


PERSONAL INFORMATION

Name / Surname **Rîpeanu / Răzvan George**



 Street Murelor, no. 8, bl.13J, sc.A, et.1, ap.4, Ploiesti, Prahova district, Romania



 rapeanu@mail.upg-ploiesti.ro , rapeanu@hotmail.com

Sex: M | Date of birth: 21.02.1964| Born Place: Bucharest | Nationality: Romanian

<http://www.scopus.com/authid/detail.url?authorId=24067665900>

<https://scholar.google.com/citations?user=O-PYYnAAAAAJ&hl=ro>

<https://orcid.org/0000-0001-8255-8144>

[Ripeanu, Razvan George D - Web of Science Core Collection](#)

WORK EXPERIENCE

<p>Period</p> <p>Name and address of employment</p> <p>Type of activity or field of activity</p> <p>Function or position</p> <p>Main activities and responsibilities</p>	<p>10.03.2023- to present</p> <p>IOSUD Petroleum-Gas University of Ploiesti, Blvd.Bucharest, no.39,100680, Romania</p> <p>University education, scientific research in mechanical engineering domain</p> <p>Director of the University Doctoral Studies Council</p> <p>Management of the doctoral studies in IOSUD UPG</p>
<p>Period</p> <p>Name and address of employment</p> <p>Type of activity or field of activity</p> <p>Function or position</p> <p>Main activities and responsibilities</p>	<p>11.08.2016- to present</p> <p>IOSUD Petroleum-Gas University of Ploiesti, Blvd.Bucharest, no.39,100680, Romania</p> <p>University education, scientific research in mechanical engineering domain</p> <p>Professor habilitated in Mechanical Engineering by OMENCS no.4867/11.08.2016</p> <p>Ph.D. adviser, member CSUD, coordinator of the mechanical engineering domain. In 6 years 6 of my Ph.D. students debate their thesis and were confirmed by CNADCU.</p>
<p>Period</p> <p>Name and address of employment</p> <p>Type of activity or field of activity</p> <p>Function or position</p> <p>Main activities and responsibilities</p>	<p>20.03.2020- 30.09.2021</p> <p>Petroleum-Gas University of Ploiesti, Blvd.Bucharest, no.39,100680, Romania</p> <p>University education, scientific research in mechanical engineering domain</p> <p>Vice-Rector in charge with Quality Management / Director of CSUD</p> <p>Quality Management and doctoral studies in IOSUD</p>
<p>Period</p> <p>Name and address of employment</p> <p>Type of activity or field of activity</p> <p>Function or position</p> <p>Main activities and responsibilities</p>	<p>01.10.2013- to present</p> <p>Petroleum-Gas University of Ploiesti, Blvd. Bucharest, no.39, 100680, Romania</p> <p>University education, scientific research</p> <p>Full Professor</p> <ul style="list-style-type: none"> •Teach courses at disciplines: „Special materials and corrosion”, „Corrosion of equipment of transport and storage”, „Corrosion engineering of systems of transportation and storage of petroleum products”, „Tribology” etc. •Teach laboratories at disciplines: „Special materials and corrosion”, „Corrosion of equipment’s of transport and storage”, „Corrosion engineering of systems of transportation and storage of petroleum products”, „Tribology”, „Technology of electromechanical equipment” etc. •Management of thesis at license and master studies. •Scientific contract activities in fields: tribology, corrosion, reliability of refinery and petroleum equipment’s.
<p>Period</p> <p>Main activities and responsibilities</p>	<p>01.03.2006 to 30.09.2013 – Associate professor</p> <ul style="list-style-type: none"> •Teach courses at disciplines: „Special materials and corrosion”, „Corrosion of equipment of transport and storage”, „Corrosion engineering of systems of transportation and storage of petroleum products”, „Tribology”. •Teach laboratories at disciplines: „Special materials and corrosion”, „Corrosion of equipment of transport and storage”, „Corrosion engineering of systems of transportation and storage of petroleum products”, „Tribology”, „Technology of electromechanical equipment”. •Management of thesis at license and master studies. •Scientific contract activities in fields: tribology, corrosion, reliability of refinery and petroleum equipment’s.
<p>Period</p> <p>Main activities and responsibilities</p>	<p>28.02.1998 – 28.02.2006 – Lecturer professor</p> <ul style="list-style-type: none"> •Teach courses at disciplines: „Special materials and corrosion”, „Corrosion of equipment’s of transport and storage”, „Protection against corrosion”, „Technology of materials”. •Teach laboratories at disciplines: „Special materials and corrosion”, „Corrosion of equipment of transport and storage”, „Protection against corrosion”, „Tribology”, „Bases

of manufacturing technology”, „Technology of electromechanical equipment”, „Technology of materials”.
 •Management of thesis at license and master studies.
 •Scientific contract activities in fields: tribology, corrosion, reliability of refinery and petroleum equipment’s.

Period **05.10.1992 - 28.02.1998 – Assistant professor**
 Main activities and responsibilities •Teach laboratories at disciplines: „Special materials and corrosion”, „Corrosion of equipment’s of transport and storage”, „Protection against corrosion”, „Tribology”, „Bases of manufacturing technology”, „Technology of electromechanical equipment”, „Technology of materials”

Period **1.09.1988 – 5.10.1992**
 Name and address of employment Factory 1 Mai “UPETROM”Ploiești,Blvd.Independenței, no.1,Prahova district,Romania
 Type of activity or field of activity Manufacturing of petroleum equipment’s
 Function or position Mechanical engineer
 Main activities and responsibilities Design projects/redesign, technical assistance at manufacturing and homologation of some petroleum equipment’s for purpose of rising reliability at for improvement the quality. We could mention: Design devices, tools, technologies. I made and implemented the technology of manufacturing the sliding parallel valve.

EDUCATION

Period **07.11.1998 - 28.11.2003**
 Name and type of education institution Petroleum-Gas University of Ploiesti
 Study domain Technical science – mechanical engineer
 Type of qualification /diploma **Doctor Engineer -Cum Laude/** diploma series C no. 0008594/2004
 Main subject Research regarding increasing durability of cylinder-piston couple of rod pumps

Period **1983 – 1988**
 Name and type of education institution Petroleum-Gas Institute of Ploiesti, Faculty of equipment and petroleum technologies
 Study domain Profile - Mechanic, specialized – Technologic equipment, direction of study – Machines and petroleum equipment’s
 Type of qualification /diploma **Mechanical engineer /** Graduation diploma series F no. 15442/1988.

Period **5.02.2004 – 31.03.2004**
 Name and type of education institution Local Academy CISCO Petroleum-Gas University of Ploiesti / National Collegium “Mihai-Viteazul” Ploiesti
 Study domain Informatics/ Internet, HTML, JavaScript, Optimize WEB pages, site creation.
 Type of qualification /diploma **Graduation Diploma /** diploma series PH No.270

APTITUDES AND PERSONAL COMPETENCES

Native language	Romanian				
Foreign languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
France	C1	C1	B1	B1	A1
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages					

- Communication skills
- Good communication skills gained through my experience as a university professor.
 - Good communication skills gained through my experience in research activity.
 - Good communication skills gained through presentation of scientific papers at conferences.
- Social aptitudes
- Team working:
 - In research teams at research contracts.
 - Fencing team at Sportive Club “Petrolul” in lyceum period.

SCIENTIFIC EXPERIENCE, PUBLICATIONS

Scientific research contracts and grants Realization of 81 research contracts and grants at 21 as manager in the field petroleum equipment, manufacturing technologies, tribology, corrosion, reliability.

Publications	<p>Author or coauthor at 8 books with ISBN, author, or coauthor at more than 150 scientific papers 38 of them being indexed in WOS (Thomson Reuters), 53 indexed SCOPUS, 3 patents RO126567-B/2011, RO122867 -B/2010, RO118671-B/2003, 2 normative, and 6 patents applications No. RO133985 A0 (51) RO-BOPI 03/2020, RO135849 (A0) RO-BOPI 06/2022, RO135847 (A0) RO-BOPI 06/2022, RO 137587 A2 RO-BOPI 08/2023, RO 137585 A2 RO-BOPI 08/2023, RO 137586 A2 RO-BOPI 08/2023.</p> <p>My Ph.D. students which debate their thesis and obtain the Ph.D. title by minister order:</p> <ol style="list-style-type: none"> 1. Pățîmac Iulian with Ph.D. thesis „RESEARCH ON WATERJET MANUFACTURING OF THE METALLIC MATERIALS USED IN PETROLEUM AND PETROCHEMICAL INDUSTRY”; 2. Lospă Adrian Marian with Ph.D. thesis “RESEARCH ON EROSION BEHAVIOR OF PIPE ELBOWS USED FOR LIQUID PETROLEUM FLUIDS IN TECHNOLOGICAL AND MAIN PIPELINES”; 3. Bogdan Roth Mihail with Ph.D. thesis “THEORETICAL AND EXPERIMENTAL RESEARCH ON THE CONSTRUCTION AND OPERATION OF GEARS WITH NON-CIRCULAR GEARS MADE OF NECURON 1300”; 4. Ri Jong Hyok with Ph.D. thesis “RESEARCH ON WAYS TO INCREASE THE DURABILITY OF CUT OFF OIL VALVES”; 5. Petre Mihai Cristian with Ph.D. thesis “RESEARCH ON THE INFLUENCE OF STRUCTURAL DISCONTINUITIES ON THE LIFE SPAN OF INDUSTRIAL PROCESS PIPING”; 6. Dudu Cristian with Ph.D. thesis “RESEARCH ON INCREASING THE LIFETIME OF WATER TREATMENT AND INJECTION PLANTS”.
Conferences	<p>Participation with papers at more than 60 conferences in the field of tribology and mechanical engineering, more than 40 being international conferences.</p>
Organizational / managerial skills	<p>Team spirit, adapting capacity at new situations gained in didactic and research activity; Capacity to manage activities and to involve the team in solving problems; Member in Ph.D. exam board, habilitation commissions, doctoral commissions, profesor commissions etc.;</p> <p>2008 to 2019 -member in the department board; 2012 to present -member in Faculty professional council; 2012 to present- member in University Senate, President of Senate Research Commission; Reviewer at 12 journals (6 WOS and 6 BDI) and 19 international conferences (9 WOS and 10 BDI); Member of scientific committee at 4 journals (1 WOS, 2 BDI); 2018 to 2020- member of National Council for Attestation of University Titles, Diplomas and Certificates (CNATDCU); 2014-2018-President of the Romanian Tribological Association (ART); 2018 to present- Vice-President of the Romanian Tribological Association (ART); 2017 -2021- Vice-President of the Balkan Tribological Association (ART); 2020 to present-Correspondent member of Romanian Academy of Technical Sciences; Member of the scientific committee of 12 international conferences Serbiatrib 23,15,19, Bultrib 16. 15, 13, 12, Balkantrib 17, 20, ZASTR 18 etc.;</p> <p>Vice-President at international conferences Balkantrib 14, Rotrib 16, Rotrib 19; 2019 to present -Member in IOSUD UPG Ploiesti board council; 2020-2021- Director of the Council of Doctoral University Studies IOSUD UPG Ploiesti; 2023 to present- Director of the Council of Doctoral University Studies IOSUD UPG Ploiesti; 21-25.11.2019, Invited professor at the University of West Athens, Syn+ergasia, Aspropyrgos, Greece; 2020-2021-Vice-Rector of UPG Ploiesti in charge with Quality Management; Coordinator of UPG Ploiesti at International program CEEPUS CIII-BG-0703-06-1718 – “Modern Trends in Education and Research on Mechanical Systems - Bridging Reliability, Quality and Tribology”.</p>
Affiliated	<p>Correspondent member of Romanian Technical Sciences Academy (ASTR); Member of “Society of Petroleum Engineers” USA; Member of Romanian Foundation of Oil and Gas; Vice-President of the Romanian Tribological Association (ART) Member Romanian General Engineer Association (AGIR).</p>
Other skills	<p>Fencing team at Sportive Club “Petrolul” in lyceum period.</p>

Selection of scientific papers

1. Portoacă, AI, Ripeanu, R.G, Diniță, A, Tănase, M., *Optimization of 3D Printing Parameters for Enhanced Surface Quality and Wear Resistance*, Polymers, 15(16), 3419, **2023**, pp.1-22, ISSN 2073-4360, <https://doi.org/10.3390/polym15163419>, MDPI, Basel, Switzerland, 2023;
2. Patirnac, I., Ripeanu, R.G., Ramadan, I., *Theoretical and Experimental Studies on the Cut Zone Generated by AWJ Process*, FME Transactions, Ed. University of Belgrade, 49(4), **2021**, pp.997-1004, ISSN Print 1451-2092, ISSN Online 2406-128X, <https://doi.org/10.5937/fme2104997P>, Belgrade, Serbia, 2021;
3. Ri, J.H., Ripeanu R G, Dinita A, *Erosion Modeling in Parallel Gate Valve*, FME Transactions, Ed. University of Belgrade, 48(4), **2020**, pp.808-815, ISSN Print 1451-2092, ISSN Online 2406-128X, Belgrade, Serbia, 2020;
4. Patirnac, I., Ripeanu, R.G., Laudacescu, E., *Abrasive flow modelling through active parts water jet machine using CFD simulation*, Materials Science and Engineering, Vol. 724, **2020**, pp.1-7, ISSN 1757-899X, Bristol BS1 6BE, England,2020;
5. Dudu, C., Drumeanu, A.C., Ripeanu, R.G., Dinita, A., *Some considerations regarding the influence of working conditions on the corrosion wear of the injection water treatment plant equipment*, Materials Science and Engineering, Vol. 724, **2020**, pp.1-7, ISSN 1757-899X, Bristol BS1 6BE, England,2020;
6. Lospa, A., Ripeanu, R.G., Dinita, A., *Erosion modelling: a systematic review of available models and equations*, Materials Science and Engineering, Vol. 724, **2020**, pp.1-11, ISSN 1757-899X, <https://doi.org/10.1088/1757-899X/724/1/012037>, Bristol BS1 6BE, England,2020;
7. Bogdan-Roth M., Romanet M., Ripeanu R.G., *Eccentric device for varying the gear ratio*, Materials Science and Engineering, Vol. 724, **2020**, pp.1-7, ISSN 1757-899X, <https://doi.org/10.1088/1757-899X/724/1/012010>, Bristol BS1 6BE, England, 2020;
8. Besleaga, C., Dumitru, V., Trinca, LM., Popa, AC., Negrila, CC., Kolodziejczyk, L., Luculescu, CR., Ionescu, GC., Ripeanu, RG., Vladescu, A., *Mechanical, Corrosion and Biological Properties of Room-Temperature Sputtered Aluminum Nitride Films with Dissimilar Nanostructure*, *NANOMATERIALS* Vol. 7, No. 11, ISSN: 2079-4991, pp.1-26, [doi:10.3390/nano7110394](https://doi.org/10.3390/nano7110394), 2017;
9. Cursaru, D.L., Andronescu, C., Pirvu, C., Ripeanu, R.G., *The efficiency of Co-based single wall carbon nanotubes (SWNTs) in comparison with a commercial additive as AW and EP additives to mineral base oil*, Wear, Ed. Elsevier B.V. Olanda, Vol. 290-291, 30 June **2012**, pp. 133-139, ISSN: 0043-1648, <http://dx.doi.org/10.1016/j.wear.2012.04.019>, Amsterdam 1043 NX, Olanda, 2012;
10. Braic, M., Braic, V., Balaceanu, M., Zoita, C.N., Kiss, A., Vladescu, A., Popescu, A., Ripeanu, R.G., *Structure and properties of Zr/ZrCN coatings deposited by cathodic arc method*, Mater. Chem. Phys. (2011), Materials Chemistry and Physics, Ed. Elsevier B.V. Olanda, Vol.126, No.3, **2011**, pp.818-825, ISSN 0254-0584, [doi:10.1016/j.matchemphys.2010.12.036](https://doi.org/10.1016/j.matchemphys.2010.12.036), Amsterdam 1043 NX, Olanda, 2011;
11. Balaceanu, M., Braic, V., Braic, M., Vladescu, A., Zoita, C.N., Grigorescu, C.E., Grigore, E., Ripeanu, R.G., *Characteristics of Ti-Nb, Ti-Zr and Ti-Al containing hydrogenated carbon nitride films*, Solid State Sciences, Ed. Elsevier B.V. Olanda, Vol. 11, No.10, 2009, pp.1773-1777, ISSN 1293-2558, [doi:10.1016/j.solidstatesciences.2008.12.001](https://doi.org/10.1016/j.solidstatesciences.2008.12.001), Amsterdam 1043 NX, Olanda, 2009;
12. Balaceanu, M., Braic, V., Kiss, A., Zoita, C.N., Vladescu, A., Braic, M., Tudor, I., Popescu, A., Ripeanu, R.G., Logofatu, C. and Negrila, C.C., *Characteristics of arc plasma deposited TiAlZrCN coatings*, Surface and Coatings Technology, Ed. Elsevier B.V. Olanda, Vol.202, No.16, 2008, pp.3981-3987, ISSN 0257-8972, [doi:10.1016/j.surfcoat.2008.02.005](https://doi.org/10.1016/j.surfcoat.2008.02.005), Amsterdam 1043 NX, Olanda, 2008.

**ADDITIONAL INFORMATION
ANNEXES**

Ploiești, 2 November 2023

 Signature,
 Professor Dr.Eng.Habil. Răzvan George Rîpeanu

