

## Europass Curriculum Vitae

### Personal information



**First name(s) / Surname(s)** Setnescu Radu  
**Telephone(s)** Mobile: Mobil:+40 723 955 522  
**Fax(es)** +40 21 346 82 99  
**E-mail** [setnescu@icpe-ca.ro](mailto:setnescu@icpe-ca.ro) ; [rsetnescu@yahoo.com](mailto:rsetnescu@yahoo.com)  
**Nationality** Romanian  
**Date of birth** 11 February 1957  
**Gender** Male

**Employment / Occupational field** Valahia University of Targoviste, Romania/ Education; Research  
 Research & Development Institute for Electrical Engineering (ICPE-CA)  
 Bucharest, Romania/ Research

### Work experience

<b>Dates</b>	1999 - present
<b>Occupation or position held</b>	professor (full professor from April 2001)
<b>Main activities and responsibilities</b>	Education and research (new and advanced materials, chemical analysis and materials characterization)
<b>Name and address of employer</b>	Valahia University of Targoviste, Faculty of Sciences and Arts, Department of Sciences, 8-12 Bd. Unirii, Târgoviște, jud. Dâmbovița, România
<b>Type of business or sector</b>	Education and research
<b>Dates</b>	1998-present
<b>Occupation or position held</b>	Senior researcher (associate from April 2001)
<b>Main activities and responsibilities</b>	research (materials for electrical engineering, new and advanced materials, analysis and characterization of materials, ionizing radiation processing of materials, luminescence phenomena)
<b>Name and address of employer</b>	National Research and Development Institute for Electrical Engineering (ICPE-CA) Bucharest, 313 Splaiul Unirii, Sector 3, Bucharest, Romania
<b>Type of business or sector</b>	Education and research
<b>Occupation or position held</b>	February 2006 – December 2009 Project associate
<b>Main activities and responsibilities</b>	Research (characterization and improvement radioresistance of materials, and assessment of remaining life of polymeric materials in the fields of radiation)
<b>Name and address of employer</b>	European Organization for Nuclear Research (CERN), Meyrin CH-1211, Geneva 23, Switzerland
<b>Type of business or sector</b>	Research
<b>Dates</b>	June 1998 - February 2001
<b>Occupation or position held</b>	Head of ICPE's Advanced Research Department

Main activities and responsibilities	Research and management of research activity
Name and address of employer	Research and Development Institute for Electrical Engineering (ICPE) Bucharest, 313 Splaiul Unirii, Sector 3, Bucharest, Romania
Type of business or sector	Managing and research
<b>Education and training</b>	
Dates	July 1998
Title of qualification awarded	PhD in Chemistry (Physical Chemistry) – University of Bucharest PhD thesis: <i>Contributions to study of some synergistic effects in degradation and stabilization of some polymeric materials</i>
Principal subjects/occupational skills covered	<b>Principal subjects</b> Interaction of ionizing radiation with the matter Radiation chemistry Luminescence phenomena <b>Occupational skills</b> Applications of radiation processing technologies; Polymeric materials. Antioxidants and stabilization. Synergistic effects of antioxidants; Degradation of polymeric materials under various stress conditions. Synergistic effects; Infrared spectroscopy and applications in characterization of the polymeric materials and additives. Applications of chemiluminescence in polymers and additives characterization.
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry, Radiochemistry Laboratory 4-12 Bd. Regina Elisabeta, Sector 3, Bucharest, Romania
Level in national or international classification	6B, education domain 44
Dates	September 1980 - June 1981
Title of qualification awarded	MSc: Radiation Chemistry Dissertation title: <i>Influence of ionizing radiation on the activity and selectivity of some solid catalysts</i>
Principal subjects/occupational skills covered	<b>Principal subjects</b> Radiation chemistry Isotopes and their practical applications Macromolecular compounds Organic and inorganic chemical technology <b>Occupational skills</b> - Radiothermoluminescence of some oxide catalysts for hydrocarbon isomerization - Modification of the catalytic activity in ionizing radiation fields - Analysis of some hydrocarbon mixtures by gas-chromatography
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry, Radiochemistry Laboratory 4-12 Bd. Regina Elisabeta, Sector 3, Bucharest, Romania
Level in national or international classification	6B, education domain 44
Dates	September 1976 - June 1980
Title of qualification awarded	Licence (diploma) of Chemistry Title of the diploma dissertation : <i>Radiothermoluminescence of some metallic oxides</i>
Principal subjects/occupational skills covered	<b>Principal subjects</b> General chemistry, Inorganic chemistry, Organic chemistry, Chemistry of macromolecules and colloids, Atomic structure and chemical bond, Kinetics of chemical reactions, Thermodynamics, Photochemistry, Kinetics of rapid and ultrarapid reactions <b>Discipline professionnelle</b> - Methodology of chemistry pedagogy. Pedagogic psychology. - Heterogeneous catalysis - Radiothermoluminescence and its applications - Gas chromatography as an analysis method for gas mixtures
Name and type of organisation providing education and training	Polytechnical Institute of Bucharest, National Institute of Chemistry, Faculty of Chemical Technology – Chemistry Department
Name and type of organisation providing education and training	6B, education domain 44

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s) **English, French**

Self-assessment

*European level (\*)*

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C1	Experienced user	B2	Independent user	B2	Independent user	B2	Independent user
C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C1	Experienced user

(\*) [Common European Framework of Reference for Languages](#)

**Social skills and competences**

Team spirit and ability to adapt to multicultural environments  
 Skills acquired through participation in research projects and internships network and international cooperation:  
 - Academic scholarship offered by the Technical University Kiryu Gunma, Japan, April 1996 - October 1996;  
 - Project associate at European Organization for Nuclear Research, Switzerland, February 2006 - December 2009

**Organisational skills and competences**

-Experience in managing research projects, obtained through participation as project director at the national and international research projects  
 -Research management experience acquired through the exercise of leadership positions in the laboratory department at ICPE advanced research and as scientific secretary, between 2005 - 2006 Institute of Multidisciplinary Scientific and Technological Research (ICSTM-UVT) of Valahia University of Targoviste

**Technical skills and competences**

Techniques of analysis and materials characterization  
 - FTIR and UV-vis spectroscopy  
 - chemiluminescence, lyoluminescence, radiothermoluminescence  
 - thermal analysis (DSC, DTA)  
 - analytical chromatographic separation techniques (GC, HPLC)  
 - electrochemical analysis - irradiation with ionizing radiation dosimetry  
 - skills acquired through university and post-graduate studies mentioned, in research conducted in the country (ICPE-CA, University of Bucharest, Valahia University of Targoviste) or abroad (Gunma Technical University Kiryu - Japan, CERN Geneva, etc.) as well as short training sessions

**Computer skills and competences**

Good command of Microsoft Office tools (Word™, Excell™, Power Point™), Adobe Acrobat Professional™, PhotoShop™, Origin™, Wolfram™ etc  
 Good command of specific programs for data acquisition and processing of various laboratory instruments, and computing applications and evaluation based on experimental data processing, for example AKTS Thermokinetics

**Artistic skills and competences**

**Other skills and competences**

Driving licence **Driving license category B**

**Additional information**

**Annexes** Selection of works published in ISI