

PERSONAL INFORMATION

Eduard-Marius Lungulescu



WORK EXPERIENCE

 285A, Prelungirea Ghencea, District 6, Bucharest, Romania

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 marius.lungulescu@icpe-ca.ro

Sex M | Date of birth 27/06/1982 | Nationality Romanian

January 2013-present

Scientific Researcher / Radiochemistry Laboratory-Advanced Materials Department

National Institute for R&D in Electrical Engineering ICPE-CA, 313, Splaiul Unirii, District 3, Bucharest, Romania. Tel. +4021 346 72 35; E-mail: office@icpe-ca.ro; www.icpe-ca.ro

- Head of Radiochemistry Laboratory: activities coordination, tasks distribution, cooperation with head of department regarding the achievement of objectives, economic and financial situation of department;
- Research activities related to the materials characterization in various environment (natural weathering and artificial ageing – ionizing radiation, UV, etc.) using different analytical methods;
- Scientific and technical elaboration of the execution phases of research projects;
- Research projects proposal at different national and international competitions;
- Participation to scientific conferences.

January 2010-December 2012

Project Associate at CERN on the project “Replacement of irradiated aged cables (RIAC)”

European Organization for Nuclear Research (CERN); 385, Route de Meyrin, 1217, Meyrin Switzerland; <http://home.web.cern.ch/>

- Member specialist in the working group RIAC (Replacement of irradiated aged cables);
- Assessment of total and remaining life-time of polymeric materials of electrical cables used in ionizing radiation environments in the CERN particle accelerators (LHC, SPS, LINAC);
- Qualification of electrical cables to be used in ionizing radiation environments;
- Recommendations regarding the replacement of electrical cables in CERN particle accelerators.


October 2005-December 2010

Scientific Researcher/ Radiochemistry Laboratory-Advanced Materials Department

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- Member of research team in different research projects;
- Elaboration of technical reports under the guidance of the project manager;
- Participating to scientific conferences.

EDUCATION AND TRAINING



October 2007-October 2014

PhD in Chemistry

University of Bucharest

- Applications of radiation processing technologies;
- Polymeric materials. Antioxidants and stabilization. Synergistic effects of antioxidants;
- Degradation of polymeric materials under various stress conditions. Synergistic effects and life-time evaluation.

October 2005-June 2007

MS, Chemistry-Physics and Applied Radiochemistry

Faculty of Chemistry, University of Bucharest

October 2001-June 2005

BS, Chemistry-Physics

Faculty of Chemistry, University of Bucharest

PERSONAL SKILLS

Mother tongue Romanian

Other language(s)

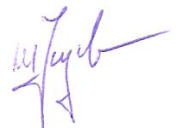
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C1	C1	B2	B2	C1
English	B2	B2	B2	B2	B2

Social skills and competences

Team spirit and ability to adapt to multicultural environments

Skills acquired by both participation to international network research projects and fellowships, as for example:

- project associate to European Organization for Nuclear Research (CERN), Switzerland (January 2010 - December 2012)



Technical skills and competences

Techniques of analysis and characterization of materials, as for example:

- FTIR, Raman and UV-vis spectroscopy
- Thermal analysis (DSC, DTA, TG, chemiluminescence, radiothermoluminescence)
- Radiation dosimetry
- Gas chromatography: GC-TCD, GC-FID and GC-MSD

The skills were acquired by academic studies, short term courses, fellowships, and research activities in Romania or outside

Papers

1. E.Pavel, V. Marinescu, **M. Lungulescu**, B. Sbarcea. *Hydrothermal synthesis of β -NaYF₄:Ce,Tb crystals doped with different cerium concentrations*. Mater. Lett. 210, pp. 12-15, 2018
2. C. Banciu, **M. Lungulescu**, A. Bara, L. Leonat, A. Teisanu. *3D graphene network investigation by Raman spectroscopy*. Optoelectron. Adv. Mat. - Rap. Comm. 11 (5-6), pp. 368-372, 2017
3. C. Stancu, P.V. Notingher, P. Notingher, **M. Lungulescu**. *Space Charge and Electric Field in Thermally Aged Multilayer Joints*. IEEE Trans. Dielectr. Electr. Insul, 23 (2) pp. 633-644, 2016
4. T. Zaharescu, A. Dumitru, **E.M. Lungulescu**, G. Velciu. *EPDM composite membranes modified with cerium doped lead zirconate titanate*. Radiat. Phys. Chem. 118, 133-137, 2016;
5. R.S. Mezey, T. Zaharescu, **M.E. Lungulescu**, V. Marinescu, S. Shova, T. Rosu. *Structural characterization and thermal behaviour of some azomethine compounds derived from pyridoxal and 4-aminoantipyrine*. J. Therm. Anal. Calorim., doi:10.1007/s10973-016-5680-7, 2016
6. T. Zaharescu, L. I.P. Kaian, **M.E. Lungulescu**, D.F. Parra, A.B. Lugao. *EPDM recycling assisted by γ – processing*. Iran Polym. J. 25, 725-730, 2016
7. T. Zaharescu, **E. M. Lungulescu**, R.A. Caramitu, V. Marinescu. *Study on radiation aging of PA6/EPDM blends*. Iran Polym. J. 24, 883-889, 2015;
8. **M.E. Lungulescu**, T. Zaharescu, C. Podina. *Thermal and radiation stability of polyolefins modified with silica nanoparticles*. J.Optoelectron. Adv. Mat., 16 (5-6), 719-725, 2014;
9. S.D. Ilie, R. Setnescu, **E.M. Lungulescu**, V. Marinescu, D. Ilie, T. Setnescu, G. Mareş. *Investigations of a mechanically failed cable insulation used in indoor conditions*, Polym. Test., 30 (2), 173-182, 2011;

