



**XXXIV SYMPOSIUM
ON HYDROACOUSTICS**

23-26 MAY 2017

JASTARNIA, POLAND

Symposium Program

Tuesday, May 23th	
14.00	
Lunch	
15.00	
Opening ceremony	
15.30	
E. Kozaczka	Memory of Professor Ignacy Gloza
B. Gloza	Beata Gloza's Speech
W. Mironiuk	Speech of Dean of Faculty of Navigation And Naval Weapons Polish Naval Academy
16.20	
R. Józwiak, I. Nissen, K. Listewnik	Data Compression and Clustering of a One-third Octave Spectra by "Acoustical Colors"
16.40	
W. Szymczak, K. Buszman	Passive Hydroacoustic Method of Detection and Tracking Object Moving on the Sea Surface and Floating in the Depth.
17.00	
Coffee break	
17.30	
K. Buszman, W. Szymczak, W. Mironiuk	Acoustic Analysis of Remote-Controlled Surface and Underwater Vehicles
17.50	
S. Kula, R. Józwiak	Use of Hydrophone Housing and Influence on the Voltage Sensitivity
18.10	
H. Lasota	Time-space Kinedynamics of Spherical and Plane Wave-bifields
19.00	
Barbeque	

Wednesday, May 24th

8.00

Breakfast

9.00

INVITED PAPER

J. Wójcik

Grating Lobes Suppression by Adding Virtual Receiving Subaperture

9.50

A. Nowicki

Shear Wave Tissue Elastography

10.10

T. Kujawska, W. Dera, C. Dziekoński

Automated Bimodal Ultrasound Device for Preclinical Testing of HIFU Technique in Treatment of Solid Tumors Implanted into Small Animals

10.30

W. Secomski, J. Wójcik, Z. Klimonda,
A. Nowicki

Influence of Absorption and Scattering on the Acoustic Streaming Velocity

10.50

Coffee break

11.20

INVITED PAPER

J. Tęgowski, G. Deane, P. Blondel,
O. Glowacki, M. Moskalik, J. Jania,
M. Błaszczak, M. Cieplý

Passive Acoustics Study of Spitsbergen Glaciers

12.10

A. Serebryany, G.V. Kenigsberger,
V.P. Elistratov, L.L. Tarasov,
A.N. Svadkovsky, O.E. Popov,
E.E. Khimchenko, V.N. Chekaida

Acoustic Diagnostics and Investigation of Hydrophysical Parameters of the Marine Environment on the Northeastern Shelf of the Black Sea

12.30

J. Szusiewicz, Z. Klusek, N. Gorska

Impact of Salinity on the Underwater Noise Generated by Small Scale Air Entrainment events

12.50

P.D. Pezacki, N. Gorska, V.A. Soloviev

On Acoustic Study of Zooplankton Diel Vertical Migration in the Black Sea

13.10	
J. Majcher	Mapping of the Chemical Munitions Dumping Zones in the Baltic Sea Using GIS
13.30	
Lunch	
14.30	
INVITED PAPER	
I. Nissen, F. Paepke, P. Küster	Impact of Offshore Facilities on Maritime Situational Awareness with Focus on "Underwater MSA"
15.20	
G. Fuchs, I. Nissen	Advanced Analytics for Underwater Maritime Situational Awareness
15.40	
E. Dubrovinskaya, I. Nissen, P. Casari	Passive Multipath-aided Underwater Global Positioning System
16.00	
K. Drypczewski, Ł. Markiewicz, A. Stepnowski	Multidimensional GIS for Satellite Imagery Analysis
16.20	
Coffee break	
16.50	
J. Krawczyk, K. Bikonis, A. Stepnowski	Integrated Acoustic-optical System for Inventory of Hydrotechnical Objects
17.10	
K. Bikonis, J. Demkowicz	Inertial Sensors Applications in Underwater Measurements
17.30	
M. Kulawiak, Z. Łubniewski	Multibeam and LiDAR Data Processing for 3D Object Shape Reconstruction
17.50	
Z. Łubniewski, D. Sęk	On Algorithm Details in Multibeam Seafloor Classification
18.10	
J. Demkowicz	Underwater Vehicle Attitude Evaluation using MEMS Technology
20.00	
Banquet	

Thursday, May 25th

9.00

Breakfast

10.30

K. Kamińska

Kriegsmarine Torpedo Proving Ground on the Puck Bay
and
Polish Navy Control and Measurement Unit

11.30 (Port of Jastarnia)

Cruise to Torpedo Proving Ground and Navy Measurement Unit

18.00

Dinner

19.00

Assembly of Section of Underwater and Medical Acoustics PAS

Friday, May 26th	
8.00	
Breakfast	
9.00	
INVITED PAPER	
I. Kočańska	Recent Advances in Digital Underwater Acoustic Communications
9.50	
J. Schmidt, I. Kočańska	Measurement of the Impulse Response of a Shallow Water Communication Channel
10.10	
K. Czarnecki	Estimation of Phase-based Signal Properties Using a Special IIR Filter Bank for Intercept Sonar Application
10.30	
K. Abratkiewicz, K. Czarnecki	Sonar Pulse Detection Using Chirp Rate Estimation and CFAR Algorithms
10.50	
Coffee break	
11.20	
A. Jedel, J. Marszał, R. Salamon	Analysis of Target Distance Measurement Errors in CW FM Sonar with Code Modulation
11.40	
P. Grall, J. Marszał	New Order Determination for Modified Prony Method in Swath Mapping Application
12.00	
M. Rudnicki, I. Kočańska, J. Schmidt	Implementation of DIFAR Processing in ASW Dipping Sonar
12.30	
Closing ceremony	
13.00	
Lunch	