

Diana Maria BUCUR



WORK EXPERIENCE

2023 – present 2016 – 2023 2009 – 2016 2006 – 2009 2003-2006	Professor, Habilitated since March 2022 Associate professor Lecturer Assistant professor Research assistant
	Research assistant Member in the Department Board
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University POLITEHNICA of Bucharest, 313 Splaiul Independentei, Bucharest, Romania Power Engineering Faculty Hydraulics, Hydraulic Machinery and Environmental Department *Teaching, educational, research and administrative activities*

Research, scientific and academic activity.

- Publishing over 60 research and technical papers in journals and conferences (35 ISI papers /12 journals and 26 BDI papers)
- □ Co-author of 1 International Invention WOS-Derwent Indexed
- □ Manager of 8 research projects (5 of them with industrial beneficiary)
- Member of the research team in more than 30 projects regarding evaluation of turbines and pumps operation parameters, Transitory flow in hydraulic systems, Small hydropower potential.
- Member in PhD thesis guiding committees
- Coordinator of double PhD diploma program between UPB and Lulea University of Technology, Sweden
- Consulting supervisor MSc Thesis at Tarbiat Modares University, Tehran, Iran

Educational activity and experience:

- □ Coordinator of the Hydro-informatics and Water Engineering Master program, at Power Engineering Faculty, UPB.
- Preparation of ARACIS documents for evaluation of licence program Hydropower and master program - Hydro-informatics and Water Engineering, at Power Engineering Faculty, UPB
- Short-term expert within POSDRU/90/2.1./S/58108/ Project Rehabilitation of the Practical Activity System from the Upper Technical Educational Program / TRIPOD (Restructurarea Sistemului de Practică Productivă a Studenţilor din Învăţământul Tehnic Superior)
- Administration assistant within POSDRU/86/1.2/S/61830/ Project Quality Improvement for Upper Engineering Education – Informational support for Fluids Engineering/ PiiF (Creşterea calităţii învăţământului superior de inginerie – Platforma Informatică pentru Ingineria Fluidelor)
- Erasmus and Erasmus+ students coordinator (Sweden, France)



- □ Coordinator of the practical internships for the students in Hydropower program (2007 - 2017)
- □ organization (including founding) of 16 technical visits for students: CHE Portile de Fier (2005 - 2013), CHE Dobrești, CHE Moroieni și CHE Sinaia 0 (2006 - 2008), CHE Vidraru (2005, 2007, 2015), CHE Ipotești și CHE Arcești (2009).

Teaching activity: Turbomachinery hydrodynamics, Pumps and vents, Hydraulic turbines, Hydraulic machinery testing, Fluid mechanics, Hydraulic machineries, Technical drawing

- □ Coordination of diploma and master thesis (over 50)
- I Member of the Diploma and Master evaluation committee
- Member of the Diploma and Master admission committee
- Coordination of extra-curricular research activities of students (over 40)

Technical activity:

- Head of Hydropower equipment laboratory
- Design/built/upgrade/operation of experimental laboratory and scale-up set-ups (teaching or research): Centrifugal pump operating as turbine, Two phase flow, Turgo Turbine, Measurement and monitoring system for hydrogenerator operation parameters.

Administrative activity:

- B Rehabilitation of Research laboratories and working offices for staff and PhD students
- Open air exhibition with real bulb turbine
- Financing technical visits for students

March – August 2016

Board Member

SSH HIDROSERV SA, str. Constantin Nacu nr.3, Sector 2, București Maintenance of the hydropower plants and other related manufacturing activities Activities specific to the Company Board, according to the Constitutive Documents.

EDUCATION AND TRAINING

May 2014 – December 2015

Post-doctoral training

University POLITEHNICA of Bucharest, 313 Splaiul Independentei, Bucharest, Romania Power Engineering Faculty / Hydraulics, Hydraulic Machinery and Environmental Department Transient flow modelling, Genetic algorithm implementation, Fluid mechanics, Numerical methods

PhD Diploma October 2004 – July 2011

ISCED 2011 level 8

University POLITEHNICA of Bucharest / Power Engineering Faculty / Hydraulics, Hydraulic Machinery and Environmental Department

Fluid mechanics, Hydraulics, Numerical methods, Hydropower plants and pumping stations

October 2003 - July 2004 Master Diploma ISCED 2011 level 7 Technical Hydraulics and Hydropower University POLITEHNICA of Bucharest / Power Engineering Faculty / Hydraulics, Hydraulic Machinery and Environmental Department



Engineer Licence October1998 - October 2003 ISCED 2011 level 6 University POLITEHNICA of Bucharest / Power Engineering Faculty / Hydraulics, Hydraulic Machinery and Environmental Department Power engineering domain, Hydropower plants **Bachelor** September 1994 – June 1998 ISCED 2011 level 3 Assistant programmer, Informatics program "Tudor Vladimirescu" High school, Bucharest PERSONAL SKILLS Romanian Mother tongue(s) Other language(s) UNDERSTANDING SPEAKING WRITING Spoken interaction Spoken production Listening Reading C2 C2 C2 C2 C2 English French B2 B1 B2 B1 A2 Spanish B2 A2 B1 A1 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 from my teaching activity. Organisational / managerial skills currently responsible for a team of 5 people, as head of the lab . administrative and finance leader of the projects scientific events and workshop organizer -

- preparation and coordination of industrial practical stages and technical visits for students
- team work spirit, voluntary

Job-related skills understanding and solving technical issues related to operation of hydropower equipment and machinery, both in laboratory and in site set-ups.

- activities within research projects involving in site measurements and evaluation of hydraulic machineries efficiency
- knowledge mainly related to fluid mechanics, hydraulic turbines, pumps and vents, hydraulic machinery testing and transient flows
- good command of quality control processes.



Curriculum Vitae

Digital skills	Operation system: WINDOWS
	Programming: Turbo Pascal, Basic, C++
	Usual pc packages: MS-Office, Adobe Photoshop, AutoCAD, CorelDraw
	Scientific packages: MATLAB, Ansys CFD, LabVIEW
Driving licence	Driving licence category B (1998)
ADDITIONAL INFORMATION	
	Teaching lectures at Lulea University of Technology, Sweden, 2014-2016 (LLP-Erasmus)
	Specialization:
	Research for PhD thesis at Universite LAVAL din Quebec, Canada, 2008
	Research for Master thesis at Universite de Liege, Belgia, 2004 (Erasmus)
	Member of scientific committee:
	Romanian hydropower conference, Dorin PAVEL (2012-2018)
	XIV World Renewable Energy Congress (2015)
	CIEM (2017, 2019)
	Reviewer at Transactions of the Institute of Fluid-Flow Machinery, Polish Academy of Sciences, EENVIRO (2016, 2018)
	Member of national standardization committees ASRO 109, 133, 201
	Member of AQUA NOSTRA professional association
	Member of AIEE professional association
ANNEXES	

Detailed list of papers on <u>https://www.researchgate.net/profile/Diana_Bucur</u> Other information available on request

01.10.2023