

BRIEF BIOGRAPHY



Professor **Wojciech Pietraszkiewicz** is a well recognized authority in the theory of shells. He was born in Vilnius in 1939. In 1961, after accomplishing M.Sc. studies in Civil Engineering at the Faculty of Civil Engineering, Gdansk University of Technology (GUT), he became an academic teacher at GUT, where he earned his Ph. D. in 1966 and D. Sc. (Habilitation) in 1977. Since 1966 he has been working at the Polish Academy of Sciences Institute of Fluid-Flow Machinery in Gdańsk. For 18 years

Professor Pietraszkiewicz was a head of the Shell Mechanics Division, since 1999 he has been leading the Mechanics of Constructions and Materials Department. In 1983 he received a scientific title of an Associate Professor, since 1990 Wojciech Pietraszkiewicz is a Full Professor.

MOST IMPORTANT HONORS AND AWARDS

- Award of the Scientific Secretary of the Polish Academy of Sciences, Warszawa 1975, 1979, 1982
- Organizer of EUROMECH Colloquium 197 "Finite Rotations in Structural Mechanics", Jabłonna 1985
- Member of the Editorial Board, "International Journal for Engineering Analysis and Design", Wiley Ltd., USA, from 1993
- Organizer of the Conference "Shell Structures, Theory and Applications", Gołuń 1978
- Award of the Minister of Education, Warszawa 2002
- Chairman of the Scientific Committee, "Shell Structures, Theory and Applications" Conferences: Szklarska Poręba 1986, Gdańsk – Jurata 1998, 2002, 2005, 2009
- Invited Speaker at the following, international conferences
 - Udine (Italy) 1977
 - München (Germany) 1983
 - Paris (France) 1987
 - Blacksburg (USA) 1988
 - Sobieszewo (Poland) 1986
 - Florianopolis (Brasil) 1992
 - Neubiberg (Germany) 1993
 - St. Petersburg (Russia) 2005
 - Lancaster (UK) 2006
 - Hong Kong (China) 2009
- Honorary Member Polish Society of Theoretical and Applied Mechanics, since 2005

INTERNATIONAL COOPERATION

- USA, University of Illinois, Urbana – Champaign, Visiting Professor, US Department of States (Fulbright) Grant, 09.1971 – 08.1972
- Germany, Ruhr – Universität Bochum, Visiting Professor, 11.1976 – 05.1977, 12.1986 – 11.1988 and 15 short visits between 1978 and 1997
- Germany, RWTH Aachen, Visiting Professor, series of lectures, April 2001
- France, Université de Poitiers, series of lectures, May 2001; "Polonium Program", October 2002 and April 2003; Visiting Professor 10.2006 – 01.2007
- Over 30 short visits to scientific institutions in Germany, USA, Netherlands, Swiss Confederation, Italy, Belgium, France, Great Britain, Hungary, Czech Republic, Brazil, Russia and Ukraine

BOOKS

- Pietraszkiewicz W.: "Introduction to the Non-linear Theory of Shells", Mitt. Inst. Mech., No. 10, Ruhr-Universität Bochum, 1977
- Pietraszkiewicz W.: "Finite Rotations and Lagrangean Description In the Non-Linear Theory of Shells", Polish Scientific Publishers PWN, Warszawa – Poznań 1979
- Pietraszkiewicz W.: "Non-linear theories of shells", in: Woźniak Cz. (Editor) "Mechanics of elastic plates and shells", (in Polish) Polish Scientific Publishers PWN Warszawa, 2001. pp. 424 – 497
- Chróścielewski J., Makowski J. & Pietraszkiewicz W.: "Statics and dynamics of multi-shell structures: Non-linear theory and FEM" (in Polish), Institute of Fundamental Technological Research, PAS Warszawa, 2004
- Pietraszkiewicz W., Szymczak Cz. (Editors): "Shell Structures: Theory and Applications, Proceedings of the 8th SSTA Conf., 12 – 14 October 2005, Jurata (Poland)"; Taylor & Francis, London 2005

OTHER PUBLICATIONS

in many prestigious journals, including:

- International Journal of Solids and Structures
- Archives of Mechanics
- ZAMM-Zeitschrift für Angewandte Mathematik und Mechanik
- International Journal of Non-linear Mechanics
- Journal of Elasticity
- Journal of Applied Mechanics-Transactions of the ASME
- International Journal of Engineering Science

SCIENCE CITATION INDEX over 500



**SHELL STRUCTURES
THEORY AND
APPLICATIONS**
October 14-16, 2009
Gdańsk-Jurata, Poland

Special Jubilee Session



**Professor
Wojciech Pietraszkiewicz**

**70th Birthday Anniversary
and
48th Anniversary
of Scientific Activities**



My Dear Wojciech,

I was happy to be among the first group of your PhD students. It was in hopeless times when only your scientific approach and your pattern of a hard work have been a fixed point for us. Thanks you for that time, for your patients, your explanations of the difficult foundations, your sincerity, and your responsibility. Thank you for introducing me to Cosserat continua, to classical field theory and many others original ideas. In your 70 anniversary I promise you to defense of your system of worth and preserve your unshaken approach to truth. You will be always for me "My Great Master".

Yours Janusz Badur, Gdańsk, Poland



The first person who talked to me about Professor Wojciech Pietraszkiewicz was my master of shell theory Professor Zbigniew Mazurkiewicz. In was in 1981, but I remember his strong recommendation until now. It was my privilege to meet Professor Pietraszkiewicz many times and to read most of his works. The recommendation from 1981 was absolutely right. In fact, he is probably the only really brilliant person I know who both writes and talks as fast as he thinks. One question appears: is he really 70? It is more difficult to believe it, than to learn his nonlinear theory of shells.

Wojciech Gilewski, Warsaw, Poland



Dear Wojtek:

It is an honor and privilege to salute you on the occasion of your 70th birthday celebration. Since I first learned of your work nearly 40 years ago, I have been continually impressed by its thoroughness and innovation. You have been, and continue to be, an inspiration to me and a pillar in the field. Among other things, I appreciate that your fluency in Russian, German, English, and, of course, your native Polish, has allowed you to search and do justice to those workers who have preceded you. May you continue to prosper and advance our field!

James G. Simmonds, Charlottesville, USA



Dear Wojciech,

It was a long time ago when I met you as the student of the Civil Engineering Faculty at Gdansk University of Technology and already then I noticed your great ability for scientific studies. There was also a short time of our close scientific cooperation. In after years I observed your world-wide achievements in Continuum Mechanics and in the Theory of Shells. It is my pleasure to congratulate you on the occasion of your 70-th birthday and to wish you long years of happy life, good health and further activity and successes in mechanics.

Eugeniusz Bielewicz, Gdańsk, Poland



It was back in 1978, that I was invited to take part in the seminar of Professor Wojciech Pietraszkiewicz on non-linear theory of shells. Each of seminar's participants received a photocopy of "Introduction to the Non-linear Theory of Shells – a manuscript of Professor Pietraszkiewicz's lectures. As in the socialistic reality of the 70's, making a photocopy was extremely difficult, it was a treasure. This course was written in a very clear way. These materials helped me (and many of my co-workers), therefore I used the very same notation in almost all of my works. I would like to thank Professor Pietraszkiewicz for introducing me, and many others, to the shell theory.

Paweł Kłosowski, Gdańsk, Poland



Prof. Pietraszkiewicz' work has centered on the modern development of the Kirchhoff-Love theory of the mechanics of deformable surfaces and associated boundary conditions. He has also made fundamental contributions to the theory of finite rotations, a topic of particular interest in the mechanics of structures.

David Steigmann, Berkeley, USA



It is he who opened me the door to the world of learning and science. I am and always will be grateful for this.

Marek L. Szwabowicz, Gdynia, Poland



It is my pleasure and honor to have become, first through our common friends, then through lots of correspondence and mutual appreciation and understanding of our respective works, in close contact with such a prominent and highly distinguished colleague as Professor Wojciech Pietraszkiewicz. On the occasion of his 70th birthday, I wish him a very long and prosperous life, with lots of personal satisfactions and no doubt many more deep contributions to the fascinating field of intrinsic methods, which are so dear to our professional hearts!

Philippe G. Ciarlet, City University of Hong Kong



All the papers by Wojciech Pietraszkiewicz have been created by curiosity (the source of wisdom) and pervaded by an air of criticism to the established results, the features well seen in the first papers on shallow shells and equally well visible in his last papers referring to the differential geometry theorems. His papers can be viewed as continuation of the fundamental reports by W. T. Koiter, published in *Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen* in 1966. The papers by Wojciech Pietraszkiewicz are widely cited, which confirms their impact on the progress of the shell theory at the turn of the XX and XXI centuries.

Tomasz Lewiński, Warsaw, Poland



Professor Pietraszkiewicz is not only the eminent scientist that we all know about, but also a very gifted teacher, reaching far beyond the borders of his country. So many scientists, I know it in particular for Germany, learned from him! Wojciech always promoted collaboration between Polish and German scientists, starting when Europe had not yet the shape of today: This resulted in a great number of common scientific results and contributed much to the mutual understanding of people on both sides of the iron curtain of those days. I deeply hope that this fruitful collaboration will go on for many years to come, with your participation and help, dear Wojciech.

Dieter Weichert; Aachen, Germany



Professor Pietraszkiewicz has influenced us not only by his great knowledge and insight on shell theories and mechanics of continua, in general, but also by showing us how to care and guide others and make the scientific work more enjoyable.

Thank you, Wojtek, and please accept our warmest congratulations on this occasion.

Jacek Chrościelewski, Gdańsk, Poland
& Jurek Makowski, Bochum, Germany



It is both a pleasure and honor to be in Gdansk to celebrate the 70th birthday of Professor Pietraszkiewicz, who is a giant in the field of mechanics of shell structures. The fundamental and seminal contributions of Professor Pietraszkiewicz in the area of shells are many and they have contributed to the advancement of science and technology around the world. I wish him many more years of healthy, productive, and joyful life with his family and friends. I hope to be at his 80th birthday!

J.N. Reddy, College Station, USA



I believe that the 70th Anniversary of Professor Wojciech Pietraszkiewicz is a very good occasion to thank him not only for his excellent and well known papers on shells, which we all enjoy, but also for his friendly and supportive attitude which helped many of us to stay in science and continue our research work on shells. Best wishes Professor Pietraszkiewicz on the occasion of your 70th Birthday!

K. Wisniewski, Warsaw, Poland



Dear Wojciech,

It was a great honor and much pleasure meeting you, I learned so much from you. You have had a great influence on me in the field of theory of shells and continuum mechanics. It is a pleasure to congratulate you on your 70th birthday, and to wish you many more years in good health, happiness, and success.

Victor Eremeyev, Rostov-on-Don, Russia



Dear Professor Pietraszkiewicz,
Celebrating your 70th anniversary, wishing for your health, and hoping for your further activity,

Yours sincerely,
Shigeru Shimizu, Nagano, Japan



Dear Jubilarian,
It is a real pleasure for me to congratulate you on the occasion of your 70-th birthday. I wish you long fruitful achievements on the field of shell theories as well as on any other field on mechanics and non-mechanics.

Yours sincerely, Czesław Woźniak, Łódź, Poland