



Curriculum vitae Europass



Personal Information

Name/Surname **Codruța Călina Bendea**
Address University street, no.1, 410087, Oradea, Romania
Phone +40 259 408106 Mobil: +40 740 371365
Fax +40 259 408406
E-mail cbendea@uoradea.ro
Nationality Romanian
Date of Birth 02 August 1973

Professional Experience

Period 2023 present day
Position Associate professor
Main activities and responsibilities Education and research in Energy Conversion, Production of thermal energy and electricity, Heat pumps, Thermal equipment and installations, Renewable energies, Heat transfer, Refrigerating machines
2003 – now Departmental Erasmus coordinator for International Relations
2008 – now Member of the University of Oradea International Relations Commission
2016 – now Member of the University of Oradea Senate
2017 – now Member of the Internal Quality Auditor
2020 – now Press officer in charge with communication at Faculty of Energy Engineering and Industrial Management
Graduation projects advisor
Research on geothermal energy, ground source heat pumps, district heating , thermal power plants
Name and address of employer University of Oradea, 1 Universitatii street
Type of business or sector Faculty of Energy Engineering and Industrial Management
Period 2001-2023
Position Lecturer

Main activities and responsibilities	Education and research in Thermodynamics, Production of thermal energy and electricity, Heat pumps, Energy audits, Reliability, Thermal equipment and installations, Renewable energies, Heat transfer, Refrigerating machines, Energy conversion 2003 – now Departmental Erasmus coordinator for International Relations 2008 – now Member of the University of Oradea International Relations Commission 2016 – now Member of the University of Oradea Senate 2020 – now Press officer in charge with communication at Faculty of Energy Engineering and Industrial Management
	Graduation projects advisor
	Research on geothermal energy, ground source heat pumps, district heating , thermal power plants
Name and address of employer	University of Oradea, 1 Universitatii street
Type of business or sector	Faculty of Energy Engineering and Industrial Management
Period	1996 – 2001
Position	Assistant professor
Main activities and responsibilities	Education and research in Thermodynamics, Thermal machines, Heat transfer, Basic Energy Engineering, Renewable energies
	Research on geothermal energy
Name and address of employer	University of Oradea, 1 Universitatii street
Type of business or sector	Faculty of Energy Engineering and Industrial Management

Education and training

Period	2000 - 2010
Title of qualification awarded	Doctoral Diploma PhD Thesis: Research on the energy and availability performances of ground source heat pumps
Name and type of organization providing education and training	University of Oradea Faculty of Energy Engineering
Period	1996 - 1997
Title of qualification awarded	Master Degree in Energy Engineering / Utilization of Geothermal and Solar Energy Diploma
Name and type of organization providing education and training	University of Oradea Faculty of Energy Engineering
Period	1991 - 1996
Title of qualification awarded	Engineer / Energy Engineer for Industry Diploma
Name and type of organization providing education and training	University of Oradea Faculty of Energy Engineering

Short courses, Trainings and Workshops

May-June 1994 International Summer School for Direct Use of Geothermal Energy, "District heating and industrial uses" held in Felix Spa, Romania

May 1995 Short Course „Writing Proposals for Financing Geothermal Projects, International Geothermal Research Centre, in Pisa, Italy

Oct. 1997 International Summer School for Direct Use of Geothermal Energy, "Geothermal District heating Systems" Cesme, Turkey

Oct. 1999 International Summer School for Direct Use of Geothermal Energy, "Geothermal District heating Systems" organized at GeoHeat Centre, Oregon Institute of Technology, Klamath Falls, Oregon, U.S.A.

May 2001 European Summer School for Geothermal Energy Utilization, University of Oradea, Romania

Sept. 2002 International Course on District Heating and Agro-Industrial Utilization of Geothermal Energy, organized by Aristoteles University of Thessaloniki, Greece

April 2009 Seminar on "Large Scale Introduction of Ground Source Heat Pump Systems in Building Areas", organized in the framework of Ground-Reach project (financed by EU), Oradea

May 2009 Seminar on „Development of managerial and organizational competences in energy sector"

October 2010 Course GEOTRAINET "First Romanian Course for Drillers and Designers of Heating / Cooling Systems (HVAC) by Using Ground Source Heat Pump Systems (GSHP)" Bucuresti, 4-5 octombrie 2010

June 2012 International Summer School for Direct Use of Geothermal Energy, Training Course held at International Geothermal Days – Romania, 2012

June 2012 Training Course on „Ground Coupled Heat Pump Systems Used for Heating and Cooling", organized in the framework of GROUND-MED (financed by EU), Băile Felix.

May 2016 Training Course on „Geothermal Energy Utilization" organized in the frame of *Geothermal Training for Romanian Professionals by the Geothermal Training Programme of the United Nations University in Iceland* project

Oct.-Nov. 2020 Training course on "Communication in English", Oradea, organized in the frame of CNFIS-FDI-2020-0460 project

Personal skills and competence

Mother tongue Romanian

Other languages English (Excellent in reading, writing, and speaking), French (Very good in reading, writing, and speaking), Hungarian (Good in speaking)

Competences and abilities

- Social skills – ability to adapt to multicultural environment: participate to mobility programs, international conference and congresses in USA, Chile, South africa, Germany, Austria, Greece, Italy, Turkey, Israel, Jordan
- Communication skills
- Organizing skills – secretary of the Romanian Geothermal Association in 2008-2014

Main organizer of the Workshop on "Large scale introduction of hybrid heat pumps" in 2013, November

Additional information

- books and manuals: 8
- scientific papers published in journals or conference proceedings: 79
- national and international research grants (director or member): 15
- research contracts with the socio-economic (director or member): 4
- member of editorial board or scientific committees of scientific journals / conferences: 3
- reviewer for scientific journals / conferences: 2
- member of national and international professional associations: 2

LIST OF RELEVANT SCIENTIFIC PAPERS

O. Neamțu, M. Roșca, **C. Bendea**: *Monitoring and Data Acquisition System for a Geothermal Heat Pump*, International Symposium on Fundamentals of Electrical Engineering ISFEE2014, Bucuresti, 28-29 noiembrie 2014, (ISBN 978-1-4799-6820-6)

Bendea, C., Antal, C., Georgescu, F., Popa, B., Popa, F.: *Thermal Energy Production from Closed Geothermal Reservoirs Using Reinjection*, Proceedings of the 8th International Conference on Energy and Environment CIEM2017, Bucuresti 19-20 octombrie 2017 (ISBN 978-1-5386-3943-6/17)

Roșca, M., **Bendea, C.**, Vijdea, A. M.: *Mineral and Thermal Waters of Romania*, in *Mineral and Thermal Waters of Southeastern Europe*, Springer International Publishing Switzerland, 2016, pp. 97-114, ISBN 978-3-319-25377-0

Secui, D.C., Hora, C., Bendea, G., **Bendea, C.** - *Parameter estimation using a modified whale optimization algorithm for input-output curves of thermal and hydro power plants*, International Transactions on Electrical Energy Systems, Volume 30, Issue 2, Febr. 2020, Article Number e12188, factor de impact: 2,639 WOS, ISI

Bendea, G., Prada, M., **Bendea, C.**, Secui, C. - *Ground Coupled Heat Pump Systems – A Key for a Sustainable Development of Heating and Cooling Buildings*, Recent Advances in Environmental Science - Proceedings of the 9th International Conference on Energy, Environment, Ecosystems and Sustainable Development (ISSN: 2227-4359, ISBN: 978-1-61804-167-8), Lemesos, Cyprus, March, 2013, pp. 133-138

Bendea, C., Rosca, M., Bendea, G., Karytsas C. - *Solar Energy Used for Heating and Cooling Systems*, Nonconventional Technologies Review (ISSN 1454-3087), Volume XVII, No. 1, April, 2013, pp. 10-15

Bendea, C., Rosca, M., Bendea, G., Karytsas C. - *Solar Energy Used for Heating and Cooling Systems*, Nonconventional Technologies Review (ISSN 1454-3087), Volume XVII, No. 1, April, 2013, pp. 10-15

LIST OF RELEVANT GRANTS

Reaching the Kyoto targets by means of a wide introduction of ground coupled heat pumps (GCHP) in the built environment (GROUND-REACH), finanțed by the European Commission (Contract No. EIE/05/105), 2006-2009 (19.000 €)

High Solar Fraction Heating and Cooling Systems with Combination of Innovative Components and Methods, (acronim HIGH-COMBI), financed by the European Commission (Contract No. TREN/07/FP6EN/S07.68923/038659, 2007-2011 (38.500 €).

Advanced ground source heat pump systems for heating and cooling in Mediterranean climate (acronim GROUND-MED), nr. 218895 FP7-ENERGY-2007-2-TREN, Funding scheme CP, 2008-2013 (338.040 €, 52%).

Study on the local thermal energy supply strategy of Oradea municipality in order to access non-reimbursable funds within the Environmental Sectoral Operational Project - axis 3 Heating, Contract nr. 168033/22.06.2010 (20000 RON)/2022, period 2022-2023

08.11.2024

Assoc. Prof. Codruța Călina Bendea

