

PERSONAL INFORMATION



Bode Florin Ioan

📍 Cluj-Napoca, Romania

✉ florin.bode@termo.utcluj.ro

Gender Male | Date of birth 16/11/1979 | Nationality Romanian

WORK EXPERIENCE

October 2004 - today **Associate Professor**
Technical University of Cluj-Napoca, Romania

- Teaching and research activities

Business or sector Education / Research

October 2011 - today **Scientific Researcher**
Technical University of Civil Engineering Bucharest, Romania

- Research activities

Business or sector Education / Research

January 2004 - October 2004 **Refrigeration engineer**
SC Rosoos SRL, Cluj-Napoca, Romania

Dimensioning, selling and installation of refrigeration equipment

EDUCATION AND TRAINING

October 2011 - October 2013 **Postdoctoral studies**
Technical University of Civil Engineering Bucharest, Romania

Fluid dynamics analysis for innovative personalized ventilation diffusers for automotive and building applications

October 2004 - June 2010 **Doctoral studies**
Technical University of Cluj-Napoca, Romania

Research regarding thermo-fluidodynamic processes in burners and furnaces in swirling combustion

October 2004 - June 2005 Postgraduate studies

Technical University of Cluj-Napoca
Assisted design of thermal machines with low pollution

October 1999 - June 2004 University studies

Technical University of Cluj-Napoca, Specialization: Thermal machines and equipment
Diploma Project: Air conditioning system design for a complex of offices

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B2	B1	B1

Courses Modeling of thermonergetic processes (year 4), Numerical methods of analysis of flow and thermal fields (Master year 2), Combustion (year 3), Gas dynamics (year 3), Modeling and simulation of fires in constructions (Master year 1)

Computer skills Good knowledge of CFD software: Ansys Fluent, Design Modeler, Ansys Meshing, Pyrosim, Fire Dynamics Simulator.

Other Reviewer for more than 20 scientific journals, including: Building and Environment, Building Simulation, Energy and Buildings, International Journal of Heat and Mass Transfer, International Journal of Thermal Sciences, Journal of Building Engineering, Applied sciences, Building Simulation, Civil engineering journal, Energies, Energy and built environment, Entropy, Journal of cleaner production, Energy reports.

Special Issue Editor: Applied Sciences – MDPI (IF2021: 2.838) 10.02.2021 – 30.11.2022
Urban Sustainability and Resilience of the Built Environments

Interests Ventilation; Personalized ventilation, Heat and mass transfer, Energy efficiency, Computational Fluid Dynamics

ADDITIONAL INFORMATION

Publications

More than 140 scientific articles of which: 26 are indexed by Web of Science having an impact factor (of which 12 as the principal author), 34 are ISI Proceedings Conference Papers. (Of the total works, more than 90 are indexed by SCOPUS)

Books

3 books as first author, Co-author: 3 books and 1 book chapter

1. Florin BODE, Ilinca NĂSTASE, Răzvan CALOTĂ, Mihnea SANDU, Ion ANGHEL, Modeling and simulation of fires in constructions (in Romanian), ISBN 978-606-25-0766-4, 264 pages, MatrixRom Publishing, 2023
2. Florin BODE, Paula UNGURESAN, Combustion and furnaces (in Romanian), U.T. Press Publishing House 2014, ISBN 978-973-662-998-3, 446 pages, (Course / Monograph) 2014
3. Florin BODE, Numerical simulation of thermal transfer processes – Applications (in Romanian), UTPress, Cluj-Napoca, ISBN 978-606-737-505-3, online, address <https://biblioteca.utcluj.ro/files/carti-online-with-cover/505-3.pdf>, (5 modules / applications of laboratory works), 205 pages (A4), 2021
4. Cristiana CROITORU, Ilinca NASTASE, Florin BODE, Ambient quality in the built indoor environment - Comfort, evaluation methods, principles of air distribution (in Romanian), Conspress, 2021, ISBN: 978-973-100-522-5, 500 pages, monograph, 2021
5. Catalin TEODOSIU, Vlad IORDACHE, Mihnea SANDU, Cristiana CROITORU, Florin BODE, Ilinca NASTASE, Scientific research methodology for doctorate (in Romanian), Conspress 2021, ISBN: 978-973-100-521-8, 163 pages, (Course) 2021
6. Florin BODE, Paula UNGURESAN, Combustion and furnaces (in Romanian), U.T. Press Publishing House 2014, ISBN 978-973-662-998-3, 446 pages, (Course / Monograph) 2014
7. Romeo Susan-Resiga, sa, Vortex Dominated Flows – Monograph (in English), Eurostampa Publishing House, 2008 ISBN 978-973-687-659-2, 492 pages, Biblioteca Nationala Romana 532.527, IV 78273 – Chapter 8, Vortex Flows in Fluid Equipments, page 387 -427 (41 pages), Authors: Victor Hodor, Florin Bode, Liviu Ioan Vaida, Calin Vaida, Dan Opruta, Gheorghe Baran, Florentina Bunea, Gabriela Oprina, 2008

Hirsch Index 2022

Hirsch Index Web of Science: 8, Hirsch index SCOPUS: 11, Hirsch index Google Scholar: 14

Research Projects

Principal investigator in 3 national research grants (2007-2008, 2011-2013, 2022-2024);
Project manager in 4 national research grants (2014-2017, 2018-2020, 2020-2022, 2022-2024);
Research and development project director with third parties for 1 project (2021).
Member in 2 European Horizon H2020 projects and more than 20 national research grants and 5 research contracts with third parties (2004-2022).

Total amount of grants managed as project director until 2022: ~330,000EUR

Invited Lectures / Courses

Tianjin University, Tianjin, China, 1-5 November 2019.
Dalian University of Technology, Dalian, China, 6-10 November 2019.
Technical University of Constructions from Bucharest (2017-2022).

Researcher accounts

1. Brainmap

U-1700-031P-0794

<https://www.brainmap.ro/florin-ioan-bode>

2. ORCID

0000-0003-1694-8288

<http://orcid.org/0000-0003-1694-8288>

3. Web of Science

Web of Science ResearcherID: C-3372-2011

<https://www.webofscience.com/wos/author/record/1035862>

4. SCOPUS

SCOPUS ID: 35188701300

<https://www-scopus-com.am.e-information.ro/authid/detail.uri?authorId=35188701300>

5. Sciprofiles

Sciprofiles ID: 902469

<https://sciprofiles.com/profile/902469>

6. Researchgate

<https://www.researchgate.net/profile/Florin-Bode>

- Specializations
1. 20.05.2015-07.06.2015: Specialization on “Structured mesh generation for Computational Fluid Dynamics method on complex geometries”. Lund University, Lund, Sweden, dr. Robert Szasz;
 2. 20.11.2013-22.11.2013: Specialization on CFD Ansys 14.5 software at Politehnica University of Bucharest, REOROM Research Center, certificate: 01923/ November 2013;
 3. 27.08.2013-15.09.2013: Specialization on "Experimental investigations by optical methods for determining the air flow through perforated panels used in ventilation of operating rooms", University of La Rochelle, France, PhD Eng. Amina Meslem;
 4. 10.05.2013-20.05.2013: Specialization on “Experimental investigation on impinging and free jets by means of use of optical diagnostics such as Tomographic PIV and electrodiffusion method”, University of La Rochelle, France, PhD Eng. Amina Meslem;
 5. 12.12.2012-20.12.2012: Specialization on "CFD prediction of airflow in buildings and mesh generation over complex geometries” at Royal Military Academy in Brussels, Department of Mechanics, Brussels, Belgium, Prof. Dr. Ir. Walter Bosschaerts;
 6. 13.08.2010-27.08.2010: Specialization on „Numerical simulation of noise in turbulent unpremixed combustion in burners”, Lund University, Sweden, dr. Robert Szasz;
 7. 13.06.2009-04.07-2009: Specialization on „Installing and utilization of optical diagnostics techniques in the field of turbulent combustion, using new experimental studies based on the use of optical diagnostics such as PIV, PLIF (Planar Laser Induced Fluorescence) and Rayleigh scattering”, INSA, CORIA, Rouen, France, prof. Bruno Renou;
 8. 16.04.2009-25.04.2009: Specialization on „Swirl burner geometry optimization for numerical simulation of gaseous fuels”, Lund University, Lund, Sweden, dr. Robert Szasz;
 9. 25.08.2008-10.09.2008: Specialization on „Numerical methods and applications in transient reactive flow in 3D using LES”, Lund University, Sweden, dr. Robert Szasz;
 10. 18.09.2006-23.09.2006: Specialization on CFD „Numerical Methods in Fluid Dynamics and Applications in FLUENT”, National Centre for Complex Fluids Engineering, “Politehnica” University, Timisoara, Romania;

December 31, 2022

Associate Prof. Dr. Eng. Florin BODE