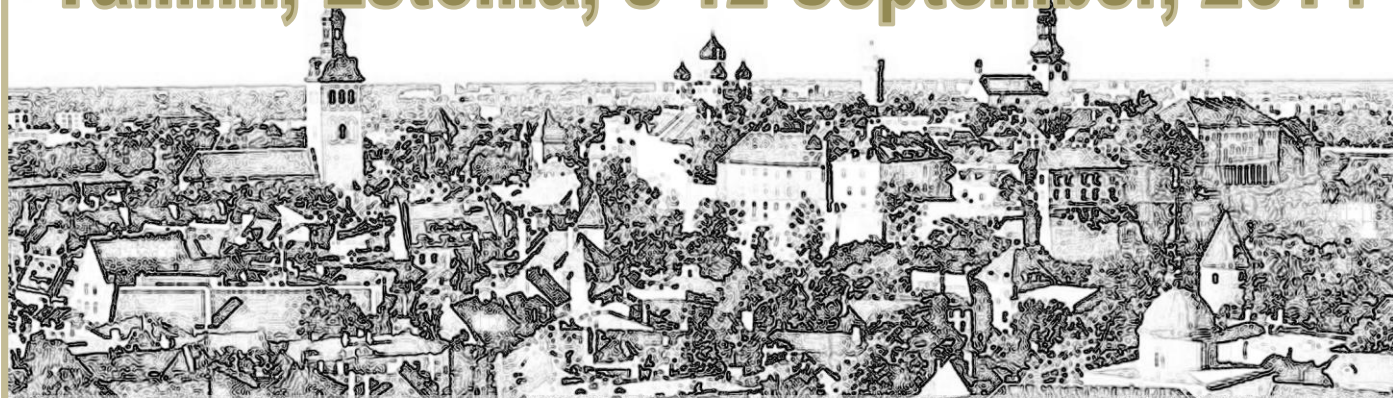


Tallinn, Estonia, 8-12 September, 2014



Complexity of Nonlinear Waves

Chairman: A. Salupere; Co-Chairman: G.A. Maugin

Wave motion is the key mechanism of interest to many fields of science, such as mechanics, acoustics, seismology, oceanography, coastal and offshore engineering, electromagnetism, etc. Despite an extreme variety of physical appearances of wave phenomena, different disciplines share many mathematical models and numerical methods.

Our purpose is to foster research into different aspects of nonlinear wave phenomena – the theoretical, the computational and the applied – through promoting the transfer of competence over the existing borders of classical research disciplines. The synergy of many fields will serve as final goal.

IUTAM SYMPOSIUM 2014

We focus on essentially nonlinear problems where complicated original mathematical models are derived, innovative ideas are applied for computing, and novel applications are intensively created in a number of research fields. Interaction of nonlinearity with accompanying effects such as changing properties of the medium sheds further light to understanding and forecast of physical phenomena. The Symposium will provide a forum for presentation and discussion of innovative complex models and methods including computer based simulation of dynamical processes in mechanics.

The main organiser of the Symposium is the Centre of Nonlinear Studies (CENS) at Institute of Cybernetics, where the complexity of wave fields in solids and fluids has been one of the focal issues for a long period (a previous IUTAM Symposium in 1982).



Institute of Cybernetics
at Tallinn University of Technology, Estonia

Hosting Institution:

Tallinn University of Technology, Estonia



International Union of Theoretical
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