



2nd International Workshop

Energy Performance and Environmental Quality of Buildings
(EPEQUB 2007)

12-13/7/2007, Milos Island

<http://milos.conferences.gr/epequb2007>

Thursday, 12 July 2007

- 08.00 – 08.30 Registration
- 08.30 – 09.15** **OPENING SESSION**
Chairpersons **Y. TRYPANAGNOSTOPOULOS**, University of Patras, Greece
- 08.30 – 08.45 **Welcoming addresses**
Local Authorities, Milos Conference Center - George Eliopoulos,
S&B Industrial Minerals S.A., Greece
- 08.45 – 09.15 *Keynote Lecture*
Progress in natural/hybrid ventilation in Canada
T. STATHOPOULOS, Concordia University, Canada
- 09.15 – 11.15** **SESSION I**
Chairpersons **Y. TRYPANAGNOSTOPOULOS**, University of Patras, Greece
- Βιοκλιματική προσέγγιση κτιρίων στην Ιταλία**
A. KASTRINOU, L. FAIS, University of Rome, La Sapienza, Italy
- Aspects and perspectives for a wide BIPV application in Greece**
Y. TRYPANAGNOSTOPOULOS, V. PERRAKI, A. MERIANOU,
Ch. YFANTI, A. KOSKINAS, M. TRIPANAGNOSTOPOULOU,
University of Patras, Greece
- Insulation as criteria for the energy behaviour of the building stock**
S. HADIARAKOU, Ecole Nationale des Travaux Publics de l'Etat,
France, M. SANTAMOURIS, University of Athens, Greece
- Summertime comfort, social housing in Athens**
A. SAKKA, M. SANTAMOURIS, University of Athens, Greece
- 11.15 – 11.45 **Coffee break**
- 11.45 – 13.45** **SESSION II**
Chairperson **S. HADIARAKOU**, Ecole Nationale des Travaux Publics de l'Etat,
France
- Αξιολόγηση της ενεργειακής κατανάλωσης σχολικών κτιρίων**
N. AVGERINOS, A. DIMOUDI, Democritus University of Thrace,
Greece
- Data collection and analysis of the energy behaviour of hotels and other touristical buildings**
N. BOEMI, G. MIHALAKAKOU, University of Ioannina, Greece,
A. M. PAPADOPOULOS, Aristotle University of Thessaloniki,
Greece

	<p>Combined solar and wind energy systems for building application Y. TRYPANAGNOSTOPOULOS, Th. MAKRIS, University of Patras, Greece</p>
	<p>Passive cooling radiators: the state of the art A. SPANAKI, NTUA, Greece</p>
13.45 – 14.45	Lunch break
14.45 – 16.45	SESSION III
<i>Chairpersons</i>	<p><i>L. FAIS, University of Rome, La Sapienza, Italy</i> <i>A. SAKKA, University of Athens, Greece</i></p>
	<p>Best practice for double skin facades - The BESTFACADE project I. FARROU, M. SANTAMOURIS, S. ZEREFOS, University of Athens, Greece, R. HEIMRATH, H. HENGESBERGER, Th. MACH, W. STREICHER, IWT, Austria, R. WALDNER, MCE, Austria, G. FLAMANT, X. LONCOUR, S. PRIEUS, BBRI, Belgium, G. GUARRACINO, LASH-DGCB, France, H. ERHORN, H. ERHORN- KLUTTIG, FhG-IBP, Germany, R. DUARTE, M. MATOS, ISQ, Portugal, A. BLOMSTERBERG, L. SJOURLBERG, ULUND / WSP, Sweden</p>
	<p>Improved ICS solar systems for low cost domestic water heating Y. TRYPANAGNOSTOPOULOS, M. SOULIOTIS, University of Patras, Greece</p>
	<p>The impact of moisture on the compressive stress value of stone wool based insulating materials S. HADIARAKOU, FIBRAN S.A., A. M. PAPADOPOULOS, D. ARAVANTINOS, Aristotle University of Thessaloniki, Greece</p>
	<p>Assessing the energy saving potential of LEDs as replacements for general office lighting S. STRAVORAVDIS, Cardiff University, UK</p>
16.45 – 17.15	Coffee break
17.15 – 19.15	SESSION IV
<i>Chairperson</i>	<p><i>A. M. PAPADOPOULOS, Aristotle University of Thessaloniki, Greece</i></p>
	<p>Using strategies as a tool for learning and applying passive design M. FEDESKI, S. STRAVORAVDIS, Cardiff University, UK</p>
	<p>The potential of effective PV application to schools in Greece Y. TRYPANAGNOSTOPOULOS, P. THEMELIS, University of Patras, Greece</p>
	<p>Φωτοβολταϊκά συστήματα και κτιριακό κέλυφος. Τοπολογία ενσωμάτωσης και κριτήρια αξιολόγησης E. TZEKAKIS, S. GAZEAS, A. GKOUZKOUNIS, Aristotle University of Thessaloniki, Greece</p>
19.15 – 20.30	Welcome Reception
	Friday, 13 July 2007
09.30 – 11.00	SESSION V
<i>Chairperson</i>	<p><i>S. STRAVORAVDIS, Cardiff University, UK</i></p>
	Promoting the use of photovoltaic systems in the urban

environment through demo relay nodes. The European project pure

E. ROMAN, S. ELORDUIZAPATARIETXE, ROBOTIKER-TECNALIA, Spain, J. R. LOPEZ, EVE - Ente Vasco de la Energía, Spain, L. ALVES, IST – Instituto Superior Técnico, Portugal, I. EISENSCHMID, SCHEUTEN SOLAR GERMANY, Germany, P. MELO, Provincia di Savona, Italy, P. STARINSKY, SEA – Slevenskà Energetická Agentúra, Slovakia, T. TSOUTSOS, Technical University of Crete, Greece

An integrated assessment of the effectiveness of Feed-in Tariff concerning PV in Greece

M. KARTERIS, A. M. PAPADOPOULOS, Aristotle University of Thessaloniki, Greece

Office building facades and energy performance in urban environment in Greece

C. KOINAKIS, Technological Educational Institute of Thessaloniki, Greece, J. SAKELLARIS, National Technical University of Athens, Greece

Βιοκλιματικές παρεμβάσεις στον πολεοδομικό ιστό του Ηρακλείου - Κρήτη

Ch. KOKOLAKI, M. PAPOUTSAKI, University of Thessaly, Greece

The influence of the form structure on the energy behavior of office and administration buildings

I. THEODORIDOU, M. HEGGER, University of Darmstadt, Germany, A. M. PAPADOPOULOS, Aristotle University of Thessaloniki, Greece

11.00 – 11.30

Coffee break

11.30 – 13.00

SESSION VI

Chairperson

T. TSOUTSOS, Technical University of Crete, Greece

Τεχνικό-οικονομική και περιβαλλοντική αποτίμηση επένδυσης για μια 100% ηλεκτρικά αυτόνομη οικία στη Νήσο Λέσβο

I. MAMAKIS, D. HARALABOPOULOS, H. POLATIDIS, University of the Aegean, Greece

NIST FDS and its application in natural ventilation modelling

A. MARSH, S. STRAVORAVDIS, Cardiff University, UK

Energy and social characteristics of households in Athens

M. SANTAMOURIS, K. VASSILAKOPOULOU, University of Athens, Greece

13.00 – 14.00

Lunch break

14.00 – 15.30

SESSION VII

Chairperson

C. KOINAKIS, Aristotle University of Thessaloniki, Greece

Θερμική επιβάρυνση στην ευρύτερη περιοχή της Αθήνας και η επίδρασή της στη συχνότητα έκτακτων καρδιαγγειακών περιστατικών

K. G. PANTAVOU, G. A. THEOHARATOS, National Technical University of Athens, Greece, G. K. NIKOLOPOULOS, Hellenic Centre of Control and Disease Prevention, Greece

The effect of the wind speed, that emanates from the Argosaronikos gulf, on air temperatures in the coastal regions
N. M. PAPANIKOLAOU, I. LIVADA, M. SANTAMOURIS, A. LINARDI, University of Athens, Greece

Supervisory control of an intelligent building in Greece using EIB, KONNEX technology for energy performance improvement

J. K. SAKELLARIS, National Technical University of Athens, Greece

Indoor air quality in night clubs

M. KAPSALAKI et al, University of Athens, Greece

15.30 – 16.00

Coffee break

16.00 – 17.00

CLOSING SESSION

Environmental quality of buildings

M. SANTAMOURIS, University of Athens, Greece