intense Wear and Care Clothing Labelling
F3	CEYLAN Özgür, AYDIN Emel, TAŞ Irmak, KILIÇ Nesligül, AK Neslihan, KARAMANLARGİL Ecem & GÖKAY Ecem Naturally Dyed, Naturally Different: Pioneering Sustainable Denim with Naturally Colored Cotton
F4	CEYLAN Özgür, KILIÇ Nesligül, AYDIN Emel, TAŞ Irmak, AK Neslihan & KÜÇÜKERDEM Elçin Fabricating Change: Investigating Sustainable Fiber Adoption in Fashion Collections
F5	CSANÁK Edit AI-Supported Fashion Designing: Exploring Sustainable Aspects
F6	ERJAVEC Alen; BRUNČKO Mihael; KOLER Amadeja; KRAJNC Peter; SZPARAGA Grzegorz & VOLMAJER VALH Julija Mechanical Recycling Potentials of Used Disposable Surgical Masks

11:00 – 12:30 Section F: Sustainable textile products and processes (Conference Hall 2)

Chair person: Julija VOLMAJER VALH

F7	DEMŠAR Andrej, SVETINA Matija & PAVLIHA Marko Holistic Thinking and Acting
F8	RAMOS KALMAR Elizabeth Threads of Nature: Mapping the Variations of Natural Dyes for Textiles and Sustainable Design – Case Study
F9	Shak SADI Mohammad & KUMPIKAITĒ Eglē Turning Waste into a Resource; using Waste Poplar Seed Fibers to Develop Multifunctional E-Textiles
F10	ŠPELIĆ Ivana & MIHELIĆ-BOGDANIĆ Alka Ecological Advances using Economizer in EVA Rubber Manufacturing

Tuesday, October 8th 2024**14:00 – 15:00 Poster presentation****Section B: Textile finishing, dyeing and care**

BP1	KOVAČEVIĆ Zorana, BOTTERI Lea & GRGIĆ Katia <i>Assessing Flame Retardant Effects: Impregnation vs. Coating on Cotton Fabric with Urea/Ammonium Dihydrogen Phosphate</i>
BP2	MILASIENE Daiva; BUTENAITE Gabriele & IVANAUSKAS Remigijus <i>Copper-Containing Particles Finishing of Industrial Textile Waste for New Functional Composites</i>
BP3	NERAL Branko, ŠKODIČ Lidija, ŠTANC Darko & KUREČIČ Manja <i>Evaluation of Moisture Content in Household Textiles during Drying with Non-Contact NIR Spectroscopy</i>
BP4	ŠARAVANJA Bosiljka; PUŠIĆ Tanja; MALARIĆ Krešimir & HURSA ŠAJATOVIĆ Anica <i>Stability of EMR Protective Properties of Functional Fabric with Metal Threads</i>
BP5	VINČIĆ Agata; PUŠIĆ Tanja; DIMITROV Nino & POSAVEC David <i>Determination of the Amount of Released Fiber Microparticles in the Washing of Standard Polyester Knitted Fabric</i>

14:00 – 15:00 Poster presentation**Section C: Clothing technologies and engineering**

CP1	ŠARAVANJA Bosiljka, IMAMAGIĆ Selma, MARKOVIĆ Paula & HURSA ŠAJATOVIĆ Anica <i>Setting Standard Time for the Technological Process of Sewing Women Lab Coat Vera</i>
CP2	KIRIN Snježana & HURSA ŠAJATOVIĆ Anica <i>Investigation of Work-Related Musculoskeletal Disorders in Female Workers during Sewing</i>
CP3	PETEŠIĆ Mia & HRŽENJAK Renata <i>Postmodern Architecture Represented by a Modern Collection of Women's Blouses</i>

14:00 – 15:00 Poster presentation**Section D: Analysis, testing and quality control**

DP1	ČERNAVSKAJA Ana & ANCUTIENĖ Kristina <i>3d Virtual Fitting Technology to Evaluate Compression in Functional Garments with Adhesive Systems</i>
DP2	FORTE TAVČER Petra Eva, FINK Rok, PODKORITNIK Andrej & TOMŠIČ Brigita <i>Assessing Laundry Habits and Washing Machine Cleanliness in Slovenian Households</i>
DP3	PAVUNC SAMARŽIJA Marijana; MAMIĆ Martina; NJEGAČ Suzana & VUJASINOVIĆ Edita <i>Fibers Identification in Papers Archival Materials</i>
DP4	RINTALA Niko & ARVEZ Enni <i>Improving Separation of Natural Fibers with Similar Chemical Structure Utilizing NIRS</i>
DP5	TKALEC Marijana; ČORAK Ivana & GLOGAR Martina <i>Analysis of Sorption Properties of Textile Material as a Key Behavioral Factor of Printing Ink in Digital Inkjet Printing</i>
DP6	TKALEC Marijana; GLOGAR Martina, FORTE TAVČER Petra & PENAVA Željko <i>Fabric Structure – Digital Inkjet Colour Reproduction Analysis and Interaction</i>

14:00 – 15:00 Poster presentation**Section E: Design and marketing of textile and clothing**

EP1	ČORAK Ivana, ERCEGOVIĆ RAŽIĆ Sanja, GLOGAR Martina, GATTI Cristina, GONÇALVES Pedro & VANTYGHEM Dirk <i>Addressing Skills Gaps in the European Textile, Clothing, Leather and Footwear Industries, Emphasizing Equality, Innovation, and Resilience (AEQUALIS4TCLF)</i>
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MANNER OF PRESENTATION

For the papers to be **orally presented**, presentation is limited to 15 min and 5 min for discussion after all presentation.

An PC and LCD projector will be available for the participants wishing to accompany oral presentation of their papers with a Microsoft PowerPoint presentation. **These participants are requested to submit an USB stick for each paper at the registration.** Please name your presentation as:

Section_Name and Surname of the presenter.

The USB sticks will be returned to the authors.

For the papers to be **poster presented**, the posters should be prepared in 1189 mm high and 841 mm wide (A0 format). Letters should be of such a size that can be read from 1 m distance.

The title is an integral part of the poster and should include:

Paper title

Name of author(s)

Institution

Address of author(s)

The posters should be on boards as follows:

- for the presentation on October 7th in sections A and F: 15:30 – 17:00

- for the presentation on October 8th in section B & C and D & E: 14:00 – 15:00

After poster presentation in sections, the authors are required to remove their poster materials.

CONFERENCE FEE

Conference fee for authors and participants (in EUR):

Regular participants	650
Young scientists	450
Accompanying person	400

Participants that have not paid their conference fee via bank transfer should settle their dues according to pro-forma invoices sent to their e-mail accounts (in EUR).

Registration fee for the individual authors (both regular participants and young scientists) include access to all the sessions, conference proceedings and materials, welcome cocktail, conference lunches (2), refreshments at conference coffee breaks, official ITC&DC excursion, a ticket for the evening entertainment and a ticket for the conference dinner.

Registration fees for the accompanying persons include admission to all sections, welcome cocktail, conference lunches (2), refreshments at conference coffee breaks, official ITC&DC excursion, a ticket for the evening entertainment and a ticket for the conference dinner.

The participants are cordially invited to attend Musical performance at Lazareti with beginning at 20:00 on October 7th, 2024.

Conference dinner with music will be organised on October 8th, 2024 at 20:00 in the Akademis Academia restaurant (Marka Marojice 2b, 20000, Dubrovnik) and **is included in the registration fee.**

ITC&DC excursion for the authors and accompanying persons will be organised on October 9th, 2024 with departure from Pile at 10:00 to the late evening hours.

TRAVEL INFORMATION

The Dubrovnik airport (Ćilipi) is 20 km away from the town (and the Centre for Advanced Academic Studies CAAS). There is a taxi service at the airport, as well as a regular bus line.

All the other relevant information on your accommodation and stay in Dubrovnik you can find in your Dubrovnik Guide, which is a part of the conference material and will be distributed to each participant.



Monday, October 7 th 2024			
①	12:45 – 14:00	CONFERENCE LUNCH (Restaurant Atrium, CAAS)	
②	20:00	CONCERT (Lindo folk group, Lazareti)	
Tuesday, October 8 th 2024			
①	12:30 – 14:00	CONFERENCE LUNCH (Restaurant Atrium, CAAS)	
③	20:00	CONFERENCE DINNER (Restaurant Akademis Academia)	
Wednesday, October 9 th 2024			
④	10:00 – 20:00	OFFICIAL ITC&DC EXCURSION (area PILE)	

We are here to welcome you!

LIST OF SPONSORS / DONATORS

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