CENS

Intensive week: "NONLINEAR WAVES AND APPLICATIONS" Sept.13-18, 2004, Tallinn

Timetable

	Tuesday	, 14th	September
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10.00–12.00	Seminar – graduate students
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- 12.00-13.00 Lunch
- 13.00–15.00 Seminar continues
- 15.00-15.15 Break
- 15.15–17.00 Consultations

Wednesday, 15th September

- 10.00–12.00 G.A. Maugin, What do we understand by "Generlized" continua? tutorial
- 12.00-13.00 Lunch
- 13.00–15.00 M. Braun, *Nonlinear elasticity theory* tutorial
- 15.00-15.15 Break
- 15.15–16.45 Seminar J. Kalda, P. Peterson, T. Soomere

Thursday, 16th September

- 10.00–12.00 F. Pastrone, *Mathematical models of microstructured solids (Cosserat, vectorial microstructure, etc.)* tutorial
- 12.00-13.00 Lunch
- 13.00–15.00 Seminar J. Engelbrecht, A. Salupere, A. Berezovski, A. Stulov,
- 15.00-15.15 Break
- 15.15–17.15 Seminar continues G.A. Maugin, M. Braun

Friday, 17th September

- 10.00–12.00 Seminar F. Pastrone, A. Ravasoo, J. Janno
- 12.00-13.00 Lunch
- 13.00–15.00 Seminar "Future" new ideas and forwardlooks with everybody taking part

General information

- All meetings CENS , Institute of Cybernetics at Tallinn University of Technology, Akadeemia tee 21, 12618 Tallinn
- Titles of seminar lectures www.ioc.ee

Seminars

Tuesday, 14th September Seminar — graduate students

10.00-12.00

Andres Braunbrück Wave interaction resonances and weak material inhomogeneity

Olari Ilison Solitons and solitary waves in microstructured solids
Lauri Ilison Solitons and solitary waves in granular materials
Mihhail Berezovski Elastic waves in linear and nonlinear periodic media

13.00-15.00

Maksim Säkki The distribution of low-variability periods in human heartbeat

dynamics

Robert Kitt Scale invariance in financial time series: low variability

periods

Andrei Errapart Photoelastic Tomography in Linear Approximation

Wednesday, 15th September Seminar 15.15–16.45

Jaan Kalda Scale invariance in turbulent diffusion
Pearu Peterson Interaction solitons in soliton interactions

Tarmo Soomere Nonlinear waves from fast ferries

Thursday, 16th September Seminar 13.00–17.00

13-15

Jüri Engelbrecht Hierarchical modelling of wave motion in microstructured

solids

Andrus Salupere Soliton ensembles and their long-time behaviour Arkadi Berezovski Velocity at Discontinuity in Thermoelastic Solids

Anatoli Stulov Piano hammer felt — microstructural material with memory

15.15-17.15

Gérard A. Maugin Nonlinear surface waves on elastic bodies

Manfred Braun to be confirmed

Friday, 17th September Seminar 10.00–12.00

Franco Pastrone to be confirmed

Arvi Ravasoo Wave interaction for NDE of inhomogeneous prestress

Jaan Janno Solitary waves in Engelbrecht-Pastrone model of

microstructure and related inverse problems