THE SCIENTIFIC AND DIDACTIC WORK
OF PROFESSOR JANINA WOLSKA-BOCHENEK

Professor Janina Wolska-Bochenek was born on January 13, 1921 in War-saw. Her father was a layer, and the mother finished a musical conservatory. In May 1938, she obtained the secondary school certificate from the gymnasium of J. Kowalczykówna and J. Jawurkówna. In September 1938, she entered the Faculty of Electrical Engineering of the Warsaw Polytechnics. Due to the eruption of the Second World War in September 1939, she has to interrupt her study, which were continued at the clandestine courses of Warsaw University on the Faculty of Mathematics and Physics in the years 1942–1944. After the liberation of Poland in the year 1945, she has resumed the further study at the Faculty of Philosophy of the Jagellonian University in Cracow, from which she graduated in 1947 with the degree of M.Sc. in Philosophy with the specialization in Mathematics. During the whole period of the war occupation, she was giving private lessons in mathematics and she was employed as a teacher in private clandestine courses of secret secondary schools. She took part in the Warsaw Uprising. For her duty she was awarded with the Warsaw Uprising Cross (1992), the Cross of Home Army (1995), and a memory medal of the Action Thunderstorm.

During her study at the Jagellonian University, she worked in a paper wholesale in Cracow. On the first of January 1949 she has moved to Warsaw and started to work as a junior assistant at the Chair of Mathematics of the Faculty of Mechanics of Warsaw University of Technology. At that time the head of the chair was Professor Witold Pogorzelski. On the 30th of May of 1950, on the basis of the thesis entitled "Integral and integral-differential equations with a pole singularity", she was awarded a Ph.D. in the technical sciences at the Warsaw University of Technology. The thesis adviser was Professor Witold Pogorzelski, she was his first doctoral student.

Beginning with the academic year of 1951/52, she started her didactic work in teaching of mathematics at the Faculty of Aviation. In December 1954 the Central Qualifying Commission awarded her with the degree

of Dozent, and on 28th of February of 1962 the State Council bestowed upon her the title of Extraordinary Professor in mathematical sciences. Since 1949 she took the active part in a scientific seminar of the group of Application of Mathematics in Physics, conducted by Professors Witold Pogorzelski and Wojciech Rubinowicz, and then in a seminar of the group of Integral Equations at the Mathematical Institute of the Polish Academy of Sciences.

Since 1963 Professor Janina Wolska-Bochenek has been the head of the seminar of Integral Equations at the Mathematical Insitute of the Warsaw University of Technology. Since 1976 for three terms, she had been a member of the Commission for Awards at the Ministery of Science, Higher Education and Technics. She had been the Vice-President of the Polish Mathematical Society and the President of the Chapter of the Polish Mathematical Society at the Warsaw University of Technology. In the years 1981–1984 she was a deputy director of the Institute of Mathematics at the Technical University of Warsaw.

The scientific interest of Professor Janina Wolska-Bochenek has been concentrated in the fields of integral equations, partial differential equations and their applications and boundary problems for analytic and pseudoanalytic functions. She has published 42 papers related to these problems. Her papers are cited in the monograph of W. Wendland "Elliptic systems in the plane" and in the monograph of Guo Chun Wen and Heinrich Begehr "Boundary value problems for elliptic equations and systems". For the last twenty years she has collaborated with Professor Lothar von Wolfersdorf from Bergakademie Freiberg. She has been many times invited to participate in the conferences "Problems and Methods in Mathematical Physics" organized by the Technische Hochschule in Karl-Marx-Stadt (now Chemitz-Zwickau) and two times in Oberwolfach. She has also collaborated with Professor W. Wendland and Professor E. Meister from the Technische Hochschule Darmstadt, taking part in the exchange and collaboration program between the Warsaw University of Technology and the Technische Hochschule Darmstadt.

Professor Janina Wolska-Bochenek has been the principal organizer of the six international conferences "Integral Equations and Their Applications" held at the Warsaw University of Technology. These conferences, with large international participation, have found a permanent place in the scientific research related to integral and partial differential equations and will be held also in future.

In the seminar on integral equations conducted by Professor Janina Wolska-Bochenek many young scientific workers have been stimulated by the research of her and could persue their scientific career toward doctor-

ates and habilitations. Professor J. Wolska-Bochenek has been herself the thesis adviser to 16 Ph. D.'s in mathematics, also she has taken active part in the habilitation process of several scientific workers. Some of them have become professors of mathematics at Polish technical universities.

Parallel to her scientific work, she has been a distinguished academic teacher of mathematics at the Warsaw University of Technology, highly appreciated by the students. She has been author or co-author of five textbooks, which are still used by the students of technical universities. She also has taken active part in the organization work of the Institute of Mathematics of Warsaw University of Technology. From 1965 till her retirement in 1991 she had been the head of the Department of Integral Equation of the Warsaw Institute of Technology, which was also responsible for teaching of mathematics for the students of the Faculty of Mechanics Energetics and Aviation. After her retirement she has been further working part-time as ordinary professor of the Institute of Mathematics, taking active part in all activities of the Institute, especially in the work of the scientific council. She has received a very high status as the moral authority of the Institute, and her opinion is of decisive meaning in many matters considered by the council. She is a widow and has one son.

The Editorial Board of *Demonstratio Mathematica* is pleased to publish the present volume dedicated to Professor Janina Wolska-Bochenek. The volume includes the papers dedicated to her by her disciples and followers and other authors who wanted to express their admiration to her achievements. Some of the papers have been presented at the Conference on Integral Equations and Their Applications held at the Warsaw University of Technology in December 1994. To present Professor Wolska-Bochenek's work in more detail, we are including a list of her scientific publications, followed by a list of her didactic publications. We hope that by publishing this volume we will pay a tribute to Professor Wolska-Bochenek's achievements. We also hope that this volume will revive the interest in the classical theory of integral equations initiated by Professor Witold Pogorzelski and continued with great success by Professsor Janina Wolska-Bochenek.

The Editorial board of *Demonstratio Mathematica* would like to wish Professor Janina Wolska-Bochenek all the best on the occasion of publishing this volume. We wish Professor Wolska-Bochenek many further active years of scientific and didactic activity and we hope that *Demonstratio Mathematica* will enjoy Professor Wolska-Bochenek collaboration as a referee and adviser.

Maciej Mączyński
Editor-in-Chief