

2nd International Scientific Seminar on BIOTEXTILE, BIOMECHANICS and COMPOSITE MATERIALS

July 11 - 14, 2017, Riga, Latvia

General information of ISBCM 2017

The exit session of 2nd International Scientific Seminar on BIOTEXTILE, BIOMECHANICS and COMPOSITE MATERIALS (ISBCM 2017) will be held at the Riga Technical University, Faculty of Mechanical Engineering, Transport and Aeronautics, Scientific Research Laboratory of Biotextile Materials, from July 11 – 14, 2017 in Riga, Latvia.

The purpose of the Seminar is to strengthen contacts between biotextiles, biomechanics and chemistry (area of Composite Materials) researchers, and to bring together professionals to discuss actual problems in biotextiles, biomechanics and chemistry area. As well, to transform decades of experience in university education and scientific research into a manufacture.

The Seminar gives access to new technologies, knowledges and resources of their implementation.

Scientific knowledge frees up resources for the implementation of the update (the mobilization of social forces allows to introduce new technologies and to upgrade), search innovation (through brainstorming), on the basis of which it is possible to prepare a competitive product or to develop the technology.

Information of Seminar will be useful for development of careers of young professionals who plan to work in the field of biotextile, biomechanics, chemistry (area of Composite Materials) and to prepare a platform for the preparation of a joint research projects.

Scientific Program

The scientific program will consist the topics:

1. Biotextile fibres and advanced materials
2. Biomechanics and Mechanics Processes
3. Manufacture of composite yarns, fabrics and nonwovens
4. Biotextile finishing, dyeing and care
5. Analysis, testing and quality control
6. Design and marketing of biotextile
7. Environment protection, ecology and energy management.

2nd International Scientific Seminar on BIOTEXTILE, BIOMECHANICS and COMPOSITE MATERIALS will be held from Tuesday, July 11th 2017 to Friday, July 14th 2017 in the Lecture hall of Faculty of Mechanical Engineering, Transport and Aeronautics, Riga Technical University in the heart of the historic centre of Riga (Latvia) Kipsala, Laboratory house, Paula Valdena 1, 101.

Schedule of ISBCM 2017

Tuesday, July 11th 2017

10:00 AM - 10:30 AM	Registration of authors and participants
10:30 AM - 11:00 AM	Opening ceremony
11:00 AM - 12:30 PM	Plenary lecture: Dr.sc.ing. Olga Kononova “Creation of mechanical models of textile interlacing on the basis on computer modeling with given controlled physical and mechanical properties”.
12:30 PM - 13:00 PM	Coffee break
13:00 PM - 15:00 PM	Plenary lecture: Director of Scientific Research Laboratory of Biotextile Materials Dr.sc.ing. Ing Lyashenko “Textile material reducing the level of infrared radiation in the thermal spectrum for military defense purposes”.

Wednesday, July 12th 2017

10:00 AM - 12:00 AM	Plenary lecture: Director of Laboratory of Organometallic and Macromolecular Chemistry Composite Materials (LCO2MC) Prof. Mustapha Raihane “Highly thermostable and crystalline poly(butylene adipate terephthalate)/carbon nanocomposites prepared by <i>in situ</i> polycondensation with organically modified Moroccan beidellite clay” (1 part).
12:00 AM - 12:30 PM	Coffee break
12:30 PM - 14:00 PM	Plenary lecture: Director of Scientific Research Laboratory of Biotextile Materials Dr.sc.ing. Ing Lyashenko “New generation textile fibers”.

Thursday, July 13th 2017

10:00 AM - 12:00 AM	Professional discussion and presentation of scientific works of PhD and Master students Scientific Research Laboratory of Biotextile Materials, Concrete Mechanics Scientific Laboratory, Riga Technical University, Faculty of Mechanical Engineering, Transport and Aeronautics.
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12:00 AM - 12:30 PM	Coffee break
12:30 PM - 16:00 PM	Plenary lecture: Director of Laboratory of Organometallic and Macromolecular Chemistry Composite Materails (LCO2MC) Prof. Mustapha Raihane “Highly thermostable and crystalline poly(butylene adipate bionanocomposites prepared by <i>in situ</i> polycondensation with organically modified Morocco beidellite clay” (2 part).

Friday, July 14th 2017

10:00 AM - 12:30 AM	Plenary lecture: Laboratory of Organometallic and Macromolecular Chemistry - Composite Materials (LCO2MC) Prof. Mustapha RAIHANE ”Bionanocomposites poly(caprolactone) organomodified Morocco Beidellite clay prepared by in-situ ring opening polymerization : Characterizations and properties
12:00 AM - 12:30 PM	Coffee break
12:30 PM - 14:00 PM	Professional discussion Director of Concrete Mechanics Scientific Laboratory Prof. Andre Krasnikovs “Composite Fiber Pull-Out in Concretes with Various Strengths”.
14:00 PM - 15:00 PM	Professional discussion with Enterprenneers Theme: Cellulose Nanocrystals Extracted from Okra Fibers in PVA Nanocomposites.
15:00 PM - 15:30 PM	Coffee break
15:30 PM - 16:30 PM	Professional discussion (round table of all participants).
19:00 PM - 20:00 PM	Dinner