



The Golden Jubilee of the 50th

WINTER SCHOOL ON WAVE AND QUANTUM ACOUSTICS
1971 – 2022

- historical reminiscences

Tadeusz Pustelny

Each jubilee is an occasion for memories, summaries and sentiments.

Among the anniversaries the 50th Jubilee - the Golden Jubilee is always a very important event.

We – Members of Polish Acoustical Society have the opportunity to celebrate in 2022 year the Golden Jubilee of our conference Winter School on Wave and Quantum Acoustics.

In my elaboration, I would like to present the history of this Golden Jubilee of Winter School on Wave and Quantum Acoustics by the people who created the history of This Conference. In every story, people are always the most important elements.

I would like to pay tribute to people - the people of this excellent Golden Jubilee.

Cards from the History of Polish Acoustics

The post-2nd war period was a time of great development of Polish Acoustics

- **1945r.** – prof. Marek Kwiek started his activity at Adam Mickiewicz University UAM in Poznań
- 1952r. - establishment of the Formal Group of Acoustics in UAM
- **1956r.** – establishment of the Department of Acoustics and Vibration Theory at AMU.



Prof. Marek Kwiek (1912-1962)



University of Adam Mickiewicz in Poznań



From the History of Polish Acoustics

A few dates from the history of Polish Acoustics

- **1953r.** - the first **Open Seminar on Acoustics OSA** - Organized by prof. Marek Kwiek (attended about 20 people); participated, among others: Professors: Karaśkiewicz, prof. Ignacy Malecki, Antoni Śliwiński, Halina Ryffert, Franciszek Kuczera, ...

- **1961r.** - decision concerning creation of the **Polish Acoustic Society PTA**;

- **1962r.** - **prof. Marek Kwiek died** in an air crash near Babia Góra;

- **1963r.** - the Polish Acoustic Society was established;

(OSA has been operating for 10 years);

- **1964r.**- **the Acoustic Committee** was established in the Polish Academy of Sciences;

- **1972r.** PTA is a founding member of the **European Acoustics Association EAA**;



Historically about Acoustics in Upper Silesia

Prof. Franciszek Kuczera (1912-1989) - initiator of acoustics in Silesia

In **1959**, F. Kuczera received his doctorate (under Prof. M. Kwiek at UAM)
and in **1963** he obtained his habilitation in UAM

In **1964** doc. Kuczera came from Olsztyn to Gliwice becoming the organizer of the scientific acoustic life at the Silesian University of Technology.



Prof. Franciszek Kuczera, first from the right (next to Prof. M. Kwiek))

History of the Winter School on Molecular, Quantum Acoustics and Sonochemistry

- Acoustic conference in Zakopane **in 1971** - on the initiative of doc. Antoni Śliwiński as well doc. Franciszek Kuczera and acoustics from Upper Silesia, it was decided to organize one more cyclical acoustic conference;
- **New Conference** resulted from the awareness that training and education in the field of physical acoustics, including molecular and quantum acoustics, are necessary.
- New Conference - as a response of the acoustic environment to the need for intensive scientific contacts.
(at that time, the annual Open Seminary on Acoustics was organized for about 20 years);
- New Conference was an initiative of physicists from: the Silesian University of Technology SUT and the Upper Silesian Division of the PTA and groups from the University of Gdańsk and the University of Poznań
- Conference will be organized annually **by the Upper Silesian Division** of the PTA in the winter.
- **Initiators and organizers** of the Conference **from the SUT: doc. Franciszek Kuczera** but also doc. Aleksander Opilski, dr Stanisław Szyma and others...
- Conference location: **Beskid Mountains**; time - **winter**; cycle - annually;
- **Conference topics**: Physical Acoustics, Quantum Acoustics, Acoustics of Liquids as well Sonochemistry;
- The name of the new Conference - **Colloquium on Molecular, Quantum Acoustics and Sonochemistry**.

History of the Winter School on Molecular, Quantum Acoustics and Sonochemistry

The initiators of the organization of the new acoustic winter Conference during the conference in Zakopane in 1971. were, among others:

Doc. dr hab. Antoni Śliwiński

Doc. dr hab. Franciszek Kuczera

Prof. dr hab. Marian Puchalik

Dr Aleksander Opilski

Dr Stanisław Szyma

Dr Czesław Lewa

Mgr Bogumił Linde

Mgr Marek Kosmol

Mgr Iwona Wojciechowska

Mgr Mikołaj Łabowski

Mgr Eugeniusz Soczkiewicz

Prof. Jerzy. Wehr

Dr Ryszard Płowiec

Dr Adam Juskiewicz

Historically about Acoustics in Upper Silesia

In the Silesian University of Technology and generally in Upper Silesia, physical acoustics was developed under leadership of **doc. Franciszek Kuczera** and next doc. Aleksander Opilski;



Doc. Franciszek Kuczera
1912 - 1989



prof. Aleksander Opilski
1931 - 2012

Doc. Aleksander Opilski in the period 1968-1969 was the organizer of the Faculty of Mathematics and Physics at the Silesian University of Technology SUT. In **1969**, doc A. Opilski became its first Dean of the new Faculty, and from October **1971** he became the Director of the newly established **Institute of Physics** of this Faculty.

The creators of acoustics in SUT were also: dr Stanisław Szyma, dr Kazimierz Wozniczak, dr Joachim Gmyrek, dr Michał Kobyłański, dr Zenon Cerowski and later - profesor Zygmunt Kleszczewski,...

History of the Winter School on Molecular, Quantum Acoustics and Sonochemistry

Second Colloquium on Molecular, Quantum Acoustics and Sonochemistry - it was held on February 6-12, 1972 at DW Relaks, Ustroń-Jaszowiec

- **Organizing Committee** : doc. Aleksander Opilski, dr Stanisław Szyma, dr Joachim Gmyrek, dr Kazimierz Woźniczak, dr Michał Kobylański;

- **Scientific Committee** :

- Chairman: prof. Ignacy Malecki,
- Members: prof. A. Śliwiński, prof. J. Ranachowski, doc. A. Opilski;

DW Relaks, Ustroń-Jaszowiec



History of the Winter School on Molecular, Quantum Acoustics and Sonochemistry

Places for the next WSWQA

- I. 1971 DW Kolejarz, Zakopane
- II. 1972 – DW Relaks, Ustroń-Jaszowiec
- III. 1973 – DW Halny, Wisła
- IV. 1974 - DW Barbara, Ustroń Jaszowiec
- V. 1975 – DW Halny, Wisła
- VI. 1976 – the Conferece was not organized
- VII. 1977 – DW Ondraszek, Jaszowiec
- VIII. 1978 – DW Gwarek, Ustroń
- IX. 1979 – DW Ondraszek, Jaszowiec
- X. 1980 – DW Tresna
- XI. 1981 – DW Barbara, Jaszowiec
- XII. 1982 – The conference did not take place - Martial Law in Poland

All the Conferences, except one, were held in Silesian Beskid in: Ustroń-Zawodzie, Wisła, and Szczyrk; The XXXVII conference in 2009 was held in Korbielów, in Beskid Żywiecki ;

Since 2010 (from XXXVIII WSWQA) Conferences have been held in Szczyrk, at the META Hotel.



DW Barbara, Ustroń-Jaszowiec



DW Ondraszek, Ustroń-Jaszowiec



History of the WSWQA

History of the Conference names:

1. **1971** – first **Kolokwium z Akustyki Molekularnej, Kwantowej i Sonochemii** (in polish);
2. **1977** – the name was changed to **Szkoła Zimowa Akustyki Molekularnej i Kwantowej** (SZ AMK); in english **Winter School on Molecular and Quantum Acoustics** (WS on MQA);
3. **1996** – the first time, as part of the **WS on MQA** was organized: **Workshop on Photoacoustics and Photothermics** (W on Pa&Pt);
4. **2003** – W on Pa&Pt name changed to **Winter Workshop on Photoacoustics and Thermal Wave Methods** (WW on Pa&TWM);
5. **2005** – (WS on MQA) changed name to **Winter School on Wave and Quantum Acoustics** (WS on WQA); only in English version;
6. **2006** – in structure of WS on WQA was created: **Winter Workshop on Molecular and Quantum Acoustics** (WW on MQA) and **Winter Workshop on Acoustoelectronics and Optoelectronics** (WW on Ae&Oe);
7. **2008** – WW on MQA changed a name to **Winter Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods** (WW on MAR&CM);
8. **2009** – due to co-organization of 4th Integrated Optics Conference, the name WW on Ae & Oe was changed to **Winter Workshop on Acoustoelectronics**;
9. **2015** – The last 20th WW on Pa & TWM took place;
10. **2021** – The WSWQA did not take place due to the COVID-19 pandemic

Scientific acoustic areas of the Winter School on Wave and Quantum Acoustics Conference

- I. Molecular Acoustics
- II. Acoustic Methods of Solid State Investigations
- III. Surface Acoustic Waves
- IV. Acoustical Emission
- V. Photoacoustic and Photothermal Spectroscopy
- VI. Ultrasound
- VII. Quantum Acoustics
- VIII. Musical Acoustics
- IX. Acoustooptics
- X. Hydroacoustics
- XI. Environmental Acoustics

Scientific acoustic areas of the Winter School on Wave and Quantum Acoustics

Molecular Acoustics :

Institute of Physics at the SUT

Franciszek Kuczera;
Aleksander Opilski,
Eugeniusz Soczkiewicz;
Stanisław Szyma;
Kazimierz Woźniczak
Joachim Gmyrek;
Jerzy Krzak;



Doc Franciszek Kuczera



prof. Eugeniusz Soczkiewicz



Dr Joachim Gmyrek

Scientific acoustic areas of the WSWQA

Molecular Acoustics:

Institute of Acoustics at UAM in Poznan

Antoni Śliwiński

Czesław Lewa

Bogumił Linde

Mikołaj Łabowski

Tomasz Hornowski

Arkadiusz Jóźefczak

Piotr Miecznik

Andrzej Skumiel

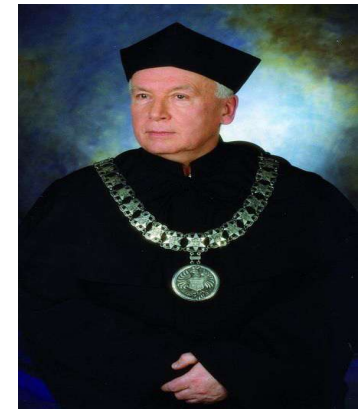
Faculty of Chemistry at the Jagiellonian Universities

Adam Juskiewicz

Andrzej Grzegorzczak



Prof. Mikołaj Łabowski



Prof. Adam Juskiewicz

Scientific acoustic areas of the WSWQA

Molecular Acoustics

Faculty of Chemistry at University of Silesia

Stefan Ernst

Marzena Dzida;

Wiesław Szachnowski;

Edward Zorębski;

Michał Zorębski;

Andrzej Żak;



Prof. Stefan Ernst



Prof. Marzena Dzida

Institute of Fundamental Technological Research of Polish Academy of Sciences

Zbigniew Płowiec;

Jerzy Ranachowski;

Przemysław Ranachowski;

Jadwiga Rzeszotarska;

Feliks Rejmont;

Mikołaj Aleksiejuk;

Andrzej Balcerzak;



Ryszard Płowiec



Jerzy Ranachowski

Scientific acoustic areas of the WSWQA

Acoustic Methods of Solid States Investigations

Acoustic and Acoustoelectronic Methods of Semiconductor Research

Institute of Physics at the SUT

Aleksander Opilski;
Tadeusz Pustelny;
Lidia Opilska;
Marian Urbańczyk;
Zenon Cerowski;
Zdzisław Kubik;
Zdzisław Jakubczyk;



Prof. Aleksander Opilski



Tadeusz Pustelny

Scientific acoustic areas of the WSWQA

Acoustic Methods of Solid States Investigations

Piezoceramics Investigation

Faculty of Materials Science at the Silesian University

Zygmunt Surowiak;

Jan Ilczuk;

Julian Dudek;

Dariusz Bochenek;

Radosław Zachariasz;

Dzionizy Czekaj;

Magnetics research

Institute of Physics of the PAS

Zbigniew Kaczkowski;



Prof. Zygmunt Surowiak

Scientific acoustic areas of the WSWQA

Surface Acoustic Waves

Institute of Physics at the SUT

Marian Urbańczyk

Tadeusz Pustelny

Wiesław Jakubik;

Aleksander Opilski

Tomasz Hejczyk;

Zbigniew Opilski

Erwin Maciak

Maciej Setkiewicz

Wojciech Wajda



Prof. Marian Urbańczyk



Prof. Wiesław Jakubik



Wincenty Pajewski



Wojciech Wajda

Institute of Fundamental Technological Research of PAS

Wincenty Pajewski

Scientific acoustic areas of the WSWQA

Surface Acoustic Waves

Military Academy of Technology WAT

Mieczysław Szustakowski

Adam Kawalec

Eugeniusz Danicki

Jerzy Kapelewski

Idzi Merta

Mateusz Pasternak

Krzysztof Jasek

Jerzy Filipiak



Prof. Jerzy Kapelewski



Prof. Eugeniusz Danicki

Tele- i Radiotechnic Institute Warsaw,

Andrzej Milewski

Mikołaj Baszun



Prof. Andrzej Milewski

Warsaw University of Technology

Jerzy Latuszek;

Elżbieta Kotlicka

Jerzy Jodko-Narkiewicz



Prof. Adam Kawalec

Scientific acoustic areas of the WSWQA

Acoustical Emission

Optoelectronic Department at the SUT

Franciszek Witos;
Zbigniew Opilski;
Aneta Olszewska;
Marian Urbańczyk;
Grzegorz Szerszeń;
Maciej Setkiewicz;

Opole University of Technology

Tomasz Boczar;
Dariusz Zmarzły;
Sebastian Borucki;
Andrzej Cichoń;
Marcin Lorenc;
Jerzy Skubis;



Prof. Franciszek Witos with a research group



Prof. Franciszek Witos



Dr. Aneta Olszewska



Prof. Tomasz Boczar

Scientific acoustic areas of the WSWQA

Acoustical Emission

Institute of Fundamental Technological Research of the PAS

Jerzy Ranachowski;
Zbigniew Ranachowski;
Felix Rejmont;
Szymon Pilecki;



Prof. Zbigniew Ranachowski



Prof. Jerzy Ranachowski

Scientific acoustic areas of the WSWQA

Photoacoustic and Photothermal Spectroscopy

Institute of Physics at the SUT

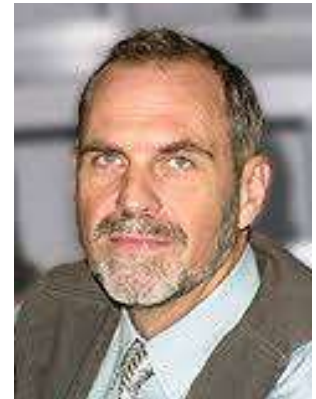
Jerzy Bodzenta;
Roman Bukowski;
Zygmunt Kleszczewski;
Anna Kazimierczak-Bałata;
Alina Domanowska;
Dorota Korte;
Barbara Pustelny;
Tomasz Błachowicz;
Marek Błahut;



Prof. Jerzy Bodzenta;



Prof. Zygmunt Kleszczewski



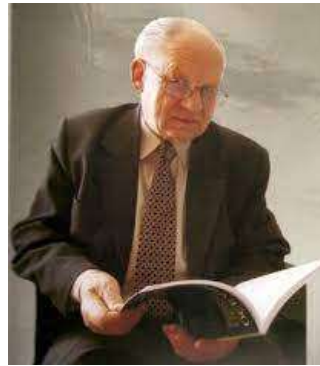
Dr Roman Bukowski

Scientific acoustic areas of the WSWQA

Photoacoustic and Photothermal Spectroscopy

Institute of Physics at the GU

Antoni Śliwiński
Bogumił Linde;
Czesław Lewa;
Piotr Kwiek;
Anna Lewandowska;
Janusz Szurkowski;



Prof. Antoni Śliwiński



Prof. Czesław Lewa16



Prof. Bogumił Linde

Koszalin University of Technology

Mirosław Maliński;
Leszek Bychto;
Zbigniew Suszyński;

Poznan University of Technology

Danuta Frąckowiak;
Danuta Wróbel;



Prof. Mirosław Maliński

Scientific acoustic areas of the WSWQA

Photoacoustic and Photothermal Spectroscopy

Toruń University

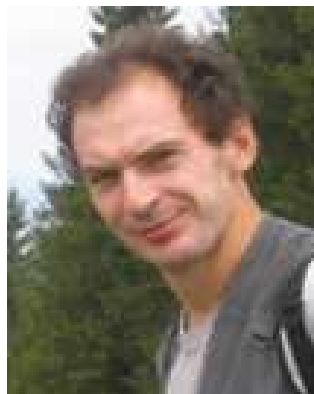
Hanna Mączyńska;
Janusz Zakrzewski;



Prof. Janusz Zakrzewski

Institute of Fundamental Technological Research of the PAS

Przemysław Ranachowski;
Jadwiga Rzeszotarska;



Prof. Przemysław Ranachowski

Scientific acoustic areas of the WSWQA

Acoustooptics

Gdansk University

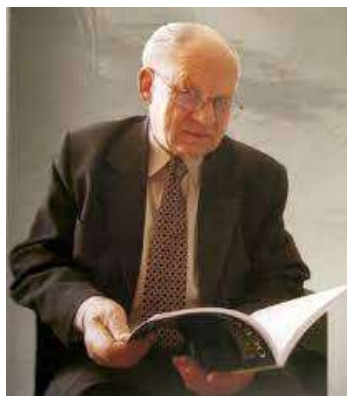
Antoni Śliwiński;

Piotr Kwiek;

Anna Markiewicz;

Anna Sikorska;

Piotr Czyż;



Prof. Antoni Śliwiński



Prof. Piotr Kwiek ze Współpracownikami

Military Academy of Technology

Mieczysław Szustakowski;

Leszek Jaroszewicz;

Idzi Merta;

Leon Jadłowski;



Prof. Mieczysław Szustakowski



Prof. Leszek Jaroszewicz

Scientific acoustic areas of the WSWQA

Acoustooptics

Silesian University of Technology

Roman Bukowski;
Zygmunt Kleszczewski;
Jerzy Bodzenta;
Marek Błahut;
Alina Domanowska;
Barbara Pustelny;



Dr Roman Bukowski;

Scientific acoustic areas of the WSWQA

Quantum Acoustics

Institute of Fundamental Technological Research of the PAS

Ignacy Malecki;
Mikołaj Aleksiejuk;
Michał Dobrzański;
Jerzy Ranachowski;



Prof. Ignacy Malecki

Institute of Physics at the SUT

Aleksander Opilski;
Tadeusz Pustelny;
Zygmunt Kleszczewski;
Roman Bukowski;
Zenon Cerowski;

Theoretical Acoustics:

AGH and Rzeszow University

Anna Snakowska;



Prof. Anna Snakowska

Scientific acoustic areas of the WSWQA

Medical Acoustics

Institute of Fundamental Technological Research of the PAS

1. Andrzej Nowicki;
2. Leszek Filipczyński;
3. Grażyna Łypacewicz;
4. Zbigniew Trawiński;



Prof. Leszek Filipczyński



Prof. Andrzej Nowicki

Faculty of Electronics at the Wrocław University of Technology

1. Tadeusz Gudra;
2. Krzysztof Opieliński;



prof. Tadeusz Gudra;



Prof. Krzysztof Opieliński

Scientific acoustic areas of the WSWQA

Medical Acoustics

Department of Optoelectronics at the SUT

Tadeusz Pustelny;
Zbigniew Opilski;
Grzegorz Konieczny;
Maciej Gawlikowski;



Prof. Zbigniew Opilski

Faculty of Cybernetics at the MAT

Krzysztof Murawski;
Wojciech Sulej;
Tomasz Malinowski;

Bioengineering Faculty at the SUT

Maciej Gawlikowski;



Dr Maciej Gawlikowski



Prof. Krzysztof Murawski

Scientific acoustic areas of the WSWQA

Hydroacoustics

Eugeniusz Kozaczka;
Grażyna Grelowska;
Zenon Jagodziński;
Roman Salamon;



Prof. Eugeniusz Kozaczka



Prof. Zenon Jagodziński



Prof. Grażyna Grelowska

Scientific acoustic areas of the WSWQA

Environmental Acoustics

University of Science and Technology AGH

Zbigniew Engel;

Jerzy Wiciak;

Wojciech Batko;

Marek Iwaniec;

Tadeusz Kamisiński;

Zbigniew Damijan;

Janusz Piechowicz;

Central Mining Institute GIG

Adam Lipowczan;

Janusz Kompała;

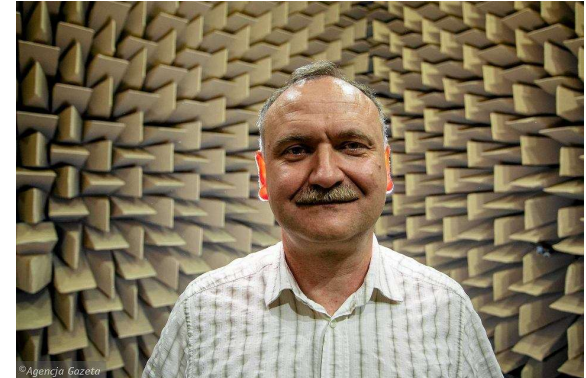
Zygmunt Niczyporuk;

Wojciech Mrukwa;

Krzysztof Staniek;



Prof. Zbigniew Engel



Prof. Jerzy Wiciak¹⁶



Prof. Adam Lipowczan



Prof. Janusz Kompała

Scientific acoustic areas of the WSWQA

Environment Acoustics

Central Institute of Labor Protection, the Noise Protection League

Wiktor Zawieska;
Zbigniew Engel
Jerzy Maciejczyk;
Dariusz Pleban;
Maryla Mirowska;
Andrzej Motylewski;



Prof. Dariusz Pleban



Prof. Wiktor Zawieska

Silsonian University of Technology

Mieczysław Roczniak;
Roman Bukowski;
Dariusz Bismor;
Marek Pawełczyk;
Bogusław Nosowicz;
Ryszard Hantkow;



Dr Mieczysław Roczniak



Prof. Dariusz Bismor

Scientific acoustic areas of the WSWQA

Ultrasound

Electronic Faculty at Wroclaw University of Technology

1. Andrzej Dobrucki;
2. Tadeusz Gudra;
3. Krzysztof Opieliński;
4. Maria Rabiega;
5. Barbara Rudno-Rudzińska;
6. Krzysztof Rudno-Rudziński;



Prof. Andrzej Dobrucki



Prof. Tadeusz Gudra

Institute of Fundamental Technological Research of the PAS

Andrzej Motylewski;
Elżbieta Kotlicka;
Jerzy Latuszek;
Jerzy Jodko-Narkiewicz;

Scientific acoustic areas of the WSWQA

Ultrasound

Institute of Physics at SUT

Wiesław Kasprzyk;
Adam Szpakowski;
Joachim Gmyrek;
Tadeusz Pustelny;
Marian Urbańczyk;
Maciej Setkiewicz;
Ryszard Hnadców;
Mieczysław Roczniak;



Dr Wiesław Kasprzyk



Maciej Setkiewicz

Institute of Physics at the GU

Antoni Sliwinski;
Bogumil Linde;

The International Nature of the Winter School on Wave and Quantum Acoustics Conference

**Outstanding acousticians from abroad have participated in WSWQA's 50-year history.
They participated in WSWQA, among others:**

R. Chivers	(UK)
P. Chivers	(UK)
R. Millner	(Germany)
I. Lezniev	(Russia)
V. Voloshimov	(Russia)
N. Polikarpova	(Russia)
V. Balakshy	(Russia)
V.N. Parygin	(Russia)
V. Nozdriev	(Russia)
A. Rogalski	(France)
J. Blauert	(Germany)
S.V. Egerev	(Russia)
R. Mylylla	(Finland)
V. Petrov	(Russia)
A. Heintz	(Germany)
M. Vorfolomeev	(Russia)
o. Poddubsky	(Belarus)
A. Ochendusko	(Ireland)



Prof. R. Chivers



Prof. J. Blauer



Prof. V.N. Parygin



Prof. V. Voloshimov



Prof. R. Mylylla



Prof. V. Balakshy

The International Nature of the Winter School on Wave and Quantum Acoustics Conference

V. Proklov	(Russia)
P. Kopcansky	(Slovakia)
M. Timko	(Slovakia)
L. Findeisen	(UK)
U. Kaatze	(Germany)
E. Rosenfeld	(Germany)
V. Alminderov	(Russia)
D. Ciplys	(Lithania)
E. Vanderveert	(the Nederland)
A. Christ	(Germany)
D. Ruser	(Germany)
J. Jakubczyk	(Canada)
J. Le Bihan	(France)
M. Czirtok	(Ukraina)
G. Mityurich	(Bialaruss)
J. Bobitsky	(Ukraina)
A. Zielinski	(Canada)
V. Verveyko	(Russia)
E. Postnikov	(Russia)
I. Cibulka	(Czech Republik)
S. Bayer	(France)



prof. Valery Proklov,



Prof. P. Kopcansky



Prof. D. Ciplys



Prof. A. Zielinski



prof. J. Bobitsky



prof. J. Le Bihan

Journal of the Conference
MOLECULAR AND QUANTUM ACOUSTICS

Due to the large participation of foreign guests and the internationalization of the Conference, its formula and its name have changed. In **2005**, the Conference was renamed once again in:

Winter School on Wave and Quantum Acoustics

In 50 years at WSWQA conferences:

- almost **3 600 acousticians** participated,
- over **2 000 scientific presentations** were delivered

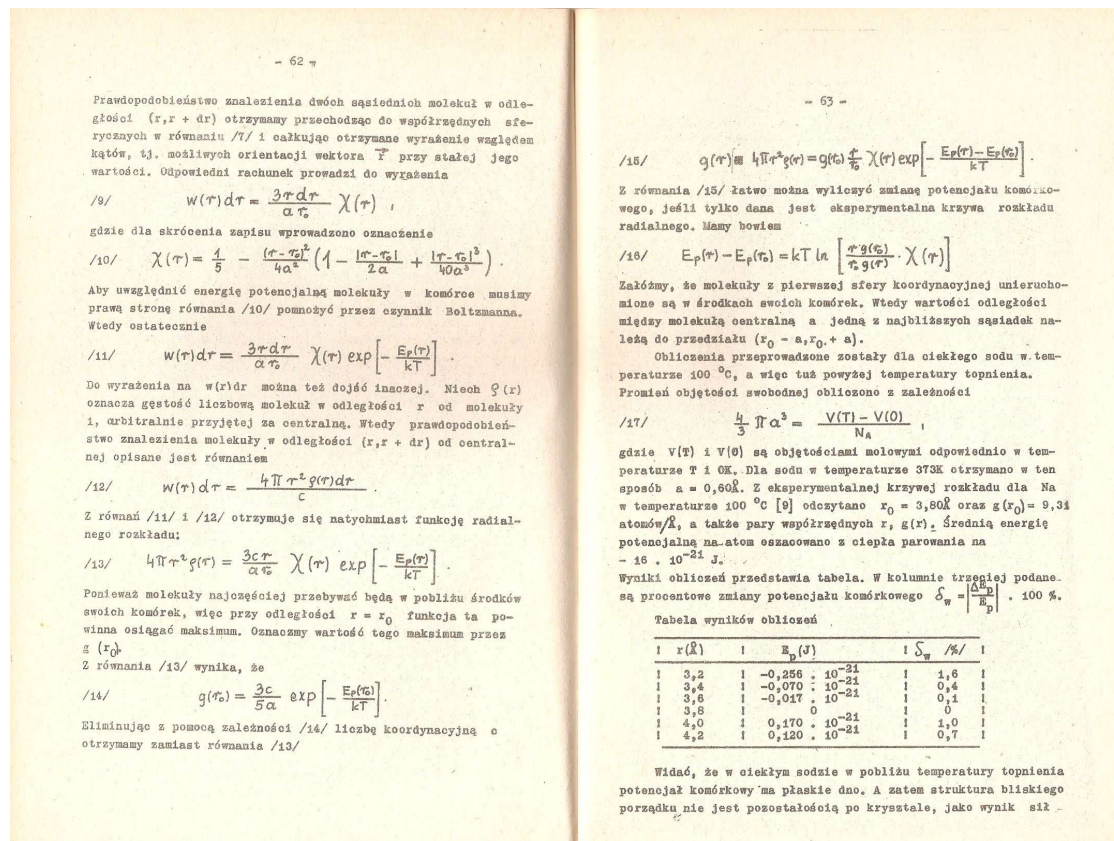
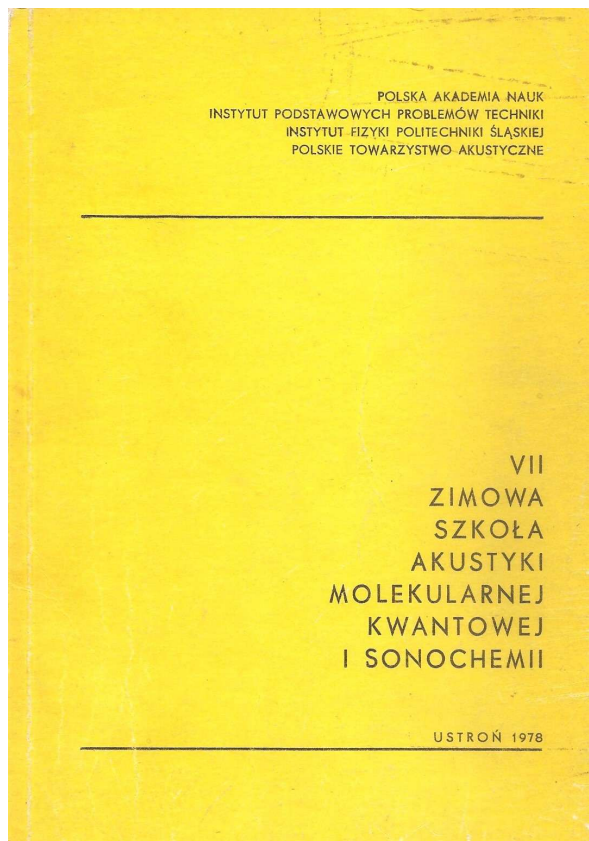
From **1978**, the WSWQA Conference had its journal:

Akustyka Molekularna i Kwantowa,

which in **1998**. changed its name to:

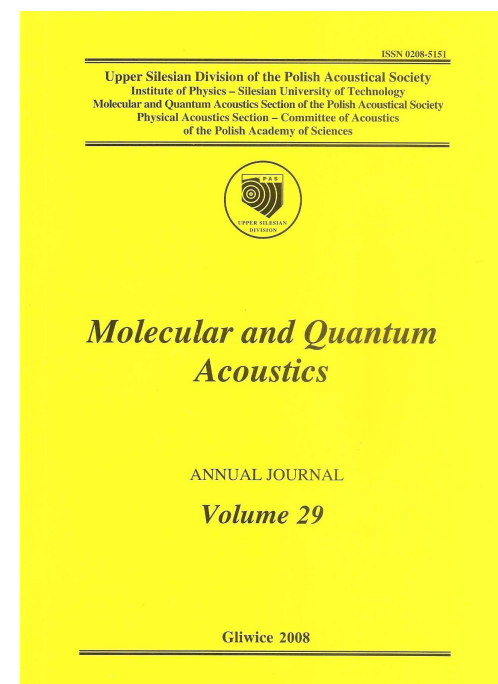
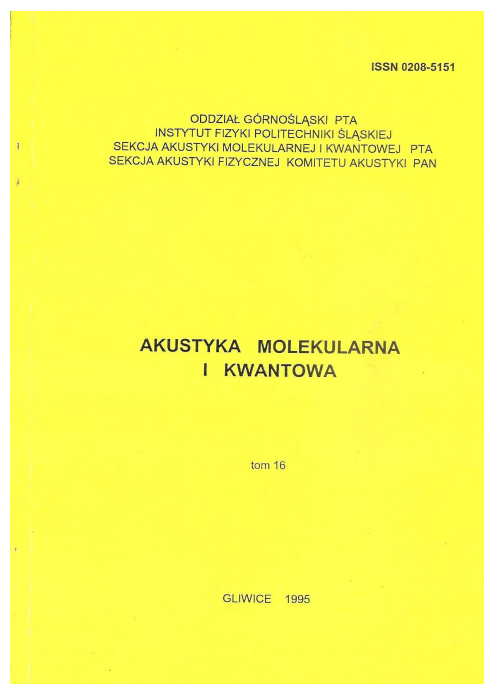
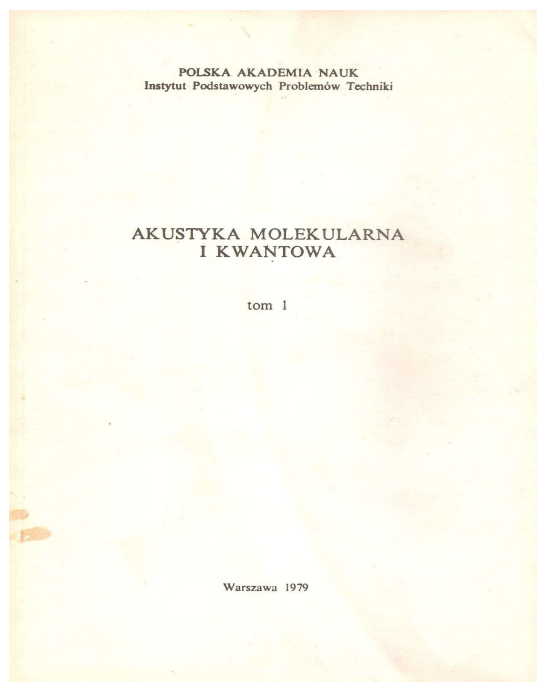
Molecular and Quantum Acoustics

Proceedings of Winter School of Molecular, Quantum Acoustics and Sonochemistry



First edition of post-conference materials from the Winter School of Molecular, Quantum Acoustics and Sonochemistry

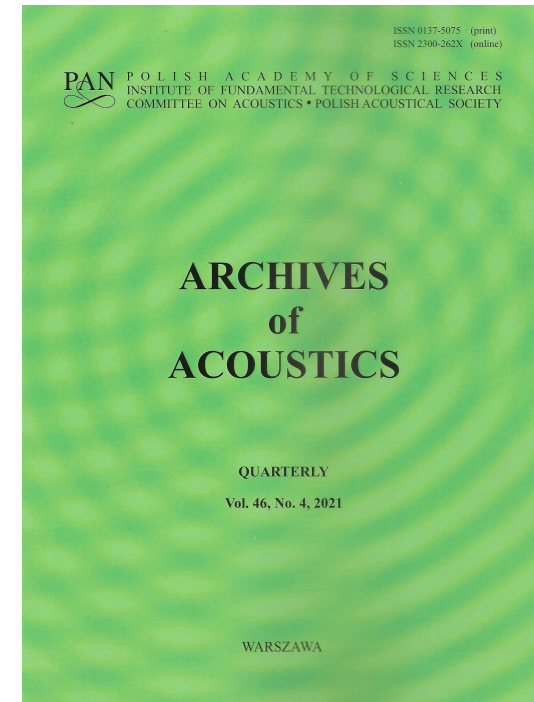
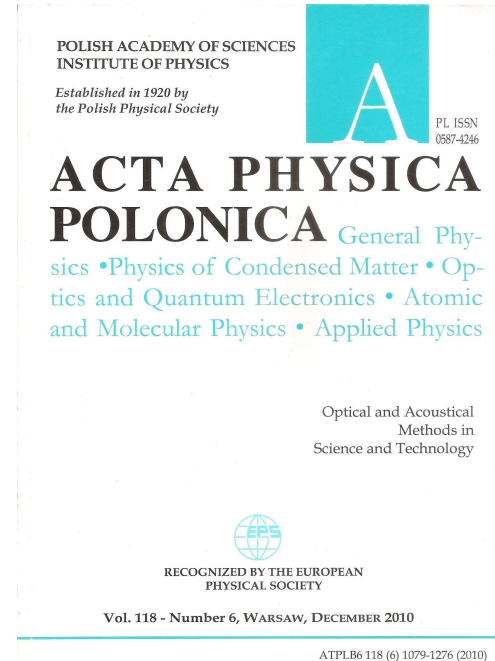
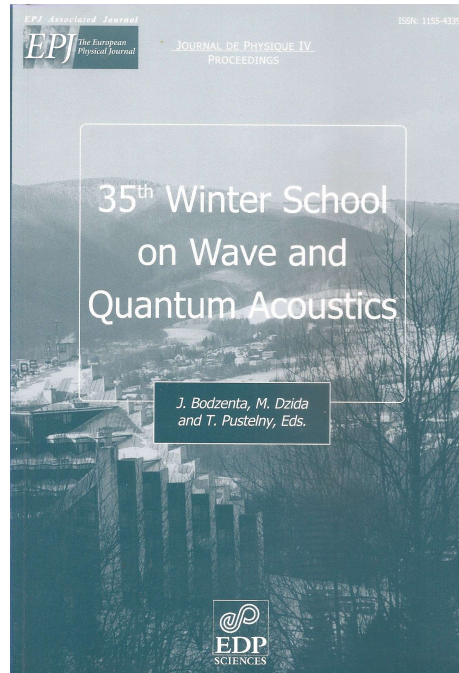
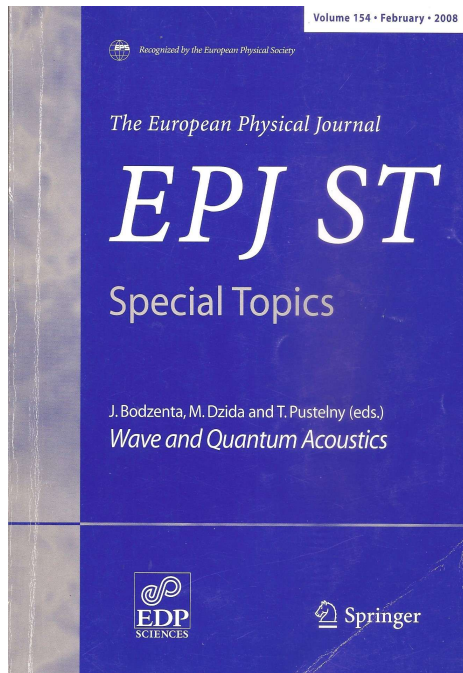
Journal Molecular and Quantum Acoustics



The journal of the Conference - **Molecular and Quantum Acoustics (MQA)**

In **MQA** above **1700 papers** were published. The last volume of the MQA was published in **2008**.

Journals in which papers from the WSWQA Conference were published



Taking into account also other journals in which the works presented at WSWQA were published, it was thanks to the Conference WSWQA that over **2100 scientific works were published**.

List of Organizers of the WSWQA Conferences:

- prof. Franciszek Kuczera - **Initiator of the Conference**
- Prof. Aleksandr Opilski
- Doc. Stanisław Szyma
- Dr Joachim Gmyrek
- Dr Kazimierz Woźniczak
- Prof. Tadeusz Pustelny
- Dr Roman Bukowski
- Dr Barbara Pustelny
- Prof. Marian Urbańczyk
- Dr Mieczysław Roczniak
- Prof. Franciszek Witos
- Dr Ryszard Hnatkow
- Dr Zenaon Cerowski
- Dr Aneta Olszewska
- prof. Marzena Dzida
- Prof. Jerzy Bodzenta
- Mgr Maciej Setkiewicz
- Mgr Wojciech Wajda
- Prof. Dariusz Bismor
- Dr Wiesław Kasprzyk
- Dr Jerzy Krzak
- Dr Wiesław Jakubik
- Inż. Jadwiga Roczniak
- Dr Sabina Drewaniak
- Dr Marcin Procek
- Mgr Piotr Kałużyński

We would like to express our gratitude and words of thanks to All Organizers

Conference life - scientific events and social gatherings



The WSWQA Conference - It is not only scientific sessions





The Golden Jubilee of the 50th

WINTER SCHOOL ON WAVE AND QUANTUM ACOUSTICS 1972 - 2022

Being aware of your own history is a prerequisite for a good future.

That is why I believe in a happy future for the WSWA Conference

In conclusion, I would like to point out that all 50 WSWQA Conferences had one organizer - it was the Upper Silesian Department of the Polish Acoustical Society at the Institute of Physics, and then at the Department of Optoelectronics of the Silesian University of Technology.

Organizing 50 Conferences on an annual cycle - it deserves noting and respect!!!

In my presentation, I tried to focus on the people and scientific activities related to WSWQA. I am aware that I have not mentioned all the names of those deserving of it. I am also aware that not all scientific events related to WSWQA have been listed. All those who have not been mentioned here by name and surname but should be mentioned - very sorry.

To sum up,

Being aware of your own history is a prerequisite for a good future.

That is why I believe in a happy future for the conference Winter School on Wave and Quantum Acoustics

A scenic view of a snowy mountain landscape at dusk or dawn. The foreground is filled with evergreen trees heavily laden with snow. The background shows rolling hills and valleys, also covered in snow, under a soft, colorful sky transitioning from purple to pink. The text "Thank you for your attention" is overlaid in the center in a bold, red font.

Thank you for your attention