

## CURRICULUM VITAE OF DR. ANNA LAURA PISELLO

Assistant professor of Applied Physics at University of Perugia, Italy  
PhD in Energy Engineering



### Personal data of Anna Laura Pisello

Position Assistant professor of Applied Physics

Office Department of Engineering (University of Perugia, Italy) @CIRIAF – Interuniversity research center

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skype anna.laura.pisello

web <http://scholar.google.it/citations?user=yKLQuV8AAAAJ&hl=it>

[http://www.researchgate.net/profile/Anna\\_Laura\\_Pisello/publications/](http://www.researchgate.net/profile/Anna_Laura_Pisello/publications/)

<https://unnipg.academia.edu/AnnaLauraPisello>

<http://orcid.org/0000-0002-4527-6444>

### Bibliometry Information (starting from 2011):

- H index by Google Scholar: 18
- H index by Scopus: 16

## EDUCATIONAL and RESEARCH WORKING BACKGROUND

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2014-present      Assistant Professor in Applied Physics, Department of Engineering

Perugia, Italy

- Professor of Applied Physics (Fisica Tecnica) at the Architectural Engineering school (Academic Year 2016-2017)
- Professor of Environmental Applied Physics (Fisica Tecnica Ambientale) at the Medicine School (Academic Year 2015-2016)
- Main Teaching and research activity in the field of building physics:
  - Thermal-energy plants for buildings,
  - energy efficiency in buildings,
  - dynamic thermal-energy simulation,
  - indoor-outdoor microclimate continuous monitoring (also for artworks' preservation purpose)
  - building energy and environmental certification,
  - life cycle assessment,
  - lighting and thermal indoor-outdoor comfort,
  - new materials and techniques for building retrofits and new constructions (cool materials, PCMs, etc.),
  - innovative and smart materials and passive techniques for building energy saving,
  - urban heat island and its countermeasures,
  - net zero energy buildings and settlements,
  - inter-building effects.

2013-present	<b>Post-doc research fellow - University of Perugia</b>	Perugia, Italy
	<ul style="list-style-type: none"><li>▪ Main Research Focus: buildings energy efficiency, building dynamic simulation, building envelope materials and optimization, urban environment, building thermal-energy monitoring, cool and green roofs.</li></ul>	
2012	<b>Research visiting scholar, Virginia Tech University</b> Project Network Dynamics Lab (Dr. Taylor's Lab)	Blacksburg, Virginia, USA
	<ul style="list-style-type: none"><li>▪ Main Research Focus: buildings network energy dynamic simulation, evaluation of derivative Inter-Building impact on indoor thermal performance.</li></ul>	
2010-2012	<b>Research visiting scholar, Columbia University</b> Project Network Dynamics Lab (Dr. Taylor's Lab)	New York City, NY, USA
	<ul style="list-style-type: none"><li>▪ Main Research Focus: buildings network energy dynamic simulation, evaluation of derivative Inter-Building impact on indoor thermal performance.</li></ul>	
2009-2013	<b>PhD student in Energy Engineering, University of Perugia</b>	Perugia, Italy
	<ul style="list-style-type: none"><li>• Main Research Focus:</li></ul>	

- Buildings energy efficiency assessment through building dynamic simulation analysis, also considering the Inter-building effect;
  - buildings' energy dynamic simulation;
  - envelope reflectance assessment (albedo impact) as innovative strategy for improving indoor comfort and reducing building environmental impact;
  - microclimate and meteorological in field monitoring of advanced technologies neighborhoods and calibration of numerical models.
- Buildings' energy consultant and construction designer in urban planning initiatives aimed at improving environmental quality, supported by Planning Commission at "Central Park New City", PG, Italy.
  - Winner of the competition for the assignment of a 3-years PhD scholarship.
  - Winner of the national grant competition 2010 for the research project BAIO - "Environmental comfort indoor and outdoor" supported by Fondazione Cassa di Risparmio di Perugia, Italy (private bank foundation).
  - Principal contributor to the following activities related to energy&buildings:
    - Albedo Project, supported by Italian Environmental Ministry ([www.albedocontrol.it](http://www.albedocontrol.it));
    - ABCD: Albedo, green Buildings, global warming Control, Desertification, supported by Italian Environmental Ministry;
    - BAIO project: Indoor And Outdoor Building comfort, supported by Cassa di Risparmio di Perugia Foundation, winner project 2011;
    - BOMA project: Building energy Operation Management and Automation, supported by Italian Environmental Ministry;

2010-2012

**Visiting graduate research assistant, Columbia University**

New York, U.S.A.

Project Network Dynamics Lab (Dr. Taylor's Lab)

- Main Research Focus (1): buildings network energy efficiency and thermal behavior assessment through dynamic simulation, evaluation of derivative Inter-Building impact on indoor thermal performance.
- Main Research Focus (2): study of possible innovative strategies for reducing energy use improving occupants' awareness about energy and environmental issue.
- Selected by the Honors Center of Italian Universities - H2CU for supporting her International academics activities.

2011-2012

**Visiting graduate research assistant, Baruch College**

New York, U.S.A.

Building Performance Lab (Dr. Bobker's Lab)

- Main Research Focus (1): building energy efficiency and optimization strategies by enhanced solutions of operations & management. Evaluation of innovative control systems to the Vertical Campus – Baruch City College building in Manhattan, NYC (dynamic simulation, model calibration, in field monitoring)
- Main Research Focus (2): buildings' commissioning and thermal-energy dynamic simulation of complex multifunction buildings;
- Selected by the Honors Center of Italian Universities - H2CU for supporting her International academics activities.

- 2009                    **Master Degree in Building Engineering**                    Milan, Italy  
Polytechnic University of Milan Building Engineering  
*Summa cum laude*  
GPA: 4.0/4.0 (top one percent of students nationally)
- Defended thesis on the structural dynamic analysis to evaluate seismic performance of precast industrial buildings.
  - Main focuses: Integrated building design and architectural technology; Building physics (thermodynamics, acoustics, illuminating engineering); Energetic systems and environmental suitability; Building energy equipment - theory and design; Construction materials; Structural design; Seismic building analysis and adapting, Architecture history and city planning; Project finance and management; Urban design and city planning.
- 2008                    **Bachelor of Science in Building Engineering**                    Milan, Italy  
Polytechnic University of Milan Building Engineering
- GPA: 4.0/4.0 (top one percent of students nationally)
- Defended thesis on the structural dynamic behavior and seismic contemporary theories.
  - Main focuses: Integrated building design; Building structural analysis and design; Building physics (thermodynamics, acoustics, illuminating engineering); Building elements technologies; Construction materials; Contemporary building history; Buildings pathology and diagnostics.
- 2003                    **Scientific Diploma, Scientific Lyceum "G. Galilei"**                    Perugia, Italy  
*100/100 cum laude*
- GPA: 4.0/4.0 (top one percent of students nationally)
- Main subjects: mathematics, physics, international history, philosophy, Italian literature, chemistry, biology, English as a second language, English literature, International art (painting, architecture, sculpture).

#### RESEARCH AWARDS

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1.                    June 2016  
**IC2UHI Conference Award:** "Outstanding Urban Heat Island Group of Researchers Award in recognition of continuously conducting research and outreach in urban heat island related topics" at the 4<sup>th</sup> International Conference on Countermeasures to Urban heat Islands. National University of Singapore 30-31 May and 1 June 2016.
2.                    October, 2014

**AIPT Award:** Award of the Italian Association of thermal-physical properties with the paper “Thermal-physical assessment of innovative roof systems for application in historic buildings” by A.L. Pisello, presented at the AIPT 2014 – Terni, Italy.

3. October, 2014

**IC2UHI Award:** Best paper award at the 3<sup>rd</sup> International Conference on Countermeasures to Urban Heat Island in Venice, Italy, for the paper “EXPERIMENTAL ANALYSIS OF THE THERMAL-OPTICAL PROPERTIES OF POLYURETHANE WATERPROOF LIQUID MEMBRANES FOR COOL ROOF APPLICATION” by A.L. Pisello, V.L. Castaldo, G. Pignatta, F. Cotana. Prize for the unique experimental approach for the UHI countermeasures.

4. May, 2013

**H2CU Award per Energy Engineering** in recognition of having contributed to H2CU academic and scientific excellence in the U.S.A. with her outstanding achievement in the field of Energy Engineering, earned at the Istituto Italiano di Cultura del Consolato Italiano a New York, USA.

5. July, 2013

Selected as the best idea to be presented at **MED Solutions** - The UN SDSN Center for Mediterranean Hosted by the University of Siena. First Siena Solutions Conference: Sustainable Development Solutions for the Mediterranean Region for the presentation “ALBEDO CONTROL AND COOL ROOFS AS A STRATEGY TO MITIGATE GLOBAL WARMING IN ECONOMICAL CRISIS PHASE” by F. Cotana, F. Rossi, V. Coccia, A. L. Pisello given in Siena, Italy.

#### TEACHING EXPERIENCE

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- Teacher of *Impianti (Energy plants)* at the Engineering school. Degree in Architectural Engineering. Department of Engineering. Academic Year 2016-2017.
- Teacher of *Environmental Applied Physics* under the framework of the program: Prevention and safety in working places. Degree in Prevention techniques in the environment and in working places. Department of Experimental Medicine. Academic Year 2015-2016.
- Teacher of *Applied Physics* for building technicians, in the Academic Years 2013-14, 2014-15, 2015-16.
- Teacher of PhD class at University of Perugia, Italy in the PhD schools of 1. Energy Engineering and 2. Energy and sustainable development. Title of the course: *Thermal-energy efficiency in buildings* in the Academic Year 2014-2015.
- Teacher of PhD class at Politecnico di Milano, Italy in the Inter-doctoral Ph.D. course with Title *Urban MicroClimate mitigation with Building Envelopes: Performance and Design* in the Academic Year 2014-2015.
- Teaching associate (co-teacher) of *Energy plants of buildings and renewable sources of energy* at the faculty of Engineering, graduate students of Architectural engineering. Academic years: 2010-11, 2011-12, 2012-13, 2013-14.
- Teaching associate (co-teacher) of *Applied physics* at the faculty of Engineering, graduate students of Mechanical engineering. Academic years: 2010-11, 2011-12.
- Teacher in several post-lauream courses of *Energy efficiency in buildings, New materials for building energy efficiency, Innovative construction technologies* since 2011.
- Teacher of Green Building Council Italy courses for *LEED exam preparation* since 2012.

#### ACTIVITY AS INVITED LECTURER IN INTERNATIONAL SEMINARS

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1. Title: New materials for thermal energy storage in buildings. Invited research speaker at the Polytechnic Institute of Research and Innovation in Sustainability – INSPIRES, 19 July 2016. Escola Politècnica Superior (EPS), University of Lleida, Spain.
2. Title: Innovative materials for energy saving and improving thermal comfort in the built environment. Invited research speaker at the Polytechnic Institute of Research and Innovation in Sustainability – INSPIRES, June 2015. Escola Politècnica Superior (EPS), University of Lleida, Spain.
3. Title: Energy efficiency in buildings and wellbeing in urban areas. Research Lectures of the Environmental Engineering Department, May 2015. Technical University of Crete (Greece).
4. Title: Thermal-energy performance analysis of historic buildings. 19-12-2014. Municipality of Tivoli (Italy)
5. Title: Materials and methods to improve energy performance in urban areas. University of Lleida (Spain). 20-11-2014.
6. Title: Materials and methods to improve energy performance of buildings and cities. Worcester Polytechnic Institute. 30-04-2014.
7. Title: Energy opportunities from water resources: first results of multipurpose research in Italian territory. Unesco Chair «Water Resources Management and Culture» Inaugural Meeting 11 MARZO 2014. University for Foreigners of Perugia - Palazzo Gallenga Sala Goldoniana.
8. Title: New Strategies for Performance Analysis and Optimization for Energy Efficiency in Buildings. Sponsored by H2CU International research center. October 23<sup>rd</sup>, 2013 @ La Sapienza University of Rome, Italy.
9. Title: Energy Efficiency of Buildings: New Strategies for Performance Analysis and Optimization. Sponsored by NYU Poly, Department of Civil and Environmental Engineering. 16-10-2013 @ NYU Poly in New York.
10. Title: Impact of inter-building effects on the accuracy of building energy performance predictions: the role of urban morphology, meso-climate context, and place-based affiliation networks. Co-sponsored by EARTH SYSTEM AND ENVIRONMENTAL ENGINEERING PROGRAM, NOAA-CREST, CIUS BUILDING PERFORMANCE LAB. May 10<sup>th</sup>, 2013 @ CUNY New York City.
11. Title: Impact of inter-building effects on the accuracy of building energy performance predictions: the role of urban morphology, meso-climate context, and place-based affiliation networks. Sponsored by H2CU International research center. May 17<sup>th</sup>, 2013 @ Italian Cultural Institute in New York.
12. Title: Impact of inter-building effects on the accuracy of building energy performance predictions: the role of urban morphology, meso-climate context, and place-based affiliation networks. Sponsored by Civil Engineering Networks Dynamics Lab. May 13<sup>th</sup>, 2013 @ Virginia Tech, Blacksburg, VA, USA.

#### ACTIVITY AS CHAIRMAN AND INVITED SPEAKER

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- Moderator, plenary speaker, speaker of the conference summary at the IC2UHI 2016 in Singapore. COUNTERING URBAN HEAT ISLAND (UHI) AND CLIMATE CHANGE THROUGH MITIGATION AND ADAPTATION 30-31 MAY • 1 JUNE 2016 | STEPHEN RIADY CENTRE, UNIVERSITY TOWN, NUS.
- Organizer of the session “Research perspectives in thermal-energy storage” Chairman: prof. Luisa F. Cabeza, Universitat de Lleida, Spain at the 16<sup>th</sup> CIRIAF conference in Assisi, Italy. April 2016 by Luisa F. Cabeza, F. Cotana, A.L. Pisello.
- Invited speaker at the International Conference “Freshwater and Culture Water Resources Management and Culture Padiglione KIP International School - EXPO Milano 2015 October 6-7 organized by the UNESCO Chair in Water Resources Management and Culture 2015. Title: Water: a key player in building energy efficiency and in determining microclimate wellbeing.
- Invited speaker at the 36<sup>th</sup> AIVC Conference 'Effective ventilation in high performance buildings', Madrid 23<sup>rd</sup>-24<sup>th</sup> September 2015.
- Organizer of the session “Italian alliance for innovative building skin solutions and “cool” materials” at the 15<sup>th</sup> CIRIAF conference in Perugia, Italy. April 2015 by F. Cotana, F. Rossi, A.L. Pisello.
- Invited speaker at UNESCO and WATER: UNESCO Chair in Water Resources Management and Culture. University for Foreigners, Perugia, Italy. 2014, March 11<sup>st</sup>.

- Invited speaker (paid) at 44<sup>th</sup> International Congress and Exhibition on HVAC&R Integrated Design and Healthy Zero CO<sub>2</sub> Emission Buildings Belgrade, 4th–6th December 2013.
- Chairman at 2013 AIVC - TightVent - Cool Roof's - venticool Conference. Athens, September 25<sup>th</sup> - 26<sup>th</sup>.
- CLIMA 2013. Presentation of an original paper. June 17<sup>th</sup>, 2013. Prague. Session title: Long oral presentation session- The role of cool materials in the urban context.
- Program Technical Committee participant at 3rd ScienceOne International Conference on Environmental Sciences ICES 2014, January 2014, Dubai.
- Conference Co-chair at Third International Conference on Countermeasures to Urban Heat Island, Venice, October 13-15, 2014.
- Chairman at 6th International Conference on Applied Energy – ICAE2014. Taipei, Taiwan. May 2014.

#### NATIONAL AND INTERNATIONAL MEETING PRESENTATIONS

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- IC2UHI 2016 - COUNTERING URBAN HEAT ISLAND (UHI) AND CLIMATE CHANGE THROUGH MITIGATION AND ADAPTATION 30-31 MAY • 1 JUNE 2016 | STEPHEN RIADY CENTRE, UNIVERSITY TOWN, NUS. Singapore.
- INNOSTORAGE Conference. February 16-18, 2016 Ben-Gurion University of the Negev, Beer-Sheva, Israel. Session chairman and presenter.
- International Conference on Sustainable Design, Engineering & Construction 2015. Chicago, USA. May 2015.
- 7<sup>th</sup> International Conference on Applied Energy. Abu Dhabi. March 2015.
- 3<sup>rd</sup> International Conference on Countermeasures to Urban Heat Island. October 2014. Venice, Italy.
- 6<sup>th</sup> International Conference on Applied Energy. Taipei, Taiwan. June 2014.
- 14th CIRIAF National Congress. Energy, Environment and Sustainable Development Perugia, Italy. April 4-5, 2014
- 49th International Conference by AICARR. HISTORICAL AND EXISTING BUILDINGS. DESIGNING THE RETROFIT. An overview from energy performances to indoor air quality. Roma 2014, 26th – 28th February.
- 44th INTERNATIONAL CONGRESS & EXHIBITION ON HEATING, REFRIGERATION AND AIR CONDITIONING. Belgrade, Sava Center, December 4–6.
- AIVC conference in 2013 in Athens, Greece, 25-26 September 2013
- 2013 AIVC - TightVent - Cool Roof's - venticool Conference. Athens, September 25-26.
- 68 Congresso Nazionale Associazione Termotecnica Italiana. Bologna, 11-13 Settembre.
- CLIMA 2013. Presentation of an original paper. June 17<sup>th</sup>, 2013. Prague.
- Seminar at Virginia Tech, VA to the PhD School of Civil Engineering, 2013, May 12<sup>th</sup>.
- Event co-sponsored by Earth System and Environmental Engineering program NOAA-CREST, Cius, Building Performance Lab. 2013, May 10<sup>th</sup>.
- SEBUA 2012 Conference: Sustainable Energy in Buildings and Urban Areas, 2012, October 14<sup>th</sup>-20<sup>th</sup>, Kusadasi, Turkey.
- ATI Conference, 2012, September 13<sup>th</sup> -17<sup>th</sup>, Trieste, Italy.
- Winter Simulation Conference (WSC) on Simulation for a Sustainable World – 2011, December 11<sup>th</sup> - 14<sup>th</sup> – Phoenix, Arizona.
- 48<sup>th</sup> Aicarr International Conference on Energy refurbishment of existing buildings - which solutions for an integrated System: Envelope, Plant, Control – 2011, September 22<sup>nd</sup> -23<sup>rd</sup> – Baveno, Italy.
- 3<sup>rd</sup> International Conference on Applied Energy – 2011, May 16<sup>th</sup> -18<sup>th</sup> - Perugia, Italy.
- ATI Conference, 2010, September 13<sup>th</sup> -17<sup>th</sup>, Cagliari, Italy.
- Summer School of Applied Physics, 2010, July 5<sup>th</sup> -9<sup>th</sup>, Benevento, Italy.

#### ACTIVITY AS MEMBER OF EDITORIAL BOARD

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International Journals:

- Editor in chief of the Environmental Sciences and Sustainable Development Journal (IEREK-Elsevier) - <http://www.ierek.com/press/index.php/ESSD/about/editorialTeam>
- Associate editor of the American Journal of Engineering and Applied Science (Science Publications) - <http://thescipub.com/journals/ajeas/editors>
- Leading guest editor of the Special Issue "Smart Materials for Low Carbon Applications" in the International Journal of Low-Carbon Technologies - 2016 (Oxford University Press)
- International Journal of Applied Engineering Research (IJAER) – (Research India Publications)
- International Journal of Energy Science (Science and Engineering Publishing Company)
- Energy Science & Engineering (Society of Chemical Industry and John Wiley & Sons, Ltd)
- Guest editor in the Special Issue "Building Energy Performance Modelling and Simulation" in the Modelling and Simulation in Engineering Journal (Hindawi Publishing Corporation)

Scientific international associations:

- Member of the IEREK scientific committee

#### ACTIVITY AS REFEREE

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International Journals:

- Applied Energy, Elsevier
- Energy and Buildings, Elsevier
- Energy, Elsevier
- Solar Energy, Elsevier
- Energy Efficiency, Springer
- Computers, Environment and Urban Systems, Elsevier
- Journal of Building Engineering, Elsevier
- Landscape and Urban Planning, Elsevier
- Sustainable Cities and Society, Elsevier
- Urban Climate, Elsevier
- International Journal of Low-Carbon Technologies, Oxford Journals
- British Journal of Applied Science & Technology, SCIENCEDOMAIN international (SDI)
- Solar energy, Elsevier
- Smart and Sustainable Built Environment, Emerald
- Energy Research & Social Science, Elsevier
- Advances in Research, SCIENCEDOMAIN international
- Mathematical Problems in Engineering, Hindawi Publishing Corporation
- Materials, MPDI Publishing
- Management of Environmental Quality: An International Journal, Emerald Publishing
- Smart and Sustainable Built Environment, Emerald Publishing
- Sustainability, MPDI
- Energies, MPDI
- Sensors, MPDI
- Many others.

International Conference:

- SEB Conference 2016.
- CIRIAF conference 2015 and 2016
- ISES Solar World Congress 2015
- ICSDEC 2015, Chicago, USA
- ICAE 2014, Taiwan
- 25<sup>th</sup> ECOS 2012 Conference. Perugia, Italy.



- ICAE 2015, Abu Dhabi.
- 3<sup>rd</sup> IC2UHI, Venice, Italy
- ICSDEC 2015, Chicago, USA.

ACTIVITY AS Member of the scientific and organizing committee

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International Conference:

- Sustainability in Energy and Buildings, SEB-16 Turin, Italy 11-13 September 2016
- Session “Research perspectives in thermal-energy storage” at the 16<sup>th</sup> CIRIAF conference in Assisi, Italy. April 2016 by Luisa F. Cabeza, F. Cotana, A.L. Pisello.
- 3<sup>rd</sup> International conference on countermeasures to the urban heat island. Venice, Italy
- Constitution of the Italian Alliance for Innovative Building Skin Solutions and “Cool” within the 15<sup>th</sup> CIRIAF National Congress. Environmental footprint and sustainable development. Perugia, Italy. April 2015.
- Member of the organizing committee of the CIRIAF conference in both 2015 and 2016 (15<sup>th</sup> and 16<sup>th</sup> editions).

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NATIONAL AND INTERNATIONAL RESEARCH PROJECT

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1. EU funded project in *Horizon 2020* framework. Call H2020-DRS-2015. Name of the proposal: HERitage Resilience Against CLimate Events on Site. Proposal number: 700395. Proposal acronym: HERACLES. Topic: DRS-11-2015. Type of action: RIA. 2016-2019 – Task leader.
2. EU funded project in *Horizon 2020* framework. Call H2020-EE-2015-1-PPP. Name of the proposal: Achieving near Zero and Positive Energy Settlements in Europe using Advanced Energy Technology. Proposal number: 678407. Proposal acronym: ZERO-PLUS. Topic: EE-02-2015. Type of action: IA. 2015-2019 - Task leader and reference proposal contact.
3. EU funded project in *Horizon 2020* framework. Call H2020-LCE-2014-2. Name of the proposal: PhD on Innovation Pathways for TES. Proposal number: 657466, Project acronym: INPATH-TES. Topic: LCE-20-2014. Type of action: CSA. 2015-2018. Task leader and reference proposal contact.
4. CHAMAELEON RISE Marie Curie project, positively evaluated for two times within the framework of Marie Curie RISE call in 2014 and 2015, but not allowed to funding by the EC.
5. Programma CIRIAF per l'UNESCO “Chair Water Resource Management and Culture”.
6. UMBRA ARTIS: Tecnologie impiantistiche di monitoraggio e protezione delle opere d'arte e degli ambienti ipogei (in Italian). Energy technologies for monitoring and protecting artworks and subterranean environment.
7. GREEN POST, Green Alternative Postal Vehicle Project (EIE-07/119/S12.466271).
8. Energy efficiency in buildings through passive innovative strategies in building envelopes. 2012-14. 3. PC2M, Phase Cool Change materials. 2012-present.
9. MUSAE Life+ project, Municipalities Subsidiary for Actions on Energy, Env\_it, 016, 2013.
10. RENAISSANCE CIVITAS+, Testing Innovative Strategies For Clean Urban Transport For Historic European Cities, FP7-SST-2007- 20121120.
11. ABCD Albedo, Building green, Control of global warming and Desertification. Supported by Italian Ministry of Environment.
12. BAIO: Indoor and Outdoor thermal comfort. Supported by private banking foundation Fondazione Cassa di Risparmio di Perugia, Call 2011.
13. TIAR: Tower hydraulic-Architectural-energetic. Supported by the Italian Ministry of Agriculture.
14. Green BOMA: Green Building Operation, Management, and Automation. Innovative solutions for energy saving based on the operation management. Enel and Italian Ministry of Economy and Finance.
15. SCER (Development of a new system for air-conditioning in buildings in urban areas with renewable energy sources)
16. ELIOS–Envelope Layers for Interactive Optimized Systems. Selected by Italian Ministry of Environment as strategic proposal @Greening Camp competition.

17. DAIKIN group: optimization of cooling systems through cool roof installation and monitoring. Supported by Daikin Chemicals and Tecnexum company.
18. CVR cooperation convention to implement innovative envelope high performance materials. Supported by CVR industries.
19. TECNEXUM: optimization of optical energy properties of coatings for chiller envelope.
20. TECNEXUM: analysis of the solar reflection index in dynamic thermal-energy calculation.
21. Institutional convention between CRB and Italian Ministry of the Environment, with till "Recupero e valorizzazione energetica di biomasse legnose".
22. Institutional convention between Italian Ministry of the Environment, University of Perugia and Foundation for the Agricultural Education (FIA) with title "Riqualficazione energetica della Rocca di Casalina".

## MENTORSHIP AND CO-MENTORSHIP EXPERIENCE

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### **Master Degree**

1. Benedetta Pioppi, University of Perugia, Italy (2016-17)
2. Alessandro Buffi, University of Perugia, Italy (2016-17)
3. Silvia Biagetti, University of Perugia, Italy (2015-16)
4. Alessandro Pio Fiorelli, University of Perugia, Italy (2015-16)
5. Marco Colleluori, University of Perugia, Italy (2015-16)
6. Martina Picchi, University of Perugia, Italy (2015)
7. Claudia Fabiani, University of Perugia, Italy (2014-15)
8. Ilaria Pigliautile, University of Perugia, Italy (2014-15)
9. Giovanna Sanna, University of Perugia, Italy (2013-15)
10. Valeria Berellini, University of Perugia, Italy (2013-14)
11. Francesca Lia, University of Perugia, Italy (2013-14)
12. Serena Sensi, University of Perugia, Italy (2013-14)
13. Cristina Piselli, University of Perugia, Italy (2013-14)
14. Giorgia Agostinelli, University of Perugia, Italy (2013-14)
15. Veronica Castaldo, Polytechnic University of Milan, Italy (2012-present)
16. Jessica Romanelli, University of Perugia, Italy (2012-13)
17. Roberto Barone, University of Perugia, Italy – Baruch College, NYC (2010-2011)
18. Vanessa Romagna, University of Perugia, Italy – Baruch College, NYC (2010-2011)
19. Massimo Palombo, University of Perugia, Italy (2010-2011)
20. Tania Ghilardi, University of Perugia, Italy (2010)
21. Emanuele Chiodini, University of Perugia, Italy (2012-13)

### **PhD in "Energy Engineering" and "Energy and Sustainable Development" at University of Perugia, Italy**

- Claudia Fabiani (2015- on going), PhD in "Energy and Sustainable Development" at University of Perugia, Italy
- Nastaran Makaremi (2015-on going), PhD in "Energy and Sustainable Development" at University of Perugia, Italy
- Gloria Pignatta (2012-2015), PhD in "Energy Engineering" at University of Perugia, Italy
- Veronica Lucia Castaldo (2013-on going), PhD in "Energy and Sustainable Development" at University of Perugia, Italy
- Cristina Piselli (2014-on going), PhD in "Energy and Sustainable Development" at University of Perugia, Italy
- Federica Rosso (2013-on going), PhD in "Engineering of Architecture and Urbanistics" at University of Rome La Sapienza, Italy
- Yilong Han (2014-on going), PhD –BioBuild fellow at Virginia Tech, USA.

- Several visiting scholars for 3-to-6 month visiting periods in Univ. of Perugia, Italy.

## PUBLICATIONS

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### Original Journal Papers:

1. **Pisello, A.L.**, Castaldo, V.L., Piselli, C., Fabiani, C., Cotana, F. How peers' personal attitudes affect indoor microclimate and energy need in an institutional building: results from a continuous monitoring campaign in summer and winter conditions, *Energy and Buildings*, Available online 19 May 2016, ISSN 0378-7788, doi:10.1016/j.enbuild.2016.05.053.
2. **Pisello, A.L.**, Castaldo, V.L., Fabiani, C., Cotana, F. Investigation on the effect of innovative cool tiles on local indoor thermal conditions: Finite element modeling and continuous monitoring (2016) *Building and Environment*, 97, pp. 55-68. DOI: 10.1016/j.buildenv.2015.11.038
3. Han Y., Taylor J.E., **Pisello A.L.** Exploring mutual shading and mutual reflection inter-building effects on building energy performance, *Applied Energy*, Available online 14 November 2015, doi: 10.1016/j.apenergy.2015.10.170.
4. Gabriele Comanducci · Filippo Ubertini · Nicola Cavalagli · **Anna Laura Pisello** · Annibale Luigi Materazzi · Franco Cotana . Environmental effects on natural frequencies of the San Pietro bell tower in Perugia, Italy, and their removal for structural performance assessment. Accepted May 2016. *Mechanical Systems and Signal Processing*.
5. F. Asdrubali, F. Bianchi, F. Cotana, F. D'Alessandro, M. Pertosa, **A.L. Pisello**, S. Schiavoni. Experimental thermo-acoustic characterization of innovative common reed bio-based panels for building envelope. (2016) *Building and Environment*, 102, pp. 217-229. DOI: 10.1016/j.buildenv.2016.03.022
6. Rosso, F., Jin, W., **Pisello, A.L.**, Ferrero, M., Ghandehari, M. Translucent marbles for building envelope applications: Weathering effects on surface lightness and finishing when exposed to simulated acid rain (2016) *Construction and Building Materials*, 108, pp. 146-153. DOI: 10.1016/j.conbuildmat.2016.01.041
7. **A.L. Pisello**, E. Fortunati, S. Mattioli, S. Mattioli, L.F. Cabeza, C. Barreneche, J.M. Kenny, F. Cotana. Innovative cool roofing membrane with integrated phase change materials. *Energy and Buildings*, Volume 112, 15 January 2016, Pages 40-48, ISSN 0378-7788, <http://dx.doi.org/10.1016/j.enbuild.2015.11.061>.
8. Han Y., Taylor J.E., **Pisello A.L.** Exploring mutual shading and mutual reflection inter-building effects on building energy performance. *Applied Energy* Available online 14 November 2015. doi:10.1016/j.apenergy.2015.10.170
9. H. Akbari, C. Cartalis, D. Kolokotsa, A. Muscio, **A.L. Pisello**, F. Rossi, M. Santamouris, A. Synnefa, N. Hien Wong, M. Zinzi. Local climate change and urban heat island mitigation techniques – the state of the art. *Journal of Civil Engineering and Management*. 22(1), 2016. Doi: 10.3846/13923730.2015.1111934
10. **A.L. Pisello**, Castaldo V.L., Pignatta G., Cotana F. Integrated numerical and experimental methodology for thermal-energy analysis and optimization of heritage museum buildings. *Building Services Engineering Research and Technology*. October 15, 2015. doi: 10.1177/0143624415609910.

11. F. Rosso, W. Jin, **A.L. Pisello**, M. Ferrero, M. Ghandehari. Translucent marbles for building envelope applications: weathering effects on surface lightness and finishing when exposed to simulated acid rain. *Construction & Building Materials*. Construction and Building Materials, Volume 108, 1, 2016.
12. F. Asdrubali, **A.L. Pisello**, F. D'Alessandro, F. Bianchi, C. Fabiani, M. Cornicchia, A. Rotili, Experimental and numerical characterization of innovative cardboard based panels: Thermal and acoustic performance analysis and life cycle assessment, *Building and Environment*, Available online 5 September 2015, doi: 10.1016/j.buildenv.2015.09.003.
13. F. Cotana, G. Cavalaglio, **A. L. Pisello**, M. Gelosia, D. Ingles and E. Pompili, Sustainable Ethanol Production from Common Reed (*Phragmites australis*) through Simultaneous Saccharification and Fermentation. *Sustainability* 2015, 7(9), 12149-12163; doi:10.3390/su70912149
14. F. Ascione, A.L. Pisello, Eco-efficient Materials for Mitigating Building Cooling Needs - CSE-City Safety Energy, 2015.
15. Han Y., Taylor J.E., **Pisello A.L.** Toward mitigating urban heat island effects: Investigating the thermal-energy impact of bio-inspired retro-reflective building envelopes in dense urban settings. *Energy and Buildings* 2015, 102, 380-389.
16. **Pisello A.L.**, Pignatta G., Castaldo V.L., Cotana F. The Impact of Local Microclimate Boundary Conditions on Building Energy Performance. *Sustainability* 2015, 7 (7), 9207-9230.
17. **Pisello A.L.**, A. Petrozzi, V.L. Castaldo, F. Cotana, 2015. On an innovative integrated technique for energy refurbishment of historical buildings: thermal-energy, economic and environmental analysis of a case study. *Applied Energy*. Accepted for publication on May 2015. doi:10.1016/j.apenergy.2015.05.061
18. **Pisello, A.L.**, Castaldo, V.L., Pignatta, G., Cotana, F., Santamouris, M. Experimental in-lab and in-field analysis of waterproof membranes for cool roof application and urban heat island mitigation (2016) *Energy and Buildings*, 114, pp. 180-190. DOI: 10.1016/j.enbuild.2015.05.026
19. V.L. Castaldo, V. Coccia, F. Cotana, G. Pignatta, **A.L. Pisello**, F. Rossi. Thermal-energy analysis of natural "cool" stone aggregates as passive cooling and global warming mitigation technique. *Urban Climate Journal*. Accepted for publication on May 2015. doi:10.1016/j.uclim.2015.05.006
20. **Pisello A.L.**, 2015. Experimental analysis of cool traditional solar shading systems for residential buildings. *Energies* 2015, 8(3), 2197-2210; doi:10.3390/en8032197
21. **Pisello A.L.**, 2015. Thermal-energy analysis of roof cool clay tiles for application in historic buildings and cities. *Sustainable Cities and Society*. doi:10.1016/j.scs.2015.03.003
22. **Pisello A.L.**, Piselli C., Cotana F., 2015. Thermal-physics and energy performance of an innovative green roof system: the cool green roof. *Solar Energy* 2015, 116, 337-356
23. **Pisello A.L.**, Piselli C., Cotana F. Influence Of Human Behavior On Cool Roof Effect For Summer Cooling. *Building and Environment* 2015, 88, 116-128. DOI: 10.1016/j.buildenv.2014.09.025.
24. **Pisello A.L.**, Asdrubali F., 2014. Human-based energy retrofits in residential buildings: a cost-effective alternative to traditional physical strategies. Accepted. *Applied Energy* APEN5473. DOI: 0.1016/j.apenergy.2014.07.049
25. Bianchi, F.; **Pisello, A.L.**; Baldinelli, G.; Asdrubali, F. Infrared Thermography Assessment of Thermal Bridges in Building Envelope: Experimental Validation in a Test Room Setup. *Sustainability* 2014, 6, 7107-7120.
26. **Pisello A.L.**, Pignatta G., Castaldo V.L., Cotana F., 2014. Experimental Analysis of Natural Gravel Covering as Cool Roofing and Cool Pavement. *Sustainability* 2014, 6, 4706-4722; doi:10.3390/su6084706.

27. Rosso F., **Pisello A.L.**, Ferrante M., Cotana F., 2014. Integrated Thermal Energy Analysis Of Innovative Translucent White Marble For Building Envelope Application. Sustainability. doi:10.3390/su6085439
28. Cotana F., **Pisello A.L.**, Moretti E., Buratti C., 2014. Multipurpose characterization of glazing systems with silica aerogel: In-field experimental analysis of thermal-energy, lighting and acoustic performance. Buildings and environment. DOI: 10.1016/j.buildenv.2014.06.014.
29. **Pisello A.L.**, Cotana F., Nicolini A., Buratti C., 2014. Effect of dynamic characteristics of building envelope on thermal-energy performance in winter conditions: in field experiment. Energy and Buildings, Vol. 80, pp. 218–230. DOI: 10.1016/j.enbuild.2014.05.017.
30. **Pisello A.L.**, Rossi F., Cotana F., 2014, Summer and winter effect of innovative cool roof tiles on the dynamic thermal behavior of buildings. Energies. Vol. 7, pp. 2343-2361. DOI: 10.3390/en7042343
31. **Pisello A.L.**, Castaldo V.L., Taylor J.E., Cotana F., 2014, Expanding Inter-Building Effect Modeling to Examine Primary Energy for Lighting. Energy and Buildings. DOI: 10.1016/j.enbuild.2014.02.081
32. **Pisello A.L.**, 2014. Optic-Energy Performance of Innovative and Traditional Materials for Roof Covering in Commercial Buildings in Central Italy. Advanced Materials Research. Vol. 884, pp. 685-688. DOI: 10.4028/www.scientific.net/AMR.884-885.685
33. **Pisello A.L.**, Santamouris M., Cotana F., 2013. Active cool roof effect: impact of cool roofs on cooling system efficiency. Advances in Building Energy Research. Vol. 7, Issue 2, pp. 209-221. DOI: 10.1080/17512549.2013.865560.
34. Bonamente, E., Rossi, F., Coccia, V., **Pisello, A.L.**, Nicolini, A., Castellani, B., Cotana, F., (...), Santamouris, M. An energy-balanced analytic model for urban heat canyons: comparison with experimental data. Advances in Building Energy Research Vol. 7(2), pp. 222 – 234, 2013. DOI: 10.1080/17512549.2013.865561
35. **Pisello A.L.**, Cotana F., 2014. The thermal effect of an innovative cool roof on residential buildings in Italy: Results from two years of continuous monitoring. Energy and Buildings Vol. 69, pp 154-164, DOI: 10.1016/j.enbuild.2013.10.031
36. Rossi F., **Pisello A.L.**, Nicolini A., Filipponi M., Palombo M., 2014. Analysis of retro-reflective surfaces for urban heat island mitigation: a new analytical model. Applied Energy Vol. 114, pp. 621-631, 2014. DOI: 10.1016/j.apenergy.2013.10.038.
37. **Pisello A.L.**, Castaldo V., Poli T., Cotana F., 2014. "Simulating buildings' thermal-energy performance at urban scale: evaluation of Inter-Building Effect in different urban configurations". Journal of Urban Technology. Vol. 21 (1) 2014 DOI:10.1080/10630732.2014.884386.
38. Xu X., Taylor J.E., **Pisello A.L.**, 2014. Network synergy effect: establishing a synergy between building network and peer network energy conservation effects. Energy and Buildings; 68, Part A: 312–320.
39. Cotana F., Rossi F., Nicolini A., Filipponi M., **Pisello A.L.**, 2013. "Energetic Analysis of Solar-Supplied Processes for Methane, Biogas and Wood Chip Production". Advanced Materials Research. Vol. 772 (2013) pp 720-724; doi:10.4028/www.scientific.net/AMR.772.720
40. **Pisello A.L.**, Cotana F., Nicolini A., Brinchi L., 2013. "Development of Clay Tile Coatings for Steep-Sloped Cool Roofs". Energies. Vol. 6(8), pp. 3637-3653; doi:10.3390/en6083637.
41. **Pisello A.L.**, Bobker M., Cotana F., 2012. "A Building Energy Efficiency Optimization Method by Evaluating the Effective Thermal Zones Occupancy". Energies. Vol. 5, pp. 5257-5278 (2012). DOI:10.3390/en5125257.

42. **Pisello A.L.**, Taylor J.T., Xu X., Cotana F., 2012. "Inter-Building Effect: modeling the impact of a network of buildings on the energy performance of single building". *Building and environment*. Vol. 58 (2012), pp. 37-45. DOI:10.1016/j.buildenv.2012.06.017
43. Xu X., Taylor J.E., **Pisello A.L.**, Culligan P., 2012. "The impact of place-based affiliation networks on energy conservation: An holistic model that integrates the influence of buildings, residents and the neighborhood context". *Energy and buildings*. (2012), DOI: 10.1016/j.enbuild.2012.09.013
44. **Pisello A.L.**, Xu X., Taylor J.T., Cotana F., 2012. "Network of buildings' impact on indoor thermal performance". *SASBE - Smart and Sustainable Built Environment" International Journal*. Vol. 1, Iss: 1, pp. 73-86. DOI: 10.1108/20466091211227061
45. **Pisello A.L.**, Goretti M., Cotana F., 2011. "A method for assessing buildings' energy efficiency by dynamic simulation and experimental activity". *Applied energy*, Vol. 97, pp. 419-429, DOI:10.1016/j.apenergy.2011.12.094.
46. Cotana F, **Pisello A.L.**, 2011, "Un metodo per la valutazione del comportamento termico in regime dinamico degli edifici. Parte 1: formulazione" (In Italian). "A Method to Evaluate the Building Thermal Dynamic Behavior. Part I: Formulation". *La Termotecnica*. Vol.1(2011), pp. 53-59.
47. Cotana F, **Pisello A.L.**, 2011, "Un metodo per la valutazione del comportamento termico in regime dinamico degli edifici. Parte 2: casi di studio" (In Italian) - "A Method to Evaluate the Building Thermal Dynamic Behavior. Part II: Case studies". *La Termotecnica*. Vol.2(2011), pp. 50-57.
48. Cotana F., Rossi F., Filipponi M., **Pisello A.L.**, 2010, "Progetto "Albedo control": una risposta sostenibile al riscaldamento globale" (In Italian) - "Albedo-Control project: a sustainable strategy against global warming". *Ambiente e Sicurezza*. Vol.5(2010), pp. 48-58.

**Papers in Conference Proceedings published in Scopus indexed journals:**

49. F.Asdrubali, **A.L. Pisello**, F. D'Alessandro, F. Bianchi, M. Cornicchia. Innovative cardboard based panels with recycled materials from the packaging industry: thermal and acoustic performance analysis. *Energy Procedia* 78 (2015) 321–326.
50. **A.L. Pisello**, Castaldo V.L., Piselli C., Pignatta G., Cotana G. Combined thermal effect of cool roof and cool façade on a prototype building. *Energy Procedia* 78 (2015) 1556–1561.
51. **Pisello A.L.**, Cotana F., 2015. Thermal-energy and environmental impact of cool clay tiles for residential buildings in Italy. *International Conference on Sustainable Design, Engineering and Construction*. *Procedia Engineering*.
52. Rosso F., **Pisello A.L.**, Pignatta G., Castaldo V.L., Piselli C., Cotana F., Ferrero M., 2015. Outdoor thermal and visual perception of natural cool materials for roof and urban paving. *International Conference on Sustainable Design, Engineering and Construction*. *Procedia Engineering*.
53. **Pisello A.L.**, Cotana F., 2015. Experimental and numerical study on thermal performance of new cool clay tiles in residential buildings in Europe. *The 7th International Conference on Applied Energy – ICAE2015*. *Energy Procedia*.
54. **Pisello A.L.**, Cotana F., Brinchi L., 2013. On a cool coating for roof clay tiles: development of the prototype and thermal-energy assessment. *Energy Procedia*: 45: 453-462.

55. Cotana, F., Belardi P., Manciola, P., Tamagnini, C., Materazzi, A.L., Fornaciari, M., Petrozzi, A., **Pisello, A. L.** et al. TIAR: Renewable energy production, storage and distribution; a new multidisciplinary approach for the design of rural facility. *Energy Procedia*; 45: 323-332.
56. Cotana F., Petrozzi A., Coccia V., Cavalaglio G., **Pisello A.L.**, Merico M.C., Pertosa M., Moretti E., 2013. An innovative small sized anaerobic digester integrated in historic building *Energy Procedia* 45 (2014) 333 – 341
57. **Pisello A.L.**, Petrozzi A., Castaldo V.L., Cotana F., Energy refurbishment of historical buildings with public function: parametric optimization and pilot case proposal. Vol. 61. *Energy Procedia*, 2014.
58. Bonamente E., Merico M.C., Pignatta G., **Pisello A.L.**, Cotana F., Environmental impact of industrial prefabricated buildings: Carbon and Energy Footprint analysis based on an LCA approach. Vol. 61. *Energy Procedia*, 2014.
59. Boarin P., Guglielmino D., **Pisello A.L.**, Cotana F., Sustainability assessment of historic buildings: lesson learnt from an Italian case study through LEED® rating system. Vol. 61. *Energy Procedia*, 2014.
60. Cotana F., Petrozzi A., Cavalaglio G., Coccia V., **Pisello A.L.**, A batch digester plant for biogas production and energy enhancement of organic residues from collective activities. Vol. 61. *Energy Procedia*, 2014.
61. Cotana, F., Petrozzi, A., **Pisello, A.L.**, Coccia, V., Cavalaglio, G., Moretti, E. 2013. An innovative small sized anaerobic digester integrated in historic building. *Energy Procedia*; 45: 333-341.
62. Cotana, F., Belardi P., Manciola, P., Tamagnini, C., Materazzi, A.L., Fornaciari, M., Petrozzi, A., **Pisello, A. L.** et al. TIAR: Renewable energy production, storage and distribution; a new multidisciplinary approach for the design of rural facility. *Energy Procedia*; 45: 323-332.

#### Papers in Conference Proceedings:

1. **Anna Laura Pisello**, Veronica Luicia Castaldo, Cristina Piselli, Claudia Fabiani and Franco Cotana. Can we assume that peers behave the same? Results from a continuous monitoring campaign in an office building. CLIMA 2016 International conference. Aalborg (Denmark), May 2016.
2. Simona D'Oca, Stefano Corgnati, **Anna Laura Pisello** and Tianzhen Hong. Introduction to an occupant behavior motivation survey framework CLIMA 2016 International conference. Aalborg (Denmark), May 2016.
3. **A.L. Pisello**, E. Fortunati, C. Fabiani, S. Mattioli, F. Dominici, L. Torre, L.F. Cabeza, F. Cotana. On the PCMs' effect for optimizing cool membrane weathering resistance. CIRIAF International Conference, Perugia 2016 (April).
4. **A.L. Pisello**, A. D'Alessandro, C. Fabiani, F. Ubertini, L.F. Cabeza, F. Cotana. Thermal characterization of a new macroencapsulated matrix-type PCM as additive for cement-based materials. CIRIAF International Conference, Perugia 2016 (April).
5. **A.L. Pisello**, C. Fabiani, G. Cavalaglio, A. Nicolini, M. Barbanera, F. Cotana. Sustainable new brick and insulation panel from mineralization of stranded driftwood residues. CIRIAF International Conference, Perugia 2016 (April).
6. G. Pignatta, **A.L. Pisello**, F. Cotana. Environmental analysis of innovative and sustainable cool skins for building roofs. CIRIAF International Conference, Perugia 2016 (April).
7. **A.L. Pisello**, C. Piselli, G. Pignatta, C. Fabiani, F. Ubertini, F. Cotana, M. Santamouris. Net Zero Energy settlements in Europe: first findings of the Zero-Plus Horizon 2020 project. CIRIAF International Conference, Perugia 2016 (April).

8. F. Rosso, **A.L. Pisello**, W. Jin, M. Ghandehari, F. Cotana, M. Ferrero. Experimental analysis of marble building envelope degradation caused by acid rain: optic characteristics and color change. CIRIAF International Conference, Perugia 2016 (April).
9. **A.L. Pisello**, V.L. Castaldo, C. Piselli, I. Pigliautile, F. Cotana. Combined experimental and numerical assessment for investigating the impact of different boundary conditions on local microclimate. CIRIAF International Conference, Perugia 2016 (April).
10. G. Cavalaglio, M. Gelosia, S. D'Antonio, A. Nicolini, **A.L. Pisello**, M. Barbanera, F. Cotana. Lignocellulosic ethanol production from the recovery of stranded driftwood residues. CIRIAF International Conference, Perugia 2016 (April).
11. F. Cotana, C. Buratti, M. Barbanera, G. Cavalaglio, D. Foschini, A. Nicolini, **A. L. Pisello**. Driftwood biomass in Italy: estimation and characterization. CIRIAF International Conference, Perugia 2016 (April).
12. **A.L. Pisello**, V.L. Castaldo, F. Cotana, Y. Han, J.E. Taylor. Inter-Building Effects: the state of art for investigating buildings' thermal-energy performance in urban areas. CIRIAF International Conference, Perugia 2016 (April).
13. **A.L. Pisello**, E. Fortunati, S. Mattioli, C. Barreneche, F. Dominici, C. Piselli, V.L. Castaldo, L.F. Cabeza, F. Cotana, L. Torre, J.M. Kenny, Multipurpose characterization of cool roof membrane with paraffin based PCM inclusion. INNOSTORAGE Conference. Israel, 2016.
14. **A.L. Pisello**, L.F. Cabeza, F. Cotana, How cool roofs interact with PCMs: investigating thermal-energy behavior of a cool roof membrane with paraffin based PCM inclusion. AIVC Conference, Madrid 2015.
15. Anna Laura Pisello\*1, Luisa F. Cabeza2, Franco Cotana, F. Asdrubali, **A.L. Pisello**, F. D'Alessandro, F. Bianchi, M. Cornicchia. Innovative cardboard based panels with recycled materials from the packaging industry: thermal and acoustic performance analysis. 6th International Building Physics Conference, IBPC 2015, At Turin, Italy
16. **A.L. Pisello**, Castaldo V.L., Piselli C., Pignatta G., Cotana G. Combined thermal effect of cool roof and cool façade on a prototype building. 6th International Building Physics Conference, IBPC 2015.
17. **Pisello A.L.**, Cotana F., 2015. Thermal-energy and environmental impact of cool clay tiles for residential buildings in Italy. International Conference on Sustainable Design, Engineering and Construction. Chicago USA 10-13 May 2015.
18. Rosso F., **Pisello A.L.**, Pignatta G., Castaldo V.L., Piselli C., Cotana F., Ferrero M., 2015. Outdoor thermal and visual perception of natural cool materials for roof and urban paving. International Conference on Sustainable Design, Engineering and Construction. Chicago USA 10-13 May 2015.
19. **Pisello A.L.**, Cotana F., 2015. Experimental and numerical study on thermal performance of new cool clay tiles in residential buildings in Europe. The 7th International Conference on Applied Energy – ICAE2015. Abu Dhabi 2015.
20. **Pisello A. L.**, V. L. Castaldo, G. Pignatta, F. Cotana. Evaluation of the thermal-energy performance of naturally "cool" gravel covering for cool roof and cool pavement application: a case study. IC2UHI Venice, Italy, October 13-15, 2014.
21. **Pisello A. L.**, V. L. Castaldo, G. Pignatta, F. Cotana. Experimental analysis of the thermal-optical properties of polyurethane waterproof liquid membranes for cool roof application. IC2UHI Venice, Italy, October 13-15, 2014.
22. **Pisello A.L.**, Castaldo V.L., Cotana F., Dynamic thermal-energy performance analysis of a prototype building with integrated phase change materials. ATI 2014 - 69° Milano, Italy, September 10-12, 2014.
23. Cotana F., Cavalaglio G., Coccia V., **Pisello A.L.**, Petrozzi A., Gelosia M., Simultaneous saccharification and fermentation of common reed (*Phragmites Australis*) at high solid loading. World Lake Conference. Perugia, Italy. September 1-5, 2014.



24. Petrozzi A., **Pisello A.L.**, Cavalaglio G., Coccia V., Gelosia M., Castaldo V.L., Pertosa M., Energy enhancement of marsh reed as biofuel for thermal boiler. World Lake Conference. Perugia, Italy. September 1-5, 2014.
25. **Pisello A.L.**, Coccia V., Cavalaglio G., Di Francesco S., Aquino A., Petrozzi A., Water heat pumps using water from lakes. State of the art and case study. World Lake Conference. Perugia, Italy. September 1-5, 2014.
26. **Pisello A.L.**, Castaldo V.L., Pignatta G., Cotana F., The effect of lake microclimate on thermal-energy behavior of building. World Lake Conference. Perugia, Italy. September 1-5, 2014.
27. Petrozzi A., Di Francesco S., **Pisello A.L.**, Aquino A., A new model for photovoltaics integration with hydropower: a case study. World Lake Conference. Perugia, Italy. September 1-5, 2014.
28. **Pisello A.L.**, Petrozzi A., Castaldo V.L., Cotana F., Energy refurbishment of historical buildings with public function: parametric optimization and pilot case proposal. The 6th International Conference on Applied Energy – ICAE2014.
29. Bonamente E., Merico M.C., Pignatta G., **Pisello A.L.**, Cotana F., Environmental impact of industrial prefabricated buildings: Carbon and Energy Footprint analysis based on an LCA approach. The 6th International Conference on Applied Energy – ICAE2014.
30. Boarin P., Guglielmino D., **Pisello A.L.**, Cotana F., Sustainability assessment of historic buildings: lesson learnt from an Italian case study through LEED® rating system. The 6th International Conference on Applied Energy – ICAE2014.
31. Cotana F., Petrozzi A., Cavalaglio G., Coccia V., **Pisello A.L.**, A batch digester plant for biogas production and energy enhancement of organic residues from collective activities. The 6th International Conference on Applied Energy – ICAE2014.
32. **Pisello, A.L.**, Castaldo V.L., Pignatta G., Cotana, F., Experimental analysis of natural gravel covering as cool roof and cool pavement. 14th CIRIAF National Congress. Perugia, Italy. April 4-5, 2014.
33. Moncada Lo Giudice G., Bianchi F., **Pisello A.L.**, Baldinelli G., Asdrubali F., Infrared thermography assessment of thermal bridges in building envelope: experimental validation in a test room setup. 14th CIRIAF National Congress. Perugia, Italy. April 4-5, 2014.
34. Pertosa M., **Pisello, A.L.**, Castaldo V.L., Cotana, F., Environmental sustainability concept applied to historic buildings: the experience of LEED international protocol in the stable of Sant'Apollinare fortress in Perugia. 14th CIRIAF National Congress. Perugia, Italy. April 4-5, 2014.
35. Rosso F., **Pisello A.L.**, Cotana F., Ferrero M., Integrated thermal-energy analysis of innovative translucent white marble for building envelope application. 14th CIRIAF National Congress. Perugia, Italy. April 4-5, 2014.
36. **Pisello A.L.**, Castaldo V.L., Castellini I., Cotana F., Experimental evaluation of the indoor thermal environment of an Italian historical subterranean museum space. 14th CIRIAF National Congress. Perugia, Italy. April 4-5, 2014.
37. Cotana F., Barbanera M., **Pisello A.L.**, Castaldo V.L., Castellini I., Strategie di impiego del materiale ligneo depositato sugli arenili. 14th CIRIAF National Congress. Perugia, Italy. April 4-5, 2014.
38. **Pisello A.L.**, Cotana F., 2014. Thermal-energy performance of high reflective tiles in historic buildings. AICARR International conference. Rome, Italy, 26th – 28th February.
39. **Pisello, A.L.**, Petrozzi, A., Castaldo V.L., Cotana, F., On an innovative integration strategy of renewable energy system in historic build-ing with public function. AICARR International conference. Rome, Italy, 26th – 28th February.
40. F.Rossi, A.Nicolini, E.Bonamente, **A.L.Pisello**, V.Coccia, B.Castellani, E.Morini, "A scale model for the Urban Canyon Effect quantification: preliminary data analysis", International Sustainable Built Environment Conference, Doha, Qatar, 28-30 January 2014.
41. **Pisello A.L.** 2013. ENERGY EFFICIENCY OF BUILDINGS AT INTER-BUILDING SCALE: REVIEW OF STRATEGIES FOR PERFORMANCE ANALYSIS AND OPTIMIZATION. Proceedings of the 2013 Winter Simulation Conference. 44<sup>th</sup> INTERNATIONAL CONGRESS & EXHIBITION ON HEATING, REFRIGERATION AND AIR CONDITIONING. Belgrade, Sava Center, December 4–6.
42. **Pisello A.L.**, Taylor J.T., Cotana F., 2013. Simulating the effect of urban morphology on indoor thermal behavior: an Italian case study. Proceedings of the 2013 Winter Simulation Conference. December 8-11. Washington DC.

43. Cotana F., Petrozzi A., Di Francesco S., Manciola P., Biscarini C., Nardi F., Nicolini A., Pisello A.L., Coccia V., Cavalaglio G., Merico M.C. 2013. Environmental hydraulics rural tower for the energy production and accumulation from renewable sources. International Conference on Applied Energy ICAE 2013, Jul 1-4, Pretoria, South Africa.
44. Cotana F., Rossi F., Coccia V., Pisello A.L., Bonamente E., Petrozzi A., Cavalaglio G., 2013. Albedo control as an effective strategy to tackle global warming: a Tunisian case study. International Conference on Applied Energy ICAE 2013, Jul 1-4, Pretoria, South Africa.
45. **Pisello A.L.**, Santamouris M., Cotana F., 2013. On the analysis of cool roofs for cooling system efficiency. 2013 AIVC - TightVent - Cool Roofs - venticool Conference. Athens, September 25-26.
46. Rossi F., Cotana F., Coccia V., **Pisello A.L.**, Bonamente E., Palombo M., Pignatta G., Morini E., 2013. Modelling of urban canyon: analytical and experimental remarks. 2013 AIVC - TightVent - Cool Roofs - venticool Conference. Athens, September 25-26.
47. **Pisello A.L.**, Cotana F., Brinchi L., 2013. On a cool coating for roof clay tiles: development of the prototype and thermal-energy assessment. 68 Congresso Nazionale Associazione Termotecnica Italiana. Bologna, 11-13 Settembre.
48. Cotana F., .....; **Pisello A.L.**, et al., 2013. TIAR: Renewable energy production, storage and distribution; a new multidisciplinary approach for the design of rural facility. 68 Congresso Nazionale Associazione Termotecnica Italiana. Bologna, 11-13 Settembre.
49. Cotana F., Petrozzi A., Coccia V., Cavalaglio G., **Pisello A.L.**, Merico M.C., Pertosa M., Moretti E., 2013. An innovative small sized anaerobic digester integrated in historic building. 68 Congresso Nazionale Associazione Termotecnica Italiana. Bologna, 11-13 Settembre.
50. F. Cotana, A. Petrozzi, V. Coccia, M. Gelosia, G. Cavalaglio, **A. L. Pisello**. AN INNOVATIVE BIO-DIGESTER FOR BIOGAS PRODUCTION AND ENERGETIC ENHANCEMENT IN A LITTLE SIZED ENGINE. European Biomass Conference and Exhibition (EU BC&E). Hamburg 23-23 June 2013.
51. **Pisello A.L.**, Rossi F., Cotana F., 2012. "On the impact of cool roofs in Italian residential buildings: experimental assessment of summer and winter performance". Proceedings of International Conference Sustainable Energy in Buildings and Urban Areas, October 14-20, Kusadasi, Turkey.
52. **Pisello A.L.**, Rossi F., Cotana F., 2012. "Thermophysical impact of reflecting roof tiles: year-round continuous monitoring" (In Italian: "Impatto termo fisico di tegole riflettenti: monitoraggio in continuo estivo ed invernale"). Proceedings of ATI Conference, September 13-17, Trieste, Italy.
53. **Pisello A.L.**, Thiemann A., Santamouris M., Cotana F., 2012. "Analysis of a cool roof system for reducing cooling loads and improving cooling system efficiency". Rehva International Conference CLIMA 2013, June 16-19, Prague.
54. **Pisello A.L.**, Rossi F., Cotana F., 2011. "Increasing roof albedo: a retrofitting strategy for buildings and environment". Proceedings of 48<sup>th</sup> International AICARR Conference on Energy Retrofitting of Existing Buildings – 22-23 September – Baveno, Italy.
55. **Pisello A.L.**, Goretti M., Cotana F., 2011. "Building energy efficiency assessment by integrated strategies: dynamic simulation, sensitivity analysis and experimental activity". Proceedings of Third International Conference on Applied Energy - 16-18 May 2011 - Perugia, Italy.
56. Cotana F, **Pisello A.L.**, 2010, "Sul comportamento termico di edifici residenziali al variare della configurazione architettonica" (in Italian), - "Buildings thermal behavior analysis varying architectural layout". Proceedings of ATI Conference, September 13-17, Cagliari, Italy.
57. **Pisello A.L.**, 2010, "Sul comportamento termico in regime dinamico di edifici passivi: ruolo della configurazione architettonica e dell'involucro edilizio" (In Italian) – "Dynamic thermal behavior of free-running buildings: architectural layout and envelope design role". Poster presentation. Summer School of Applied Physics, July 5-9, Benevento, Italy.

58. Xu X., **Pisello A.L.**, Taylor J. E., 2011. "Inter-Building Energy Efficiency simulation with occupants networks". Proceedings of the 2011 Winter Simulation Conference – 11-14 December 2011 – Phoenix, Arizona.
59. F. Cotana, A. Petrozzi, V. Coccia, M. Gelosia, G. Cavalaglio, **A. L. Pisello**, 2013. "An innovative bio-digester for biogas production and energetic enhancement in a little size engine". International Biomass Conference. June 2013, Copenhagen.

**Chapters in books:**

1. **A.L. Pisello**, F. Cotana, M. Filippi, E. Fabrizio, 2012. "Introduction to the thermoenergy dynamic simulation of buildings. D. Residential building" (In Italian: "Introduzione alla simulazione termoenergetica dinamica degli edifici. D. Edificio residenziale"). Chapter in a book. Published by Editoriale Delfino, pp. 119-125.
2. **A.L. Pisello**, F. Cotana, 2013. "Existing Buildings' Energy Upgrade: An Economical and environmentally Sustainable Opportunity". Chapter in a book "Corporate Sustainability", pp. 265-280. Springer Editions.
3. **A.L. Pisello**, Book: Eco-efficient materials for mitigating building cooling needs. Chapter 10. High albedo roof coatings for reducing building cooling needs. Woodhead Elsevier Publishing.
4. **A.L. Pisello**, R. Paolini, M.V. Diamanti, E. Fortunati, V.L. Castaldo, L. Torre. NANO AND BIOTECH BASED MATERIALS FOR ENERGY BUILDING EFFICIENCY, Chapter 7. Nano-tech based cool materials for building energy efficiency.
5. **A.L. Pisello**, F. Rosso. "Natural Materials for Thermal Insulation and Passive Cooling Application" in Key Engineering Materials Vol. 666 (2016) pp 1-16 (2016) Trans Tech Publications, Switzerland  
doi:10.4028/www.scientific.net/KEM.666.1
6. S.P. Corgnati, F. Cotana, S. D'Oca, **A.L. Pisello**, F. Rosso. "A cost-effective human based energy retrofitting approach". Cost-Effective Energy Efficient Building Retrofitting: Materials, Technologies, Optimization and Case Studies. Editors: F.Pacheco Torgal et al. Elsevier publishing.