



## Brief biographical note

**Prof. Dr. Ioana Demetrescu** obtained her Bachelors degree and Ph.D. from University of Bucharest in Physical Chemistry field. She spent more than 40 years in teaching and research activities in this domain. Her teaching activities are focussed in the field of General Chemistry, and Physical Chemistry of Materials .

Since 2005, Prof. Demetrescu is also associated with the Masters program in the Department of Biotechnology and Bioengineering. The research program focuses, apart from other issues, on the tissue engineering, scaffolds characterization, new implants for medical applications.

**Her professional and scientific activity comprises:** handbooks/textbooks (15); papers published (165); 92 of them in ISI journals :inventions (4); participating in different international or national research projects (111) ; awards at international halls for inventions (1 )

**Chair pairson**, member of the scientific committee **and invited speaker** at different meetings universities and ( USA, Mexic, Poland Greece, France, Tunis, Brazil etc;

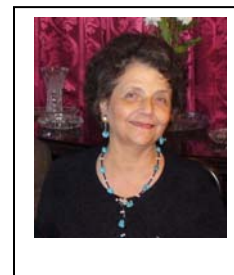
member of the International Editorial Board journal of Nanobiomedicine (Japan );

reviewer for different journals (Materials Chemistry and Physics, J. of Biomedical Materials Research, Surface and Interface Analysis, Journal of Non-Crystalline Solids, Electrochimica Acta, etc ) ;.

**Name: Prof. Ioana Demetrescu**

**Current appointment:**

Department of General Chemistry ,  
Faculty Applied Chemistry and Materials Science,  
University Politehnica of Bucharest, Romania



**Educational Background:**

- Post doc in Photochemistry Brandeis University USA 1973-1974
- PhD in Physical Chemistry University of Bucharest, 1972,
- Bachelor in Science Faculty of Chemistry University of Bucharest, June 1966.
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**Experience:**

- Expert in the frame of international projects UNIDO, Leonardo da Vinci, and FP6;
- Evaluating projects; Corint, Leonardo da Vinci, , MENER, MATNANTECH, RELANSIN, PN2, CNCSIS;
- Evaluation of PhD thesis from Romania and abroad, ( 1995-present ) : Monitoring contracts Relansin, MENER , CEEX);
- Supervisor of PhD students ( 3 of them in cotutela with INTP Toulouse )
- 165 scientific papers published in Romanian and foreign journals, (92 in ISI Journals), 4 Patents, in materials research, 15 handbooks and monographs, 89 comunications in International conferences, some of them invited lectures
- Organizer of workshops ;
- Visiting Profesor Portugalia – Porto University ( Composites materials ), 1995
- Member of Faculty of Materials Science and Engineering, University POLITEHNICA of Bucharest (1974-present)
- Head of the Interface Phenomenon Laboratory Polizu



## 4th International Conference "Biomaterials, Tissue Engineering & Medical Devices"



- Member of the Board of Directors of the Department of Bioengineering and Biotechnology from University POLITEHNICA of Bucharest (2005-present)
- Member of University Politehnica Senate ( 2004-present )
- Head of the General Chemistry Department University Politehnica (2000– present )

**Specialization** "Physical Chemistry methods Brandeis University USA 1973-1974.

### Research field

Research activity in the field of:

- Bioelectrochemistry
- Characterization of some porous scaffolds of various biomedical application
- Stability of metallic biomaterials for implants ( CoCr, Ti and Ti alloys )
- Biocompatibility testing and evaluation from ability to built phosphate
- Physical and chemical characterization of nano- and microstructure of biomaterials;

### Present Areas of Research

The ongoing research work is characterized by the following keywords: processing and characterization of metallic biomaterials, hybride composites for bioapplication, titania nanotubes elaboration and characterization, biocompatibility evaluation from ability to built phosphate.

**Title of a BIOMMEDD 2010 lecture:**

*Is the nanostructure a way to improve biomaterials performance ?*