

## 38<sup>th</sup> SCANDINAVIAN SYMPOSIUM ON PHYSICAL ACOUSTICS GEILO HOTEL 1 – 4 February 2015

## **PROGRAM**

**Sunday:** Some possible train arrivals: 18:56 from Bergen, and 15:38 and 18:52 from Oslo.

Dinner is served from 19:00

**Opening 21:30** 

Monday morning 4 talks		
8:15 – 8:40	Rolf Korneliussen Complementary density estimates of fish layers with echo sounder and scientific	
	sonar	
8:40 - 9:05	Helge Balk	
	Surface induced errors in target TS and depth observed with horizontally aligned transducers for fisheries acoustics.	
9:05 – 9:25	Coffee	
9:25 - 9:50	Ievgen Koliada	
	Oscillations of position and TS under the surface	
9:50 – 10:15	Pedersen, Geir	
	Efficient BEM for acoustic scattering with application to fish	
10:15 – 15:45	Time available for skiing and lunch. Lunch served 13:00 – 14:30. Note that restaurant close at 14:30. It is possible to make lunch bag during breakfast.	
Monday afternoon 7 talks		
15:45 - 16:10	Isabel Pérez-Arjona	
	TS measurements and simulations of Mediterranean sea turtles	
16:10 - 16:35	Jens Martin Hovem	
16:35 – 17:00	Measurements and analysis of underwater acoustic noise of fishing vessels Patricia Ordoñez	
10.55 – 17.00	Aperture considerations for parametric echosounding	
17:00 – 17:25	Coffee	
17:25 - 17:50	Ole Lorentzen	
17:50 – 18:15	Effects and compensation techniques of snaking for a towed sonar array on an AUV Søvik, A. A., Andersen, K. K., Lunde, P. and Vestrheim, M.,	
17.30 – 16.13	Characterization of ultrasound transmit-receive measurement systems in air.	
	Comparison of finite element modelling and experimental measurements	
18:15 - 18:40	Sven Ivansson, Per Morén, Torbjörn Ståhlsten	
	Seismo-acoustic wave propagation in ice in the Baltic Sea	
18:40 - 19:05	Karl-Thomas Hjelmervik, Henrik Berg	
	Automatic classification for mid-frequency sonars in a littoral environment	

<b>Tuesday mornin</b> 8:15 – 8:40	ng 4 talks Halvor Hobæk
8:40 – 9:05	Numerisk beregning av refleksjonskoeffisient fra en stabel av plane, elastiske plater over et elastisk substrat Andersen, K. K., Søvik, A. A., Lunde, P. and Vestrheim, M., Reciprocity calibration method for ultrasonic piezoelectric transducers in air. Comparison of finite element modelling and experimental measurements
9:05 - 9:25	Coffee
9:25 – 9:50	Ole Marius Hoel Rindal  Understanding Contrast Improvements from Capon Beamforming for Ultrasound  Imaging  Transic Value
9:50 – 10:15	Torstein Yddal Optically transparent ultrasound transducers
10:15 - 15:45	Time for skiing and lunch. <b>Lunch served 13:00 – 14:30.</b> Restaurant closes at 14:30.
Tuesday afterno	oon 7 talks
15:45 – 16:10	Sverre Holm
16:10 – 16:35	Four ways to interpret temporal memory operators in the wave equation Espen Storheim (CMR), Kjetil D. Lohne (CMR) og Torbjørn Hergum (BTC/Archer) Transmission and reflection for a layered media in water. Measurements and simulations
16:35 – 17:00	Magne Aanes, Kjetil Daae Lohne, Per Lunde and Magne Vestrheim  Beam transmission of water-embedded steel plate at normal incidence. Diffraction effects in the S1 to A3 region.
17:00 – 17:25	Coffee
17:25 – 17:50	Sæther, M. and Lunde, P. Sound velocity measurement method for porous sandstone. Discussion and preliminary results
17:50 - 18:15	Vikash Pandey Spatial dispersion of shear waves in a tempered Eringen's nonlocal bar
18:15 – 18:40	Erlend Magnus Viggen (SINTEF ICT), Tonni Franke Johansen (SINTEF ICT) og Ioan-Alexandru Merciu (Statoil)
18:40 – 19:05	Simulation and modelling of ultrasonic double-casing well logging Marek Moszyński Nonstandard finite difference scheme for Helmholtz wave equation
Dinner is served	l from 19:00 - 21:00
Tuesday evening	g 21:30 Applied fluid dynamics - voluntary contributions
Wednesday mor	rning 4 talks (no break)
9:00 – 9:25	Gunnar Taraldsen The decibel and Ars Conjectandi
9:25 – 9:50	Kristoffer Johansen Radial oscillations of microscopic Antibubbles
9:50 – 10:15	Michiel Postema Fluid dynamics
10:15 – 10:40	Knut Waagan Mapping low frequency blast noise in a Norwegian terrain
10:40 – 11:05	Lunde, P.,  Volume backscattering of finite-amplitude acoustic waves: Power flow, sampled volume, and scattering cross section