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JACEK CHĄDZYŃSKI

SCIENTIFIC BIOGRAPHY

Professor Jacek Chądzynski was born on November 20, 1939 and died on September 3, 2019. He has been associated with the University of Lodz since 1958. Here in the years 1958–1963 he studied mathematics and obtained a master’s degree. In the year 1968 he received a PhD degree in mathematics at the Faculty of Mathematics, Physics and Chemistry of the University of Lodz for his thesis ”On a certain condition equivalent to the Riemann hypothesis”. His supervisor was prof. Zygmunt Charzyński. He obtained the habilitation degree in 1983, also at this Faculty, on the basis of the dissertation ”On the stability of holomorphic mappings”. He received the title of professor of mathematical sciences in 1990.

From graduation, Jacek Chądzynski worked continuously at the University of Lodz in the following positions: assistant, senior assistant, assistant professor, associate professor and full professor. In the years 1984–2010 he headed the Department of Analytic Functions and Differential Equations. He was a member of the Mathematics Committee of the Polish Academy of Sciences (2003–2007), a real member of the Łódź Scientific Society (1985–2006) and a member of Polish Mathematical Society.

Scientific activity of Jacek Chądzynski was related to holomorphic functions of several variables and complex analytic geometry. He was the author and co-author of 39 scientific articles. The most important and inspiring results from his achievements include: estimates of the Łojasiewicz exponent (1983), exact formulas for the Łojasiewicz exponent (1988 and 1992), theorems about sets on which the local and global Łojasiewicz exponent are achieved (1997) and theorems on the gradient of a polynomial at infinity (2003) and some results concerning the jacobian conjecture.

Jacek Chądzynski was on a six-month internship at the Moscow Lomonosow University (1969/1970), where he participated in seminars lead by B. W. Shabat, E. M. Chirka, and A. G. Vitushkin. He participated in lectures by A. Andreotti on complex analysis at CIME in Bressanone (1973) and twice in the International Banach Center in Warsaw in semesters: Complex Analysis - conducted by prof.

J. Siciak (1979) and Theory of Singularity - conducted by prof. S. Łojasiewicz (1985). These contacts resulted in the initiation of the research in multidimensional complex analysis and algebraic geometry at the University of Lodz.

In February 1980, Jacek Chądryński set up a new pioneering seminar on complex algebraic geometry - a discipline popular at the time in the world, but little practiced in the country. Parallely with this seminar, four departments of the Institute of Mathematics began to organize annual domestic workshops (conferences) on the theory of extremal problems. At each conference, independent seminars were held corresponding to the scientific fields of these departments. From 1981, J. Chądryński began to lead there a seminar on complex analytic and algebraic geometry. When only his seminar remained, the conference changed its name to: Workshop on Complex Analytic and Algebraic Geometry. So far 40 conferences have been held, of which Jacek Chądryński was the organizer or co-organizer of 28. They quickly gained great popularity in the country. Thanks to the discussions at these conferences, many important joint scientific papers have been published. Here, close cooperation was established between the University of Lodz and the Jagiellonian University, the Kielce University of Technology, the Nicolaus Copernicus University and recently with the Université Savoie Mont Blanc in Chambéry. At these conferences, students and PhD students along with the professors present their results in a friendly atmosphere. On the occasion of the XXX conference the Rector of the Jagiellonian University laid on the hands of Jacek Chądryński Medal of the Jagiellonian University *Plus ratio quam vis*.

An undoubted merit of Jacek Chądryński is the creation of a center of algebraic and analytic geometry in Łódź. These research are successfully continued at Faculty of Mathematics and Computer Science by his successors and a large group of their students. Jacek Chądryński supervised four PhD thesis, was a reviewer in eight PhD dissertations, five habilitation dissertations, five processes for the title of professor and in three processes for the position of full and extraordinary professor at the Jagiellonian University. He was the manager of three highly rated grants: a three-year CPBP grant and two three-year KBN grants, and the main contractor in the continuation of the last of them.

During over fifty years of work at the University of Lodz, Jacek Chądryński conducted didactic classes in Faculties of Mathematics, Physics and Economics. In mathematics, he lectured in complex analysis of one and several variables, ordinary and partial differential equations, mathematical analysis and algebraic geometry. He promoted over twenty masters in mathematics. He conducted classes with high mathematical precision and diligence. Students highly appreciated his lectures. For many years he was the tutor of the theoretical studies in the field of mathematics.

Jacek Chądryński was the author of three academic textbooks: Introduction to complex analysis (5 editions), Introduction to complex analysis. Part II. Holomorphic functions in several variables (3 editions) and Introduction to complex analysis in problems (2 editions). All textbooks have received very positive reviews. The first is used by students in most Polish universities. The other two are also very

popular at Polish universities. In addition to the above textbooks, Jacek Chądryński was the author of two scripts from complex analysis (7 editions) and ordinary differential equations. He received the minister's award for the first of them.

Organizational achievements of Jacek Chądryński for the University is also significant. He was, among others, a member of the Senate of the University of Lodz (1990–1993 and 1996–2005), a member of the Statute Committee (1993–2005), a member of the Appeals Committee (1993–2010), a member of the Dean's College at the Faculty of Mathematics, Physics and Chemistry (1990–1993). In 1996 he actively participated in separating the Faculty of Mathematics from the Faculty of Mathematics, Physics and Chemistry.

The professor also conducted social activities in the University of Lodz. He was, among others, a member of the Presidium of the Works Council of the ZNP (Polish Teacher's Union) at the University of Lodz (1976–1980) and a delegate of the Institute of Mathematics at WZD NSZZ "Solidarność" (1981).

He has been awarded the Rector's awards for scientific, didactic and organizational activities several times. He was awarded the Gold ZNP Badge, the Bronze Cross of Merit, the University of Lodz Gold Medal, the Gold Cross of Merit, the University of Łódź Medal "in the Service of Society and Science", the Medal of the 50th Anniversary of the University of Lodz, the Medal of the National Education Committee and the Universitas Lodziensis Merentibus Medal.

From October 1, 2014, Jacek Chądryński has retired, but he still participated in the seminar. He was also a member of the editorial team of proceedings for conferences on Analytic and Algebraic Geometry. He co-authored two publications on the 70th anniversary of the University of Lodz.

Professor Jacek Chądryński died unexpectedly on September 3, 2019 at the age of 79 years.



Professor Jacek Chądryński (1939 – 2019)