

PHYSICS & COMPUTER SCIENCE EVENT

Semiconductor epitaxy: driving fundamental discoveries and innovative applications

Zbig Wasilewski

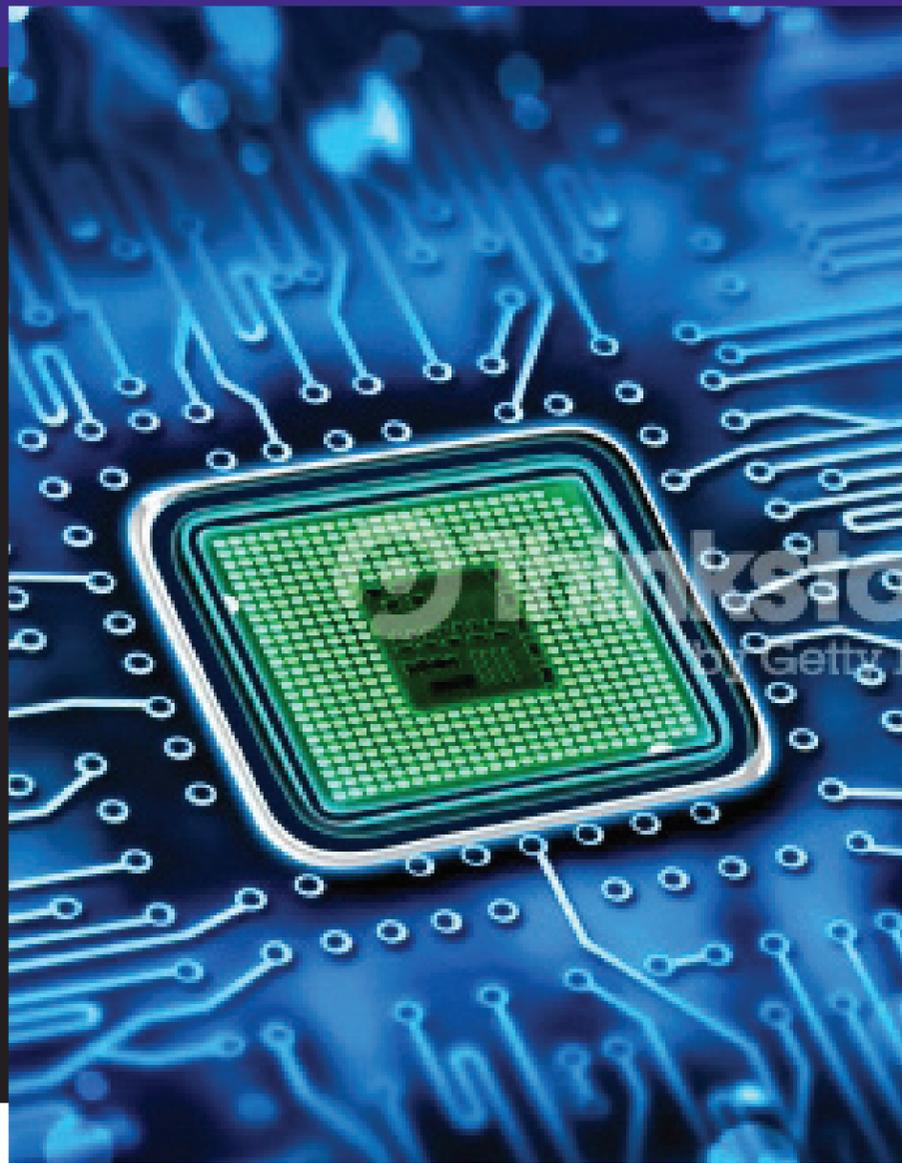
SEMINAR SERIES



Dr. Wasilewski

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Dr. Wasilewski earned his doctoral degree from the Institute of Physics, Polish Academy of Sciences in 1986. In 1988, after postdoctoral work at the Imperial College in London, he joined the National Research Council of Canada where he worked until July 2012—since 2006 at the Principal Research Officer level—focusing primarily on the MBE growth and characterization of quantum structures and devices based on III–V semiconductor compounds. In July 2012 Dr. Wasilewski joined Electrical & Computer Engineering Department at the University of Waterloo as full Professor and Endowed Chair of the Waterloo Institute for Nanotechnology (WIN). Dr. Wasilewski is a co-author of nearly 500 refereed journal articles and conference proceedings with some of the highest citation records in the field.



TUESDAY, NOVEMBER 10 | 4 PM
N1046, SCIENCE BUILDING

SEMICONDUCTOR RESEARCH has been one of the most influential driving forces behind pure and applied science for more than half a century. Studies of the elementary and collective excitations, or quasiparticles, in semiconductor-based man-made artificial universes and nanostructures are now one of the hottest research areas in physics. The fruits of the semiconductor science and technology have profound influence on everything from individual lifestyles to the entire civilizations which are increasingly dependent on fiber-optic world-wide web highways, smartphones, personal computers,

digital cameras, medical diagnostic instruments, photonic, electronic and magnetic sensors, ultra-bright LEDs, LED flat-panel displays and TVs, and solar-panel power stations, to mention just a few. None of that would have come into existence if it were not for the continuing progress in the material science, and in particular advancements in the epitaxial technologies. This seminar will discuss the principles behind semiconductor epitaxy and give a condensed overview of the current state-of-the art.

FACULTY OF SCIENCE | Department of Physics and Computer Science

Seminar Series Co-ordinators: Ilias Kotsireas, Li Wei and Marek Wartak

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