






PERSONAL INFORMATION



Francesco Tariello

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Place and date of birth Caserta (Italy), 15/05/1986 | Nationality Italian

WORK EXPERIENCE

June 2021 - today

Assistant Professor for the academic discipline “Thermal Engineering and Industrial Energy Systems” ING-IND/10

University of Molise, 1, via de Sanctis, Campobasso, 86100, ITALY

Professor of: Applied Thermodynamics and Hospital technical plants

March 2018 – May 2021

Research Fellow for the academic discipline “Thermal Engineering and Industrial Energy Systems” ING-IND/10

University of Molise, 1, via de Sanctis, Campobasso, 86100, ITALY

Professor of: Applied Thermodynamics and Hospital technical plants

EDUCATION AND TRAINING

March 2012 – February 2015

Ph.D. grant in "Engineering of Mechanical Systems"

University of Naples Federico II, Post Graduation School of Industrial Engineering

Thesis entitled "Thermo-economic analysis of solar heating and cooling systems"

March 2009 – October 2011

Master Degree in Energy Engineering with 110/110 ad honours

University of Sannio – Faculty of Engineering, Benevento, Italy

Dissertation in Applied Thermodynamics titled: "Analysis of a solar cooling plant serving an office building"

October 2005 – February 2009

Bachelor Degree in Energy Engineering with 110/110 ad honours

University of Sannio – Faculty of Engineering, Benevento, Italy

Dissertation in Renewable Energy Technologies titled: "Solar cooling: applications in residential and tertiary sectors"

September 2000 – July 2005

Scientific High School diploma, with 100/100

Liceo Scientifico "A. DIAZ", Caserta, ITALY

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
English				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Advanced Computer Skills with the main programs of Microsoft Office. Expert user of:

- dynamic simulation software such as "TRNSYS" for applications in the field of energy saving of the building / plant system and renewable energy sources;
- programming software such as MATLAB;
- 2D CAD software.

Organisational / managerial skills

Ability to work in group and alone, currently collaborate with an interuniversity group of 10 people.

Job-related skills

The scientific activity is focused mainly on analyses aimed at the evaluation of energy performances of renewable and conventional energy-driven conversion plants. In more detail, the research topics addressed can be grouped into three macro-areas. In the context of solar-based air conditioning systems, known as Solar Heating and Cooling (SHC) systems, were considered thermal activated air handling units with desiccant wheels and systems based on heat pumps with electrical or thermal activation. In addition, polygeneration and air conditioning systems powered by fossil and renewable sources were also treated. These researches are mainly based on the results of dynamic simulations and concern issues of energy and technologies for the exploitation of renewable sources. The approach followed in most of them is the comparison of the innovative system proposed with the system conventionally used to achieve the same goal in the local reality considered from an energy, environmental and economic point of view. Currently he is carrying out research activities in the field of thermal comfort in healthcare facilities.

Driving licence

Driving licence category B

ADDITIONAL INFORMATION

Bibliometric Indicators

SCOPUS: h-Index 12, Citations 436, papers 32 (last update 21/10/2022)

Scientific activities

- He is author / co-author of more than 50 publications on national and international journals, presented at national and international conferences, or chapter of handbooks.
- He is reviewer for several international journals: Renewable Energy, Applied Energy, Applied Thermal Engineering, Energy and Buildings, Energy Conversion and Management, Energy, Sustainable Cities and Society, Sustainability, Entropy, Buildings, Energy and Environment, International Journal of Renewable Energy Technology, International Journal of Energy and Environmental Engineering, Energy Reports.
- He was Guest Editor of the Special Issue of the International Journal Sustainability titled: "Sustainable Management of Solar Energy".

Publications (list of the 5 most relevant publications)

- F. Calise, M. Dentice d'Accadia, C. Roselli, M. Sasso, F. Tariello, Desiccant-based AHU interacting with a CPVT collector: Simulation of energy and environmental performance, Solar Energy 103 (2014) 574–594. ISSN: 0038092X, DOI: 10.1016/j.solener.2013.11.001.
- G. Angrisani, C. Roselli, M. Sasso, F. Tariello, Dynamic performance assessment of a microtrigeneration system with a desiccant-based air handling unit in Southern Italy climatic conditions, Energy Conversion and Management 80 (2014) 188–201. ISSN: 01968904, DOI: 10.1016/j.enconman.2014.01.028.
- F. S. Marra, G. Angrisani, K. Bizon, R. Chirone, G. Continillo, G. Fusco, S. Lombardi, F. Miccio, C. Roselli, M. Sasso, R. Solimene, F. Tariello, M. Urciuolo, Development of a new concept solar-biomass cogeneration system, Energy Conversion and Management, 75 (2013) 552–560. ISSN: 01968904, DOI: 10.1016/j.enconman.2013.06.042.
- G. Angrisani, E. Entchev, C. Roselli, M. Sasso, F. Tariello, W. Yaïci, Dynamic simulation of a solar heating and cooling system for an office building located in Southern Italy, Applied Thermal Engineering 103 (2016) 377–390. ISSN: 13594311, DOI: 10.1016/j.applthermaleng.2016.04.094.
- C. Roselli, G. Diglio, M. Sasso, F. Tariello, A novel energy index to assess the impact of a solar PV-based ground source heat pump on the power grid, Renewable Energy 143 (2019) 488–500. ISSN: 09601481, DOI: 10.1016/j.renene.2019.05.023.

Projects

List of participation in research projects with national and international research groups:

- International project ZERO CO₂ Interreg Europe - Promotion of near zero CO₂ emission buildings due to energy use. From January 2022. Participant as referent for the University of Molise.
- National project PRIN 2017 – SUSTAIN/ABLE - Simultaneous Structural And energetic reNOvAtion of Buildings through innovative solutions. From September 2019. Participant in Research Unit of University of Molise.
- National project. SMARTCASE – Soluzioni innovative Multifunzionali per l'ottimizzazione dei Consumi di energia primaria e della vivibilità indoor del Sistema Edilizio, MIUR – Italian Ministry of Education, Universities and Research, Managerial Decree n.789 06/03/2014. October 2013 - November 2017. Participant in Research Unit of University of Sannio.
- Three-year project of the International Energy Agency, "Annex 54, Analysis of Micro-Generation & Related Energy Technologies in Buildings ", Participant in Research Unit of University of Sannio.
- National project MEGARIS (Micro Electric Generator from Alternative Renewable energy Innovative Stirling engine), financed by the Ministry of the Environment and the Protection of the Territory and the Sea as part of the call for research projects aimed at encouraging energy efficiency and the use of renewable energy sources in urban areas (GU n.297 of 22.12 .2009).
- POR Campania FSE 2007/2013 POLIGRID project - "Smart Grid with Distributed Polygeneration Systems". Participant as a Ph.D. Student in Research Unit of University of Sannio.

Other institutional activities

- He has been part of the board for PhD program of "Technologies and Innovation in Medicine" of the University of Molise since April 2022.
- He has been the Coordinator of the Quality Management Unit of the Bachelor's degree program of Medical Engineering since July 2021.
- He has been the Referent for the University of Molise in Italian University Network for Sustainable Development (RUS) since July 2021.
- He was a member of:
 - The Selection Committee for the PhD Course in "Technologies and Innovation in Medicine" of the University of Molise (August-September 2022).
 - The Joint Commission Professors-Students of the Department of Medicine and Health Sciences – "Vincenzo Tiberio" of University of Molise from January 2020 to May 2021.
 - The Commission for European tendering procedure for the award of the supply and installation of a mass spectrometer (May 2021).
 - The Commission for the assignment of the Operation, Maintenance and Energy Efficiency Service of the Heating and Cooling Plants of the University of Molise Buildings, including maintenance and energy refurbishment interventions to the heating system of the Second Multi-purpose Building located in Campobasso and the Student Residences of Pesche (IS) and the installation of a photovoltaic system serving Student Residences of Vazzieri, (May 2021).
 - The Commission of Examiners of the State Exam for the qualification to the profession of engineer first and second section year 2020.
 - The Commission for the assignment of a research fellowship entitled: "Engineering of monoclonal antibodies for diagnostic and therapeutic purposes" (December 2020).
 - The Commission for the assignment of a research fellowship entitled: "Energy fragility curves of reinforced concrete buildings" (June 2020).
 - The Commission for the assignment of a research fellowship entitled: "Seismic behavior of strategic steel structures founded on liquefiable soils through advanced numerical analyzes" (July 2022),
 - The Commissions for the selection of the Prevention and Protection Service Head of University of Molise (May-June 2019 and August 2022).

"According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV"

Date: 21/10/2022

Signature
Tariello Francesco