



PERSONAL INFORMATION

Fabio Polonara



Dipartimento di Ingegneria Industriale e Scienze Matematiche (DIISM)
Università Politecnica delle Marche (UNIVPM)

Via Brecce Bianche, 60131 Ancona - Italy

 www.univpm.it/fabio.polonara

Sex Male | Date of birth 31/10/1955 | Nationality Italian

WORK EXPERIENCE

(from 03/2001 →)

Full professor of Thermal Sciences (SSD ING-IND/10)

School of Engineering - Università Politecnica delle Marche (UNIVPM), Via Brecce Bianche, 60131 Ancona - Italy

- University professor

University

(from 11/2018 →)

Co-ordinator of the Independent Evaluation Unit (Nucleo di Valutazione)

Università Politecnica delle Marche (UNIVPM), Piazza Roma, 22, 60121 Ancona - Italy

- Coordinator of the Independent Evaluation Unit

University

(from 1/2015 →)

Member of Technical and Economic Assessment Panel (TEAP)

Montreal Protocol - United Nations Environment (UNEP) – Nairobi, Kenya

- Expert support to parties of Montreal Protocol

United Nations

(from 1/2015 →)

Co-chair of Refrigeration Technical Option Committee (RTOC)

Montreal Protocol - United Nations Environment (UNEP) – Nairobi, Kenya

- Expert support to parties of Montreal Protocol

United Nations

(from 5/2014 →)

Member of Central Research Commission (CRC)

Free University of Bolzano/Bozen - Italy

- Planning and evaluation of research activities

University

(from 12/2012 →)

National delegate of Italy by appointment of Ministry of Foreign Affairs

International Institute of Refrigeration (I.I.R.) – Paris, France

- National delegate

Scientific research

(from 1/2000 →)

Member of Commissions for the appointment of university professor

Università di Bari, Bolzano, Marche, Molise, Napoli Federico II, Padova, Palermo, Perugia, Pisa,

Roma La Sapienza, Roma3, Sannio, Politecnici di Bari e Torino, Istituto per le Tecnologie della Costruzione del CNR, Istituto Nazionale di Ricerca Metrologica

- Evaluation of appointment candidates

University or Public Research Institutes

- (from 11/2012 to 10/2018) **Director of Dipartimento di Ingegneria Industriale e Scienze Matematiche**
Università Politecnica delle Marche- Via Breccie Bianche – 60131 Ancona, Italy
- Director
- University
- (from 11/2008 to 6/2011) **Director of Dipartimento di Energetica**
(merged into DIISM on 1/1/2011 according to Law 240/2010)
Università Politecnica delle Marche- Via Breccie Bianche – 60131 Ancona, Italy
- Director
- University
- (from 2/2017 to 2/2020) **National coordinator of PRIN2015 project**
Project “Clean Heating and Cooling Technologies for an Efficient Smart Grid” (Prot. 20015M8S2PA)” funded within PRIN2015 framework (Progetti di Ricerca di Interesse Nazionale) by Ministry of University and Research of Italy
- Academic research
- University
- (from 1/2012 to 12/2019) **Vice-president of Commission A2 (liquefaction of gases)**
International Institute of Refrigeration – Paris, France
- Support to R&D
- Scientific research
- (from 1/2008 to 12/2011) **Vice-president of Commission B2 (thermodynamic and transport properties)**
International Institute of Refrigeration – Paris, France
- Support to R&D
- Scientific research
- (from 2003 to 2014) **Coordinator of working group for energy planning at Regione Marche**
Università Politecnica delle Marche, Via Breccie Bianche – 60131 Ancona, Italy
- Coordination of working group preparing the Energy and Environment Regional Plan (PEAR) for Regione Marche regional Government
- Support to Local Government
- (from 2006 to 2013) **Coordinator of working group for energy planning at Provincia di Ascoli P.**
Università Politecnica delle Marche, Via Breccie Bianche – 60131 Ancona, Italy
- Coordination of working group preparing the Energy and Environment Provincial Plan (PEAP) for Provincia di Ascoli Piceno provincial Government
- Support to Local Government
- (from 11/2001 to 10/2008) **Vice-Director of Dipartimento di Energetica**

Università Politecnica delle Marche- Via Brecce Bianche – 60131 Ancona, Italy

▪ Vice-Director

University

(from 11/1997 to 2/2001)

Associate professor of Thermal Sciences (SSD ING-IND/10)

School of Engineering - Università Politecnica delle Marche (UNIVPM), Via Brecce Bianche, 60131 Ancona - Italy

▪ University professor

University

(from 3/1988 to 10/1997)

University researcher of Thermal Sciences

School of Engineering - Università Politecnica delle Marche (UNIVPM), Via Brecce Bianche, 60131 Ancona - Italy

▪ University researcher

University

(from 5/1982 to 10/1984)

Mechanical Engineer

Polonara Romano srl, Via Botticelli, 2 – Senigallia (AN), Italy

▪ HVAC design

HVAC installer

EDUCATION AND TRAINING

(from 1984 to 1987)

Doctor of Philosophy (PhD) in Thermal Sciences

Replace with EQF (or other) level if relevant

Università di Ancona, Via Brecce Bianche 22, 60121 Ancona, Italy

▪ Applied Thermodynamics and Heat Transfer

(from 1974 to 1981)

Mechanical Engineering degree

Replace with EQF (or other) level if relevant

Università di Ancona, Via Brecce Bianche 22, 60121 Ancona, Italy

▪ Mechanical Engineering

(from 1969 to 1974)

Maturità Classica

Replace with EQF (or other) level if relevant

Liceo Classico “G. Petricari” – Senigallia (AN), Italy

▪ Classic studies high school

PERSONAL SKILLS

Mother tongue(s) ITALIAN

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	listening	reading	interaction	production	
ENGLISH	C1	C2	C1	C1	C1
FRENCH	A2	B1	A2	A2	A2

Job-related skills

Teaching activities: Since 1989 he has been teaching university courses in the fields of Thermal Sciences to students of the Schools of Agriculture, Architecture and Engineering. Presently he teaches **Thermal Sciences** to the students of the Mechanical Engineering undergraduate course and **Design of Thermal Systems** to the students of the Mechanical Engineering master course at the School of Engineering of the Università Politecnica delle Marche
During the years he has been the advisor of over 130 master thesis in Mechanical Engineering.

Research activities: the research activity focuses on Energetics and Applied Thermodynamics fields (energy planning at local level, biofuels, fuel cells, demand side management and energy flexibility, refrigeration and heat pumps, liquefied natural gas) and on Equilibrium properties of fluids (experimental analysis of thermodynamic properties of refrigerants and biofuels)
He is member of the editorial board of scientific journal "Energies"
He is reviewer for many scientific journals in the Thermal sciences fields.
He is reviewer of research projects for many international bodies.
He has been the advisor of 15 PhD candidates and 10 post-doc researchers.

Digital skills

MS Office package (Excel ecc.) and reporting tools.
Microsoft operative systems.
Thermodynamic simulation tools.

ADDITIONAL INFORMATION

Publications

His research activities are documented in more than 220 papers, published on international and national journals and presented at international and national conferences.

BIBLIOMETRIC INDEXES:

The SCOPUS database, addressed on April 21, 2022, shows the following results: Documents: 130, Citations: 2912, Hirsch-index: 28



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Fabio POLONARA

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Applied Thermal Engineering, vol. 152, p. 543-550, 2019. ISSN: 1359-4311,
DOI: 10.1016/j.applthermaleng.2019.02.101
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Energy flexible buildings: A methodology for rating the flexibility performance of buildings with electric heating and cooling systems.
Applied Energy, vol. 251, 2019. ISSN: 0306-2619,
DOI: 10.1016/j.apenergy.2019.113387
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On the numerical simulation of sand transport in liquid and multiphase pipelines.
Journal of Petroleum Science and Engineering, vol. 175, p. 519-535, 2019.
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- 221) S.Tomassetti, M.Pierantozzi, G.Di Nicola, F.Polonara, J.S.Brown
Vapor-Phase PvTx Measurements of Binary Blends of cis-1,2,3,3,3-Pentafluoroprop-1-ene + Isobutane and 3,3,3-Trifluoropropene+Isobutane.
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- 220) A.Arteconi, F.Caresana, G.Cesini, G.Comodi, F.Corvaro, V.D'Alessandro, G.Di Nicola, G.Latini, M.Pacetti, M.Paroncini, G.Passerini, L.Pelagalli, F.Polonara, R.Ricci
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- 218) A.Lauri, A.Arteconi, L.Casalena, F.Polonara
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- 217) A.Arteconi, D.Fiaschi, L.Cioccolanti, C.M.Bartolini, F.Polonara
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8th International Conference on Applied Energy, ICAE 2016; Beijing; China; October 2016
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Journal of Chemical and Engineering Data, Volume 61, Issue 9, 8 September 2016, Pages 3346-3354
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- 201) A. Arteconi, G. Ciriachi, M. Acar, N. Bilgin, F. Polonara,
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- 200) A. Arteconi, J. Xu, E. Ciarrocchi, L. Paciello, G. Comodi, F. Polonara, Wang. R.,
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