



**On Monday the 29<sup>th</sup> of July 2013 Jarmila Walachova, the research scientist and a long-time member of our institute, passed away at the age of 73.**

Jarmila Walachova was born in 1940 in the town of Orlova in northern Moravia. She finished her study in 1962 at the Faculty of Nuclear and Mechanical Engineering CVUT in Prague and subsequently she worked for Tesla Roznov Company in the Department of semiconductors. In 1967 she joined the Institute of Radio Engineering and Electronics of the Czechoslovak Academy of Sciences, now the Institute of Photonics and Electronics of the Czech Academy of Sciences (IPE ASCR). In 1969 she worked shortly in the Institute of Technical Instruments in Brno and in the same year she defended her PhD thesis “Minima in conduction characteristics of MIS-Schottky tunnel junctions”. At the institute she founded the laboratory of the scanning tunneling microscopy (STM) and ballistic electron microscopy and spectroscopy (BEEM/BEES), which became an important center for these studies not only in the Czech Republic CR but also abroad. The basic instrument in the laboratory was the low temperature ultrahigh-vacuum STM BEEM/BEES, which she designed and constructed together with her colleagues and students. Her specific scientific interest was the study of tunnel processes in Schottky barriers and the characterization of semi-conducting hetero-structures.

In the last 10 years she was interested in the characterization of low-dimensional structures, in particular quantum dots and thin layers of thermo-electrics, with the help of STM BEEM/BEES and thermal AFM.

The work of Jarmila Walachova subsequently drew interest for collaboration with her from the Physical Institute of the ASCR, the Institute of Physics in Warsaw, Technical University in Poznan, the Department of Physics, CALTECH in Pasadena, the University of Nottingham and the Slovak Technical University in Bratislava.

Jarmila Walachova published, according to Web of Science, 25 scientific publications 7 of which in the Applied Physics Letters where she was always the main coauthor. She also participated in the education of students and she mentored several young collaborators in our institute. Although she retired in 2012 she continued to work at the IPE ASCR and IP ASCR to the last days of her life.

Jarmila Walachova will be remembered by all collaborators for her devotion to the work, diligence, endurance and a broad professional knowledge.