

**VALENTYN A. SMYNTYNA**

*Doctor of Physical and Mathematical Sciences,  
Full Professor; Honoured Scientist of Ukraine,  
Laureate of State Premium of Ukraine in the field of Science and  
Technology*



Valentyn Smyntyna was born on September 8, 1948, in the village Vyshneve (Tatarbunary district of Odessa region). In 1966 he graduated with honors from Tuzlovski secondary school and was enrolled in the Faculty of Physics of Odessa I. I. Mechnikov State University (now Odessa National I. I. Mechnikov University, ONU), from which he graduated with honors in 1971. He has successfully completed post-graduate studies in ONU in 1974 (with the title of Candidate of Sciences (PhD) in 1977); in 1988 he took the degree of Doctor of Physical and Mathematical Sciences, and in 1992 – the title of Full Professor. He is permanently working in ONU, being consequently Vice-Dean for science and research of the Faculty of Physics, Head of the Department of Experimental Physics, Vice-Rector for international cooperation, Advisor to the Rector, Rector.

In 1995 Valentyn Smyntyna was elected and appointed as rector ONU and thereafter effectively stimulates the active development of this university during 15 years till 2010. During the period of Valentyn Smyntyna terms of office (tenure), ONU was awarded the status of National University in 2000, in 2006 its' achievements were recognized by Diploma of the Cabinet of Ministers of Ukraine, and in 2009 it was nominated as the best classic university of independent Ukraine; the University was awarded numerous Grand Prix, gold, silver and bronze medals in international and national exhibitions and competitions, it was included into first 2000 of the most famous universities in the world according to the Webometrics rating and into 120 research universities in the world, it has become the first classical university of independent Ukraine which signed Bologna Magna Charter.

In 1989 Valentyn Smyntyna has found scientific research laboratory of sensor electronics, later – research and training center of medical and biological physics and in 2008 – interagency Physicotechnical Centre of double submission to Ministry of Education and Science and National Academy of Sciences of Ukraine; he is effectively managing and supervising activities of all these structures. In 1996 he implemented the first in Ukraine unique complex “School - College - University”, the model of which was reproduced by leading universities of Ukraine in frames of their structures. Since 1995 Valentyn Smyntyna has created and developed a network of educational units of ONU located in 9 cities in the south of Ukraine; he has opened 10 faculties and institutes, over 20 educational departments and as many new fields of studies in Odessa National University; the quality of students' training has considerably improved: the number of Doctors of Sciences, Professors, increased from 95 to nearly 200, and Candidates of Sciences, Associate Professors - from 375 to about 800.

Valentyn Smyntyna is well-known distinguished physicist, whose studies are widely recognised in Ukraine and abroad, he is the author of over 700 scientific works, 11 scientific monographs (4 - personal, 2 of them in English published in New York), 27 patents for inventions, 12 textbooks (5 personal) recommended by Ministry of Education and Science of Ukraine, including the first in Ukraine “Course of general physics” in 6 volumes.

Valentin Smyntyna is recognised leader of scientific school for physics of semiconductor's surface which determines development of this branch in Southern Ukraine and makes significant impact on

these studies in Ukraine in the whole. He is the Head of specialized scientific council for examination of dissertations for a degree of Doctor of Sciences in Physics in four specialties; 5 Doctor of Sciences and over 10 Candidate (PhD) dissertations were prepared under his supervision.

The main scientific results were achieved by Valentyn Smyntyna in the field of study of electron-molecular phenomena on the surface and in the bulk of semiconductor polycrystalline films and nanostructured materials, layers of oxide semiconductors and compound semiconductor materials, in which he has discovered the new type of electrical heterogeneity (chemisorptional-electric domain); he has put forward, explained and validated its model and electron-molecular nature.

In 2007 Valentyn Smyntyna was awarded by the State Premium of Ukraine in the field of science and technology; in addition, two more State Premium of Ukraine in the field of science and technology were awarded in 2009 and 2011 for two other research projects realized in frames of headed by him Physicotechnical Center.

The most important results of scientific research of Valentyn Smyntyna are published in international peer-review editions with high Scopus citation index, and  $h$ -index and in those ones recognized by the American Institute of Physics.

Valentyn Smyntyna is well-known in Ukraine and abroad public figure acting as Vice-President and since 2013 as a Coordinating Council member of Ukrainian Physical Society, chairman of its Southern Branch, member of the State Accreditation Committee of Ukraine (2003-2006), vice-head of scientific council for semiconductor physics of Presidium of National Academy of Sciences, member of Committee for State Awards of Ukraine in the field of science and technology, deputy head of Southern Scientific Centre of National Academy of Sciences (1995-2010), scientific supervision of regional seminar on problems of physics and the Head of the Coordination board on Semiconductor Physics of Southern Scientific Center of NAS of Ukraine.

During 1980-1992 he was member of Ukrainian and Southern regional boards of scientific and technical societies analytical instrumentation and Ukrainian Republican Council of analytical instrumentation, in 1997-2000, - supervisor of nationwide coordination plan for semiconductor physics and metals; in 2002-2006 - deputy and presidium member of Odessa Regional Council, Chairman of the Committee for Science and Education.

Valentyn Smyntyna is the editor-in-chief of scientific journals “Sensor Electronics and Microsystem Technologies” and “Photoelectronics” recognized as professional ones by Attestation Commission of Ukraine, Editor of “Herald of Odessa University” (1995-2010).

He is successful organizer of many important international conferences, in particular, 1-st national congress “Physics in Ukraine”, 1st pan-Ukrainian Conference on Physics of Semiconductors, Congress EUROSENSOR, founder and head the organizing committee of the first five international conferences “Sensor Electronics and Microsystem Technologies”.

Since 1994 he is member of the European Physical Society, the only from Ukraine permanent member of EUROSENSOR steering committee; honorary member of EUROSENSOR and former member of NEXUS program bureau; full member of Optical Society of America, American Physical Society and of other authoritative professional associations, since 1998 he collaborates with the editorial advisory board of Sensors Update publisher, and since 2010 he is member of the council of experts of Danube University Association.

Valentyn Smyntyna has realized his professional development at national research centers in Italy, France, Germany, Finland, South Korea and State Department of the United States and in other countries. Since 1992 he is the coordinator and Ukrainian team leader of series international research projects developed in cooperation with scientists from Italy, France, Portugal, Finland, Sweden, Latvia and Turkey. He collaborates with research and educational institutions of nearly 20 countries. The results of his research are regularly discussed at recognized international scientific conferences, where he made over 100 presentations.

As the University professor Valentyn Smyntyna deliver implemented by him newest special course “Physical and chemical phenomena on the surface of solids” and the fundamental course “Optics”, Master course “Photoelectric processes in semiconductors”, specialized and review lectures for University students in Italy, Finland, France, Great Britain, the Netherlands and other countries.

Honored Worker of Science of Ukraine, laureate of the State Prize of Ukraine in Science and Technology, Professor Valentyn Smyntyna is marked by over 50 governmental and branch awards and distinctions of Ukraine, Italy, Vatican, USA, France, Great Britain, Bulgaria, China, Finland, and Hungary, by insignia of Orthodox churches of Ukraine and Russia. He is Honorary Senator of Szeged University (Hungary), Honorary Professor of Technical University of Qingdao (China), Kherson National Technical University, Institute of Management and Economics “Galician Academy”, Academy of St. Peter and Paul (Vatican), Moscow Humanitarian University, member of the Club of Rectors of Europe, member of the Association of Rectors of European universities, Honorary Citizen of Ochakiv, Honorary member of the Council of Rectors of Odessa region.