






PERSONAL INFORMATION

Sofia-Natalia Boemi



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Sex Female | Date of birth 19/08/1980 | Nationality Greek

EXPERIENCE SUMMARY

- Post-Doc Researcher at PEDL – AUTH (2014-)
- Member of the PASSPARTOUT team that promotes the institution “Cultural Ports” (2014-2015)
- Adjunct Lecturer at the M.Sc. Program “The Technologies of Environmental Legislation”, DUTH (2014-2015).
- Post Doc Researcher at INEGI – FEUP (2013-2014)
- Mentor for Green Entrepreneurship at NCHC (2012-2015)
- Senior Research Associate at LHTEE – AUTH (2005-2013)
- Scientific Researcher at Alpha MENTOR Ltd, Greece (2006-2015)
- Researcher and deputy project manager at 15 National or European Projects (2006-2014)
- Expert for energy and environmental issues for the Regional Unity of Halkidiki, Greece (2012-2014)
- Expert for energy and environmental issues for the Halkidiki Hotel Association (2012-2014)
- Reviewer at 11 scientific journals.

JOB APPLIED FOR

Project Officer at the Joint Secretariat (J.S.) of the Transnational Cooperation Programme INTERREG V-B “Balkan Mediterranean 2014-2020”

WORK EXPERIENCE

01.09.2014 – 31.08.2016

Post- Doc Researcher – Environmental Engineer

Process Equipment Design Laboratory (PEDL),
 Department of Mechanical Engineering, Aristotle University of Thessaloniki (AUTH), Greece.
Scholarship from the Greek State Scholarships Foundation (IKY) about climate change and energy poverty.

- Researcher in energy and environmental efficiency in the built environment and renewable energy sources.
- Responsible for developing new ideas, research for funds, proposal writing and submission of new research projects.
- Supervision of student dissertations in the field of climate change and energy poverty.

University

01.10.2014 – 30.09.2015

Member at the PASSPARTOUT team

Promotion, organization and marketing of all actions need to establish the new institution “Cultural Ports”.

The project is being implemented in the framework of the Black Sea CBC project “LIMEN-Cultural Ports from Aegean to the Black Sea. Common borders. Common Solutions”.

Leader: Center of Byzantine and Post-Byzantine monuments (EKBMM).

- Participation to the study team for the feasibility study of the new Institution.
- Development of new communication ideas for the Institution.
- Responsible for organising the working team.
- Participation to the dissemination activities.

Tourism Marketing

01.09.2014 – 31.01.2015

Adjunct Lecturer

M.Sc. Program “The Technologies of Environmental Legislation”

Department of Environmental Engineering, Democritus University of Thrace, Greece.

- Delivering lectures, training material about:
 - EU and Greek legislation for energy efficiency.
 - EU and Greek legislation and environmental management systems.

The content of the lectures focused also on their training as entrepreneurs and how they can enhance their activities by implementing what they have learned.

- Involvement in the framework of the module “Technical and environmental management and its economic evaluation” with responsible person Dr. Ioannis Nikolaou, Lecturer.

University

01.09.2013 – 31.08.2014

Post- Doc Researcher – Environmental Engineer

Institute of Mechanical Engineering and Industrial Management (INEGI)

Polytechnic School of Porto, Portugal (FEUP).

Post-doc scholarship in the framework of the project E2BE (Energy Efficiency in the Built Environment), financed by CCDR-N through contract SAESCTN-PIIC&DT/1/2011 - Norte -07- 0124-FEDER-000036.

Responsible Person: Prof. Oliveira Fernandez.

Graded position: (Energy Planning).

- Deep understanding of the problematic of the energy demand and the place of the energy efficiency vs strategies of demand side and of their technological and social drivers and dynamics.
- Responsible for the record and analysis of the building stock of North Portugal and in particular for non-residential buildings, such as hotels, hospitals and office buildings.
- Development of new project ideas.
- Research for funds.
- Proposal writing and submission.

Research Institute

20.11.2012 – 30.06.2015

Consultant in Environmental issues - Green mentor

National Confederation of Hellenic Commerce (NCHC)

Green mentor to the project “Support actions for green business and corporate social responsibility for small and very small enterprises” that is implemented by the National Confederation of Hellenic Commerce (NCHC).

- Mentor in issues concerning environmental friendly entrepreneurship
- Technical assistant about energy efficiency issues
- Mentor in issues about social corporate responsibility

Business Federation

01.01.2006 – 30.11.2013

Senior Research Associate – Environmental Engineer

Laboratory of Heat Transfer and Environmental Engineering (LHTEE)

Department of Mechanical Engineering, Aristotle University of Thessaloniki, Greece (AUTH)

- Participation to educational activities.
- Daily supervision of student dissertations in the field of energy efficiency in buildings.
- Development of new project ideas
- Participation to the writing and submission process for new projects.
- Contribution to the managerial team of national and EU projects
- Main researcher in 4 EU projects.
- Participation as a deputy manager in 4 EU and national projects.
- Consultant in 1 national project.
- Participation as a researcher in 7 national and EU projects.

University

30.05.2006 – 30.06.2015

Scientific Researcher and Consultant

Alpha MENTOR S.A.

Participation on developing new ideas, promoting them and to the writing processes of submitting Research Project for grant from EU and Hellenic funds.

Participation as a consultant – Environment Scientist on writing environmental impact studies and developmental studies.

Specifically:

- Study program for the development and promotion of different forms of tourism and spatial development of Northeast Halkidiki. Funded by: Halkidiki Hotel Association, Scientific Responsible: Dr. Spyros Avdimiotis, Lecturer Technical Institute of Thessaloniki, Anastasia Chatzinikolaou (from Alpha MENTOR)
- Strategic Environmental Impact Study of the Special Framework for Spatial Planning and Sustainable Development of Aquaculture”. Funded by: Ministry of Environment, Energy and Climate Change, Duration: 1 month, Scientific responsible: Alpha MENTOR S.A.
 - Responsible for the chapter about sustainable tourism.
 - Structure and configuration of the final study.
- Chromium in groundwater of the river Asopus – Find rehabilitation technologies and measures (CHARM). Funded by: LIFE-ENVIRONMENT, Duration: 1/09/2011 – 31/08/2015, Scientific Responsible: Dimitris Mamais, Assoc. Professor of the Department Civil Engineering, NTUA
 - Participation to the financial management of the project.
 - Co-responsible for reporting with Dr. Koukara.
 - Participation as member of Alpha to meetings.
- Environmental impact study for the Business park of Kavala, Greece.
 - Participation to the writing team as an environmental scientist and consultant.
 - Structure and configuration of the final study.
- Restoration of the Tower Nebojsa in Belgrade. Funded by: Ministry of external affairs (Hellenic Aid), Scientific Responsible for Greece: E.K.V.M.M., Duration: 06.2009 – 09.2012.
 - Participation to the financial management and resources of the project.
 - Development of the quality management system for the project.
- Environmental impact study for the establishment of laboratory testing and

certifying safety and health of shellfish. Funded by: Regional Unity of Thessaloniki, Scientific responsible: Nearhos S.A.

- Co-author with Dr. Koukaras as an environmental scientist and consultant.
- Preparation and submission of the proposal “OLKAS: From the Aegean to the Black Sea” – Medieval Ports in the Maritime Routs of the East” for funding by the Joint Operational Programme “BLACK SEA 2007-2013 with scientific responsible: E.K.B.M.M.
 - Participation to the writing process of the proposal.
 - Participation to the financial management and resources of the proposal.
- Sustainable hotels in the Mediterranean Islands and area (ShMILE), Funded by: LIFE-ENVIRONMENT.
 - Co-responsible with Anastasia Chatzinikolaou for the fulfilment of the project.

Consultant company – studies and project management

01.01.2010 – 15.02.2010 **External Collaborator**

Planet S.A

- External consultant for evaluating the financial part of proposals submitted for fund under the NSRF 2007-2012.

Consulting company

30.10.2006 – 13.03.2015 **Freelance Environmental Engineer**

Providing consulting services to municipalities and businesses in order to prepare and submit funding proposals and edit environmental impact studies

Indicative:

- **Strategic Environmental Impact Study of the Special Framework for Spatial Planning and Sustainable Development of Tourism.** Funded by: Ministry of Environment, Energy and Climate Change, Duration: 1 month
 - Responsible for the scientific team.
 - Structure and configuration of the final study.
- **Expert in sustainability issues** concerning tourism and eco-labelling for the **Regional Unity of Halkidiki and Halkidiki Hotel Association** in the framework of “ShMILE II: From experimentation to dissemination of the Ecolabel in the Mediterranean”. Funded by: CBC MED. Duration: 02.01.2012 – 30.04.2014.
- Environmental consultant to the study about solving and ensuring functionality of the lake constructions in Regional Unity of Florina, Greece.
- Environmental consultant for the environmental impact study for the operation of the waste landfill in the municipality of Dion-Litohoro, Greece.
- Air quality studies for the shopping centers, "Pantheon Plaza" in Larissa and "Mediterranean Cosmos" in Thessaloniki, Greece. The In-situ measurements were made in order to obtain environmental label ISO 14001.
- Participation to the study team of the “Evaluation of the energy performance and the indoor air quality of the Municipality Hall and the elderly recreational centre at Michaniona, Greece”.
 - Responsible for the scientific team.
 - Responsible for the in-situ measurements.
- Responsible for the organization of the 2nd Alumni Meeting of the German Academic Exchange Service on 16th – 22nd May, Thessaloniki, Greece. The meeting concerned the Renewable Energy, Environmental Conservation, and Grid Integration of decentralized and independent Energy systems.

Freelancing – Consulting
 01.07.2004 – 01.08. 2004 &
 01.07.2003 – 01.09.2003
Practical Training
 Samaras and Associates – Consultant Engineers, Integrated Engineering Consulting Services
 Department of Industry and Environment ,
 ▪ Participation to the writing team of environmental impact studies.

Consultant company
 08.07.2002–08.08.2002
Practical Training
 Regional Unity of Halkidiki, Department of Environment
 ▪ Participation on the evaluation of the environmental impact studies.
 ▪ Administrative responsibilities.

Public body

EDUCATION AND TRAINING

01.03.2006 – 19.01.2012 **Doctorate** EQF:8
 University of Western Greece and Ioannina , Greece (now the Department belong to the
 School of Engineering, University of Patra)
 Department of Environmental and Natural Management Resources

Dissertation title **“Energy and Environmental Management of the Greek Hotel Building Stock”**.

Dissertation degree: Excellent

- Development of basic and applied research
- Development of research programs
- Support of the academic activities
- Daily supervisor in thesis
- Participation in conferences
- Paper writing for peer reviewed journal
- Conducting training seminars and technical training for companies and vocational training centres
- Responsible for the technical equipment and measurements for indoor air quality in buildings (temperature, humidity, CO₂), for measurement with the infrared camera and for outdoor measurements.

01.10.1999 – 15.07.2005 **Degree (Equivalent to MSc + BSc)** EQF: 6
 University of Ioannina, Greece
 Department of Environmental and Natural Resources Management
 Degree: 7.23/10.00
 Thesis: **“The effect of using night ventilation in an office building at energy conservation”**
 Thesis degree: 10.00/10.00

PERSONAL SKILLS

Mother tongue(s) **Greek**

Other language(s)

UNDERSTANDING	SPEAKING	WRITING

	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Certificate of Proficiency in English (ECPE), University of Michigan. International English Language Testing System (IELTS)					

Communication skills Communication skills developed through the academic activities in Greece and abroad (eg support to teaching and dissertations), during the support and implementation of training seminars at vocational training centres, workshops and conferences for companies and public bodies, from my participation in the Alumni Board of graduates from Department of Environmental and Natural Resources Management and from my professional experience as a project manager and consultant. Also, from my participation in a wide range of EU and national projects during me professional and academic carrier.

Organisational / managerial skills

- Editor of the book “Energy Performance of Buildings – Energy Efficiency and Built Environment in Temperate Climates” published by Springer International Publishing AG (3 editors, 38 authors).
- Responsible for the organisation of the activities of PASSPARTOUT team for the establishment and promotion of the new Institution “Cultural Ports” (4 persons).
- Responsible for awarding small enterprises with eco-label, for CSR activities and for their progress to the project implemented by NCHC (2 enterprises).
- Responsible for a team conducting research for the building stock analysis of the North Portugal during the post-doc research in Portugal (2 persons).
- Responsible for the management of the scientific team for writing and submitting proposal for national and European programmes in cooperation with Alpha MENTOR S.A.(depending on the program, usually the working group was 5 persons).
- Leader of the scientific team for writing the strategic environmental impact study for tourism for the Ministry of Environment and Climate Change in Greece (5 persons)
- Responsible for conducting training activities and seminars and workshops in cooperation with vocational training centres and public bodies in the framework of EU and national projects (31 entrepreneurs, 2 Vocational training centres, 60 trainees)
- Coordination of the proposal submission with 21 partners from 14 countries.

Position-related skills

- Fully accustomed at working with deadlines, pressure and with the procedure of proposal preparation and implementation of a project. I got accustomed through my professional and academic experience as a manager and a consultant.
- Accustomed with the methodology and the criteria of environmental management systems and ISO 14001. I got accustomed with them during the implementation of ShMILE I and II and I used their methodology to my dissertation. Also I was an instructor on environmental management systems and ShMILE II seminars.
- Strong communication skills. I got accustomed during the participation of several proposals and implementing proposals. Also, I god accustomed during academic experience in AUTH and my training experience in vocational training centres.

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| Computer skills | <ul style="list-style-type: none"> ▪ Excellent capability to undertake initiatives and to solve problems. Since I was a deputy manager I had to react with several partners and to solve any issues occurred. Apart from that I am the author of a book with several writers, thus I had to undertake any problems in short time to keep up with the schedule. ▪ Excellent presentation skills. As a researcher I had to present my research in several conferences and meetings. ▪ Excellent command of Microsoft Office™ tools and Windows 8.1. ECDL holder ▪ Good command of: <ul style="list-style-type: none"> - Statistical program SPSS. - CorelDraw 12 - AutoCAD 2004 - Energy simulation programs: ENERGY PLUS and TEE-KENAK (Greek official simulation program). |
| Other skills | <ul style="list-style-type: none"> ▪ Scuba Diving, holder of the Rescue Diver certification from PADI ▪ Sailing, certified skipper ▪ Swimming, participation to the local swimming team ▪ Water Polo, member of the women team “Foivos Sikeon” |
| Driving licence | Driving licence category/-ies B |

ADDITIONAL INFORMATION

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|--------------|---|
| Publications | <p><i>Editor and Book author</i></p> <p>"Energy Performance of Buildings - Energy Efficiency and Built Environment in Temperate Climates".</p> <p>I am a co-editor with:</p> <ul style="list-style-type: none"> ▪ Mat Santamouris, Professor of the Physics Department, National and Kapodistrian University of Athens and ▪ Olatz Irulegi, Lecturer at the Architecture Faculty (Profesor Ayudante Doctor), University of the Basque Country. |
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Books

1. **Boemi S.N.**, Tziogas C., 2015. Energy Performance of Buildings - Energy Efficiency and Built Environment in Temperate Climates: Indicators for buildings energy performance. Springer, pp 76-109 (ISBN: 978-3-319-20831-2).
2. **Boemi S.N.**, Irugeli O., 2015. Energy Performance of Buildings - Energy Efficiency and Built Environment in Temperate Climates: Hotel industry: Current situation and its steps beyond sustainability. Springer, pp 235-250 (ISBN: 978-3-319-20831-2).
3. **Boemi S.N.**, Papadopoulos A.M., 2014. Renewable Energy (RE) Governance. Times of Recession: Three Different Renewable Energy Stories from the Mediterranean Region, pp 263-275. Springer (ISBN: 978-1-4471-5594-2).
4. **Boemi S.N.**, Cabras E., De Parseval M., 2014. From sustainable tourism to corporate social responsibility (Dal turismo sostenibile alla responsabilità sociale d'impresa). The level of diffusion of ecolabels and environmental certifications in the tourism sector of the Mediterranean area. University of

Naples (ISBN: 978-8-8960-5550-2).

Peer Reviewed Journal Papers

5. **Boemi S.N.**, Papadopoulos A.M., 2016. Domestic energy deprivation in North Greece: The energy poverty–fuel poverty binary. *International Journal of Sustainable Energy*, under review.
6. **Boemi S.N.**, Avdimiotis S., 2016. Sustainability Assessment in Tourist Facilities. *Journal of Environmental Protection and Ecology*, pp 1560-1564.
7. Antoniadou, P., Giama E., **Boemi S.N.**, Karlessi Th., Santamouris M., Papadopoulos A.M., 2015. Integrated Evaluation of the Performance of Composite Cool Thermal Insulation Materials. *Energy Procedia*, pp 1581–1586.
8. Leal V.M.S., Granadeiro V., Azevedo I., **Boemi S.N.**, 2015. Energy and economic analysis of building retrofit and energy offset scenarios for Net Zero Energy Buildings. *Advances in Building Energy Research* 9, pp 120-139.
9. Skoulika F., Santamouris M., Kolokotsa D., **Boemi S.N.**, 2014. On the thermal characteristics and the mitigation potential of a medium size urban park in Greece. *Landscape and Urban planning* 123, pp 73–86.
10. **Boemi S.N.**, Slini T., Papadopoulos A.M., Mihalakakou G., 2011. A statistical approach to the prediction of the hotel stock’s energy performance. *International Journal of Ventilation*, Vol 10, No 2, pp 163 - 172. (Accession Number: WOS:000294209800008)
11. Vardoulakis E., Karamanis D., Assimakopoulos M.N., **Boemi S.N.**, Mihalakakou G., 2011. Moisture sorption properties of modified porous clays for roof evaporative cooling applications. *International Journal of Ventilation*, Vol 10, No 2, pp 185-194. (Accession Number WOS:000294209800010).
12. Karkanias C., **Boemi S.N.**, Papadopoulos A.M., Tsoutsos T.D., Karagiannidis A., 2010. Energy efficiency in the Hellenic building sector: An assessment of the restrictions and perspectives of the market. *Energy Policy* 38, pp 2776-2784. (Accession Number WOS:000278055700028).
13. **Boemi S.N.**, Papadopoulos A.M., Karagiannidis A., Kontogianni S., 2010. Barriers on the propagation of renewable energy sources and sustainable solid waste management practices in Greece. *Waste Management & Research* 28, pp 967–976. (Accession Number: WOS:000283543500003).

Peer-reviewed Papers published in International Conference proceedings

14. **Boemi S.N.**, Panaras G., Papadopoulos A.M., 2016. Residential heating under energy poverty conditions: A field study. Sustainable synergies from buildings to the urban scale (SBE16 - Thessaloniki), Thessaloniki, Greece 17-19 October, accepted.
15. **Boemi S.N.**, Papadopoulos A.M., 2016. Domestic energy deprivation in North Greece: The energy poverty–fuel poverty binary. 5th International Conference on Renewable Energy Sources & Energy Efficiency, Nicosia, Cyprus 5-6 May, electronic proceedings.
16. **Boemi S.N.**, Tziogas Ch., Bozinis A., 2015. Economic development as a challenge and opportunity to overcome the energy poverty: The Greek study case. 6th International Conference on International Business (ICIB 2015). Thessaloniki, Greece, 22-24 May, proceedings (in greek).
17. **Boemi S.N.**, Antoniadou P., Giama E., Hadiarakou S., Karlessi Th., Santamouris M., Papadopoulos A., 2015. Integrated evaluation of composite cool thermal insulation materials under temperate climates. 17th

- International Symposium on Thermal Science and Engineering of Serbia (SIMTERM 2015), Sokobanja, Serbia, 20-23 October, e-proceedings pp 47-52.
18. Karlessi T., Santamouris M., Chadiarakou S., Kontos M., Leonidaki K., Antoniadou P., **Boemi S.N.**, Anastaselos D., Papadopoulos A., Alexopoulos E., 2014. Towards the assessment of Planning, Developing and Producing of Innovative Composite Cool-Thermal Insulating Materials. Conference on Countermeasures to Urban Heat Islands (IC2UHI). Venice, Italy, 13-15 October, proceedings.
 19. **Boemi S.N.**, Dias D., Leal V., 2014. Assessment of the resilience of north Portugal residential buildings to climate-change enhanced heat waves and of the potential contribution of cool paintings for its strengthen. International Conference on Countermeasures to Urban Heat Islands (IC2UHI). Venice, Italy, 13-15 October, proceedings.
 20. **Boemi S.N.**, Chadiarakou S., Karlessi Th, Leonidaki K., Anastaselos D., Alexopoulos E., Kontos M., Santamouris M., Papadopoulos A., 2013. A holistic approach of the development and application of innovative composite cool-thermal insulating materials. Energy Conservation Technologies for Mitigation and Adaptation in the Built Environment: The role of ventilation strategies and smart materials (AIVC conference). Athens, Greece, 25-26 September, proceedings, pp 163 – 165.
 21. **Boemi S.N.**, Avdimiotis S., Fotiadou K., 2012. Sustainability assessment in tourist facilities. International Conference on Tourism (ICOT), Archarnes, Crete, Greece, 23-26 May, proceedings, pp 49-57.
 22. **Boemi S.N.**, Slini T., Papadopoulos A.M., 2011. A statistical approach to the prediction of the hotel stock's energy performance. 4th International Scientific Conference on "Energy and Climate Change" (PROMITHEAS), Athens, Greece, 13-14 October, electronic proceedings.
 23. Giama E., Slini T., **Boemi S.N.**, Papadopoulos A.M., 2011. Overview of multi-criteria analysis methods for climate change policy. 4th International Scientific Conference on "Energy and Climate Change" (PROMITHEAS), Athens, Greece, 13-14 October, electronic proceedings.
 24. **Boemi S.N.**, Papadopoulos A.M., Fotiadis, T., Mihalakakou, Y., 2010. A study of energy performance of the Greek hotel sector. Protection and Restoration of the Environment X (PRE-10), Corfu, Greece, 05-09 July, proceedings.
 25. **Boemi S.N.**, Papadopoulos A.M., Mihalakakou Y., 2010. Creating a hotel building stock model focused on energy consumption. 3rd International Scientific Conference "Energy and Climate Change" (PROMITHEAS), Athens, Greece, 08-09 October, electronic proceedings.
 26. **Boemi S.N.**, Slini T., Papadopoulos A.M., 2010. A statistical approach to the prediction of the hotel stock's energy performance. 5th European Conference & Indoor Climate in Buildings (EPIC 2010) & 1st Cool Roofs Conference (PALENC), Rhodes Island, Greece, 29 September-1 October, CD proceedings.
 27. **Boemi S.N.**, Papadopoulos A.M., 2009. Energy performance of the Greek hotel sector. Proceedings of the 40th International Heating, Ventilation Air Conditioning Conference, Belgrade (KGH Congress), Serbia, 02-04 December, electronic proceedings.
 28. Papadopoulos A.M., **Boemi S.N.**, Kontogianni M., Karagiannidis A., 2009. Barriers on renewable energy sources in Greece. 2nd International Scientific Conference "Energy and Climate Change" (PROMITHEAS), Athens, Greece, 08-09 October, electronic proceedings.
 29. **Boemi S.N.**, Papadopoulos A.M., Mihalakakou Y., 2009. Energy policy and

environmental management in hotel industry. 2nd International Scientific Conference “Energy and Climate Change” (PROMITHEAS), Athens, Greece, 08-09 October, electronic proceedings.

30. **Boemi S.N.**, Kontogianni S., Karagiannidis A., Papadopoulos A.M., 2009. Developing practical guidelines for an observatory center on a progress of implementing projects on renewables and waste/wastewater. 2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) & SECOTOX Conference, Mykonos Island, Greece, 21-26 June, Proceedings Vol. 4, 393-398, CD-rom.

Peer-reviewed Papers published in Hellenic Conference proceedings

31. **Boemi S.N.**, Zervas E., 2014. A research into heating and thermal comfort in residential areas during the economic crisis. 10th National Conference National Conference for Renewable, Thessaloniki, 26-28 November, in Greek
32. Kaika D., Babatsiou C., **Boemi S.N.**, Zervas E., 2014. The CO₂ emissions as a global indicator of deprivation: The peculiarities in terms of negative externalities. 2^o Hellenic Conference in Environmental Economics: Climate Change, Volos, 31 October – 1 November, in Greek
33. **Boemi S.N.**, Slini T., Papadopoulos A.M., 2011. Greek hotel stock – Energy savings technical proposals for hotels. Architecture, Energy and Environment in buildings and in cities (ARENEP 2011), Athens, 3-4 May, in Greek.
34. **Boemi S.N.**, Papadopoulos A.M., Mihalakakou G., 2009. Energy policy implementation and environmental management in hotels. 3rd Conference of the Environmental Council of AUTH, “Climate change, Sustainable Development and Renewable Energy Systems”, Thessaloniki, 15–17 October, proceedings, in Greek.
35. **Boemi S.N.**, Papadopoulos A.M., Mihalakakou G., 2009. Environmental certification and energy management in hotels. 9th National Conference for Renewable Energy, Institute of Solar Technology, Geroskypou, Pathos, Cyprus, 26-28 March, proceedings, in Greek.
36. **Boemi S.N.**, Kontogianni S., Karagiannidis A., Papadopoulos A.M., 2009. Developing practical guidelines for an observatory progress projects one Renewable Energy and solid waste and wastewater. National Conference for Renewable Energy, Institute of Solar Technology, Geroskypou, Pathos, Cyprus, 26-28 March, proceedings, in Greek.
37. **Boemi S.N.**, Mihalakakou G., Papadopoulos A.M., 2007. Energy performance of hotel buildings. Energy Performance and Environmental Quality of Buildings Conference, Milos, 12-13 July, CD-rom proceedings, in Greek

Strategic Environmental
impact studies

- Strategic Environmental Impact Study of the Special Framework for Spatial Planning and Sustainable Development of Tourism. Funded by: Hellenic Ministry of Environment and Climate Change.
- Environmental impact study for the operation of the waste landfill in the municipality of Dion-Litohoro, Greece.

Honours and awards

Invited guest

1st workshop “Energy Poverty in Greece and the contribution of green and social innovation to address the problem”.

Around table with experts in the field organized by Institute of Zero Energy Buildings, Social Cooperative “Wind of Renewal” and Heinrich Böll Foundation Greece. It was the

first of a series of preparatory actions in order to collect as much information and suggestions as possible, to be incorporated in the policy paper.

Evaluator for Sustainable development

Bravo Sustainability Awards 2015 by QualityNet Foundation.

Invited Speaker

The organising committee invited me to the “17th International Symposium on Thermal Science and Engineering of Serbia (SIMTERM 2015)”, Sokobanja, Serbia, 20-23 October 2015, hosted by the Society of Thermal Engineers of Serbia. The presented paper was: “Integrated evaluation of composite cool thermal insulation materials under temperate climates”.

Invited speaker

Invited guest by the National Labour Institute (INEGSEE) to the International conference “Industrial Relations for a green economy”, Florence, Italy, 16-17 December 2013, hosted by Confederation of Trade Unions in Italy (CISL). The presentation was titled: “Green tourism and Ecolabel certification – The Geek case”.

Invited speaker

Invited guest of Regional Unity of Halkidiki and Halkidiki Hotel Association at the International Conference “Sustainable Tourism for the Mediterranean”, Aqaba, Jordan, 1-2 April 2014, hosted by the Ministry of Tourism and Antiquities of Jordan. The presentation was titled: “Sustainability and reduction of the energy use in the hotel industry through sound environmental management”.

Best Poster award for the paper:

“A holistic approach of the development and application of innovative composite cool-thermal insulating materials”

at the “Energy Conservation Technologies for Mitigation and Adaptation in the Built Environment: The role of ventilation strategies and smart materials (AIVC)” International Conference, Athens, 25-26 September 2013

Chairman

Energy Conservation Technologies for Mitigation and Adaptation in the Built Environment: The role of ventilation strategies and smart materials (AIVC)” International Conference, Athens, 25-26 September 2013.

Building Design Award for high environmental quality for the study of a building as part of the winter school on “Environmental Quality Indoor” Delphi 26-27 November 2005.

Lectures **20.11.2014 & 27.11.2014**

Lectures in the M.Sc. Program “The Technologies of Environmental Legislation”, Department of Environmental Engineering, Democritus University of Thrace about:

- EU and Greek legislation for energy efficiency.
- EU and Greek legislation and environmental management systems

10-11.04.2012

Lectures in the training program of the vocational training center ☐Institute of Tourism

Development of Makedonia (ITAM) that belongs to the Halkidiki Hotel Association about:

- Correlation between environmental and energy certification. The energy parameters evaluated on the criteria of the EU ecolabel.
- The use of an online software tool to identify hotels energy and environmental performance.

01.10.2009 – present

Daily Supervisor of 11 (completed) theses and three (3) under implementation.

Ten (10) at on the sector of "Energy Efficiency in the Building Sector", Department of Mechanical Engineering, University of Thessaloniki, Laboratory of Heat Transfer and Environmental Engineering (LHTEE):

- Theodoros Fotiadis, **"Energy audit and energy upgrade in the hotel sector"**, March 2010.
- Andreas Koutsokostas, **"Evaluation of the energy performance of a typical hotel at the third Greek climatic zone"**, October 2010.
- Panagiotis Felekidis, **"A guide for technical solutions for public buildings energy upgrade"**, March 2011.
- Panagiotis Kokkinis, **"Evaluation of the energy performance of the hotels in the second Greek climatic zone"**, July 2011.
- Pieris Georgiou, **"Energy study of the hotels in Ammochostos, Cyprus"**, July 2011.
- Charalambos Tsioupis, **"Energy study of the hotels in Paphos, Cyprus"**, July 2011.
- Aggelos Fytillis, **"Utilizing solar energy for heating and cooling purposes"** October 2011.
- Aggelos Sotiriou, **"Evaluating heating and cooling needs and economic analysis of a cogeneration unit at the Hospital AHEPA"**, October 2011.
- Charalambos Christodoulidis, **"Evaluating heating and cooling needs and economic analysis of a cogeneration unit at AUTH"**, March 2012.
- George Seritoglou, **"Comparison of static and dynamic simulation – study of a typical two-floor building"**, March 2012.

One (1) with at the Department of Tourism Management of Thessaloniki :

- Kalliopi Fotiadou, **"Study of the environmental management systems in hotels"**, July 2012.

Two (2) under implementation with the Department of Mechanical Engineer at Aristotle University of Thessaloniki, Process Equipment Design Laboratory:

- Anna Tsesmelidou, **"Study of the energy behavior of household in the region of Eastern Macedonia and Evros"**.
- Aikaterini Tsiantoula, **"Measuring Energy poverty in North Greece"**.

One (1) under implementation with the Department of Mechanical Engineer, University of Western Macedonia

- Marilena Michou, **"Study of the energy behavior of household in the region of Western Macedonia"**.

Participation to the academic procedures of the Department of Mechanical Engineering, AUTH.

19.05.2010 & 24.11.2010

Lectures at the public University of the municipality of Neapoli – Sikies on energy efficiency; considering:

- **Energy conservation in the building sector – The Greek situation.**
- **Myths and Realities at improving building's energy performance**

31.08.2009 – 15.10.2009

Lectures at AXON Kamara in the framework of an educational programme organized by the Technical Chamber of Greece considering:

- **Trying to improve energy efficiency in buildings. Learning the European Application Methods for improving the energy efficiency of buildings (60 hours).**
- **Application studies for renewable energy systems (RES) (60 hours)**

Reviewer

- Energy and Buildings, Elsevier
- Energy policy, Elsevier
- Solar Energy, Elsevier
- Sustainable Cities and Societies, Elsevier
- Journal of Energy, Elsevier
- Journal of Behavioural and Experimental Economics, Elsevier
- Advances in Building Energy Research, Taylor & Francis Online
- International Journal of Sustainable Energy, Taylor & Francis
- Journal of Low-Carbon Technologies, Oxford Journals
- Plos ONE
- Environmental Engineering and Management Journal, Gheorghe Asachi Technical University of Iasi

Projects

My participation to the projects below started from the idea development and funding until its implementation and dissemination.

Participation as the Main Researcher

- **Energy Efficiency in the Built Environment (E2BE).** Funded by: North Regional Coordination and Development Commission (CCDR-N). Duration: 01/10/2013 – 30/06/2015. Scientific responsible: Prof. Eduardo de Oliveira Fernandes Faculty of Mechanical Engineering, University of Porto.
- **Energy efficiency, renewable energy sources and environmental impacts – master study, ENERESE.** Funded by TEMPUS. Duration 1/10/2012 – 15/10/2015. Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Development of Innovative Cold insulation materials based on polystyrene for the energy upgrade of existing and new buildings (DICOM).** Funded by: Operational program for Competition and entrepreneurship (EPAN II), Duration: 9/11/2011 – 8/11/2014, Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- Scientific support as an **expert** to the Regional Unity of Halkidiki and the Institute of Tourism Macedonia (ITAM) which is the vocational center of the Halkidiki Hotel Association for the project “**ShMILE II: From experimentation to dissemination of the Ecolabel in the Mediterranean**”. Funded by: CBC MED. Duration: 11/01/2012 – 31/03/2014.
- **Knowledge transfer and research needs for preparing mitigation/adaptation policy portfolios.** Funded by: EC (FP7), 2011 -

2013. Project duration: 1/1/2011 – 31/10/2013. Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Creating an intervention tool to improve the energy efficiency of buildings for public use.** Funded by: General Secretariat for Research and Technology (GSRT), Duration: 29/11/2010 – 31/01/2011, Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH..
 - **Developing Practical guidelines for an Observatory center on the progress of implementing projects on renewables and waste/wastewater (DEPOIR).** Funded by: General Secretariat for Research and Technology (GSRT), Duration: 1/5/2007 – 31/3/2008. Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
 - Participation to the fulfillment of the project **“Sustainable hotels in the Mediterranean Islands and area, (ShMILE).** Funded by: LIFE-ENVIRONMENT. Duration: 1/10/2004 – 30/1/2007.

Participation as a deputy manager

- **Energy efficiency, renewable energy sources and environmental impacts – master study, ENERESE.** Funded by TEMPUS. Duration 1/10/2012 – 15/10/2015. Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Development of Innovative Cold insulation materials based on polystyrene for the energy upgrade of existing and new buildings (DICOM).** Funded by: Operational program for Competition and entrepreneurship (EPAN II), Duration: 9/11/2011 – 8/11/2014, Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Knowledge transfer and research needs for preparing mitigation/adaptation policy portfolios.** Funded by: EC (FP7), 2011 - 2013. Project duration: 1/1/2011 – 31/10/2013. Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Creating an intervention tool to improve the energy efficiency of buildings for public use.** Funded by: General Secretariat for Research and Technology (GSRT), Duration: 29/11/2010 – 31/01/2011, Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH

Participation as a member of the research team

- **Application study for RES & Energy conservation measures in the municipality of Kozani.** Funded by: Municipality of Kozani, Duration: 1/1/2011 – 31/12/2011, Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH..
- **Evaluation of Redwell infrared heating systems.** Funded by: Redwell HIS, Duration: 1/1/2009 – 31/12/2010, Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Evaluation of night electricity tariff for refrigeration applications.** Funded by: Bosch & Siemens Hausgeräte GmbH, Duration: 1/1/2009 – 31/12/2010, Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Software's development for calculating thermal loads of the building's shell according to EN 13790.** Funded by: FIBRAN SA, Duration: 1/2006 – 31/12/2008. Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH.
- **Development of distance learning vocational training material for the promotion at best practice ventilation energy performance in**

buildings (VENT DISCOURSE). Funded by: Intelligent Energy - Europe Programme of the European Community, 2006. Duration: 1/1/2006 – 31/12/2006. Scientific responsible: Agis M. Papadopoulos, Professor at the Department of Mechanical Engineering, AUTH

Participation as a Consultant and to the managerial team

- **Support actions for green business and corporate social responsibility for small and very small enterprises.** Responsible body: National Confederation of Hellenic Commerce. Funded by: NSRF 2007-2013.
- Participation to the project management team of the project: **Chromium in groundwater of the river Asopus – Find rehabilitation technologies and measures (CHARM).** Funded by: LIFE-ENVIRONMENT, Duration: 1/09/2011 – 31/08/2015, Scientific Responsible: Dimitris Mamais, Assoc. Professor of the Department Civil Engineering, NTUA

Seminars – Vocational training

20.08.2007 – 07.11.2008

Vocational Training Center "KEK SEVE – SBBE – DETH"

Project "Development for All - Local employment initiative in northern Thessaloniki - Training in order to create and operate business - Developing entrepreneurship".

Participation in a Vocational Training program entitled "**Educating the unemployed on planning and developing business plans**"

Duration: 260 hours (160 hours theoretical training, 100 hours' work).

14.11.2005 – 20.01.2006

KESYY – Advisory municipal station of Sykies

Project: "Development for all - Local employment initiative in northern Thessaloniki"

Participation in meetings in order to encourage entrepreneurship.

Duration: 60 hours

01.06.2005 – 17.07.2005

Hellenic Society of Physics

Participation to the seminars to learn **AutoCAD 2004**

Duration: 64 hours

Research Interests and Activities

- Energy performance of buildings and energy efficiency in the built environment.
- Renewable energy sources and energy efficiency in buildings.
- Integrated environmental management in buildings.
- Environmental management systems, auditing and assessment.
- Sustainable development on tourism.
- Studying Indoor environmental quality and thermal comfort.
- Measurement techniques and instruments for energy audit in buildings

Memberships

- Member of the Executive Committee of the Department of Environmental and Natural Resources Management Alumni (March 2010 – Present).
- Chairman of the Department of Environmental and Natural Resources Management Alumni (2007-2010).
- Member of the Hellenic Association of Young Entrepreneurs (NEE) (September 2015- Present)

ANNEXES

Research activity

Energy conservation and rational use of energy in buildings

The activities in this area focus on recording and studying buildings' energy performance and energy conservation solutions included interventions to reduce the heating and cooling load, the HVAC's systems upgrade and the use of RES. Those technical interventions are evaluated according to buildings users' needs for thermal and optical comfort. For gathering needed data related to the energy and environmental performance of buildings in-situ audits have been conducted. The methodology for the audits is based to ASHRAE procedure and the Greek legislation.

In the research framework a methodology tool has been created for gathering data. The tool is an easy to understand and use. It is a questionnaire based on existing and international legislation and on principles of data collection used in European programs. The questionnaire follows the structure of hotel environmental assessment tools, such as ISO 14001 and Eco-LABEL, but was remodelled according to the Greek reality.

Also, mitigation policies are studied: Energy efficiency measures for the building and its HVAC equipment and bioclimatic strategies in order to improve thermal comfort and to reduce the energy consumption for people both in buildings and in the public spaces.

These research activities are described in publications: 1,5,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23,24,25,26,27,28,29,30,31,32,33,34,36,37.

While the specific scientific sector is a subject of the projects:

- Energy Efficiency in the Built Environment (E2BE)
- Energy efficiency, renewable energy sources and environmental impacts – master study, (ENERESE)
- Development of Innovative Cold insulation materials based on polystyrene for the energy upgrade of existing and new buildings (DICOM)
- Creating an intervention tool to improve the energy efficiency of buildings for public use.
- Application study for RES & Energy conservation measures in the municipality of Kozani.
- Evaluation of Redwell infrared heating systems.
- Evaluation of night electricity tariff for refrigeration applications.
- Software's development for calculating thermal loads of the building's shell according to EN 13790.
- Development of distance learning vocational training material for the promotion at best practice ventilation energy performance in buildings (VENT DISCOURSE).
- Monitoring and evaluation of indoor climate and air quality conditions in the White Tower, in order to use it as a City Museum of Thessaloniki.
- Air quality studies to the Greek shopping centers "Pantheon Plaza" in Larissa and "Mediterranean Cosmos" in Thessaloniki for Sonae Sierra.

The study of the specific scientific sector is part of my dissertation.

The topic was part the research field of the book I am editor at.

Climate change and energy strategies

The research in this area focuses on the study of the environmental and building legislation its review and how these two interact. Also, the research concern how climate change has altered the living conditions in residential areas. Those are related with energy poverty and

heat island effects.

Energy poverty has become an increasingly pressing problem in recent years even in the wealthier EU member states. Factors that play a major role in this development involve the complex interplay of rising energy prices, stagnant or decreasing incomes, high levels of unemployment and the slow rate of redevelopment for improving energy efficiency in residential buildings.

In that perspective the research adapts techniques for climate change and focuses not only on EU initiatives aimed at reducing greenhouse gas emissions but also at the initiatives taken by the state to overcome that problem. Low cost adaptation and mitigation heating technologies have been recorded. Those, however, lead often to serious environmental problems, with respect both to outdoor and indoor air quality. The research in that field refers to heating technologies which are more suitable to help in overcoming the problem, the study of the national energy policy barriers, the possibilities for green economic development and the innovative cutting-edge technologies and new materials heating systems with low environmental impact.

These research activities are described in publications: 3,5,9,13,14,15,16,19,23,28,30,31,32..

While the specific scientific sector is a subject of the projects:

- Energy efficiency, renewable energy sources and environmental impacts – master study, (ENERESE)
- Development of Innovative Cold insulation materials based on polystyrene for the energy upgrade of existing and new buildings (DICOM)
- Knowledge transfer and research needs for preparing mitigation/adaptation policy portfolios
- Developing Practical guidelines for an Observatory center on the progress of implementing projects on renewables and waste/ wastewater (DEPOIR).

The study of the specific scientific sector is part of my methodology of my dissertation.

The topic was part of the research field of the book I am editor at.

Sustainable tourism and environmental management on tourist accommodation services

Improving the level and the quality of services in a tourism accommodation is the key to promote and implement sustainable tourism.

The research in this area concerns the energy design of hotels with a perspective to reduce their environmental impact and their energy consumption. This approach "building - energy - environment" is indeed one of the principles of sustainable development strategy (SDS).

Given the weakness of the current management framework of hotel buildings in Greece, in my thesis I developed a methodology for integrated environmental and energy assessment of existing hotels and depicting the current situation, presenting and analysing the use of methodological tools such as Environmental Management Systems (EMS).

The biggest challenge in this research piece for the analysis and synthesis of the complex issue of environmental assessment of buildings to reduce energy consumption in the context of implementing a comprehensive energy policy was the lack of primary data.

These research activities are described in publications: 2,4,6,10,21,22,24,25,26,27,29,33,34,35,37.

While the specific scientific sector is a subject of the projects:

- ShMILE2 - From experimentation to dissemination of the Ecolabel in the

Mediterranean

- ShMILE- Sustainable hotels in the Mediterranean Islands and area.
- Leader to the editorial team of the study “Strategic Environmental Impact Study of the Special Framework for Spatial Planning and Sustainable Development of Tourism”. Funded by: Ministry of Environment, Energy and Climate Change, Duration: 1 month.
- Participation to the editorial team of the “Strategic Environmental Impact Study of the Special Framework for Spatial Planning and Sustainable Development of Aquaculture”. Funded by: Ministry of Environment, Energy and Climate Change
- “Support actions for green business and corporate social responsibility for small and very small enterprises”, Responsible body: National Confederation of Hellenic Commerce. Funded by: NSRF 2007-2013

The study of the specific scientific sector is part of my dissertation.

The topic was part the research field of the book I am editor at.