Come to Latvia and live a NONLINEAR summerLIFE!

AUGUST 20 – 31, 2017, RIGA, DAUGAVPILS, LATVIA

As Mark Rothko said: «A painting is not a picture of an experience, but is the experience».

The Institute of Biomedical Engineering and Nanotechnologies of the Faculty of Mechanical Engineering, Transport and Aeronautics and the International Relations Department of Riga Technical University follow this line by inviting YOU to have a NONLINEAR LIFE’s experience by joining our summer school titled **«Nonlinear Life»**.

Your journey within this summer school will lead you through mathematical and physical experiments dealing with nonlinear objects and linearization of nonlinear systems. So by focusing on both approaches you will acquire not only theoretical knowledge, but – practical experience of engineering and biomedical technologies.

Even more – during your «Nonlinear Life» journey you will be involved into many other dimensions of life offered only by the capital of Latvia – Riga… This city knows how to make you feel emotional (level based) vibrations. And you know, by vibrations we don’t mean – vibrations of aircrafts that is widely used in engineering language.

**If you have finished at least one year of studies by the time the Summer School starts, speak fluent English, appreciate the experience of qualified professionals and enjoy creative work, you are more than welcome to join this event from August 20 to 31, 2016 in Riga and Daugavpils.**

HOST OF THE SUMMER SCHOOL

Riga Technical University is an internationally recognized university complying with European standards. At present, it is the largest university in Latvia and gathers nearly 15 000 students at nine faculties in various study programs.

The Institute of Biomedical Engineering and Nanotechnologies is a part of Riga Technical University and has a lot of experience with participation in and coordination of national and international research and educational projects, international conferences for both scientists and students.

The Institute has a worldwide cooperation in research and education. The Institute has a leader position in Medical Physics and Engineering education in the Baltic region. The research done by the Institute focuses on nanotechnologies, smart textile and biotextile, nanodosimetry towards medical applications.

Daugavpils affiliate is a representative of RTU in Latgale region. RTU has established a comprehensive network of affiliations outside the capital city Riga in order to promote intellectual development in the regions of Latvia and to educate and train qualified workforce close to their place of residence in different parts of the country. One of the goals of the state policy of Latvia is to improve the economic situation of Latgale. Multidisciplinary specialists working on the development of high-quality production can substantially help to solve this problem.

PROGRAM

Students and young scientists will attend lectures of famous scientists in the fields of dynamics of nonlinear systems, medical engineering and physics. Seminars will cover topics like preparation of scientific publications. Practical classes on computer modelling and examination of nonlinear dynamic systems will be organized in the research laboratories of RTU (Riga). Students will be able to visit medical institutions, for example, the Oncology Centre of Latvia (Riga) and industrial enterprises like «Regula Baltija» (testing banknotes and coins) and «Axon cable» (manufacturing cable for home and aircrafts) in Daugavpils. In addition, interdisciplinary teams will be formed to work with projects. Informal discussions will be held about the modern issues of formation in the field of nonlinear systems, engineering medicine and physics. The summer school is aimed to provide new generation of listeners with the ability to develop interdisciplinary thinking.

The summer school will take place in the capital of Latvia – Riga and in the largest city of Latgale (one of the four regions of Latvia) – Daugavpils where the biggest affiliation of RTU is situated. During the summer school excursions, sightseeing of Riga, Daugavpils and other interesting places outside the cities will be organized. The students will get acquainted with the local historical and cultural monuments. Latvian language and Latvian culture will be presented in a form of a game in order for participants to feel and perceive the national environment. There will also be activities organized with the aim to reveal the participants’ creative and sports skills and abilities.

Do we mentioned Mark Rothko? Yes, the famous painter originally is from Daugavpils – the second biggest city in Latvia. YOU will visit Daugavpils Mark Rothko Art Center! The only place in Eastern Europe where you have an opportunity to get acquainted with the original works of Mark Rothko.

STUDY CREDITS

Certificates of Further Education of Riga Technical University and 2.5 ECTS (European Credit Transfer System) credit points will be awarded upon completion of the program.

PARTICIPATION FEE

The participation fee covering registration, tuition, accommodation in the student hostel of RTU, meals (breakfast and lunch) and the social program is **EUR 700.** The participants will have to cover their travel expenses and health insurance. A participant with the most outstanding academic result will be able to receive a partial bursary from the organizers.

APPLICATION

The deadline for submitting the application is **May 5, 2017**

PLEASE ENCLOSE THE FOLLOWING DOCUMENTS IN ENGLISH:

Application form / summerschool.rtu.lv

*Curriculum Vitae*

Letter of motivation (1 page)

CONTACTS

**Questions related to content** of the summer school should be addressed to the Institute of Biomedical Engineering and Nanotechnologies of RTU (Phone: +371 67089422, Jurijs.Dehtjars@rtu.lv).

The International Relations Department of RTU will be happy to answer all **questions concerning organizational matters**, which might occur before the Summer School starts or during its course.

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