

PERSONAL INFORMATION	PÎRGHIE CRISTI/	PÎRGHIE CRISTIAN				
STRUCT PROPERTY	ŞTEFAN CEL MARE UNIVERSITY OF SUCEAVA					
ALL CONTRACTOR	C 0230216147/122					
	cristian.pirghie@cern.ch; cristipirghie@gmail.com					
	ID Skype: cristian.pirghie					
	Sex M Date of birth 22/07/1974 Nationality ROMANIAN					
POSITION WITHIN THE PROJECT	SCIENTIFIC RESEAR	CHER III				
WORK EXPERIENCE						
03.2010 – PRESENT	Lecturer Faculty of Mechanical Engineering, Mechatronics and Management "Ștefan cel Mare" University of Suceava, Suceava, <u>www.fim.usv.ro</u> Teaching activities (courses, seminars, laboratories of Physics, Optical and Ultra Acoustical Devices, Applied Informatics Environmental Physics, Sources of Radiation and Protective Techniques, Biophysics, Research apparatus, Microelectromechanical systems - MEMS) and scientific research Sector Higher Education					
10.2001 - 03.2003	Associate Lecturer Faculty of Mechanical Engineering, Mechatronics and Management "Ștefan cel Mare" University of Suceava, Suceava, <u>www.fim.usv.ro</u> Teaching activities (courses, seminars, laboratories of Physics) and scientific research Sector Higher Education					
10.2010 – PRESENT			etarium, observator	.usv.ro		
EDUCATION AND TRAINING	"Ştefan cel Mare"		dva			
10.1999 - 02.2007	PhD in Physics "Al. I. Cuza" Univer	sity of Iaşi – Facu	Ity of Physics			
10.2007 - 06.2009	Master's degree Diploma – Biomechatronics "Ștefan cel Mare" University of Suceava Faculty of Mechanical Engineering, Mechatronics and Management					
10.1992 – 06.1997	Postgraduate Computer Science "Al. I. Cuza" University of Iaşi – Faculty of Informatics					
10.1992 - 06.2001	BSc Diploma in Physics "Al. I. Cuza" University of Iaşi – Faculty of Physics Principal subjects: Programming languages, Physical data processing and numerical methods, Electrodynamics and Theory of Relativity, Quantum mechanics, Termodynamics and statistical physics, Nuclear physics and elementary particles					
PERSONAL SKILLS						
Mother tongue(s)	Romanian					
Other language(s)						
—	UNDERSTANDING Listening Reading		SPEAKING Spoken interaction Spoken production		WRITING	
English	B2	B2	B2	B2	B2	



Curriculum Vitae

Digital competence

SELF-ASSESSMENT							
Information processing	Communication	Content creation	Safety	Problem solving			
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user			

Office, MathCad, Matlab, Root, C++, SageMath, LAMMPS

Organisational/managerial skills: Member of the organizing team and chairman of the International Olympiad on Astronomy and Astrophysics 2014, Suceava, Romania

Other skills: Driving licence (category B)

Publications

ISI Papers

- N. Suliţanu, C. Pîrghie, F. Brînză, Effect of Ultrasounds Sonication on Surface Microstructure of the Electrodeposited Ni-Zn Thin Films, Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 8, No. 5, p. 1889 – 1891, 2006, impact factor 1,106 in 2006
- N. Sulitanu, C. Pîrghie, I. Sandu, Effect of ultrasound sonication on the electrolytic growth of Ni thin films, Rev. Chim. (Buch) 58, 1, 20-24, 2007, impact factor 0.287, ISSN 0034-7752
- C. Pîrghie, N. Suliţanu, V. Nica, Microstructure and Magnetic Properties of the Ni-Zn and Fe-Zn Thin Films Electrodeposed in Ultrasound Field, Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 9, No. 5, p. 1462–1464, 2007, impact factor 1.106, ISSN 1454-4164
- 4. G.I.Rusu, M. Diciu, C. Pirghie, M.E.Popa, Structural Characterization and Optical Properties of ZnSe Thin Films, Applied Surface Science, Vol. 253, No. 24, p. 9500-9505, 2007, impact factor 1.436, ISSN 0169-4332
- P. PREPELITA, G. I. RUSU, C. PIRGHIE, The structural and optical characterization of thin-film ZnTe/CdSe heterojunctions, Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 9, No. 10, p. 3200 – 3205, 2007, impact factor 1.106, ISSN 1454-4164
- Ioan Mihai, Cristian Pirghie and Vlad Zegrean, Research Regarding Heat Exchange Through Nanometric Polysynthetic Thermal Compound to Cooler–CPU Interface, Heat Transfer Engineering, vol. 31, Issue 1, p. 90-97, 2010, impact factor 0.841 in 2009, ISSN 0145-7632
- Pinzaru D, Tanase SI, Pascariu P, Vlad L, Pirghie C, Georgescu V, Microstructure, Magnetic and Magnetoresistance Properties of Electrodeposited [Fe/Pt] Granular Multilayers, Journal of Superconductivity and Novel Magnetism, vol. 24, Issue 7, p. 2145-2152, 2011, impact factor 0.650
- Pirghie C., Pirghie A.C., Eder S., Franek F., PFPE-Z lubricant thin films in molecular dynamics simulations shear thinning and friction law, Optoelectronics and Advanced Materials - Rapid Communications, vol.7, issue 5-6, p. 434-438, 2013, impact factor 0.449
- Pirghie C., Pirghie A.C., Eder S., Franek F., Effect of steady shear and loading pressure on thin PFPE-Z lubricant films in molecular dynamics simulations, Journal of the Balkan Tribological Association, vol.20, issue 2, p. 291-299, 2014, impact factor 2013 - 0.321
- 10. **C. Pîrghie**, A.C. Pîrghie, Molecular dynamics simulations of viscosity in confined lubricant film, Journal of the Balkan Tribological Association, Vol. 22, No 2A-II, 2008-2020, 2016, ISSN: 1310-4772

ISI Proceedings

- 1. Cristian Pirghie, Petru Stiuca, Magnetic and microstructure properties for the Ni-Zn thin films electrodeposited in ultrasounds field, 9th WSEAS Int. Conf. on Acoustics & Music: THEORY & APPLICATIONS (AMTA '08), Bucharest, Romania, June 24-26, 2008, Proceedings ISI, p. 61-66, ISBN 78-960-6766-74-9, ISSN 1790-5095
- Milici D., Pirghie C., Milici M., Rata M. Numerical analysis of factors which influent the biotic systems using the ferment activity - "Recent Advances in Electrical Engineering", ISSN 1790-5117, published by WSEAS Press, www.wseas.org, p. 26-30, 2008
- Petronela Prepeliţă, C.Pirghie, G.I.Rusu, Effects of Post-Deposition Heat Treatment on the Optical Characteristics of ZnTe Thin Films, AIP Conference Proceedings - April 23, 2007 - Volume 899, p. 641, Sixth International Conference of the Balkan Physical Union
- 4. **C. Pirghie**, A.C. Pîrghie, I. Musca, *On the nanolubrication as a function of load and speed wall*, Proceedings of the 16th International Conference ModTech 2012, vol. II, pag. 753-756
- 5. **C. Pirghie**, A.C. Pîrghie, I. Musca, *The lubricant behavior in nanotribological systems*, Proceedings of the 16th International Conference ModTech 2012, vol. II, pag. 757-760



Curriculum Vitae

International Database Papers

- 1. Cristian Pîrghie, Ana-Camelia Pîrghie, Ciprian Dariescu, Applied geometry of gauge-invariance to inhomogeneous Robertson-Walker cosmologies, International Journal of Arts&Sciences, 4(20):1-6 (2011)
- 2. Cristian Pîrghie, Correlations between microstructure and magnetic properties of the Ni-Zn thin films electrodeposited in ultrasounds field, International Journal of Arts&Sciences, 4(19):121-129 (2011)
- 3. **Cristian Pirghie**, Ana-Camelia Pirghie, Some aspects of the nanotribological film in nanotribological applications, TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies (ISSN 2247-6016), No. 21, Issue 1, p. 122-125, 2014
- 4. Cristian Pirghie, Ana-Camelia Pirghie, Characterizing the bahaviour of the lubricant films unisng molecular dynamics simulations, Fiability & Durability (ISSN 1844-640X), Issue 1, p. 49-56, 2014

List of scientific papers published in proceedings of conferences

- Cristian Pîrghie, Ana-Camelia Pîrghie, Investigations of nanotribological systems using molecular dynamics simulations, VAREHD 16 International Conference on EHD Lubrication and Traction, 25-27 octombrie 2012, Universitatea "Stefan cel Mare" Suceava, pag. 53-60
- Ilie Muscă, Cristian Pîrghie, A lubricating fluid compressibility study. Part 1: Experiments and simple liquids theory model, VAREHD 16 International Conference on EHD Lubrication and Traction, 25-27 octombrie 2012, Universitatea "Ștefan cel Mare" Suceava, pag. 61-66
- 3. **Cristian Pîrghie,** Ilie Muscă, *A lubricating fluid compressibility study. Part 2: Molecular dynamics modeling*, VAREHD 16 International Conference on EHD Lubrication and Traction, 25-27 octombrie 2012, Universitatea "Ștefan cel Mare" Suceava, pag. 67-70
- Cristian Pirghie, Stefan Eder, Georg Vorlaufer, Andras Vernes and Friedrick Franek, Viscosity of highly confined PFPE-Z nanofilms with molecular dynamics, Proceedings of the 5th World Tribology Congress (WTC 2013), Torino, Italy, 2013, ISBN 978-88-908185

Areas of specialization and qualifications

- 1. 14 18.01.2008, Thessaloniki, Grecia, Physics of Advanced Materials Winter School
- 2. 27.05 13.06.2008, Visiting Professor at the Polytechnic University of Turin, Italy, teaching courses "Physics Metallurgy and Surface Engineering"
- 14.06 14.09.2011, Research stage in the project "Progress and development through post-doctoral research and innovation in engineering and applied sciences– PRiDE - Contract no. POSDRU/89/1.5/S/57083", project co-funded from European Social Fund through Sectorial Operational Program Human Resources 2007-2013, at the Austrian Center of Competence for Tribology, Wiener Neustadt, Austria
- 01.06 01.09.2012, Research stage in the project "Progress and development through post-doctoral research and innovation in engineering and applied sciences– PRiDE - Contract no. POSDRU/89/1.5/S/57083", project co-funded from European Social Fund through Sectorial Operational Program Human Resources 2007-2013, at the Austrian Center of Competence for Tribology, Wiener Neustadt, Austria

Projects – researcher team member (2015) in the LHCb project, contract no. 3/03.01.2012 Projects – researcher team member (2016-2018) in the LHCb project, contract no. 7/16.03.2016

Date, 2.10.2018 Signature,