## OUTLINE OF THE POLISH ACOUSTICIANS HISTORY PART II (1970–1989)

## and to anadous to brook house L. FILIPCZYŃSKI

This study is the second part of a chronological complication of the most important events in the scientific life of Polish acousticians in the past 20 years, 1970–1989. The first part of the outline, covering the years before 1969, was published in the materials of 36th Open Seminar on Acoustics OSA'89, held in Szczyrk-Biła, September 1989 [1]. It was also published in Archives of Acoustics 15, 1–2 (1990) [2]. The second part of the Outline was published in Polish in the materials of the 37 th Open Seminar on Acoustics held in Gdańsk, September 1990 [63].

Actually, the outline has been completed with new informations concerning the period which ended in 1969.

Events of major importance in Polish acoustics

## hotesta mow (taxasara 1970 ) and then't su panna A stead hilling

- a) "Ultrasound in Biology and Medicine" UBIOMED 1. The first international conference on physics and technology of ultrasound in applications in biology and medicine, organized in Jabłonna by Ultrasonic Department of Institute of Fundamental Technological Research, Polish Academy od Sciences [IFTR PAS] (head: prof. L. FILIPCZYŃSKI) and by Acoustics Committee PAS [3, 4]. In the following years, organization of the conference was taken over in succession by the GDR, the Czechoslovakia, Hungary and the USSR. In 1983 UBIOMED VI was again organized in Poland [5].
- b) Open Seminar on Acoustics OSA-XVII, organized in Jaszowiec by Upper-Silesian Section of Polish Acoustic Society in cooperation with Acoustics Committee [6]. Annual continuation of these in 1970–1989.
- c) Creation of Noise Control League. The first president prof. H. RYFFERT, and then T. MALINOWSKI 1979, Witold STRASZEWICZ 1983, J. MOTYLEWSKI 1987.
- d) Creation of Section of Acoustics of Molecular Interactions in Liquids, at Institute of Physics, Gdańsk University (head: prof. A. ŚLIWIŃSKI).
  - e) Environmental Laboratory of Noise and Vibration at Academy of Mining

and Metallurgy in Kraków was organized (head: Z. ENGEL). Research on vibroacoustics, i.e. vibration and acoustic processes in machines, was started.

- f) Piezomagnetics Lab. of Piezotronics Dept. at Institute of Electron Technology was transferred to Institute of Physics PAS. In 1984, in this Institute a Piezomagnetics Group of Magnetics Physics Dept. was created, headed by prof. Z. KACZKOWSKI.
- g) Coordination Centre for Construction Acoustics, at the Council for Mutal Economic Aid, was organized with headquaarters in Bucharest. Prof. J. Sadowski was elected the first president of the Scientific Technological Board. Members of the board were prof. S. Czarnecki and prof. Z. Engel, as well [56].

h) 2-nd International Conference on Noise Control organized in Warsaw by prof. S. Czarnecki [10]. Subsequent conferences were organized in 1973 and 1975 [58, 60].

## 31 sollando A la sovidar A la bedaldag a 1971 by I

- a) Creation of Phoniatrics Lab. in the State College of Music in Warsaw (head: doc. dr med. Z. PAWŁOWSKI), transformed in 1974 into Dept. of Voice Pathophysiology and in 1980 into Phoniatrics Dept. The college was renamed to F. Chopin Academy of Music.
- b) Intensification of research on semiconductor acoustics and solid state acoustooptics at Institute of Physics of Silesian Technical University (head: doc. A. Opilski), Department of Molecular Liquid Acoustics (head: doc. F. Kuczera; mgr E. Soczkiewicz co-worker), Quantum Acoustics (head: doc. A. Opilski) and Solid State Acoustics (head: doc. Z. Kleszczewski) were created.
- c) "Acoustics. Passive and Active Ultrasound Applications" Start of the first, 5-year research program PAN-20, worked out by Acoustics Committee and coordinated by IFTR PAS, prof. J. KACPROWSKI.

## 1972 no ant to not since to know enisonal

- a) The first Winter School "Molecular and Quantum Acoustics and Sonochemistry" organized in Zakopane by Institute of Physics, Silesian Technical University (head: prof. A. Opilski) and PTA. The conferences are held annually in Jaszowiec or Wisła [7]. Since 1979, annals, containing materials of the conferences, have been published by IFTR PAS [59].
- b) Local circle Acoustics and Spectroscopy Lab. at Gdańsk University was created (head: dr J. Sułocki).
- c) Publication of bibliographical index of papers on acoustics by Polish authors, for 1966-1971. The previous index convered years 1945-1965 [8].

d) The first, one-year, post-graduate course "Design of Noise Protection in Construction" organized in Institute of Construction Technology for employers of Design Bureau, Architecture Depts., Construction Supervision etc. (Head: prof. J. Sadowski). Subsequent courses took place in 1973, 1974 [9].

## o stoigens robbit 1881 bas 2801 1881 1973 21 m blod over sconerologo trisposedu?

a) The 2nd Congress of Polish Science. A synthethic report "Current condition and perspectives of development of scientific research on acoustics in Poland since 1985" prepared, based on 18 partial reports submitted by the acousticians community in Poland. The report includes Polish acoustic research centres, scope of their research and staff [10].

b) Start of publication of an English language quarterly "Archives of Acoustics". Chief editor: prof. S. Czarnecki, then prof. I. Malecki: 1983–1987 and doc.

E. DANICKI: 1987.

c) The first Winter School "Noise and Vibroacoustic Hazard Control" organized in Jaszowiec by Institute of Physics, Silesian Technical University (head: prof. A. Opilski) and Upper-Silesian Branch of PTA. The school is annual.

d) Creation of Local Research Laboratory of Noise and Vibration head: doc.

d) Creation of Local Research Laboratory of Noise and Vibration head: doc. J. ZALEWSKI at Institute of Telecommunication and Acoustics Wrocław Technical University.

## hobicard chiene William The assertion from the manner strongs of Post Car Car (18 136)

- a) Creation of Institute of Mechanics and Vibroacoustics at Academy of Mining and Metallurgy in Kraków (head: prof. Z. Engel, team: doc. J. Adamczyk, doc. S. Bednacz, prof. J. Giergiel, doc. dr S. Kasprzyk, prof. K. Tomaszewski, prof. M. Zabawa. In 1976 specialization in Machine Vibro-acoustics was started.
  - b) Prof. L. FILIPCZYŃSKI elected member of ICA for two terms till 1980 [11].
- c) Start of publication of Scientific Transactions of the Research Centre of Radio and Television. The publication ceased in mid-eighties. Transactions comprised of papers on acoustics, electronics and electric circuit theory scientific editor: prof. S. Miszczak.

# c) "Research on development of ultra-ound methods and apparatus for medical diagnostics". State Prize of the 2nd degree for the team of prof. I. Fillipoynessing di

Prof. L. FILIPCZYŃSKI elected vice-president of European Federation of Ultrasound in Medicine and Biology, for the term until 1979.

#### 1976

a) "Acoustic Methods in Technology and Medicine". Start of research programme MR-I-24 for 1976–1980, worked out by Acoustics Committee and coordinated by prof. J. Ranachowski (IFTR PAS).

b) "Noise control" conference in Warsaw organized by prof. S. CZARNECKI. Subsequent conferences were held in 1979, 1982, 1985 and 1988, under auspices of

International Control Institute and were organized by prof. Z. ENGEL.

c) Organization of Polish Symposium on Vibration, Technology and Vibroacoustics in Kraków by prof. Z. ENGEL. Subsequent Symposia took place regularly in 1979, 1982, 1984, 1987. [12, 61, 62]

d) The first conference "Applications in Electronics and Electrical Engineering" took place in Jabłonna, organized by prof. J. RANACHOWSKI [13, 14, 15]. Subsequent conferences were hwld annually. In 1980 the conference was called "Electric and Acoustic Methods of Inspection of Materials, Biological Structures and Mechanical Systems" [16, 17, 18].

The conferences are also a meeting-place for Polish acousticians and permit overview of annual achievements of CPBP 02.03 research programme "Acoustics in Technology, Medicine and Culture" [19].

e) "Environment protection against noise in Poland". Report prepared by Institute of Construction Technology and Institute of Environment Formation head: prof. J. Sadowski for European Committee [20, 21,22].

#### 1978

- a) FASE 78. The second International Congress of FASE in Warsaw (president prof. S. Czarnecki), organized by IFTR PAS under auspices of Acoustic Committee PAS and Polish Acoustical Society (PTA). The Congress was opened by a report by prof. I. Malecki on quantum acoustics. During the congress, a meeting of FASE Council was held. Prof. F. François (France) was elected new president, prof. Malecki (Poland) new vice-president and prof. F. Kolmer (Tchechoslovakia) chancellor, all of them for the term 1979–1982 [23, 24].
- b) The first Polish-French "Ultrasound colloque" organized in Paris by Ecole Pratique des Hautes Etudes, Groupement des Acousticiens de Langue Française and Polish Academy of Sciences [25, 26]. Subsequent colloques took place in Jablonna and Paris, alternatively 1982, 1984, 1987, 1989 and were organized in cooperation with Acoustics Committee PAS and PTA [27, 28]. For the French part, the colloque was organized by prof. L. PIMONOV.
- c) "Research on development of ultrasound methods and apparatus for medical diagnostics". State Prize of the 2nd degree for the team of prof. L. FILIPCZYŃSKI, dr J. ETIENNE, dr J. KOPEĆ, dr G. ŁYPACEWICZ, dr A. NOWICKI, dr T. POWAŁOWSKI.
- d) Musical Acoustics Laboratory of State Colege of Music in Gdańsk later: St. Moniuszko Academy of Music, Dept. of Composition and Music Theory was

transformed into Section of Musical Acoustics, headed by doc. G. BUDZYŃSKI. The section organized courses on: Fundamentals of Acoustics and Electroacoustics, Technology of Experimental Music. Since 1981 the section has been headed by dr J.

## 1080 c) Development of methods and systems for speech analysis and foogst

The first Spring School "Acoustooptics and Applications" with foreign participants, organized by Institute of Experimental Physics, Gdańsk University head: prof. A. ŚLIWIŃSKI in cooperation with PTA and IFTR PAS. Subsequent schools were held in 1983, 1986, 1989 [29-35].

"Acoustics in Technology and Medicine". Start of research MR-I-24 worked ot by Acoustics Committee and coordinated by prof. J. RANACHOWSKI, IFTR PAS.
b) Prof. A. ŚLIWIŃSKI elected a member of ICA, for two terms until 1987.

c) Prof. Z. JAGODZIŃSKI elected the president of Polish Acoustics Society. He held the position until 1987. [1]

## Report of Approach and the Control of the Control of Approach and Appr

- a) Jubilee of 70th anniversary of prof. I. MALECKI, nestor of Polish acoustics [36, 377.
  - b) Prof. I. MALECKI elected honorary member of FASE.
- c) Institute, and since 1986 Research Centre of Health and Work Environment Protection in Mining, was created, headed by doc. A. LIPOWCZAN. The institute consisted of two departments. Research in Health Protection Dept. included vibration decrease diagnostics. In Dept. of Technical Acoustics, design of apparatus for vibroacoustic diagnostics of mining machinery, in particular: design of vibration transducers and corresponding instrumentation, was started.
- d) "Psychoacoustics of Music". International Summer School organized in Jabłonna by Acoustic Committee PAS and F. Chopin Academy of Music in Warsaw head: prof. A. RAKOWSKI.

## b) Research programme CPBP 0.4891 Acoustics in Technology, Medicine and

a) "Noise and Vibration Hazard in Poland". An expertise prepared by a team of Acoustics Committee PAS, lead by prof. Z. ENGEL. The expertise was a matter of dispute at the State Council for Environment Protection and met some response in plans of environment protection [38].

b) "Hydroacoustics". The first symposium organized in Jastrzębia Góra by the Naval Military Academy, Hydroacoustics Dept. of Gdańsk Technical University and Polish Acoustical Society PTA. Subsequent symposia are organized annually at the coast [39–41].

c) "Development of methods and systems for speech analysis and recognition". State Prize of the second degree for the team: prof. W. Jassem, prof. J. Kacprowski, doc. P. Łobacz, doc. dr med. W. Tłuchowski, dr R. Gubrynowicz, dr H. Kubzdela, mgr W. Mikiel for 1971–1982 [42].

#### 1985

- a) "First Symposium on Sound Engineering" organized by doc. M. Sankiewicz of Dept. of Sound Engineering, Institute of Telecommunications, Gdańsk Technical University (head: doc. G. Budzyński) [43]. Subsequent symposia were held biannually: 1987 in Warsaw organized by Dept. of Sound Direction (head: doc. H. Ciołkosz and Dept. of Musical Acoustics (head: prof. A. Rakowski, F. Chopin Academy of Music [44]). 1989 in Kraków organized by Institute of Mechanics and Vibroacoustics, Academy of Mining and Metallurgy and Acoustics Committee PAS; organizer: J. Adamczyk [45].
- b) Department of Acoustics, A. Mickiewicz University, Poznań, transformed into Institute of Acoustics (headed: doc. E. Ozimek).
- c) Change of organization structure of Institute of Telecommunications and Acoustics, Wrocław Technical University (head: prof. W. Majewski and Dept. of Acoustics (head: doc. J. Renowski) were created; Local Noise and Vibration Research Laboratory (head: doc. J. Zalewski) continued its former research.

#### 1986

- a) Third Congress of Polish Science. Papers prepared, published in "Archiwum Akustyki" summarize an almost two-year discussion about most recent problems of acoustics development and specify forecast for Polish acoustics up to 2000 [46]. The declaration and Resolution of the Congress considering preferences in acoustics development and a list of Polish research plants doing in acoustics, their staff and programmes of research were published in "Archiwum Akustyki" as well [47].

  b) Research programme CPBP 02.03 "Acoustics in Technology, Medicine and
- b) Research programme CPBP 02.03 "Acoustics in Technology, Medicine and Culture". Its Applications in Device and Process Design, proposed for 1986–1990 by Acoustics Committee, was started, coordinated by prof. J. RANACHOWSKI (IFTR PAS).

- c) First Winter School on Acoustic Intensometry in Karpacz 88 organized by Wrocław Branch of PTA and Institute of Telecommunications and Acoustics, Wrocław Technical University (head: dr H. IZOLCZUK). The Second School took place in 1988 in Karpacz. The school is heald biannually.
- d) Signing of 3-year research cooperation agreement between PTA Polish Acoustics Society and La Societé Française d'Acoustique; default prolongation by subsequent 3-year period.
- e) End of publication of "Archiwum Akustyki". Polish quarterly started in 1966. English language edition: "Archives of Acoustics" continued since 1987 chief editor is doc. E. DANICKI.
- f) The third sub-programme "Enivironment Protection agains Noise and Vibration head: prof. J. SADOWSKI of the research programme CPBR II.4 was started.
- g) The second sub-programme "Survey, estimation and reduction of noise and vibration hazards" of the research programme CPBR 11.1 "Human protection in work environment" was started coordinator Central Institute of Work Protection. Its aim is design of machines and tools with reduced noise and vibration level and methods of noise and vibration measurement as well as valuation of relevant national standards and guidelines for designers.

#### 1987

"Prospects in Modern Acoustics Education and Development" International ICA-IUPAP Conference in Jastrzębia Góra organized by prof. A. ŚLIWIŃSKI.
b) "Acoustic Emission Method in Science and Technology". International

school organized under auspices of CISM Int. Centre of Mechanical Science in Jabłonna by prof. I. Malecki and prof. J. Ranachowski.
c) Prof. A. Śliwiński elected the president of PTA

#### 1988

- a) The first map of Poland showing noise polution in 1986 was made by the team of prof. J. SADOWSKI.
- b) "Protection Against Noise and Vibration" Report prepared by experts of Acoustics Committee PAS, Institute of Construction Technology, Institute of Environment Protection, Institute of Mechanics and Vibroacoustics, and Noise Control League for Dept. of Environment and Natural Resources Protection, as a part of natural resources programme till 2010, head of the team: prof. J. SADOWSKI.

#### 1989

First Symposium on Electroacoustics organized in February 1989 in Czerniejew near Poznań by the Institute of Acoustics of the Adam Mickiewicz. University in Poznań in cooperation with ZWG "TONSIL" in Września.

#### Supplement to the period before 1989

#### 1938

Witold Jankowski, MDr, graduate of Faculty of Medicine, Lwów University published a paper "Powikłania wewnątrzczaszkowe zapalenia ucha środkowego", Pol. Gaz. Lek., 17, 25, 519–524 (1938) [57].

#### 1946

a) After emigration from Lwów to Zabrze in 1950, doc. dr med. T. CEYPEK graduate of Faculty of Medicine, Lwów University, organized and led Otolaryngology Dept. and Clinic at Silesian Medical Academy, Zabrze.

b) Doc dr med. W. Jankowski arrived in Wrocław and organized Otolaryn-

gology Clinics.

#### 1951

Prof. B. Zapiór started research in sonochemistry at Dept. of General Chemistry Jagiellonian University, Kraków. In 1961 the team was joined by dr A. Juszkiewicz, who led the team after retirement of prof. B. Zapiór since 1978.

#### 1953

- a) Mgr Z. Kaczkowski started research on magnetostrictive materials in Magnetic Materials Laboratory, Dept. of Electronics, IFTR PAS head: prof. J. Groszkowski.
- b) Prof. T. CEYPEK commenced research in industrial audiology, and especially an injuries inmining and metallurgy, and cooperated with other Polish research centres.
- c) Prof. W. Jankowski became head of Dept. and Clinic of Otolaryngology, continued cooperation with other acoustic research centres in Poland.

#### 1956

a) W. Jassem, Ph.D., English philology, head of Phonography Dept. Poznań University, started work for IFTR PAS by organizing in Poznań Acoustic Phonetics Laboratory.

b) Mgr R. PŁOWIEC, Dept. of Vibration Research IFTR PAS, started research on problems of ultrasound measurement.

#### 1965

Prof. H. RYFFERT elected the president of PTA. She held the position till 1981 [1].

#### 1966 white the later than a property of the state of the

Institute of Electron Technology PAS was created. In 1966–1967 doc. Z. KACZKOWSKI was organizing Piezomagnetics Laboratory at Dept. of Piezoelectronics.

# References

- [1] Materiały XXXVI Otwartego Seminarium z Akustyki OSA' 89, Szczyrk-Biała 1989.
- [2] Arch. Acoustics 15 1-2 (1990).
- [3] Ultrasonics in biology and medicine, L. Filipczyński [Ed.] PWN, Warszawa 1972.
- [4] Arch. Akustyki 6, 269-272 1971.
- [5] Arch. Acoustics, 9, 4-298 (1984).
- [6] Arch. Akustyki 6, 165-169 (1971).
- [7] Arch. Akustyki, 9, 445–446 (1974); 13, 253–25 (1978); 12, 275–276 (1977); 19, 267–268 (1984).
- [8] Arch. Akustyki, 2, 3-68 (1967); 7, 3-77 (1972).
- [9] Działalność Instytutu Techniki Budowlanej w r. 1973, Warszawa 1973, s. 88
- [10] Arch. Akustyki 8, 2 (1973).
- [11] Nauka Polska 2, 83-86 1976.
- [12] Arch. Akustyki 15, 115–122 (1980); 18, 181–183 (1983); 10, 317–465 (1985)
- [13] Zastosowanie polimerów w elektrotechnice i elektronice, J. Ranachowski [Red.] Warszawa-Jabłonna, grudzień 1976 oraz grudzień 1977, IPPT PAN.
- [14] Special ceramics in electronics and electrical engineering J. Ranachowski [Red.], Jabłonna, October 1978, IPPT PAN.
- [15] Wybrane metody badań cieczy i polimerów, J. Ranachowski [Red.], Warszawa-Jabłonna, grudzień 1979, IPPT PAN.
- [16] Elektryczne i akustyczne metody badań dielektryków, J. Ranachowski [Red.], Jabłonna, grudzień 1980, IPPT PAN.
- [17] Elektryczne i akustyczne metody badań materialów. J. Ranachowski [Red.] grudzień 1981, listopad 1982 oraz grudzień 1983, IPPT PAN.
- [18] Elektryczne i akustyczne metody badań materiałów i struktur biologicznych, J. Ranachowski [Red.], Jabłonna grudzień 1984, IPPT PAN.
- [19] Akustyka w technice i medycynie. Przegląd wyników badań w problemie międzyresortowym MR I24 w latach 1981–85, J. Ranachowski [Red.] IPPT PAN, 1985.
- [20] National approaches to community noise problem. Draft Final Report on Phase One. Activities of E. C. E. Task Force on Noise. Economic Commission for Europe, Geneva, Switzerland. Task Force

- Secretariat Office of Noise Abatement and Control. U.S. Environmental Protection Agency, January 1978.
- [21] Raport about the Research State and the output of Poland in the domain of Environmental Protection against Noise. Building Research Institute ITB. Research Institute of Environmental Development (IKS) Warsaw 1976 (Praca zb. dostęp na w Bibliotece ITB).
- [22] 9-th International Congress on Noise Abatement. Proceeding National Raport. Investigation progress at shaping domain and environment protection in Poland (p. 527-529) Kozlekedesi Dokumentacios Vallalat. Budapest 1977.
- [23] Proc. of the Second Congress of the Federation of Acoustical Societes of Europe, [Edts.] L. Filipczyński, Z. Pawłowski, H. Ryffert, J. Zieniuk IPPT PAN, Warsaw 1987, vol. I, II, III.
- [24] Arch. Akustyki 14, 185-194 (1979).
- [25] Arch. Akustyki 9, 243-245 (1974).
- [26] Colloque sur les ultra-sons. M. L. Pimonow, M. R. D. Prudhome [Eds.]. École Pratique des Hautes Études -III e Section EPHE et le Centre Scientifique de l'Academie Polonaise des Sciences. Paris 1978, 1-37.
- [27] Colloque sur les ultra-sons et acoustique physique. M. L. Pimonow, M. R. D. Prudhome [Eds.], École Practique des Hautes Études -III e Section EPHE et le Centre Scientifique de l'Academie Polonaise des Sciences Paris 1982, 1-174, oraz Paris 1987, 1-320.
- [28] Colloque sur les ultra-sons, Instytut Podstawowych Problemów Techniki PAN, Ecole Practique des Hautes Études EPHE Warszawa 1980, 1–307.
- [29] Arch. Akustyki 16, 113-114 (1981); Ultrasonics 19, 44-45 (1981).
- [30] Proc. First Spring School on Acustooptics and Applications, Uniwersytet Gdański 1980. A. Śliwiński [Red.].
- [31] Proc. Second Spring School on Acoustooptics and Applications, Uniwersytet Gdański 1983
- [32] Arch. Acoustics 9, 381 (1984); Ultrasonics, 22, 45-46 (1984)
- [33] Proc. Third Spring School on Acoustooptics and Applications, Uniwersytet Gdański 1986.
- [34] Arch. Acoustics 11, 413 (1986); J. Acoust. Soc. Am. 80, 1548 (1986); Ultrasonics 25, 183 (1987).
- [35] 4-th Spring School on Acoustooptics and Applications, A. Śliwiński, P. Kwiek, A. Markiewicz [Eds.] World Scientific Singapore, New Yersey 1989.
- [36] Nauka Polska 1-2, 107-110 (1983).
- [37] Problemy i metody współczesnej akustyki, J. Ranachowski [Red.], PWN, Warszawa 1989, 7-23.
- [38] Raport "Zagrożenia halasem i wibracjami w Polsce. Rękopis opracowany pod kier. prof. Z. Engla dostępny w bibliotece IPPT PAN, Arch. Acoustics 10, 199–210 (1985); Arch. Akustyki 20, 90–109 (1985).
- [39] Materialy z I, II, III, IV Sympozjum z Hydroakustyki. Wyższa Szkoła Marynarki Wojennej. Gdynia 1984, 1985, 1986, 1987.
- [40] Materialy z Vi VI Sympozjum z Hydroakustyki. Akademia Marynarki Wojennej, Gdynia 1988, 1989.
- [41] Arch. Akustyki 21, 153-154 (1986; 22, 290 (1987).
- [42] Arch. Akustyki 19, 1-2 (1984).
- [43] I-e Sympozjum Inżynierii Dźwięku, Gdańsk 1985, M. Sankiewicz [Red.]. 1986. Arch. Akustyki 22, 154–155 (1987).
- [44] Sympozjum Reżyserii Dźwięku, Warszawa 1987. Zbiór tekstów referatów i materiałów, 23–25 kwietnia 1987 Akademia Muzyczna im. F. Chopina, Warszawa, Okólnik 2.
- [45] Inżynieria i reżyseria dźwięku. J. Adamczyk [Red.]. AGH Kraków 1989
- [46] Arch. Akustyki 20, 329-334 (1985).
- [47] Arch. Akustyki 21, 3 (1986).
- [48] Prace I Szkoły Naukowej Intensometrii Akustycznej, Instytut Telekomunikacji i Akustyki, Politechnika Wrocławska 1987.
- [49] Prace II Szkoły Naukowej Intensometrii Akustycznej, Karpacz 6-9 czerwca 1988. Prace Naukowe II A Pol. Wrocławskiej Nr 65, Seria: Konferencji, nr 21
- [50] Prospects in modern acoustics education and development, A. Śliwiński, G. K. E. Budzyński [Eds.], World Scientific Singapore, New Jersey 1987.

- [51] Acoustica 66, 117 (1988); 68, 76 (1989); Akusticzeskij Żurnał 5, 954 (1988); Ultrasonics 26, 47 (1988).
- [52] Arch. Acoustics, 15, 1-2 (1990).
- [53] J. SADOWSKI, Noise protection of environment by means of town-planning solution, 13th International Congress on Acoustics, vol. 1. Invited lectures, Belgrad 1989, 107-118.
- [54] J. SADOWSKI, Z. ENGEL, R. KUCHARSKI, B. LIPOWCZAN, B. SZUDROWICZ, Narodowy program ochrony środowiska i zasobów naturalnych do 2010 r. Raport 7 nt. Ochrony środowiska przed halasem i wibracjami. Instytut Techniki Budowlanej, Warszawa 1987/88.
- [55] J. SADOWSKI, NPOS i ZN do 2010. Ochrona przed halasem i wibracjami. Synteza 7. Instytut Ochrony Środowiska, Warszawa 1988.
- [56] B. SZUDROWICZ, J. ŻUCHOWICZ-WODNIKOWSKA, Prace Centrum Koordynacyjnego RWPG do Spraw Akustyki Budowlanej. Omówienie prac zrealizowanych w latach 1980–85 i plan pracy na lata 1986–91. Instytut Techniki Budowlanej, Warszawa 1987.
- [75] S. IWANKIEWICZ. Prof. dr hab. Wiktor Jankowski, Akademia Medyczna Wrocław 1975.
- [58] Arch. Akustyki 9, 365-369 (1974); 10, 440-441 (1975); 12, 187-193 (1977).
- [59] VII Zimowa Szkola Akustyki Molekularnej, Kwantowej i Sonochemii, Ustroń 1978, Akustyka Molekularna i Kwantowa t. I, Warszawa 1979; t. II Warszawa 1981; t. III Warszawa 1982; t. IV Warszawa 1983; t. V Warszawa 1984; t. VI Warszawa 1985; t. VII: Warszawa 1986; t. VIII Warszawa 1987; t. IX Warszawa 1988; t. X Warszawa 1989.
- [60] Arch. Akustyki 17, 209-210 (1982).
- [61] Proc. Noise Control, [Ed.] Z. Engel Kraków 1982; vol. I, II, 1985, vol. I, II, 1988.
- [62] Sympozja Techniki Wibracyjnej, Wyd. AGH Kraków, Wibroakustyka 3/4, 1979; Zeszyty Naukowe 1/2, 1979, 1982, 1984, 1987.
- [63] Materialy XXXVII Otwartego Seminarium z Akustyki SA '90, Gdańsk 1990, 9-23.