

Chronicle

**11th International School on Acousto-optics and its Applications
Gdańsk, Poland, September 5 – 6, 2011**

The *11th School on Acousto-optics and its Applications* was held during the **ICU'2011 – International Congress on Ultrasonics'2011, Gdansk, Poland, 5–8 September 2011**, incorporated within the Congress as one of the six structured sessions named as *Acousto-optics* in the first and the second days being one of the four parallel sessions of other ultrasonic topics of the Congress.

About 60–80 people attended the acousto-optics sessions where 16 papers were presented by participants from Algeria, Belgium, Brasile, France, Japan, Lithuania, Poland, Russia. Three presentations were invited lectures given by:

- Vitaly B. VOLOSHINOV, *Phase and group velocities of bulk optic and acoustic waves in crystals, periodic structures and metamaterials.*
- Vladimir Ya. MOLCHANOV, Oleg Yu. MAKAROV, *Acousto-optics for femtosecond laser systems.*
- Jean-Claude KASTELIK, *Polarization insensitive acousto-optical tunable notch filter.*

Other topics presented as oral and poster papers were related to such interesting problems as acousto-optic (AO) interaction in anisotropic medium (N. POLIKARPOVA, E. DJAKONOV, V. VOLOSHINOV), propagation and reflection of acoustic waves in strongly anisotropic crystals in the general case of inclined incidence (N. POLIKARPOVA, V. VOLOSHINOV), also including their polarization (N. POLIKARPOVA, P. MALIEVA), AO interaction in TeO₂ and LiNbO₃ devices with surface generation of bulk acoustic waves (A. TRUSHIN), Bragg diffraction for wave packets in dispersive media (K.B. YUSHKOV, V.YA. MOLCHANOV), heterodyne interferometry in acousto-electro-optic light modulators (K. KITANO, J.M.S. SAKAMOTO, R.T. HIGUTI, G.M. PACHECO), AO laser chopper by hypersonic waves in lithium niobate single cristal (E. BLOMME, P. KWIEK, B. LINDE, V. VOLOSHINOV), AO modulator as variable attenuator and wavelength division multiplex equalizer (G.M. PACHECO, K. KITANO, J.M.S. SAKAMOTO, R.T. HIGUTI), AO interaction of leaky surface acoustic waves in Y-cut

lithium niobate crystal (J. BELOVICKIS, R. RIMEIKA, D. CIPLYS), characterization of the wavelength dependence of a multi transducer acousto-optic switch (H. ISSA, V. QUINTARD, A. PERENNOU).

Also such applicable problems as efficient materials for near and middle IR-region on basis of Ge-Te-Se and Ge-Te-Se-S alloys (L.A. KULAKOVA, A.P. DANILOV, B.T. MELEH, S.A. GRUDINKIN), AO method used to control water pollution by miscible liquids (F. KOUIDER, G. LAZHAR, L. NAAMANE) or constructing 3D spectral imaging system based on AO tunable filters (V. POZHAR, A. MACHIKHIN) as well as visualization of resonance patterns in a glass plate (KEN YAMAMOTO, KANA IZUNO, MASAFUMI AOYANAGI) were presented and widely discussed. Also, very interesting discussion on AO applications took place at the Acousto-Optical Laboratory of the University of Gdańsk while visiting it by a group of participants invited there (P. KWIEK).

The Scientific Committee of the School have assembled the following members: Laszlo Adler (USA); Adriano Alippi (Italy); V.I. Balakshy (Russia); Erick Blomme (Belgium); Nico Declercq (France); Italo Gabrielli (Italy); Jean-Claude Kastelik (France); Adrian Korpel (USA); Piotr Kwiek (Poland); Oswald Leroy (Belgium); Bogumił Linde – v-ce Chairman of the 11th AO School (Poland); V.Ya. Molchanov (Russia); Gefeson M. Pacheco (Brasil); Nataliya Polikarpova (Russia); T.C. Poon (USA); André Perennou (France); Antoni Śliwiński (Poland); C.S. Tsai (Taiwan); Vitaly B. Voloshinov – Chairman of the 11th AO School (Russia).

Cordial thanks are expressed to the participants of Acousto-optics Session of the ICU'2011 Congress, particularly to the authors of presentations, the chairmen of sessions and the members of Scientific Committee of the 11th AO School as well as to all colleagues who put their efforts to keep acousto-opticians to continue their traditional triennial meetings at Gdańsk University.

B.B.J. Linde, A. Śliwiński