



3rd International Textile, Clothing & Design Conference 2006

Magic World of Textile

Dubrovnik, October 8th – 11th 2006

The Faculty of Textile Technology, University of Zagreb, organised the 3rd International Textile, Clothing & Design Conference, held from October 8th to 11th 2006 in the International Centre of Croatian Studies in Dubrovnik (<http://itcdc.ttf.hr/>).

The conference was organised on the basis of the successful conferences of the same name held in 2002 and 2004, making the 3rd ITC&DC 2006 a traditional and one of the most important conferences, both in Europe and globally, in the field of textile and garment technologies, fashion, design and marketing of textiles and clothing. Furthermore, it is the only international scientific conference in the field to be organised in Croatia.

Thanks to the previous successes in organising the conference, the 2006 conference was held under the high patronage of the Ministry of Science, Education and Sports of Croatia, the Ministry of Economy, Labour and Entrepreneurship of Croatia and the Croatian Chamber of Commerce, as well as under the auspices of distinguished world and European scientific and professional associations: The Academy of Engineering of Croatia, the DAAAM International Vienna, Austria; AUTEX Ghent, Belgium; The Textile Institute, Manchester, UK; International Textile Academie, New Delhi, India; AATCC, Research Triangle Park, USA; IFKT, Reutlingen, Germany; SDC, Bradford, UK and the Croatian Society of Chemical Engineers. The president of the scientific and programme committee was Prof. Emeritus Ivo Soljačić.

Exactly 261 papers were submitted to the organiser, while the international review committee accepted 184 of them, which were printed in the Book of Proceedings of the 3rd ITC&DC 2006. The papers were divided into 7 sections, by separate specific areas of scientific research:

Plenary lecture: 1 paper

Section A: Textile fibres and advanced materials (25)

Section B: Manufacture of yarns, fabrics and nonwovens (16)

Section C: Textile finishing, dyeing and care (30)

Section D: Clothing technologies and engineering (28)

Tekstilno-tehnološki fakultet Sveučilišta u Zagrebu organizirao je 3. međunarodni simpozij o tekstilu, odjeći i dizajnu (International Textile, Clothing & Design Conference), koji je održan od 8. do 11. listopada 2006. godine u Međunarodnom središtu hrvatskih studija u Dubrovniku (<http://itcdc.ttf.hr/>).

Temelj organizacije tog kongresa je uspješna organizacija ITC&DC 2002 i 2004, a treći ITC&DC 2006 već je postao tradicionalan i jedan od najznačajnijih europskih i svjetskih skupova za znanstveno polje tekstilnih i odjevnih tehnologija, mode, dizajna i marketinga, a ujedno i jedini međunarodni znanstveni skup s tog područja koji se održava u Republici Hrvatskoj.

S obzirom na to da je kongres postao tradicionalan, održan je pod visokim pokroviteljstvom Ministarstva znanosti, obrazovanja i športa RH, Ministarstva gospodarstva, rada i poduzetništva RH i Hrvatske gospodarske komore te svjetskih i europskih znanstvenih i stručnih udruga: Akademije tehničkih znanosti Hrvatske, DAAAM International Vienna, Austrija; AUTEX Ghent, Belgija; The Textile Institute, Manchester, UK; International Textile Academie, New Delhi, Indija; AATCC, Research Triangle Park, USA; IFKT, Reutlingen, Njemačka; SDC, Bradford, UK i Hrvatskog društva kemijskih inženjera, dok je predsjednik Znanstvenog i programskog odbora bio prof. emeritus Ivo Soljačić.

U postupku organizacije prijavljen je 261 rad, od kojih je međunarodni recenzentski odbor prihvatio 184, koji su tiskani u zborniku radova 3. ITC&DC 2006 i podijeljeni u sedam sekcija kao zasebna specifična područja znanstvenih istraživanja:

plenarno predavanje: 1 rad

sekcija A: Tekstilna vlakna i napredni materijali (25)

sekcija B: Proizvodnja pređa, tkanina, pletiva i netkanog tekstila (16)

sekcija C: Oplemenjivanje, bojadisanje i njega tekstila (30)

sekcija D: Odjevna tehnologija i inženjerstvo (28)

Section E: Analysis, testing and quality control (45)

Section F: Design and marketing of textile and clothing (29)

Section G: Environment, ecology and energy management (10).

The Book of Proceedings included 184 papers, by 414 authors from 32 countries around the world, 29 of them from Croatia, 28 papers from transition countries (Romania, Turkey, Bulgaria, Serbia & Montenegro, Macedonia, Albania, Bosnia & Herzegovina), 95 papers from EU countries, 16 papers from China, 11 papers from Iran, 2 from the USA, 3 from Pakistan, 2 from India and 1 from Kenya.

The papers published in the Book of Proceedings have been processed in the secondary bases: World Textile Abstracts (WTA), Textile Technology Digest, Textile Global/Net, Chemical Abstracts (CA) and the Institute for Scientific Information (ISI), while selections have been or are in the process of being published in special editions of the magazines International Journal of Clothing Science and Technology, Kemija u industriji, Tekstil and Industria Textila Magazine.

The number of papers presented at the conference indicates the rising number of young scientists, which proves that the scientific research in the field of textiles is quite attractive, interesting and relevant. It is important to notice that 26 of the papers published the results of collaboration of the authors from different countries.

The reviewing team for the Book of Proceedings of the 3rd ITC&DC 2006, nominated by the Ministry of Science, Education and Sports of Croatia, pointed out that the book was, by the quality of the contributions from the renowned European and world scientific research institutions, a scientific book.

Research, national and social importance of the traditional conference – the 3rd ITC&DC 2006, for Croatia is based on the fact that it was the biggest and most important conference in the field of textiles held out of the political (EU) and economic structures, as well as that it has become an important international forum to present and exchange knowledge, experiences, results and ideas associated with state-of-the-art in the field of textile and garment technology, fashion design and marketing of textiles and clothing.

The 3rd ITC&DC 2006 has also constituted a platform for continuation of contacts and international collaboration, which is of extreme importance for including the scientists from Croatia into international research projects and utilisation of the pre-accession funds supplied by the EU.

The conference also included a meeting of the national co-ordinators for the international CEEPUS network (SI-007), where further and broader collaboration in teacher and student exchange according to the Bologna principles was discussed.

sekcija E: Analiza, ispitivanje i kontrola kvalitete (45)

sekcija F: Dizajn i marketing tekstila i odjeće (29)

sekcija G: Zaštita okoliša i gospodarenje energijom (10).

U zborniku radova bilo je tiskano 184 rada od ukupno 414 autora iz 32 zemlje Europe i svijeta od čega je 29 radova bilo iz Hrvatske, 28 radova iz tranzicijskih zemalja (Rumunjska, Turska, Bugarska, Srbija i Crna Gora, Makedonija, Albanija, Bosna i Hercegovina), 95 radova iz zemalja Europske unije, 16 radova iz Kine, 11 iz Irana, dva iz SAD-a, tri iz Pakistana, dva iz Indije i jedan iz Kenije.

Radovi objavljeni u zborniku su procesirani u sekundarne baze: World Textile Abstracts (WTA), Textile Technology Digest, Textile Global/Net, Chemical Abstracts (CA) i Institute for Scientific Information (ISI), a izbor radova je u postupku objavljivanja u posebnim brojevima časopisa International Journal of Clothing Science and Technology, Kemija u industriji, Tekstil i Industria Textila Magazine.

Broj radova koji su bili prezentirani pokazuje povećan udio mladih istraživača, što ukazuje na to da su znanstvena istraživanja u području tekstila atraktivna, zanimljiva i privlačna. Značajno je istaknuti da su u 26 radova objavljeni rezultati međusobne suradnje autora iz različitih zemalja.

Prema iskazanoj recenziji recenzenata imenovanih od Ministarstva znanosti, obrazovanja i športa Zbornik radova 3. ITC&DC 2006 predstavlja, prema razini kvalitete i sudjelovanju priloga iz najznačajnijih europskih i svjetskih znanstvenih i istraživačkih institucija, znanstveno djelo.

Znanstveno, nacionalno i društveno značenje za Republiku Hrvatsku ovog već tradicionalnog skupa sadržano je u činjenici da je to najveći i najvažniji skup iz znanstvenog polja tekstilne tehnologije koji se održava izvan političkih (EU) i ekonomskih struktura i postao je važan međunarodni forum za prezentiranje i izmjenu znanja, iskustava, rezultata i spoznaja koje su vezane uz nova znanstvena dostignuća u polju tekstilne i odjevne tehnologije, kao i dizajna i marketinga tekstila i odjeće.

Stoga je sada 3. po redu ITC&DC 2006 postao platforma za nastavak uspostavljanja kontakata i međunarodne suradnje što je u ovom trenutku posebno važno za uključivanje znanstvenika iz Republike Hrvatske u međunarodne projekte i korištenja pristupnih fondova Europske unije.

Na kongresu je bio održan sastanak nacionalnih koordinatora međunarodne mreže CEEPUS (SI-007) u vezi s nastavkom i proširenjem suradnje u izmjeni nastavnika i studenata prema Bolonjskom procesu.

Ovaj ITC&DC je bio posebno značajan kao završni sastanak europskih znanstvenika, na kojem je ujedno bila završno utvrđena prethodno dogovorena suradnja za definiranje dugoročnih znanstvenih projekata vezanih

The last ITC&DC was especially important as it was the last meeting of the European researchers in the field, where the final points of previously agreed upon collaboration were settled, related to the research projects within the 7th Framework of the EU, the submission of the projects being in progress at the moment.

The organisers of the conference, the ITC&DC Team were officially in Vienna awarded a special diploma "For excellent organisation of the 3rd International Textile, Clothing & Design Conference ITC&DC" by the DAAAM International Vienna, during the 17th DAAAM International Symposium.

Since the 3rd ITC&DC 2006 has been completely successful, both in view of the international affirmation of the Faculty of Textile Technology and as a contribution to the reputation of Croatia, we take it as a priority to continue with the organisation of the next 4th ITC&DC 2008. We suppose it will be organised from 5–8th October 2008 in Dubrovnik again, as the collaboration with the International Centre of Croatian Studies has been excellent so far and promises further successes.

I would like to express my sincerest thanks to *Danko Škare*, Ph. D., Editor in Chief and the Editorial Board of the scientific magazine *Kemija u industriji* for the opportunity to publish this selection of papers from the conference in the Journal, and in this way further promote the results of the Conference and benefit of the textile and garment international community.

Guest Editor
Prof. Zvonko Dragčević, Ph. D.

za 7. okvirni program Europske unije, čija je prijava u tijeku.

Veliko priznanje našem kongresu je dodjela posebnih diploma timu ITC&DC "For excellent organisation of the 3rd International Textile, Clothing & Design Conference ITC& DC" od strane DAAAM International Vienna, koja je svečano uručena u Beču prilikom održavanja 17. međunarodnog simpozija DAAAM.

S obzirom na uspjeh koji je 3. ITC&DC 2006 postigao za međunarodnu afirmaciju Tekstilno-tehnološkog fakulteta i Republike Hrvatske ovakav oblik međunarodne suradnje bit će jedan od prioritarnih zadataka da se nastavi s kontinuiranim djelovanjem u okviru organizacije sljedećeg 4. ITC&DC 2008 koji bi bio zbog dobre i uspješne suradnje s Međunarodnim središtem hrvatskih sveučilišta također organiziran u Dubrovniku od 5.–8. listopada 2008.

Ovime zahvaljujem u ime organizatora i organizacijskog odbora 3. ITC&DC 2006 glavnom uredniku dr. sc. *Danku Škare* i uredništvu časopisa *Kemija u industriji* što su prihvatili za objavu izbor radova s naše konferencije i time pridonijeli promociji rezultata ovog kongresa.

Guest editor
Prof. dr. sc. Zvonko Dragčević