

CURRICULUM VITAE

Surname: Budea
First name: Sanda
Date of birth: 25.06.1960, Buzău
Nationality: romanian
Family situation: married, 1 child

Address: Politechnica University of Bucharest – Energetics Faculty, Hydraulics ,
 Hydraulic Machines and Environment Engineering Department, 313 Spl.
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Studies: Politechnica University of Bucharest

University	Politechnica University of Bucharest – Mechanical Faculty	Politechnica University of Bucharest – Mechanical Faculty
Date	oct. 1979 ÷ july 1984	may 1995 ÷ july 1999
Degree and awards	Graduated in Mechanical Engineering Thesis: Waves Energy	Ph.Doctor in Hydraulics and Fluid Mechanics

Scientific title:

Ph. Doctor

3D Fluid flow in pumps with lateral channel – Professor adviser Ph.D. MD Cazacu

Profesional activity:

Date	09.1984 ÷ 07.1986	09.1984 ÷ 03.1993	03.1993 ÷ 09.2006	10.2006÷present
	Buzău	Bucureşti	Bucureşti	Bucureşti
Institution:	College B.P.Haşdeu	Scientific Research for pumps and fans Institute	S.C. AVERSA S.A.	Politechnica University of Bucharest – Power Engineering Faculty Hydraulics, Hydraulic Machines and Environment Department
position:	Engineer-professor	Design engineering	Design engineering	University lecturer
Description:	Professor Materials studies, Materials Strength, Mechanisms	Computer design of centrifugal pumps, fans	Research and design multistages pumps	Lecturer : Fluid Mechanics and Hydraulic machines, Pumps and fans, Renewable Energy Sources

Present work place, function: Politechnica University of Bucharest – Power Engineering Faculty

Hydraulics, Hydraulic Machines and Environment Department, Lecturer

Brevets of invention: - one in work

Scientific activity (see the list of papers): 28 papers at Conferences.

1 book : Guide of Centrifugal pumps design– precedures and computation programs, Ed. Printech, Bucharest, 2006.

1 handbook for applications of Renewable sources of energy, in work.

Member of professional associations: - 1990 – 1995 – Member of Engineering Associations using computers , from 1998 Member of SPERIN - Engineering Association for new Renewable Sources of Energy.

Languages: -english, french.

Competences: - numerical analyse, increasing of energetics performances of turbomachines, Power plant equipments, Renewable sources of energy.

Post graduated courses: Boundary finit element and vibrations, CAD–CAM, CAE, Design with Graphical Station, Psychology and Educational Management .

Experience in other National or International Programmes:

Project	Function	Date
ORIZONT 2000, RELANSIN, Agral	member	2000 ÷ 2006
CEEX, CNCSIS	member	2006 ÷ present

Specific competences

From 2006 I work in a research team of laboratory for Renewable Sources of Energy at Hydraulic, Hydraulic machines and Medium engineering Department, Energetics Faculty.

Types of Renewable Sources of Energy in our laboratory: waves energy (generating and catching waves energy), wind energy, solar energy transforming (air or water plane insulator), photovoltaic cells - effiencie of electrical energy transforming, biomasse energy, hydroelectrical energy , combustion cells, a.s.o..

Other competences. Training capacity, communication ability, team working, capability in using IT technologies, solution specific problems of hydraulic field, working specific projects, synthesis capacity of a informations set, solution basic problems and evaluation possibles solutions, initiation in beginning and solution specific problems.

List of Papers and books elaborated / published (selection)

1. The permanent flowing in three dimensions, with axial symmetry of a viscous fluid, in a pump with lateral cannel – Conference of Hydropneumatic Systems, Timișoara, 19-22 oct. 1995, pag. 92-96.
2. Experimental researches and numerical solutions for fluid flow in pumps with lateral channel, Hydraulic and Hydrodinamique Conference, Timișoara 1999, pag. 85-89.
3. 3D Permanent, axial symmetrical fluid flow in pumps with lateral channel – Doctorat thesis, Bucuresti, 1999.

4. Numerical solutions of 3D viscous liquid flow - Conference on Modelling Fluid Flow (CMFF'03), The 12th International Conference on Fluid Flow Technologies Budapest, Hungary, September 3 - 6, 2003.
5. Numerical solution of fluid flow modelling in pumps with lateral channel– Review of SPERIN Engineering Association for new Renewable Sources of Energy, 1998.
6. Computation of energetics performances of centrifugal pumps – NUIP (internal manufacturing and research norms), SC AVERSA, may 1989.
7. Procedure for mass and axial inertial moment of pieces with axial symmetry– NUIP, SC AVERSA SA, 1987.
8. Computation of flow passing through diaphragms and nozzles – NUIP, SC AVERSA SA may 1990.
9. Procedure of dimensionning radial and axial hydrodinamique support of turbomachines – NUIP, SC AVERSA SA, 1990.
10. Computation procedure for balancing disk of multistages pumps - NUIP, SC AVERSA SA, 1993.
11. Computation procedures for radial or axial impeller of centrifugal pumps – SC AVERSA SA, 2001.
12. Computation procedures for diffuser of radial pumps and also for casings, SC AVERSA SA, 2001.
13. Dimension of shafts multistages pumps, computation of equivalent diameter – Review Technique and Technology Nr. 1 / 2003, pag. 37.
14. Computation of gap (error) variation of fluid flow function φ for different numbers of Reynolds, graphical representation of this variation - Review Technique and Technology Nr. 1 / 2003, pag.38.
15. Axial balancing of multistages radial pumps. Computation of system balancing disk and labyrinth – Papers of The National Conference of hydroenergeticians from România, Editura Printech, București 26-27 may 2006, vol. II, pag.439-444.

Books

Sanda Budea – Guide of Centrifugal pumps design– procedures and computation programs, Ed. Printech, Bucharest, 2006.

1 handbook for applications of Renewable sources of energy, in work.

I declare on my word of honour that the information provided above is true and complete.

Date: **2007**

Signature SB