

Curriculum Vitae

Prof. Eng. GIORGIO BALDINELLI, Ph. D.

GENERAL INFORMATION

Giorgio Baldinelli was born in Perugia on May 11, 1971.

Contact:

Institutional address: University of Perugia, Department of Engineering, Via Duranti 93 - 06125 Perugia (Italy)

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EDUCATION AND TRAINING

Ph.D. in Industrial Engineering at the University of Perugia with the thesis: "Testing of sound insulation ventilating windows" - Scientific Disciplinary Sector: ING-IND/11 (Environmental Applied Physics).

3 research grants at the University of Perugia:

- October 2005 - September 2007 "Methods for the implementation of strategic noise mapping";
- November 2003 - June 2005 "Development of an innovative solar-powered integrated system for data measuring and acquisition of environmental parameters";
- November 1999 - October 2003 "Spectrophotometric measurements on solids and gases".

Technical Expert in acoustics (Register of Region of Umbria since 2002).

Qualification for the practice of Engineering Profession in May 1996, membership of the Professional Association of Engineers (Province of Perugia) with the number 1600.

Degree in Mechanical Engineering (2 April 1996) at the University of Perugia, mark: 110/110 cum laude. Thesis work: "Ethyl alcohol fuelled engines".

Specialization courses:

- "Experimental thermo-fluid-dynamics and measurement techniques," Summer School of thermo-fluid-dynamic Pontignano, Siena (Italy), September 2003.
- "Computational thermo-fluid-dynamics", Summer School of thermo-fluid dynamic Pontignano, Siena (Italy), September 2001;
- "Specialization Course for Fire protection (L. 818/84) (Register of the Ministry of the Interior, Code PG01600I00344), 2001.

FOREIGN LANGUAGES:

English:

- Cambridge ESOL Certificate in Advanced English (CAE), June 2006 (Level C1);
- Test of English as a Foreign Language (TOEFL), in June 2000, score: 243/300 - Computer Based (590/677 - Paper Based).

Spanish:

- Diploma de Español como Lengua Extranjera (DELE), Intermediate (Level B2)., 2007.
- Curso Superior de lengua y mensual Latin culture, Universidad de Salamanca, 2000.

French:

- Cours de Français général, 2015.

SCIENTIFIC ACTIVITY

Winner of the public competition for the position of Associate Professor in Industrial Applied Physics (Scientific Disciplinary Sector: ING-IND/10) at the University of Perugia, in June 2022. Associate Professor in Industrial Applied Physics at the University of Perugia from 20 June 2022 to date.

Winner of the public competition for the position of Permanent Researcher in Industrial Applied Physics (Scientific Disciplinary Sector: ING-IND/10) at the University of Perugia, in March 2012. Permanent Researcher in Industrial Applied Physics at the University of Perugia from 1 June 2012 to 19 July 2022.

Winner of the public competition for the position of Fixed-term Researcher in Environmental Applied Physics (Scientific Disciplinary Sector: ING-IND/11) at the University of Perugia, in March 2008. Fixed-term Researcher in Environmental Technical Physics at the University of Perugia, from May 2008 to May 2012.

Italian National Scientific Qualification as Full Professor obtained in September 2019.

Member of the Department of Engineering at the University of Perugia.

RESEARCH ACTIVITY

He participated and participates to the following international, European and National research projects:

- Advanced Noise Control strategies in HarbOuR (ANCHOR) funded under the LIFE+ 2017 Programme (Operative Unit Coordinator).
- Organization for Nuclear Research (CERN) in Geneve. Within the cooperation, he is the responsible of the thermal studies on the Tracker for the Phase 2 upgrade of the experiment "Compact Muon Solenoid (CMS)", inside the particle accelerator "Large Hadron Collider (LHC)".
- "Energy simulation of demo buildings" and "Characterisation through experimental measurements of the thermophysical properties of concrete panels, traditional and innovative", projects in cooperation with the Joint Research Centre (Ispra) of European Union.
- "E-mobility and sustainable materials and technologies" (EMMAT), in cooperation with Cracow University of Technology under the International Academic Partnership Programme announced by the National Agency for Academic Exchange.
- "Strengthening Capacities for Implementation of Environmental Legislation at Local Level" between CIRIAF and Rambøll Danmark A/S within the project EuropeAid/134079/D/SER/MK.
- "Thermal analysis of lightweight transparent façades" between CIRIAF and University of Cambridge - Department of Engineering.
- The development and verification of a novel modular air cooled condenser for enhanced concentrated solar power generation (MACCSol), funded under the Seventh Framework Programme, call Energy.

- Municipalities Subsidiarity for Actions on Energy (MUSAE), funded under the LIFE+ 2011 Programme (Operative Unit Coordinator).
- Noise Abatement demonstrative and Innovative Actions and information to the public (NADIA), funded under the LIFE+ 2009 Programme.
- Programme of scientific and technological cooperation between Italy and Argentina, "Quantitative indicators of the urban life quality: energy aspects and reduction of greenhouse gases emissions".
- VIGONI Research Project: Italy-Germany collaboration between the University of Perugia and the Technical University of Berlin; title: "Theoretical and experimental study on solar absorption refrigerating machines."
- British-Italian Joint Research Programme between the University of Perugia and the University of Bradford; title: "Multi-functional Sustainable Materials for Noise Control".
- The role of the construction sector on climate change GENIUS LOCI (FISR - Special Integrative Fund for Research; Call for the implementation of strategic programs).
- Eco-friendly technologies for the recovery and the energy exploitation of raw glycerine as a by-product of the biodiesel production chain (TERVEG) – Research project in "bio-energy" sector funded by the Ministry of Agriculture, Food and Forestry, Sector "Development of specific programs for the recovery of by-products in the biodiesel supply chain".
- Heat recovery from domestic wastewater of buildings (Warm flow). Call for the funding of research projects aimed at energy efficiency actions and use of renewable energy sources in urban areas - (Italian Ministry for the Environment, and the Protection of Land and Sea).
- Zero-emission vehicles for postal services, with an integrated biofuels cycle (POSTALZEV), Ministry for the Environment, and the Protection of Land and Sea - Call for the funding of research projects aimed at energy efficiency actions and use of renewable energy sources in urban areas.
- "Inverse thermodynamic cycles for refrigeration and heat pumps: development of low environmental impact solutions - Unconventional Cooling systems" – National Interest Research Projects (PRIN).
- "Absorption refrigeration system integrated with low environmental impact innovative systems" - National Interest Research Projects (PRIN).
- COANAN (Animal Registry Consortium): "Research and development of systems and processes with high technological content to ensure food security", funded within the "Invitation to present research and technological development projects in strategic sectors for the South of Italy (agro-industry, environment, cultural heritage, transportation)"; Italian Ministry for the Teaching, University, and Research.

In addition, he is a reviewer for the following International Journals (in brackets the number of scientific publications revised, for a total of more than 100 papers):

- Energy and Buildings (24);
- Applied Energy (15);
- Solar Energy (8);
- Applied Thermal Engineering (8);
- Building and Environment (5);
- Energy (6);
- International Journal of Refrigeration (3);
- Journal of Building Acoustics (9);
- Biomass and Bioenergy (2);
- Journal of Energy Storage (1);
- International Journal of Multiphase Flow (1);
- International Journal of Thermal Sciences (2);
- International Journal of Heat and Mass Transfer (2);
- Nuclear Instruments and Methods in Physics Research Section A (1);

- Measurement (2)
- Habitat International (1)
- Science of the Total Environment (1);
- Sustainability (2);
- Journal of Cleaner Production (1);
- Journal of Building Engineering (4);
- Energy Conversion and Management (1);
- Resources, Conservation & Recycling (1);
- Environment, Development and Sustainability (1);
- Geoscience and Remote Sensing Letters (1);
- Engineering Science and Technology, an International Journal (1);
- Building Simulation (1);
- Sustainable Cities and Society (1);
- Remote sensing (1);
- Energies (1);
- Energy Reports (1);
- Engineering Sustainability (1);
- SCIO Biomedicine (1);
- Architectural Engineering and Design Management (1).

Holder of the international Patent number n. WO 2017/141203 A1, "Procedure for obtaining raw material resulting from waste material", released by the European Patent Office (n. EP 3416758 B1) and extended to the United States of America (n. US 20190375990).

Holder of the Patent number 102016000003603 "Apparatus for the execution of experimental tests", released by the Italian Patent and Trademark Office.

Holder of the Patent number 102016000112268 "Enthalpy heat exchangers with of the sulphured aromatic polymeric membranes and procedure for the preparation of the membranes", released by the Italian Patent and Trademark Office.

Holder of the Patent number 000028070784 for the utility model "Experimental apparatus for the measurement of thermal transmittance of building elements", released by the Italian Patent and Trademark Office.

PARTICIPATION TO CONFERENCES AS SPEAKER

He participated as invited lecturer at the following International Conference:

Internoise 2012, New York, August 2012.

He participated as speaker at the following International Conferences:

- 1) INTERNATIONAL CONGRESS ON SOUND AND VIBRATION 2022, 24-28 July, Singapore.
- 2) BUILDING SIMULATION CONFERENCE 2015, 7-9 December, Hyderabad, India.
- 3) FORUM ACUSTICUM 2014, 7-12 September 2014, Krakow, Poland.
- 4) ASME-ATI-UIT 2010 Conference "Thermal and Environmental Issues in Energy Systems", 16-19 May 2010, Sorrento, Italy.
- 5) CLIMATE 2010, 10th World Congress REHVA "Sustainable Energy Use in Buildings", 9-12 March 2010, Antalya, Turkey.
- 6) Internoise 2009, Ottawa, August 2009.
- 7) ThETA 2. 2nd International Conference on Thermal Issues in Emerging Technologies - Theory and Application, December 2008, Cairo.
- 8) International Congress of Refrigeration, August 2007, Beijing.
- 9) SET 2006, 5th International Conference on Sustainable Energy Technologies, 30 August 1 September 2006, Vicenza.

He has also participated as speaker at numerous national Conferences, Workshops and Seminars (the National Congresses of the Italian Thermotechnical Association, the Conferences of the Italian Union of Thermal-Fluid Dynamics, the National Conferences of the Italian Association of Acoustics, the Conferences of the Italian Association for Air Conditioning, Heating and Refrigeration, and more).

PROJECT ACTIVITIES

Within the activities of the Engineering Department and CIRIAF Labs, he is involved in several applied researches, in collaboration with several companies; the most significant are following listed: IKEA Italy, Autostrade per l'Italia, SAPA Profiles Spa, Toppetti2 Ltd., Barbetti Cement production Spa, Eurolegno, Meccano, Metalmeccanica Umbra, Piselli Cave Ltd, Profilumbra Spa, SGM Engineering, Allumina Spa.

He is involved in various conventions and research activities commissioned by local authorities (Municipalities, Province of Perugia, Umbria Region, ARPA - Regional Agency for Environment Protection); the most significant are following listed:

- Region Umbria: "LR 01/28/03 N.23 - Monitoring of experimental interventions of bioarchitecture and energy saving, within the Annual Operative Program 2005 and 2006", 2009-2012.
- Province of Perugia: "Study and verification of the acoustic quality of school buildings owned by the Province of Perugia", 2009.
- Municipality of Perugia. "Updating of the Energy and Environmental Plan of the Municipality of Perugia", 2011-2011.

Since 2006 he is a firm of an academic spin-off (TISS Ltd.) of the University of Perugia. The company is active in energy and environment projects, with particular emphasis to thermal and acoustic properties of building components.

Since 2017 he is the CEO of an academic spin-off (METEXIS Ltd.) of the University of Perugia. The company is active in the realisation of laboratories aimed at entering deeply in the essence of materials and/or components, by measuring and studying simultaneously their behaviour in terms of thermal, hygrometric, radiative, lighting, acoustic, and mechanical properties. METEXIS won the prize for innovation "Start-Cup Umbria 2016".

MEMBERSHIP OF SCIENTIFIC ASSOCIATIONS

He is (has been) a member of the following scientific associations:

- ✓ American Society for Testing and Materials International (ASTM): Committee E06 on Performance of Buildings (E065500: Performance of Building Enclosures) (2014-2018).
- ✓ Unione Italiana Termofluidodinamica (UIT) since 2022.
- ✓ IBPSA Italy (International Building Performance Simulation Association) since 2011.
- ✓ Italian Thermotechnical Association (ATI) since 2009, he has been the Secretary of the same Association from 2010 to 2012.
- ✓ Italian Lighting Association (AIDI).
- ✓ Member of the National Institute for Nuclear Physics (INFN) - Perugia Section - National Scientific Committee 1 (CSN1): Particle physics, since 2017.
- ✓ Member of the Working Group GL 03 "In field measurement of thermal performance of materials, elements and structures" of the Italian Thermotechnical Committee since 2020.

INSTITUTIONAL ASSIGNMENTS

Member of the Ph.D. Commission in Energy and Sustainable Development, University of Perugia, since 2014.

Member of the Ph.D. Commission in Energy Engineering, University of Perugia, from 2010 to 2014.

Member of the Observatory for support to the Third Mission Delegate of the University of Perugia.

Vice Director of the “Centro di Ricerca Interdipartimentale Lamberto Cesari” of the University of Perugia, since 2020.

Member of the Board of the Department of Engineering of the University of Perugia since 2016.

Member of the experts panel of the COST Program “European Co-operation in the Field of Science and Technology” since April 2016. In this area, he carried out the evaluation of one project for the Swiss Confederation - Federal Department of Economic Affairs, Education and Research - State Secretariat for Education Research and Innovation.

Member of the experts panel of the Czech Science Foundation within the Program “Support of Research, Experimental Development and Innovation from Public Funds and on Amendments to Some Related Act” from July 2018.

Member of the experts panel of the Fond National de la Recherche Luxembourg within the Program “CORE - Multi-annual thematic research programme” from August 2021.

Member, since 2010, of the experts panel of the Italian Ministry for the Teaching, University, and Research (MIUR), with competences in the Disciplinary Area 09 (Industrial Engineering and Information Technology Engineering, Scientific Disciplinary Sector ING-IND/10: Industrial Applied Physics, and ING-IND/11: Environmental Applied Physics). In these areas, from 2010 to date, he carried out for MIUR the evaluation of 4 projects within the program “Futuro in ricerca 2013”, 3 projects within the program “SIR 2014”, 13 projects within the Italian evaluation of the Quality of Research programme and 9 projects within the National Interest Research Projects (PRIN) 2017. Besides, he evaluated more than 30 research and innovation projects presented within the program of the Innovation Clusters of Piemonte Region (Italy), 6 projects presented on the call “Sea Technologies and Smart Health” of Friuli Venezia Giulia, 9 projects for Enterprises Research and Development presented within the POR-FESR 2014-2020 of Emilia Romagna Region (Italy), 10 projects for Enterprises Research and Development presented within the POR-FESR 2014-2020 of Toscana Region (Italy) and 10 projects for Enterprises Research and Development presented within the POR-FESR 2014-2020 of Puglia Region (Italy).

Member of the inspection teams established at the Gestore dei Servizi Energetici (GSE) in 2011.

External Ph.D. examiner at the University of Limerick (Ireland) in November 2012 and at the National University of Ireland Galway in May 2018.

Member of the Scientific Council of CIRIAF (Inter-university Research Centre on Physical Agents Pollution) from 2010 to date.

Member of various commissions for the selection of applicants for scholarships funded by the University of Perugia from 2010.

TEACHING

UNIVERSITY TEACHING

He carried out institutional teaching mainly at the Department of Engineering, University of Perugia, in the Master of Science in "Mechanical Engineering" and "Engineering for the Environment and Territory"; he also gave significant didactic contribution to an Interfaculty (Science, Engineering, Humanities) Master of Science in Technologies for the conservation and restoration of cultural heritage, to a second level Master Degree in Environmental Acoustics Master and to a second level Master Degree in EMAS Eco Management and Audit Scheme.

A breakdown of the different taught courses is reported as follows.

- Course of "Thermal Fluid Dynamic" for the Master of Science in "Mechanical Engineering" at the University of Perugia, since the academic year 2012/2013.
- Course of "Energy Planning" for the Master of Science in "Mechanical Engineering" and "Engineering for the Environment and Territory" at the University of Perugia, since the academic year 2012/2013.
- Course of "Applied Physics" for the Master of Science in "Architecture and Construction-Architectural Engineering" at the University of Perugia, in the academic year 2015/2016.
- Since the academic year 2008/2009 to the academic year 2011/2012 he held the course of Energetics for the Master of Science in "Mechanical Engineering" and "Engineering for the Environment and Territory" at the Faculty of Engineering, University of Perugia.
- Since the academic year 2009/2010 to the academic year 2011/2012 he held the course of Technical Plants for Museums for the Interfaculty Master of Science in Technologies for the conservation and restoration of cultural heritage, University of Perugia.
- In the academic years 2005/2006 and 2006/2007 he held the modules "Acoustic Instruments and Measurements" and "Acoustic Simulations" of the first two editions of the second level Master Degree in Environmental Acoustics at the University of Perugia.
- In the academic year 2004/2005 he held the course of Energy planning and environmental impact for the Master of Science in "Mechanical Engineering" at the Faculty of Engineering, University of Perugia.
- In the academic years 2003/2004-2011-2012 he held support lessons to the course of Applied Thermo-fluid-dynamics.
- In the academic year 2003/2004 he held the remedial lessons of the course of Applied Physics for the Master of Science in Mechanical Engineering.
- In the academic years 2000/2001, 2001/2002 and 2002/2003, he held the remedial lessons of the course of Energetics for the Master of Science in Mechanical Engineering at the Faculty of Engineering, University of Perugia.
- In the academic years 2001/2002 and 2002/2003, he held the remedial lessons of the course of Thermotechnics for the Master of Science in Mechanical Engineering at the Faculty of Engineering, University of Perugia.
- In the academic years 2001/2002 and 2002/2003 he held the tutoring lessons of the course of Elements of thermodynamics and Applied Physics 1 at the Faculty of Engineering, University of Perugia.
- He also held tutorials and internal lectures cycles for the courses of Applied Physics, Energetics, Thermotechnics, Applied Acoustics, Thermal Plants and Environmental Control Techniques at the Faculty of Engineering, University of Perugia.
- Within the Socrates Project, he carried out a lectures cycle at the University Carlos III, Madrid on the theme "Solar Cooling" in September 2010.

Since the academic year 2000/2001 he had been supervisor or co-supervisor of more than 30 Master theses and 3 Ph. D. theses.

NON-UNIVERSITY TEACHING ACTIVITIES

- From 2007 to 2009 he held the module "Legislation" of the courses "Technical expert in energy certification of buildings" organized by Sistema Ambiente Ltd. .
- In 2007 he held the module "Energy in buildings" of the training course "Expert in Bioclimatic Design" organized by En.A.I.P. Perugia.
- In 2007 he held the course of "Photovoltaic, Domotics and PLC" organized by ECIPA Umbria Ltd. .
- In 2007 he held the module "National, European and international legislation on air conditioning plants" of the training course "Strategic Training" organized by Link Ltd.
- Since 2006 he held numerous courses of "Solar thermal plants" and "Photovoltaic plants" organized by Centro Studi Galileo.
- In 2006 he held the ninth module of the training course "Expert in acoustics" organized by Sistema Ambiente Ltd. .
- In 2004 he held the modules of "Plants for the control of environmental conditions" and "Operative management of refrigeration and air purification plants" for the course of Technical experts for the quality control of the supply chain, organized by the Animal Registry Consortium.

MAIN PUBLICATIONS

- 1) "Misure spettrofotometriche su materiali trasparenti per chiusure perimetrali in edilizia" F. Asdrubali, C. Buratti, G. Baldinelli, 55° Congresso ATI, Settembre 2000, Bari.
- 2) "Misure ed ottimizzazione delle proprietà acustiche di una barriera stradale" F. Rossi, G. Baldinelli, S. Ortica, Quaderni CIRIAF, Aprile 2001, Perugia.
- 3) "Un impianto sperimentale per la misura delle prestazioni di un gruppo frigorifero ad assorbimento", A. de Lieto Vollaro, G. Galli, S. Grignaffini, F. Asdrubali, G. Baldinelli, C. Buratti, IX European Conference on latest technologies in refrigeration and air conditioning, 29-30 Giugno 2001, Milano.
- 4) "Realizzazione di dispositivi di controllo attivo del rumore allo scarico di motori a combustione interna a quattro tempi", F. Asdrubali, C. Tosti, G. Baldinelli, Quaderni CIRIAF, Luglio 2001, Perugia.
- 5) "Infissi ventilati antirumore: dimensionamento delle prestazioni aerauliche in un edificio campione della città di Genova", C. Buratti, G. Baldinelli, 56° Congresso ATI, Settembre 2001, Napoli.
- 6) "La mappatura acustica del territorio del Comune di Foligno", F. Asdrubali, C. Buratti, G. Baldinelli, Quaderni CIRIAF, Ottobre 2001, Perugia.
- 7) "Stazione sperimentale per lo studio delle proprietà spettrofotometriche di materiali trasparenti esposti all'inquinamento da traffico veicolare", F. Cotana, C. Simoncini, G. Baldinelli, Congresso AIDI, Dicembre 2001, Perugia.
- 8) "Coltivazione e ricomposizione ambientale della cava periurbana di Olmo - Perugia", L. Blois, F. Piselli, F. Asdrubali, G. Baldinelli, Quarry & Construction, Maggio 2002. ISSN: 2036-9034.
- 9) "Messa a punto di una strumentazione spettrofotometrica per misure di trasmittanza e riflessione di materiali trasparenti", F. Asdrubali, G. Baldinelli, 20° Congresso nazionale sulla trasmissione del calore UIT, Giugno 2002, Maratea.
- 10) "L'impianto frigorifero sperimentale ad assorbimento dell'Università di Perugia: messa a punto e primi risultati sperimentali", F. Cotana, A. de Lieto Vollaro, F. Asdrubali, G. Baldinelli, 57° Congresso ATI, Settembre 2002, Pisa.
- 11) "Indagini spettrofotometriche sulle proprietà di trasparenza e riflessione delle vetrate antiche decorate con tecniche superficiali", G. Moncada Lo Giudice, C. Buratti, G. Baldinelli, Congresso AIDI, Dicembre 2002, Perugia.
- 12) "A methodology for impact assessment and acoustic monitoring of quarry activities", F. Asdrubali, G. Baldinelli, Acoustics 2003, June 2003, Cadiz. ISBN: 1-85312-975-5.
- 13) "Misure di portata di evaporazione da superfici a pelo libero di temperatura assegnata", F. Asdrubali, G. Baldinelli, A. Presciutti, 21° Congresso nazionale sulla trasmissione del calore UIT, Giugno 2003, Udine. ISBN 88-86281-79-XX.
- 14) "Procedure e metodologie per la redazione di piani energetici e ambientali comunali", F. Asdrubali, G. Baldinelli, Giornata di Studi Lorenzo Agnoletto, Udine, Giugno 2003.
- 15) "Un impianto frigorifero sperimentale alimentato ad energia termica solare", F. Asdrubali, S. Grignaffini, G. Baldinelli, A. Presciutti, X European Conference on technological innovations in refrigeration, air conditioning industry, 27-28 Giugno 2003, Milano.
- 16) "Acoustic impact evaluation and mitigation of cement production plants", F. Asdrubali, G. Baldinelli, Internoise 2003, Jeju, Korea, August 2003.
- 17) "Ottimizzazione delle proprietà acustiche di barriere stradali con matrice di calcestruzzo", G. Baldinelli, AIA 2004, Maggio 2004, Venezia. ISBN: 88-88942-04-1.
- 18) "Analisi termodinamica ed ottimizzazione dell'impianto di raffreddamento di una centrale termoelettrica", F. Asdrubali, G. Baldinelli, 22° Congresso nazionale sulla trasmissione del calore UIT, Giugno 2004, Genova.
- 19) "Optimization of in situ noise barrier intrinsic characteristics measurements", F. Asdrubali, G. Pispola, G. Baldinelli, 11th International Congress on Sound and Vibration 2004, July 2004, San Petersburg. ISBN 5-7325-0816-3.
- 20) "Misure spettrofotometriche su materiali trasparenti: recenti attività di ricerca del laboratorio di termotecnica dell'Università di Perugia" F. Asdrubali, C. Buratti, R. Mariani, G. Baldinelli, E. Moretti, Quaderni CIRIAF, 2004, Perugia.

- 21) "Investigations on performances of high sound insulation ventilating windows", F. Asdrubali, C. Buratti, G. Baldinelli, *Internoise 2004*, Prague, August 2004. ISBN: 80-01-03055-5.
- 22) "A case of industrial plant close to residential buildings: technical problems and possible solutions", F. Asdrubali, S. Curcuruto, G. Baldinelli, S. Ortica, *Internoise 2004*, Prague, August 2004. ISBN: 80-01-03055-5.
- 23) "Studio territoriale della risorsa eolica nel Comune di Perugia: aspetti metodologici, energetici ed ambientali", F. Asdrubali, G. Baldinelli, 59° Congresso ATI, Settembre 2004, Genova. ISBN: 88-86281-93-5.
- 24) "Analisi sperimentale sull'impiego di diversi combustibili in impianti di riscaldamento nell'edilizia scolastica", F. Asdrubali, G. Baldinelli, A. Presciutti, 59° Congresso ATI, Settembre 2004, Genova. ISBN: 88-86281-93-5.
- 25) "Studio territoriale della risorsa solare nel Comune di Perugia: aspetti energetici ed ambientali", C. Buratti, G. Baldinelli, 59° Congresso ATI, Settembre 2004, Genova. ISBN: 88-86281-93-5.
- 26) "Messa a punto di una metodologia per il rilevamento delle sostanze odorigene in allevamenti zootecnici", G. Asdrubali, F. Asdrubali, G. Tacconi, G. Baldinelli, P. Casagrande Proietti, A. Presciutti, R. Franceschini, 5° Congresso CIRIAF, Aprile 2005, Perugia. ISBN: 88-89422-43-2.
- 27) "The role of town energy planning in reducing urban transport emissions", F. Asdrubali, G. Baldinelli, *Urban transport XI*, pp. 429-440, WIT Press, Southampton, 2005. ISBN: 1-84564-008-X.
- 28) "Experimental and theoretical investigation of solar driven absorption chillers", F. Asdrubali, F. Ziegler, J. Albers, G. Baldinelli, A. Presciutti, S. Petersen, *Thermophysical Properties and Transfer Processes of Refrigerants - IIR International Conference*, September 2005, Vicenza. ISBN 2 -913149-43-X, ISSN 0151-1637.
- 29) "A methodology to evaluate odours emitted by zootechnic breeding waste", G. Baldinelli, 2nd International Conference on Greenhouse Gases and Animal Agriculture, September 2005, Zurich. ISBN: 3-906466-27-2.
- 30) "Evaluation of the energy and lighting performances of innovative transparent materials in buildings", F. Asdrubali, G. Baldinelli, L. Frezzini, *Lux Europa 2005*, September 2005, Berlin.
- 31) "Certificazione energetica degli edifici: definizione degli indici prestazionali su base annua", F. Asdrubali, G. Baldinelli, M. Battisti, *Prestazioni e Certificazione Energetica degli Edifici*, Febbraio 2006, Firenze.
- 32) "Prestazioni acustiche di infissi antirumore: influenza delle modalità di posa", F. Asdrubali, G. Baldinelli, F. D'Alessandro, A. Pontiggia, 6° Congresso CIRIAF, Aprile 2006, Perugia. ISBN: 88-6074-018-5.
- 33) "Esperienze metodologiche ed applicative nella redazione delle classificazioni acustiche dei comuni umbri", F. Asdrubali, G. Baldinelli, L. Frezzini, *AIA 2006*, Maggio 2006, Ischia (NA). ISBN 88-8894-213-0.
- 34) "I regolamenti edilizi comunali: strumenti per la promozione delle fonti rinnovabili e del risparmio energetico in edilizia", F. Asdrubali, P. Baldugrani, G. Baldinelli, F. D'Alessandro, *CDA, Condizionamento dell'aria riscaldamento refrigerazione*, n. 5, Maggio 2006, Reed Business Information, Milano. ISSN: 0373-7772.
- 35) "A cogeneration system for the city of Perugia: energetic analysis and technical solutions", C. Buratti, G. Baldinelli, *SET 2006*, 5th International Conference on Sustainable Energy Technologies, 30 August - 1 September 2006, Vicenza.
- 36) "Theoretical and experimental analysis of the evaporative towers cooling system of a coal-fired power plant", F. Asdrubali, G. Baldinelli, *International Journal of Heat and Technology*, n. 1, pp. 17-24, 2006, Ets, Pisa. ISSN: 0392-8764.
- 37) "Validazione di una procedura per la certificazione delle prestazioni energetiche di edifici su base annua", F. Asdrubali, G. Baldinelli, M. Battisti, 61° Congresso ATI, Settembre 2006, Perugia. ISBN: 88-6074-048-7.
- 38) "Un sistema automatizzato per la certificazione delle prestazioni energetiche di apparati fotovoltaici", F. Asdrubali, G. Baldinelli, A. Presciutti, 61° Congresso ATI, Settembre 2006, Perugia. ISBN: 88-6074-049-5.
- 39) "Amico sole", F. Asdrubali, G. Baldinelli, *Obiettivo Impresa*, Luglio/Agosto 2006, Perugia.

- 40) "Comparison of two similar solar driven absorption chillers for different values of solar radiations", F. Asdrubali, F. Ziegler, J. Albers, G. Baldinelli, A. Presciutti, S. Petersen, ATI National Congress - International Session "Solar Heating and Cooling", September 2006, Perugia. ISBN: 88-6074-050-9.
- 41) "Riscaldare, non inquinare", F. Asdrubali, G. Baldinelli, Obiettivo Impresa, Settembre/Ottobre 2006, Perugia.
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