# CURRICULUM VITAE

# Valeriu M. FILIP, Professor emeritus

## I. ACADEMIC DEGREES:

**Ph.D. in Physics**, Faculty of Physics, University of Bucharest, Romania, January 20th, 1998.

Thesis title: Contributions to the Study of Electron Emission from Semiconductors under High Electric Fields and Applications.

M.S., Solid-State Physics, Faculty of Physics, University of Bucharest, Romania, 1979.

B.S. and M.S. Thesis on "Phonon Drag Effects in Solid State Transport Phenomena"

**B.S., Physics**, Faculty of Physics, University of Bucharest, Romania, 1978.

## II. FELLOWSHIPS:

**NUFFIC** Fellowship, Eindhoven University of Technology, Faculty of Physics, Eindhoven, the Netherlands, 1996.

**JSPS** Post Doctoral Fellowship, Nagoya Institute of Technology, Graduate School of Engineering, Nagoya, Japan, 1998-2000.

## III. PROFESSIONAL BACKGROUND:

Period	Positions	Institution	
Oct.1979 - Oct.1982	Physicist	Research Institute for Nuclear Power Reactors (IRNE), Pitesti- Colibasi, Romania	
Oct. 1982 - Oct. 1983	Research Physicist	IRNE, Reactor Security Division	
Oct. 1983 - Feb. 1992	Assistant Professor	University of Bucharest, Faculty of Physics, Thermal Physics Department	
Feb. 1992 - May 1998	Lecturer	University of Bucharest, Faculty of Physics, Thermal Physics Department	
May 1998 – May 2000	JSPS Post Doctoral Fellow	Nagoya Institute of Technology, Graduate School of Engineering, Nagoya, Japan	
May 2000 – January 2001	Lecturer	University of Bucharest, Faculty of Physics, Thermal Physics Department	
January 2001 – July 2003	Associate Professor.	University of Bucharest, Faculty of Physics, Thermal Physics Department	
July 2003 – April 2005	Senior Research Associate	City University of Hong Kong, Electronic Engineering Department and Optoelectronics Research Centre	
April 2005 – June 2006	Associate Professor	University of Bucharest, Faculty of Physics, Thermal Physics Department	
June 2006 – September 2006	Research Fellow	City University of Hong Kong, Electronic Engineering Department	
September 2006 – February 2008	Associate Professor	University of Bucharest, Faculty of Physics, Thermal Physics Department	

June 2008 –	Research Fellow	City University of Hong Kong,	
September 2008		Electronic Engineering	
		Department	
June 2011 –	Research Fellow	City University of Hong Kong,	
September 2011		Electronic Engineering	
		Department	
June 2013 –	Research Fellow	City University of Hong Kong,	
August 2013		Electronic Engineering	
		Department	
April 2017 – July	Senior Research Fellow	City University of Hong Kong,	
2107		Electronic Engineering	
		Department	
February 2008 –	Professor	University of Bucharest, Faculty	
October 2019		of Physics, Thermal Physics	
		Department	
October 2019 -	Professor emeritus	University of Bucharest, Faculty	
present		of Physics	
March 2018 -	Senior Research Scientist	National Institute for Airspace	
January 2022		Research "Elie Carafoli",	
		Bucharest, Romania	
January 2018 -	Senior Research Scientist	Research Center for Surface	
present		Science and Nanotechnology,	
		University POLITEHNICA of	
		Bucharest	

<b>Subjects of research:</b>	Moderators for nuclear thermal reactors: ZrH <sub>2</sub>	(1979-1983)
	Solid state transport phenomena: Drag effects	(1983-1992)
	Solid state high field transient phenomena	(1992-1996)
	Vacuum microelectronics	(1994-1999)
	Vacuum nanoelectronics	(1999-present)
	Charge transport in nano-structures	<b>(2003-present)</b>
	Environmental physics	(2005-present)

- 84 published papers in referred journals, 78 of them in the following international journals: Journal de Physique I, Applied Surface Science, Journal of Vacuum Science and Technology A, Journal of Vacuum Science and Technology B, Review of Scientific Instruments, Ultramicroscopy, Japanese Journal of Applied Physics, European Physical Journal Applied Physics, Applied Physics Letters, Microelectronics Engineering, Microelectronics Reliability, Thin Solid Films, Journal of Nanoscience and Nanotechnology, Journal of Instrumentation, Journal of Atmospheric and Solar-Terrestrial Physics, Vacuum, Solid State Electronics Letters, Atmospheric Measurement Techniques.
- The published papers have been cited over 1500 times in the specialized literature.
- 33 papers presented at international conferences.
- Hirsch index =15
- i10 index = 30