5th 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:

President of the Republic of Croatia, Prof. Ivo Josipović, Ph.D.
Ministry of Science, Education and Sport, Republic of Croatia, Zagreb, Croatia
University of Zagreb, Zagreb, Croatia
 Croatian Academy of Engineering, Zagreb, Croatia
 DAAAM International, Vienna, Austria
 AUTEX, Ghent, Belgium
 AATCC, Research Triangle Park, USA
 ESCORENA, Poznan, Poland
 The Textile Institute, Manchester, UK
 Society of Dyers and Colourists, Bradford, UK
 Internacional Federation of Knitting Technologists, Reutlingen, Germany
 Croatian Society of Chemical Engineers, Zagreb, Croatia
 Croatian Chamber of Economy, Zagreb, Croatia
 CARNet, Zagreb, Croatia

Dubrovnik, CROATIA
October 3rd to October 6th, 2010
The Faculty of Textile Technology, University of Zagreb, has organised the 5th International Textile, Clothing and Design Conference in Dubrovnik, making our wish that the conference (ITC&DC) become a traditional one real. This conference is aimed at opening new roads in the development of global textiles, garment and fashion design, and to offer most recent knowledge to those who are able to use it.

Out of all the papers received, the International Review Committee has accepted 168 papers from 36 countries. They are printed in their integral form in the Book of Proceedings of the 5th ITC&DC 2010, and will be presented in one of the following sections:

A - Textile Fibres and Advanced Materials  
B - Manufacture of Yarns, Fabrics and Nonwovens  
C - Textile Finishing, Dyeing and Care  
D - Clothing Technologies and Engineering  
E - Analysis, Testing and Quality Control  
F - Design and Marketing of Textile and Clothing  

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.

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!
President: Ivo SOLJAČIĆ, University of Zagreb, Zagreb, Croatia

Members:
Dominique C. ADOLPHE, ENSISA, Mulhouse, France
Mário Duarte de ARAUJO, University of Minho, Guimarães, Portugal
Aleksa BJELIŠ, University of Zagreb, Croatia
Hans-Jürgen BUSCHMANN, German Textile Research Centre North-West, Krefeld, Germany
Antonela CURTEZA, University of Lassay, lassy, Romania
Krste DIMITROVSKI, University of Ljubljana, Ljubljana, Slovenia
Zvonko DRAČEVIĆ, University of Zagreb, Zagreb, Croatia
Jelka GERŠAK, University of Maribor, Maribor, Slovenia
Richard HORROCKS, University of Bolton, Bolton, Great Britain
Hüseyin KADOGLU, Ege University, Izmir, Turkey
Branko KATALINIČ, Vienna University of Technology, Vienna, Austria
Ryszard M. KOZLOWSKI, Institute of Natural Fibres & Medicinal Plants, Poznan, Poland
Silvija KUKLE, Riga Technical University, Riga, Latvia
Anatoly V. KULICHENKO, St Petersburg State University of Technology and Design, St Petersburg, Russia
Raechel LAING, University of Otago, Dunedin, New Zealand
Anton MARCINČIN, Slovak Technical University, Bratislava, Slovakia
Heikki MATTILA, Tampere University of Technology, Tampere, Finland
Jiří MILITKY, Technical University of Liberec, Liberec, Czech Republic
Ron POSTLE, University of New South Wales, Sydney, Australia
Darko UJEVIĆ, University of Zagreb, Zagreb, Croatia
Norma STARSZAKOWNA, The London Institute, London, Great Britain
George STYLIOS, Herriot-Watt University, Galashiels, Great Britain
Xunqai WANG, Deakin University, Geelong Victoria, Australia
Charles Q. YANG, The University of Georgia, Athens, United States of America

International Review Committee of the 5th ITC&DC 2010
Albert ABBOTT (US); Marija Jose ABREU (PT); Dominique C. ADOLPHE (FR); Maja ANDRASSY (HR); Aleksandra ANIĆ-VUČINIĆ (HR); Tomislav BAKRAN (HR); Sandra BISCHOF VUKUŠIĆ (HR); Slavica BOGOVIĆ (HR); Hans Jürgen BUSCHMAN (DE); Antonela CURTEZA (RO); Ružica ČUNKO (HR); Krste DIMITROVSKI (SI); Zvonko DRAČEVIĆ (HR); Petra FORTE TAVČER (SI); Petra FRANITZA (DE); Jelka GERŠAK (SI); Marija GORENŠEK (SI); Bhuvnesh C. GOSWAMI (US); Diana GREGOR SVETEC (SI); Peter HAUSER (US); David HINKS (US); Richard HORROCKS (UK); Anica HURSA ŠAJATOVIĆ (HR); Jasenka JELENČIĆ (HR); Sung Hoon JEONG (KR); Hüseyin KADOGLU (TR); Drago KATOVIC (HR); Radko KOVAR (CZ); Ryszard KOZLOWSKI (PL); Silvia KUKLE (LV); Raechel LAING (NL); Jin Li (CN); Johanna LOUWAGIE (BE); Biljana MANGOVAŠKA (MK); Anton MARCINČIN (SK); Heikki MATTILA (FI); Rui MIGUEL (PT); Jiří MILITKY (CZ); Manuela NEVES (PT); Roger NG (CN); Ivan NOVAK (HR); Klaus OPWIS (DE); Zvonko OREHOVEC (HR); Đurđica PARAC-OSTERMAN (HR); Željko PENAHA (HR); Slavenka PETRAK (HR); Igor PETRUNIĆ (CA); Ron POSTLE (AU); Vesna Marija POTOČNIĆ-MATKOVIĆ (HR); Dagmara PRIBERGA (LV) Tanja PUŠIĆ (HR); Tatjana RIJAVEC (SI); Dubravko ROGALE (HR); Tomislav ROLICH (HR); Eckhard SCHOLLMEYER (DE); Majda SFILIGOJ SMOLE (SI); Nina Katarina SIMONČIĆ (HR); Zenun SKENDERI (HR); Ivo SOLJAČIĆ (HR); Urška STANKOVIĆ-ELESINI (SI); Norma STARSZAKOWNA (UK); Maja STRACENSKI KALAUZ (HR); George K. STYLIOS (UK); Dunja ŠAJN GORJANC (SI); Željko SOMODI (HR); Xiaoming TAO (CN); Andy TAYLOR (UK); Antoneta TOMLJENOVIC (HR); Vesna TRALIČ-KULOVIC (HR); Lieva VAN LANGENHOVE (BE); Bojana VONČINA (SI); Editta VUJASINOVIĆ (HR); Charles YANG (US); Aristotelis ZAMPETAKIS (GR); Daniela ZAVEC PAVLINIĆ (SI); Malgorzata ZIMNIEWSKA (PL).
Organizing Committee of the 5th ITC&DC 2010 (ITC&DC Team)

Zvonko DRAGČEVIĆ – President, Nikola VULJANIĆ - Vice-president, Anica HURSA ŠAJATOVIĆ, Zorana KOVAČEVIĆ, Bojan MAUSER, Bosiljka ŠARAVANJA, Tanja TISAJ, Srđan VLATKOVIĆ, Edita VUJASINOVIĆ

Coordinators of the 5th ITC&DC 2010:

Section A: Textile Fibres and Advanced Materials: Jiri MILITKY
Section B: Manufacture of Yarns, Fabrics and Nonwovens: Krste DIMITROVSKI
Section C: Textile Finishing, Dyeing and Care: Charles Q. YANG
Section D: Clothing Technologies and Engineering: Jelka GERŠAK
Section E: Analysis, Testing and Quality Control: Dominique C. ADOLPHE
Section F: Design and Marketing of Textile and Clothing: Antonela CURTEZA

Chairpersons Coordinator: Bojan MAUSER

Registration desk: Anica HURSA ŠAJATOVIĆ & Edita VUJASINOVIĆ

Technical assistance: Bojan MAUSER & Srđan VLATKOVIĆ

GENERAL INFORMATION

5th ITC&DC 2010 will start on Sunday, October 3rd to Wednesday October 6th, 2010 in the Centre for Advanced Academic Studies (CAAS) in the heart of the historic city centre of Dubrovnik (area Pile), Don Frane Bulica 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.
## Sunday, October 3rd, 2010, Arrival Day

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>12:00 – 20:00</td>
<td>Registration of authors and other participants</td>
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<tr>
<td>19:30 – 20:00</td>
<td>Meeting of International Scientific Committee and Coordinators of Sections (Conference Hall 2)</td>
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<td>19:30 – 20:00</td>
<td>Meeting of Chairpersons (Conference Hall 1)</td>
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<td>20:00 – 21:30</td>
<td>Welcome party (CAAS)</td>
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## Monday, October 4th, 2010

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<tr>
<td>07:30 – 09:00</td>
<td>Registration of authors and other participants</td>
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<tr>
<td>09:00 – 09:30</td>
<td>Opening ceremony (Conference Hall 1)</td>
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<tr>
<td>09:30 – 10:30</td>
<td>Plenary lecture (Conference Hall 1)</td>
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<tr>
<td>10:30 – 11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00 – 13:00</td>
<td>Oral presentation – Section A, F &amp; E</td>
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<tr>
<td>13:00 – 15:00</td>
<td>Conference lunch (Restaurant MIMOZA)</td>
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<tr>
<td>15:00 – 17:00</td>
<td>Oral presentation – Section A, F &amp; E</td>
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<tr>
<td>17:00 – 18:00</td>
<td>Poster presentations and discussion - Section A, F &amp; E (with refreshments)</td>
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<tr>
<td>20:00</td>
<td>Evening entertainment (Concert in St. Dominic’s Church)</td>
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## Tuesday, October 5th, 2010

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<tr>
<td>09:00 – 10:30</td>
<td>Oral presentation – Section A, C &amp; E</td>
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<tr>
<td>10:30 – 11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00 – 13:00</td>
<td>Oral presentation – Section D, C &amp; G</td>
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<tr>
<td>13:00 – 15:00</td>
<td>Conference lunch (Restaurant MIMOZA)</td>
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<tr>
<td>15:00 – 16:30</td>
<td>Oral presentation – Section D, C &amp; B</td>
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<tr>
<td>16:30 – 17:30</td>
<td>Meeting of FP7 - REGPOG - 2008-1-229801: T-Pot Management Team (Conference Hall 2)</td>
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<tr>
<td>16:30 – 17:30</td>
<td>Poster presentations and discussion - Section D, C, G &amp; B (with refreshments)</td>
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<tr>
<td>17:30 – 18:30</td>
<td>Closing ceremony (Conference Hall 1)</td>
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<tr>
<td>20:30</td>
<td>Conference dinner (Restaurant MIMOZA)</td>
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## Wednesday, October 6th, 2010

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<th>Event</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Official ITC&amp;DC Excursion for authors and other participants (Port GRUŽ)</td>
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**Conference Hall 1** | **Conference Hall 2** | **Conference Hall 3**
09:30 – 10:30 Plenary lecture (Conference Hall 1)

ROGALE Dubravko
Research and Development of Article of Clothing with Adaptive Microclimatic Conditions

Chair persons: Ivo SOLJAČIĆ, Jelka GERŠAK & Aleksa BJELIŠ

11:00 – 13:00 Section A: Textile Fibres and Advanced Materials (Conference Hall 1)
Chair person: Anna UJHELYIOVA

| A1 | BALOGOVÁ Ľudmila & ŽÚŽI Bohusav | Superabsorbing Fibres in Nonwovens |
| A2 | CAYUELA Diana; MONTERO Lucila Araceli & MANICH Albert M. | Variation of Microstructure of Textured and Fixed Polylactide Fibres with the Texturing Conditions |
| A3 | CZAPLICKI Zdzislaw & KOZLOWSKI Ryszard | Innovative Textile Technologies |
| A4 | DE SCHOENMAKER Bert; DE VRIEZE Sander; VAN DER SCHUEREN Lien & DE CLERCK Karen | Towards Steady State Electrospinning |
| A5 | ELNASHAR EISayed Ahmed & BELAL B. EISayed | New Approach of Eyes’s Swath and Diapers for Infant’s Incubators of Bio-Nonwoven Fabrics |
| A6 | FRYDRYSIAK Michał; ZIEGLER Stefan; GNIOTEK Krzysztof & ZIEBA Janusz | The Modeling of Textile Layers in Textronic Clothing |

11:00 – 13:00 Section F: Design and Marketing of Textile and Clothing (Conference Hall 2)
Chair person: Ausma VILUMSONE

| F1 | ABREU Maria José & LOPES Mellissa | The Shop Window Dressing as a Tool for Visual Merchandising |
| F2 | CURTEZA Antonela; TEODORESCU Mirela; PETCU Ioana & CALIN Monica | An Approach of Innovation Through Design |
| F3 | EL GHOLMY Sherwet; BONDOK Noha & EL GEIHEINI Adel | Optimization of Embroidery Design on Denim Fabrics |
| F4 | PEREIRA R. Maria Madalena; AZEVEDO Susana; BERNARDO Vera; MOREIRA DA SILVA Fernando; MIGUEL Rui & LUCAS José | The Effect of Visual Merchandising on Fashion Stores in Shopping Centres |
| F5 | PRIBERGA Dagmara | Lace Item Systematization and Classification in the Territory of Latvia |

11:00 – 13:00 Section E: Analysis, Testing and Quality Control (Conference Hall 3)
Chair person: Jose MENDES LUCAS

| E1 | CARVALHO Lurdes; MIGUEL Rui; FIADEIRO Paulo; LUCAS José; TRINDADE Isabel & SANTOS SILVA Manuel | Objective Evaluation of Clothing Pilling Formation by Optical Profile Analysis |
| E2 | CEYLAN Özgür; LANDUYT Lieve Van & DE CLERCK Karen | Small Scale Tests to Evaluate Cotton Fibres |
| E3 | FRANITZA Petra; HIERHAMMER Marian & NAUMANN Romy | Textile Testing for Degradation of Air Cargo Nets |
| E4 | FRYDRYCH Iwona & CIESLAK Daria | Properties of Multilayer Textile Membrane Structures Destined For Shoes |
| E5 | GERŠAK Jelka & MARČIČ Milan | Study of Elastic Behaviour of Textile Structures |
| E6 | KAVKLER Katja; GUNDE CIMERMAN Nina; ZALAR Polona & DEMŠAR Andrej | Biodeterioration of Historical Textiles |
### 15:00 – 17:00 Section A: Textile Fibres and Advanced Materials (Conference Hall 1)
Chair person: Zdzislaw CZAPLICKI

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<th></th>
<th>Title</th>
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<tr>
<td>A7</td>
<td>Optimization of Mechanical Characteristics of Scoured Hemp Yarns Grafted with Monochlorotriazinyl-Beta-Cyclodextrin</td>
<td>GRIGORIU Ana-Maria; RACU Cristina; DIACONESCU Rodica &amp; GRIGORIU Aurelia</td>
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<tr>
<td>A8</td>
<td>Electrospinning of Poly(Lactic Acid) with Co-Solvents</td>
<td>HWANG Soondong &amp; JEONG Sunghoon</td>
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<td>A9</td>
<td>Mass Production Methods of a Smart Insole for Plaster Cast Protective Shoe</td>
<td>KAAPPA Emma; MYRY Manu; KARINSALO Tapio; GREN Sanni; HALME Aki &amp; VANHALA Jukka</td>
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<td>A10</td>
<td>Mechanical Properties of PA 6 and PP Fibres Functionalized with Copolyamides + Nanoclay</td>
<td>KRIŠTOFIČ Michal; UJHELYIOVÁ Anna; RYBA Jozef &amp; VASSOVÁ Iveta</td>
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<tr>
<td>A11</td>
<td>Preformation of Input Components for Spinning of Polypropylene Fibres with Microcapsules</td>
<td>LESKOVŠEK Mirjam &amp; STANKOVIČ ELESINI Urša</td>
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<td>A12</td>
<td>Wireless System for the Monitoring of the Neuromotor Recovery Processes Based on Electrical Stimulation</td>
<td>MANEA Liliana Rozemarie; PANTILIMONESCU Florin; DELIU Roxana &amp; SCARLET Roxana</td>
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<td>A13</td>
<td>Spinning, Mechanical and Thermal Properties of Polypropylene Fibres</td>
<td>MARCINČIN Anton; MARCINČIN Konštantin &amp; HRICOVÁ Marcela</td>
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### 15:00 – 17:00 Section F: Design and Marketing of Textile and Clothing (Conference Hall 2)
Chair person: Adel EL GEIHEINI

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<tr>
<td>F6</td>
<td>A Unified Stretch Theory of Ancient Clothes on Some Basic Knowledge for Fashion Dresses Design</td>
<td>ELSHAPPAR A. Elsayed; NASEF A. Arafa; SALEM M. Elsayed &amp; LIU Yan</td>
</tr>
<tr>
<td>F7</td>
<td>Case Study: Design of Special Coffee Packaging</td>
<td>RAMOS KALMAR Elizabeth</td>
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<td>F8</td>
<td>Design and Consumers Behaviour Strategy of Luxury Fashion Brands – A Case Study</td>
<td>SANTOS Andreia; MIGUEL Rui; AZEVEDO Susana; PEREIRA Madalena &amp; LUCAS José</td>
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<td>F9</td>
<td>Personal Perception of the Most Important Conscious Restrained Factor of Young People for Apparel Purchase</td>
<td>TRATNIK Miroslav; STRACENSKI KALAUZ Maja &amp; NEDANOV Aleksandar</td>
</tr>
<tr>
<td>F10</td>
<td>Re-Thinking of NiTi Alloys for Textile Applications</td>
<td>TURCO Elena; GIACOMELLI Marco &amp; FEDERIGHI Pamela</td>
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<td>F11</td>
<td>Risk Perceptions and Brand Extension Success</td>
<td>TURHAN Gülden &amp; YILMAZ Cengiz</td>
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### 15:00 – 17:00 Section E: Analysis, testing and quality control (Conference Hall 3)
Chair person: Iwona FRYDRYCH

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<tr>
<td>E7</td>
<td>Analysis of Sound Absorption of Plain Knitted Fabrics from Chenille Yarns</td>
<td>KUCUKALI OZTURK Merve; UYGUN NERGIS Banu &amp; CANDAN Cezva</td>
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<td>E8</td>
<td>UV Protective Properties of Woven Fabrics with Biodegradable Yarns In Their Structure as Weft</td>
<td>LOGAR Daša; ZUPIN Živa; URBAS Raša &amp; DIMITROVSKI Krste</td>
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<tr>
<td>E9</td>
<td>Fabric Wrinkling Evaluation by Optical Means</td>
<td>LUCAS José; MIGUEL Rui; FIADEIRO Paulo; DE LURDES CARVALHO Maria; SANTOS SILVA Manuel &amp; MENDES António</td>
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<tr>
<td>E10</td>
<td>Optical Evaluation of Dimensional Stability of Fabrics</td>
<td>LUCAS José; PIO Ana; MIGUEL Rui; PEREIRA Madalena; TRINDADE Isabel &amp; SANTOS SILVA Manuel</td>
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**17:00 – 18:00 Poster presentation**

**Section A: Textile Fibres and Advanced Materials**

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<th>AP1</th>
<th>ADOMAVIČIŪTĖ Erika; BANUŠKEVIČIŪTĖ Aušra &amp; MILAŠIUS Rimvydas</th>
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<tr>
<td></td>
<td><em>The Influence of Delivery Speed of Support Material on Structure of PU Nanofibre mat Manufactured by Electrospinning Method</em></td>
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<th>AP2</th>
<th>ANDRASSY Maja; ŠURINA Ružica &amp; BUTORAC Jasmina</th>
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<td></td>
<td><em>Influence of Agroecological Conditions on the Properties of Flax Fibres in Croatia</em></td>
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<tr>
<th>AP3</th>
<th>BUTORAC Jasmina; ŠURINA Ružica; ANDRASSY Maja; AUGUSTINOVICZ Zvjezdana &amp; POSPIŠIL Milan</th>
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<tr>
<td></td>
<td><em>Some Agronomic and Textile Properties of Flax Cultivated in Croatia (Krizevci)</em></td>
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<th>AP4</th>
<th>DELIU Roxana; MANEA Liliana Rozemarie; CRAMARIUC Bogdan &amp; SCARLET Roxana</th>
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<tr>
<td></td>
<td><em>Potential Applications of Nanofibers - Advantages and Challenges</em></td>
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<th>AP5</th>
<th>DELIU Roxana; MANEA Liliana Rozemarie; CRAMARIUC Bogdan &amp; SCARLET Roxana</th>
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<tr>
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<td><em>Technologies for Obtaining Nanofibers</em></td>
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<th>FREIVALDE Liga; KUKLE Silvija; PURINA Brigita &amp; STRAMKALE Veneranda</th>
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<td><em>Durability Properties of Hemp Fibers</em></td>
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<th>AP7</th>
<th>HUDÁK Jozef; KRIVOŠ Štefan &amp; ZIMANY Vladimír</th>
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<td><em>PP Textile Fibres with Barrier Protection</em></td>
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<th>AP8</th>
<th>MANEA Liliana Rozemarie; CRAMARIUC Bogdan; SCARLET Roxana &amp; DELIU Roxana</th>
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<tr>
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<td><em>Computer-Controlled Electrospinning System for Nanofibers Manufacturing</em></td>
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<th>RIVA Ascensión; PRIETO Remedios; MONTERO Lucila Araceli &amp; CAYUELA Diana</th>
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<tr>
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<td><em>Dyeing Behaviour of Polylactide Fibres and its Relation with Microstructure</em></td>
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<th>SALMAN Serdar; AKALIN Mehmet; ERSOY Sezgin; KÜPELİ Gültekin; OKUŞÇUK Emre &amp; PAZARLIOĞLU S. Serdar</th>
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<td><em>Mechanical Properties of Bi-axial Glass Fiber and Walnut Shell Reinforced Polyester Composites</em></td>
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<th>AP11</th>
<th>UJHELYIOVÁ Anna; HORBANOVÁ Luba; MICHLÍK Peter &amp; RYBA Jozef</th>
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<td><em>Modified Polypropylene Fibres Applicable in Technical Composites</em></td>
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<th>VARAN Nilufer Yildiz &amp; GURSOY Nevin Cigdem</th>
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<td><em>Textiles for Burn Treatments: An Overview</em></td>
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<th>VLATKOVIĆ Srđan &amp; VUJASINOVIĆ Edita</th>
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<td><em>Textile Scaffolds in Tissue Engineering</em></td>
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### Section F: Design and Marketing of Textile and Clothing

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The Decoration Elements of Lithuanian National Costume in Modern Clothing |
| FP2 | BIN Chen  
*Discussing the Evolution of the Masculine Style of Women’s Wear and Manifestation of Fashion Design* |
| FP3 | CURTEZA Antonela; PETCU Ioana; TEOODORESCU Mirela; KALAOĞLU Fatma & MACOVEI Laura  
Criteria in Apparel Design for People with Disabilities |
| FP4 | CURTEZA Antonela; CALIN Monica Alina; TEOODORESCU Mirela & PETCU Ioana  
Pattern Construction System for the Future Perspective of Nanotechnology in Textiles |
| FP5 | DAUKANTJENĖ Virginija; DOBILAITE Vaida; DOMSKIENĖ Jurgita; JUCIENĖ Milda & MACKEVIČIENĖ Eglė  
*The Analysis of Sizing Systems Exploring the Need of Anthropometric Measurements in Lithuanian Republic* |
| FP6 | GUDRO Ilze; STRAZDS Guntis & ULME Anda  
The Exploration of Unutilized Raw Hide Resources and Research of Hide Manufacture Role in Economy of Latvia |
| FP7 | KUNŠTEK Ana; KAKŠA Mladen; PERVAN Mihaela & PROJIĆ Ines  
Lika Cap |
| FP8 | MODRONJA BREYER Nina; VINKOVIĆ Maja & ŠABARIĆ Irena  
Characteristics of Cut and Fabric for Evening Dresses in the 30-ties of the Last Century |
| FP9 | NOVAK Ivan & VUJASINOVIĆ Edita  
Marketing Management Simulation Model as Sustainable Economic Model of Wool Repurchase & Care in Croatia |
| FP10 | PENAVA Željko & NOVAK Ivan  
Internet Marketing as Business Concept in Textile Industry |
| FP11 | RAMOS KALMAR Elizabeth  
*Edesign “Lifestyle” Creative Enterprise Decoration + Fashion + Art* |
| FP12 | ŠABARIĆ Irena; BRNADA Snježana & KOVAČEVIĆ Stana  
Designer Solutions of Weft Distortion in Striped Fabrics |

### Section E: Analysis, Testing and Quality Control

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Usage of FT-IR Microscope in Forensic Examination of Blue Cotton Material |
| EP2 | BALTUŠNIKAITĖ Julija & MILAŠIUS Rimvydas  
*Evaluation of Fabric Flammability Using Colour Change* |
| EP3 | ERCEGOVIĆ RAŽIĆ Sanja; ČUNKO Ružica; BAUTISTA Lorenzo; MOTA Jordi & CRESPO Laia  
Ageing Effect on Wettability Properties of Low-Pressure Plasma-Treated Cellulosic Fabrics |
| EP4 | GUL Melek; KOC Ilker Murat & GURSOY Nevin Çigdem  
*A Study on the Investigation of Frictional Properties of Woven Woolen Fabrics* |
| EP5 | HEMIDA Wael; ELGHOLMY Sherwet & ELGEIHEINI Adel  
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| EP6 | KLEVAITYTĖ Ramunė; SACEVIČIENĖ Virginija & MASTEKAITĖ Vitalija  
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| EP7 | MALČIAUSKIENĖ Edita & MILAŠIUS Rimvydas  
*Influence of Weft Insertion Type on the Fabrics Mechanical Properties* |
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09:00 – 10:30 Section A: Textile Fibres and Advanced Materials (Conference Hall 1)
Chair person: ElSayed Ahmed ELNASHAR

A14  NAIK Arún; MONTERO Lucila Araceli; RIVA Ascensión; PRIETO Remedios; RIBA Marta; VIDAL Esther & CAYUELA Diana
Improvement of Mechanical Properties and Dimensional Stability of Textured Polylactide Fibres with a Pre-Fixation Thermal Treatment

A15  RACU Cristina; GRIGORIU Aurelia; GRIGORIU Ana-Maria; DIACONESCU Rodica & Hristian Liliana
New Hemp Type Yarns for Medical Textiles

A16  TURALIJA Marina; GAAN Sabyasachi; MAUCLAIRE Schoenholzer Laurie; GUIMOND Sebastien; KOERNE R. Enrico; HANSELMANN Barbara; HEUBERGER Manfred & BISCHOVFUKUSIC Sandra
Antimicrobial Polylactide

A17  WEGO Andreas; BAHNERS Thomas; SCHOLLMEYER Eckhard; GULDI M. Dirk; SGOBBA Vito; JUX Norbert; PEIL Stefan & BAKKAL Mustafa
Photovoltaic Fibers and Textiles due to Functionalisation with Water-soluble Porphyrines and Carbon Nano Tubes

09:00 – 10:30 Section C: Textile Finishing, Dyeing and Care (Conference Hall 2)
Chair person: Shirin NOURBAKHSH

C1  ALVES Madalena & SOARES Graça
β-Cyclodextrins - an Eco Friendly Contribution to Textile Finishing

C2  BUSCHMANN Hans-Jürgen; BENKEN Rainer & SCHOLLMEYER Eckhard
Surface Modification of Textile Materials by Self Assembly of Molecular Layers

C3  DEANKO Peter; ČIŽMÁROVÁ Dana & ŠESTÁK Jozef
Surface Dyeing of Polypropylene Fibres

C4  ĐURASVIĆ Vedran; PARAC-OSTERMAN Đurđica & SUTLOVIĆ Ana
Spectrophotometric Analysis of Spirooxazine and Spiropyrane Dyes

09:00 – 10:30 Section E: Analysis, Testing and Quality Control (Conference Hall 3)
Chair person: Rimvydas MILAŠIUS

E14  REBELO Olga; CATARINO André; ABREU Maria José & LIMA Mário
Friction and Compression Evaluation of Socks for Diabetic Patients

E15  SHARAFAT Hamid Reza & YAZDANSHENAS Mohammad Esmail
Optimization of Mercerizing Conditions Using Taguchi’s Method

E16  SITVJENKINS Igors; VILUMSONE Ausma; BALTINA Ilze & ZARINA Una
Fabric Selection for the Field Uniforms

E17  ŠOMOĐI Željko
An Improved Nonlinear Deformational Model of Woven Fabric in Biaxial Tension

E18  ZIĘBA Janusz & FRYDRYSIAK Michał
Textronic Sensors of Respiratory Rhythm Frequency
11:00 – 13:00 Section D: Clothing Technologies and Engineering (Conference Hall 1)
Chair person: Laszlo Mihaly VAS

D1 ELMRYCH-BOCHEŃSKA Joanna
Analysis of the Sewing Thread Characteristics Changes and Their Relationship with the Seam Tensile Strength

D2 PAPANTONIOU Agis; VASSILIADIS Savvas; AKTIPIS-TRIKOUPI Charalambos; SIGALAS Alexandros & POULIZOS Miltos
Towards Semantic Reasoning in Wearable System Networks: A Case of Heart Beat Behavior Recognition

D3 PETRAK Slavenka; GLAVICA Božica; GERŠAK Jelka; MAHNIĆ Maja; ROGALE Dubravko & UJEVIĆ Darko
Garments Prototype Development Using an Innovative Computer Technology

D4 TAMA Derya; ŞEN Arzu; ONDOĞAN Ziynet; PAMUK Oktay & ERDOĞAN M. Çetin
A Study of Associating the Body Types With Garment Pattern

11:00 – 13:00 Section C: Textile Finishing, Dyeing and Care (Conference Hall 2)
Chair person: Sathya RAMASWAMY INBARAJU

C5 KATOVIĆ Andrea; FLINČEC-GRGAC Sandra; KATOVIĆ Drago & BISCHOF-VUKUŠIĆ Sandra
Zeolites in Esterification of Citric Acid and Cellulose

C6 LE GOFF Amélie; PEREIRA Anabela; SOARES Graça & MIRANDA Teresa
Studies on Cotton Modification with Dodecenyl Succinic Anhydride (DDSA)

C7 MOCIOIU Ana-Maria; DUMITRESCU Iuliana; RADULESCU Clara; DUMITRESCU Corina & ZAMPETAKIS Aristotelis
The Development of New Generations of Textile Products Based Bamboo/Polyamide Incorporating Silver Particles

C8 MOTA Jordi; BAUTISTA Lorenzo; CRESPO Laia; PAUL Roshan; ESTEVE Helena; BROUTA Marolda; JIMENEZ Javier; AMÁNTEA David; FACCINI Mirko; FERNÁNDEZ Minerva; DELGADO Esther; AUBOUY Laurent & DELA VARGA Meribell
Sol-Gel and Plasma Technologies Applied to Textiles

C9 NOURBAKHSH Shirin & FOTOUHI Mohsen
Ageing Effects of Corona Treated Indigo Dyed Denim and its Improvement

11:00 – 13:00 Section G: Environment Protection, Ecology and Energy Management (Conference Hall 3)
Chair person: Štefica CERJAN STEFANOVIĆ

G1 GOK SADIKOGLU Telem; BERKLAP Omer Berk & YALCIN Ipek
The Usage of Mineral Added Nonwovens in Agricultural Irrigation Systems

G2 MIHELIĆ-BOGDANIĆ Alka; BUDIN Rajka & KOŠČAK-KOLIN Sonja
Process Energy Conservation Using Secondary Sources

G3 SOLJAČIĆ Ivo & PUŠIĆ Tanja
Environment Protection Aspects in the Development and Application of Dry-Cleaning Solvents

G4 VOJNOVIĆ Branka; MARGETA Karmen & CERJAN-STEFANOVIĆ Štefica
Natural Zeolites as Effective Adsorbents for Silver Ions Removal
15:00 – 16:30 Section D: Clothing Technologies and Engineering (Conference Hall 1)
Chair person: Slavenka PETRAK

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15:00 – 16:30 Section C: Textile Finishing, Dyeing and Care (Conference Hall 2)
Chair person: Sandra BISCHOF VUKUŠIĆ

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<td>Functional Properties of Two Component Antimicrobial and Oil Repellent Coating on Cotton Fabric</td>
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15:00 – 16:30 Section B: Manufacture of Yarns, Fabrics and Nonwovens (Conference Hall 3)
Chair person: Huseyin KADOGLU

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16:30 – 17:30 Poster presentation

Section D: Clothing Technologies and Engineering

**DP1**
DOLEŽAL Ksenija; UJEVIĆ Darko; HRŽENJAK Renata, BRLOBAŠIĆ ŠAJATOVIĆ Blaženka; PETRAK Slavenka & HALÁSZ Marianna
*(Anthropometric Evaluation, Standardization and Comparison of Garment Sizes)*

**DP2**
ELMRYCH-BOCHEŃSKA Joanna & LESIAKOWSKA-JABŁOŃSKA Marzanna
*(The Assumptions for Flexible Sewing Team Organizing in the Mass Customization Reality)*

**DP3**
HURSA ŠAJATOVIĆ Anica; DRAGČEVIĆ Zvonko & ROGALE Dubravko
*(The Influence of the Auxiliary Devices on the Structure of Tehnological Sewing Operation)*

**DP4**
JUCIENĖ Milda & DOBILAITĖ Vaida
*(The Effect of Fabric Properties on Seam Pucker Indicator)*

**DP5**
LI Xiaoju & LI Xiaozhi
*(3D Surface Reconstruction of Body From Point Cloud)*

**DP6**
NIKOLIĆ Gojko; ČALA Ivo & ČUBRIĆ Goran
*(The Application of Project Management Methods in Clothing Manufacture)*

**DP7**
RADAVIČIENĖ Svetlana & JUCIENĖ Milda
*(Investigation of Mechanical Properties of Embroidery Threads)*

**DP8**
SALEHI ESFANDARANI Maryam & SHAHRABI Jamal
*(Solution for Suit Sizing Problems)*

**DP9**
ŠARAVANJA Bosiljka & DRAGČEVIĆ Zvonko
*(Introduction of the Modular Way of the Technological Process Using the 20 Keys-System)*

**DP10**
UJEVIĆ Darko; KOVAČEVIĆ Stana; SMALBEGOVIĆ Adnan; PAČAVAR Samir & KONAKOVIĆ Mirsad
*(Analysis of Making Airbags)*

Section C: Textile Finishing, Dyeing and Care

**CP1**
DEKANIĆ Tihana; SOLJAČIĆ Ivo & PUŠIĆ Tanja
*(Light Fastness of Novel Fluorescent Compounds in Detergents)*

**CP2**
DURAL EREM Ayşin; ÖZCAN Gülay; SKRIFVARS Mikael & EREM Hasan Hakan
*(The Production of Chitosan and Polypropylene/Chitosan Composite)*

**CP3**
FAKIN Darinka & OJSTRŠEK Alenka
*(The Effect of Colour Strength and UV Absorber on UV Protection Properties of Textile Materials)*

**CP4**
FLINČEC GRGAC Sandra; KATOVIĆ Drago; KATOVIĆ Andrea & BISCHOF VUKUŠIĆ Sandra
*(Thermal and FT-IR Analysis of Cotton Fabrics Treated with two Different Flame Retardant Agents)*

**CP5**
JEMO Danijela; SOLJAČIĆ Ivo & PUŠIĆ Tanja
*(Investigation of Detergents for Washing Historic Textiles)*

**CP6**
KUKLE Silvia; BARLOTI Janis; BLUMS Juris & VIHODCEVA Svetlana
*(Functionalization of Cotton Textiles with Metals)*

**CP7**
OCEPEK Barbara & FORTE TAVČER Petra
*(Behaviour of Printed Melamine-Formaldehyde Microcapsules Exposed to Different Mechanical Impacts)*

**CP8**
PUŠIĆ Tanja; LANT Neil; SOLJAČIĆ Ivo; PATTERSON Steven & VIŠIĆ Ksenija
*(Surface Modifications of Cotton With Carboxymethyl Cellulose in Washing Processes)*
Section B: Manufacture of Yarns, Fabrics and Nonwovens

BP1 AKOLO Paul Barrison
Influence of Processing Parameters on the Quality of Rotor Spun Yarn: Prediction Using Regression and Anfis

BP2 COMANDAR Constanta
Investigation of Knitted Fabric Structure on its Elasticity

BP3 DURAN Deniz & KADOGLU Huseyin
Protection Against Electromagnetic Waves with Textiles

BP4 KNEZIĆ Željko; PENAVA Željko & ROGAL Dubravko
Weaving Machine Consumption of Electricity Depending on Weaving Speed

BP5 MACOVEI Laura; CRETU Viorica & CURTEZA Antonela
Comparative Study of Knitted Fabric Take-down for the Flat Knitting Process

BP6 SANCAK Erhan; YENİDOĞAN Semih; SESLİ Yasemin; KOCAK Dilara & PAZARLIOGLU S. Serdar
Mechanical Properties of Multi-axial Glass Fiber/ Mah-waste Kraftpaper Reinforced Polyester Composites

BP7 TREIGIENE Rasa
The Influence of Steam Setting on the Structure of Plated Jersey Knits

Section G: Environment Protection, Ecology and Energy Management

GP1 FIJAN Sabina; NERAL Branko; ALTENBAHER Brigita; ARNUŠ Suzana; ŠTANC Darko & ŠOSTAR-TURK Sonja
Accept: Advanced CO₂ Cleaning as an Ecological Process Technology

GP2 MICHLÍK Peter; KRIVOŠ Štefan; UHLEYIOVÁ Anna; HAVRAN Boris & VNENČÁKOVÁ Jana
Progressive Modified Polypropylene Fibres

GP3 OJSTRŠEK Alenka & FAKIN Darinka
Decolorization Of Simulated Textile Wastewaters In Fixed-Bed Treatment System

GP4 OKRUSZEK Andrzej; DZIWORDSKA Gabriela & SKONECZNA Magdalena
Utilization of Biomass for Preparation of Environmentally Friendly Polymer

GP5 PETRINIĆ Irena; KORENAK Jasmina; SIMONIČ Marijana & ČURLIN Mirjana
Textile Wastewater Treatment Using a Membrane Bioreactor
For the papers to be **orally presented**, presentation is limited to 15 min and 5 min for discussion after presentation.

An IBM PC and LCD projector will be available for the participants wishing to accompany oral presentation of their papers with a Microsoft PowerPoint 97/2000/XP/2003 presentation. **These participants are requested to submit a CD-ROM for each paper at the registration.** The following data should be written on the CD-ROM cover:

Section, Name and Surname of the presenter, Paper title.

The CD-ROMs 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 3<sup>rd</sup> in sections A, F and E: 08:30 – 09:00
- for the presentation on October 5<sup>th</sup> in sections D, C, G & B: 08:30 – 09:00

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: 450
- Young scientists: 300
- Accompanying person: 250

*Participants that have not paid their conference fee via bank transfer should settle their dues at the conference registration desk in CAAS - cash payment (in EUR or HRK).*

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 Concert in St. Dominic’s Church with beginning at 20:00 on October 4<sup>th</sup>, 2010.

Conference dinner with music will be organised on October 5<sup>th</sup> at 20:30 in the Restaurant MIMOZA and is included in the registration fee.

ITC&DC excursion for the authors and accompanying persons will be organised on October 6<sup>th</sup>, 2010 with departure from Port Gruž at 10:00 to the late evening hours.
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 (approx. 30 EUR), as well as a regular bus line (35 HRK per person – approx. 5 EUR).

Hotels: **Lero** is 15 minutes walk from CAAS; **Adriatic, Vis and Komodor** are 3 km away from CAAS (local bus line No. 4 or 45 minutes walk from CAAS).

Transfer from hotels to Old city (area Pile) will be organized free of charge at October 4th and 5th 2010. Bus departs at 8.30 a.m. in front of hotel Adriatic for participants in hotel Vis, Komodor and Adriatic.

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 3rd 2010
1. 13:00 - 15:00 CONFERENCE LUNCH (Restaurant Mimoza)
2. 20:00 CONCERT (St. Dominic’s Church)

Monday, October 4th 2010
1. 13:00 - 15:00 CONFERENCE LUNCH (Restaurant Mimoza)
3. 20:30 CONFERENCE DINNER (Restaurant Mimoza)

Monday, October 5th 2010
3. 10:00 OFFICIAL ITC&DC EXCURSION (Port Gruž)

We are here to welcome you
Ministry of Science, Education and Sport, Republic of Croatia, Zagreb, Croatia
Centre for Advanced Academic Studies (CAAS), Dubrovnik, Croatia
Croatian Society of Chemical Engineers, Zagreb, Croatia
Croatian Chamber of Economy, Zagreb, Croatia
CARNet, Zagreb, Croatia

Croatia® Potomac d.o.o., Zagreb, Croatia
Croatia Airlines, Croatia
ČATEKS d.d., Čakovec, Croatia
Dodo, Zagreb, Croatia
Franck d.d., Zagreb, Croatia
Grgec, Zagreb, Croatia
GRIP, Zagreb, Croatia
Hrvatska turistička zajednica, Croatia
IKOM d.o.o., Zagreb, Croatia
Jacquard, Zagreb, Croatia
KONFEKS d.o.o., Zagreb, Croatia
KOTKA d.o.o., Krapina, Croatia
Modea d.d., Garešnica, Croatia
MiŠ, d.o.o., Zagreb, Croatia
Podrum Videc, Lopatinec, Croatia
Pronit, Zagreb, Croatia
TARDI d.o.o., Zagreb, Croatia
Tarštok, Zagreb, Croatia
Tekstilna štamparija Zagreb, Croatia
TiMEP d.o.o., Zagreb, Croatia
TOZ – PENKALA d.d., Zagreb, Croatia
Turistička zajednica grada Dubrovnika, Croatia
YKK d.o.o., Zagreb, Croatia