



## Visiting Professor - Prof Pavel Petrovich Moskvina

### Lectures:

1) "Thermodynamics and simulation of technological processes of thin films synthesis I" (15 h)

06.05.19 – 10.05.19

2) "Thermodynamics and simulation of technological processes of thin films synthesis II" (15 h)

13.05.19 – 17.05.19

Detail programme along with schedules of the lectures and consulting hours can be found at

<https://ftims.pg.edu.pl/goscie-zagraniczni>

Faculty of Applied Physics and Mathematics invites all Students, Staff and Guests to the classes and consultations with our Visiting Professor - Pavel Petrovich Moskvina from [the Department of Physics and Higher Mathematics](#) of the Zhytomyr State Technological University (ZSTU), Ukraine. Classes of Prof Moskvina are mainly devoted to the PhD and second cycle students specializing in materials science, and are divided into two 15-hour blocks, **3 ECTS credits each**:

1. "Thermodynamics and simulation of technological processes of thin films synthesis I",
2. "Thermodynamics and simulation of technological processes of thin films synthesis II".

Contact: [irena.datta@pg.edu.pl](mailto:irena.datta@pg.edu.pl)

### **Short BIO (facts & figures) of Prof Pavel Petrovich Moskvina**

Prof Moskvina graduated from the Leningrad Electrotechnical Institute in Leningrad in 1980 with a Master's degree in semiconductor devices and microelectronics. He continued his research in Leningrad and obtained his doctoral degree in 1983, defended his doctoral dissertation at the Taras Shevchenko National University of Kyiv (Ukraine) at 2000.

In 1986, he became a senior research scientist, and 10 years later a docent of physics. Since 2000 he is a full professor and the Head of the Department of Physics and Higher Mathematics at the Zhytomyr State Technological University (ZSTU), Ukraine. He is the author of over 150 publications on solid state physics, nanotechnology, materials science, crystal growth and optoelectronics, including 1 book.

Scientific interests: physics of semiconductors, electronic material science, optoelectronics, thermodynamic description of technological processes for obtaining complex semiconductor solid solutions for sensor technology. He is the author of over 150 publications on solid state physics, nanotechnology, materials science, crystal growth and optoelectronics, including 1 book.

Most relevant publications:

1. P. Moskvina, S. Skuratovskiy; O. Kravchenko, et. al. Spinodal decomposition and composition modulation effect at the low-temperature synthesis of  $A_3B_3C_5$  semiconductor solid solutions. *Journal of Crystal Growth*, 510 (2019) p.40-46.
2. A.I. Kazakov, G.V. Shapovalov, P.P. Moskvina. Computer Simulation for Formation of Critical Spaces in II-VI Solid Solutions. *Journal of Crystal Growth*, 506 (2019) p.201–205
3. P.P. Moskvina, V.B. Kryzhanivskiy, L.V. Rashkovetskiy, et.al. Invariance of multifractal spectrums of spatial forms on the surface of  $Zn_xCd_{1-x}Te - Si$  heterocompositions synthesized by electron beam epitaxy and hot wall epitaxy. *Journal of Crystal Growth*, 2017 v.475, p.144-149.
4. V.V. Kusnetzov, P.P. Moskvina, V.S. Sorokin, Nonequilibrium Phenomena During Liquid Semiconductors Solid Solution Heteroepitaxy Equilibria, Metallurgiya, Moscow, 1991.