

VIII CONFERENCE ON THE UTILIZATION OF ULTRASONIC METHODS FOR STUDYING  
THE PROPERTIES OF CONDENSED MATTER  
Žilina (Czechoslovakia) 1-4 September, 1982

VIII Conference on the Utilization of Ultrasonic Methods for Studying the Properties of Condensed Matter was held on 1-4 September, 1982 at Žilina (Czechoslovakia). The Conference was sponsored by the Physics Section of the Slovak Mathematicians and Physicists Association, the Acoustic Committee (Ultrasonics Subcommittee) of the Czechoslovak Academy of Sciences, and organized by the Physics Department of the Technical University of Advanced Transport Engineering at Žilina, and Physics Institute of the Slovak Academy of Sciences in Bratislava. Assistant Prof. Dr. J. DURČEK was the chairman of the Organizing Committee of the Conference.

Four general lectures were delivered:

- A. ZAREMBOVITVCH, *Ultrasonic investigation of molecular crystals.*
- I. TUREK, I. BAJÁK, *Echo phenomena in piezoelectric powders.*
- V. W. RAMPTON, *The use of high frequency phonons in studying solids.*
- D. CHIPLYS, *Acoustoelectric phenomena in piezoelectric semiconductors.*

The following communications were delivered:

- E. SOCZKIEWICZ, *Application of the method of quantum field theory to investigation of acoustic waves propagation in random media.*
- V. HUDAIBERDYEV, *Investigation of particularities found in intermolecular interaction for glycerin solutions with ordinary and heavy water through acoustic methods.*
- P. HEGEDUS, S. KOLNÍK, C. MUSIL, I. VARGA, *Determination of TOEC for NaCl and KCl by using ultrasound.*
- I. BAJÁK, I. TUREK, J. VANČO, *Two pulse echo in powdered TGS in the vicinity of phase transition.*
- U. STRAUBE, G. SORGE, *Investigation of properties of incommensurate  $(NH_4)_2BeF_4$  by ultrasonic methods.*
- MARTIN, FRANKE, WEIHNACHT, *MSC effects in apodized transducers.*
- J. LISOVSKY, *Elastic properties and phase instability of doped  $V_2O_3$ .*
- K. MÍŠEK, *Ultrasonic study of Nb in magnetic fields.*
- J. DOMINEC, *Attenuation of ultrasound in BiSb alloys.*
- J. ČÁP, S. KOLNÍK, *Polarization effects in a layer system with elastic anisotropy.*
- V. GOLENISHCHEV-KUTUSOV, *Nonlinear propagation of acoustic waves in antiferromagnetics.*
- M. BOUDYŠ, *Properties of elastic moduli of PZT Ceramics.*
- V. ADAMAITIS, *Acoustoelectrical interaction in inhomogeneous semiconductors.*
- J. BRACINÍK, J. ŠTELINA, *Quantitative study of the electric field distribution in stationary acoustoelectric domains.*
- A. DAMARKAS, A. M. DIAKONOV, I. L. DRICHKO, D. KHIPLYS, *Acoustoelectric instability and acoustoelectrical interaction in indium antimonide.*
- E. GARSKA, *Acoustic modulation of recombination centers.*
- S. I. BEREZINA, *Measurement of acoustic wave velocity in solids by acoustical microscope.*

- V. A. KRASILNIKOV, V. I. PAVLOV, J. SLABEYCIUS, *Application of Hamilton's methods in problems of interaction and radiation of waves in acoustics.*
- M. KOŠEK, *Surface acoustic wave strip transducer.*
- H. J. FRÖHLICH, H. J. ROHDE, *Surface acoustic wave properties of thin film CdS prepared by hot-wall technology.*
- H. HOFMANN, *Signal processing by correlation with chirp and mis-matched surface acoustic waves devices.*
- K. ČÁPOVÁ, *Phase sensitive optical probing of surface acoustic waves.*
- M. NEVESELY, *Some methods for compensation of diffraction in SAW filters.*
- These papers will be published in Acta Physica Slovaca.

*Eugeniusz Soczkiewicz (Gliwice)*

### SUMMER WORKSHOP ON PSYCHOACOUSTICS OF MUSIC

Jablonna 5-11 July, 1982

Within the series of yearly international conferences organized by the Committee on Acoustics of the Polish Academy of Sciences, the Summer Workshop on Psychoacoustics of Music took place in Jablonna. The conference was organized by the Committee on Acoustics jointly with Frederiek Chopin Academy of Music in Warsaw. There were 60 participants; among them 32 came from abroad: from Austria, West Berlin, Czechoslovakia, Holland, Canada, GDR, West Germany, Sweden, USA, Italy and Hungary — 23 lectures and reports were presented, with much time devoted to discussions. The conference language was English. The following topics were discussed at separate sessions:

I. *Assessment of pitch*, II. *Absolute pitch*, III. *Relative pitch*, IV. *Psychoacoustic dissonance*, V. *Assessment of sound quality in musical instruments*, VI. *Assessment of concert hall acoustics*.

The lectures and reports were presented, among others, by the following foreign visitors: Dr. Judit ANGSTER (Academy of Sciences, Budapest, Hungary), Professor Dr. Frans BILSEN (Technical University, Delft, Holland), Professor Dr. Gert van den BRINK (Erasmus Universiteit, Rotterdam, Holland), Dr. Werner A. DEUTSCH (Österreichische Akademie von Wissenschaften, Wien, Austria), Professor Dr. Jurgen MEYER (Techn. Bundesanstalt, Braunschweig, West Germany), Professor Dr. Reinier PLOMP (Institute for Perception TNO, Soesterberg, Holland), Charles RAE (College of Music, Leeds, Great Britain), Dr. Peter SCHUBERT (Institut für Musikinstrumentenbau, Zwota, Vogtl, GDR), Professor Dr. Johan SUNDBERG (Royal Institute of Technology, KTH, Stockholm, Sweden), Professor Dr. Ing. Ernst TERHARDT (Institut für Elektroakustik, Technische Hochschule, München, FRG).

The Polish lecturers were the following:

Professor Dr. Gustaw BUDZYŃSKI (Technical University, Academy of Music, Gdańsk), Professor Dr. Andrzej RAKOWSKI (Laboratory of Musical Acoustics, Frederiek Chopin of Music, Warsaw), Professor Dr. Stefan CZARNECKI (Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw).

The scientific supervisor of the „Summer Workshop on Psychoacoustics of Music Jablonna 82” was Professor Andrzej RAKOWSKI.