

## Paul Octavian Stănescu Lecturer

University "POLITEHNICA" Bucharest  
Faculty of Applied Chemistry and Materials Science  
Department Bioresources and Polymer Science



### Contact information

149, Calea Victoriei, Bucharest, 010072

phone: (+4) 021.402.2710

e-mail: [paul\\_stanescu@yahoo.com](mailto:paul_stanescu@yahoo.com); [stanescu@tsocm.pub.ro](mailto:stanescu@tsocm.pub.ro)

### Education and training

Dates	01/10/2001 - 01/06/2005
Title of qualification awarded	Ph.D.
Principal subjects/occupational skills covered	Ph.D. in the field: Polymeric materials and composites
Name and type of organisation providing education and training	University Jean Monnet, Saint Etienne, France
Level in national or international classification	ISCED 6
Dates	Oct 1998 – June 1999
Title of qualification awarded	Master Engineer
Principal subjects/occupational skills covered	Chemical Engineering – Macromolecular Compounds Technology
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Faculty of Industrial Chemistry
Level in national or international classification	ISCED 6
Dates	Oct 1993 – June 1998
Title of qualification awarded	Diplomate Engineer
Principal subjects/occupational skills covered	Chemical Engineering – Macromolecular Compounds Technology
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Faculty of Industrial Chemistry
Level in national or international classification	ISCED 5

### Professional experience

Dates	Oct 2006 – present
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching, research
Name and address of employer	University POLITEHNICA of Bucharest
Type of business or sector	Education
Dates	Sep 1998 – Sep 2006
Occupation or position held	Assistant Lecturer
Main activities and responsibilities	Teaching, research
Name and address of employer	University POLITEHNICA of Bucharest
Type of business or sector	Education

### Academic and research interests

- Rheological behavior of thermoplastic polymers (particularly for branched polyethylene)

- Hydrogels for pharmaceutical and agricultural applications
- Kinetic study on the thermal processes of polymers using isoconversional methods
- Bacterial cellulose/microbial polyesters composite materials for tissue engineering

## Teaching activity

<i>Studies</i>	<i>The name of Programme</i>	<i>Code</i>	<i>Course title</i>	<i>Activity type</i>
<i>Bachelor</i>	Chemical Engineering (Science and Engineering of Polymers)	UPB.11.S.06.O.719	Optional I (Polymer packaging)	Course
	Chemical Engineering (Food chemistry and biochemical technologies)	UPB.11.S.08.O.413	Polymer packaging for food	Course and applications
	Industrial design - Faculty of Mechanics and Mechatronics		Polymeric materials and composites	Course
	Engineering Economics in Chemical Engineering and Materials - FAIMA	UPB.15.T.04.O.202	Science of organic materials and composites	Course
<i>Master</i>	Chemical Sciences for continual education		Polymers	Course
	Science and Engineering of Polymers	UPB.11.S.10.O.908	Advanced characterization methods for polymers	Course and applications
	Science and Engineering of Polymers	UPB.11.S.09.O.902	Design of composite materials	Course
	Advanced composite materials with special applications	UPB.11.S.10.O.1408	Design of polymer composite materials	Course
	Micro and nanomaterials	UPB.11.S.11.O.605	Nanotechnologies	Course and applications
	Certification of chemical products, food and materials	UPB.11.S.09.O.1102	Advanced polymeric materials	Course and applications

## Publication (selective):

### Books

„Polymer packaging for food”, **P. Stănescu**, D. Teodorescu, Gh. Hubca, Ed. Matrix Rom, 2010 (ISBN: 978-973-755-609-7)

"Technologies for synthetic elastomers obtaining", Gh. Hubca, **P. Stănescu**, Iuliana Niță, Ed. SemnE, 2005 (ISBN: 973-624-330-3)

### Articles

M. Teodorescu, B. Cursaru, **P.O. Stănescu**, "Swelling and diffusion characteristics of hydrogels synthesized from diepoxy-terminated poly(ethylene glycol)s and aliphatic polyamines", *Soft Materials*, 2010, **8 (3)**, pp. 288-306

M. Teodorescu, **P.O. Stănescu**, H. Iovu, C. Draghici, "Free radical polymerization of vinyl acetate in the presence of liquid polysulfides", *Reactive & Functional Polymers*, 2010, **70**, pp. 419-425

M. Teodorescu, A. Lungu, **P.O. Stănescu**, C. Neamțu, *Preparation and properties of novel slow-release NPK agrochemical formulations based on poly(acrylic acid) hydrogels and liquid fertilizers*, *Ind. Eng. Chem. Res.*, 2009, **48 (14)**, pp. 6527–6534

J.C. Majeste, C. Carrot, **P.O. Stănescu**, C. Mardon, *An Algorithm Based on Simple Rules for the Determination of the Architecture of Branched Polymer Molecules from the Number of Branching Points per Molecule*, *Macromol. Theory Simul.* 2007, **16**, 240–246

**P. Stănescu**, J.C. Majeste, C. Carrot, *Modeling of the linear viscoelastic behavior of low-density polyethylene*, *Journal of Polymer Science. Part B: Polymer Physics*, 2005, **43 (15)**, 1973 - 1985

J.C. Majeste, C. Carrot, **P. Stănescu**, *From linear viscoelasticity to the architecture of highly branched polyethylene*, *Rheologica Acta*, 2003, **42 (5)**, 432 - 442

### **Research projects**

**Project manager** - *Innovative polyester/bacterial cellulose composites for biomedical engineering* - PNII-PCCA (2012-2015)

**Project manager** - *Modelling of the non-linear viscoelastic behavior of the low density polyethylene* – CNCSIS AT (2006 - 2007)

**Project manager** – *Micro and nanocomposites based on polyether-polyols* – CEEX ET (2006 - 2008)

**Person in charge for UPB** - *Advanced ecological nanostructured materials, for long term applications on wood and metal* - CEEX P-CD (2006 - 2008)

**Person in charge for UPB** - *Development of new technologies for the obtaining of non-asbestos fireproof materials coated with elastomers for coverings and thermal isolations* – CEEX P-CD (2006 - 2008)

### **Other information**

- Project Team Leader, Advanced Polymer Materials Group (2011), <http://www.tsocm.pub.ro/APMG/staff.html>
- Director of the Department of Bioresources and Polymer Science, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest (from 2013)
- Member of the Council of the Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest (2008)
- Member of the Chemical Romanian Society (SchR)