Wednesday, 5 July 2006

17.00 – 18.00  Registration
18.00 – 19.30  Welcome Reception

Thursday, 6 July 2006

09.00 – 11.00  OPENING SESSION

09.00 – 09.30  Welcoming addresses
Local Authorities, E. J. VOULGARIS, Milos Conference Center -
George Eliopoulos, Greece, A. KEFALAS, S&B Industrial Minerals
S.A., Greece
K. PIPINIS, UIA – ARES International Work Program
Chairpersons  M. SANTAMOURIS, University of Athens, Greece
D. K. SERGHIDES, Higher Technical Institute, Cyprus
09.30 – 10.00  Keynote Lecture
The implementation in practice of the EPBD: actual status and
the services provided by the EPBD buildings platform
P. WOUTERS, Air Infiltration and Ventilation Centre (AIVC),
Belgium
10.00 – 10.30  Keynote Lecture
The invisible link – the golden thread
A. N. TOMBAZIS, Meletitiki – Alexandros N. Tombazis and
Associates Architects, Ltd, Greece
10.30 – 11.00  Coffee break

11.00 – 13.00  SESSION I – Urban Climate, Microclimate and Building Physics

Chairpersons  F. ALLARD, University of La Rochelle, France
Y. CAOURIS, University of Patras, Greece
11.00 – 11.10  Modeling air flows around buildings in urban environment
E. BOZONNET, University of La Rochelle, France
11.10 – 11.20  Designing comfortable landscape: CONFORT-EX educational
software
J. M. OCHOA, University of Sonora, Mexico
11.20 – 11.30  A single sensor system, for whole-building daylight linking
S. STRAVORAVDIS, Cardiff University, U.K.
11.30 – 11.40  Study of the heat island phenomenon in the coastal town of
Patras
Y. CAOURIS, University of Patras, Greece
11.40 – 11.50  Material selection for better microclimatic conditions in the
urban open spaces of greek cities
F. M. BOUGATIOTI, National Technical University of Athens,
Greece
11.50 – 12.00  The contribution of public green spaces on the microclimate
C. AXARLIS, Aristotle University of Thessaloniki, Greece

12.00 – 12.10 Efficient energy thermal insulation façade systems for optimal savings and flexibility in architectural design
M. KIRN, STO AG, Germany

12.10 – 12.20 Methodology for analyzing thermal responses in buildings. Proposal and application
I. MARINCIC, University of Sonora, Mexico

12.20 – 12.30 Building and energy, a key issue in a moving energy market: the example of the Mediterranean region
S. POUFFARY, ADEME, France

12.30 – 12.40 The effect of urban environment in the cooling degree hours and its effect in the COP of air-conditioning units
N. M. PAPANIKOLAOU, University of Athens, Greece

12.40 – 12.50 Changes of summer air temperatures during the last 55 years in Athens
M. N. ASSIMAKOPOULOS, University of Athens, Greece

12.50 – 13.00 Discussion

13.00 – 14.00 Lunch break

14.00 – 16.00 SESSION II – Case Studies and Sustainable Architecture

Chairperson C. AXARLIS, Aristotle University of Thessaloniki, Greece

14.00 – 14.10 Exploring the environmental values of vernacular architecture
E. ELIOPOULOU, National Technical University of Athens, Greece

14.10 – 14.20 Coupling environmental and architectural quality in the urban context: developments and trends in the Mediterranean
S. KYVELOU, International SD-MED Association, Greece

14.20 – 14.30 Casa ecologica: warmer at low cost in winter, colder at no cost in summer
G. RUGGIERI, Technical University of Milano, Italy

14.30 – 14.40 Bioclimatic designs for the student housing of the new university of Cyprus
D. K. SERGHIDES, Higher Technical Institute, Cyprus

14.40 – 14.50 The project of the new museum Morera of contemporary art as example of design with environmental criteria in Leida, Spain
E. USON, Technical Superior School of Architecture of Barcelona, Spain

14.50 – 15.00 Present and future of building performance assessment tools
M. SINOU, N&M Architects, Greece

15.00 – 15.10 A real case of building integrated PV. Isofoton offices in Malaga (Spain)
V. BAUSO, ISOFOTON S.A., Spain

15.10 – 15.20 Benefits and implications of various types of glass-to-glass BIPV modules. A comparative study
D. MAVRAKIS, Lampo Solar S.A., Greece

15.20 – 15.30 Integrated photovoltaics as an element of building's envelope
M. KARTERIS, Aristotle University of Thessaloniki, Greece

15.30 – 15.40 Installation of buried pipes in order to improve the thermal conditions of a greenhouse in Argos, Greece
C. PAVLOU, National and Kapodistrian University of Athens, Greece

15.40 – 16.00 Discussion

16.00 – 16.30 Coffee break
16.30 – 19.00  
**SESSION III – Benchmarking and Energy Certification**

*Chairperson*

*S. KYVELOU, University of Social and Political Sciences of Athens, Greece*

16.30 – 16.40  
*On the relation between income, electricity and oil consumption for different types of houses in Athens*

M. N. ASSIMAKOPOULOS, University of Athens, Greece

16.40 – 16.50  
*Sustainability assessment of urban districts: benchmark for quality of physical environment*

F. ALLARD, University of La Rochelle, France

16.50 – 17.00  
*Energy audit certification and rating of school buildings in Greece*

N. GAITANI, University of Athens, Greece

17.00 – 17.10  
*Univariate and multivariate prediction of energy consumption in buildings with artificial intelligent techniques*

S. KARATASOU, University of Athens, Greece

17.10 – 17.20  
*E-Building: a software platform for energy auditing and management of buildings*

D. KOLOKOTSA, Technological Educational Institute of Crete, Greece

17.20 – 17.30  
*Using principal components analysis and clustering technics to define typical buildings*

C. LEHMANN, University of La Rochelle, France

17.30 – 17.40  
*Building energy performance benchmarking and simulation under tropical climatic conditions*

H. SUN, National University of Singapore, Singapore

17.40 – 17.50  
*Modern construction materials and their contribution to an improved living environment*

G. ROUNI, Drapa Chemie S.A., Greece

17.50 – 18.00  
*Intelligent building energy management integrated model*

K. D. PATLITZIANAS, National Technical University of Athens, Greece

18.00 – 18.10  
*District cooling: a technology with significant potential*

K. PAPAGEORGIOU, Aristotle University of Thessaloniki, Greece

18.10 – 18.20  
*Energy efficient solutions for buildings by using BEMS applications*

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

18.20 – 18.30  
*EULEB - database for European high quality low energy buildings*

J. SCHLENGER, University of Dortmund, Germany

18.30 – 18.40  
*EP label: a programme to deliver energy certificates for public buildings across Europe based on operational rating through a graduated response procedure*

M. PAPAGLASTRA, University of Athens, Greece

18.40 – 19.00  
Discussion

20.30 – 22.30  
*Workshop Dinner (optional)*

Friday, 7 July 2006

09.00 – 10.30  
**OPENING SESSION**
Chairpersons

A. M. PAPADOPOULOS, Aristotle University of Thessaloniki, Greece
M. N. ASSIMAKOPOULOS, University of Athens, Greece

09.00 - 10.00
Keynote Lecture
Harmonization of indoor material emissions labeling systems in the EU: inventory of existing schemes
S. KEPHALOPOULOS, European Commission DG-JRC, Italy

10.00 – 10.30
Keynote Lecture
European indoor air monitoring and human exposure assessment study (AIRMEX) - preliminary results
S. TIRENDI, European Commission DG-JRC, Italy

10.30 – 11.00
Coffee break

11.00 – 13.00
SESSION IV – Passive Cooling and Building Physics

Chairpersons

E. PRIMIKIRI, University of Patras, Greece
M. N. ASSIMAKOPOULOS, University of Athens, Greece

11.00 – 11.10
The impact of moisture on the thermal conductivity value of stone wool based insulating materials
S. HADIARAKOU, FIBRAN S.A., Greece

11.10 – 11.20
Effect of the passive strategies on thermal comfort in economic dwellings in warm-dry climates
M. G. ALPUCHE, University of Sonora, Mexico

11.20 – 11.30
The importance of insulation in the reduction of the buildings losses
S. HADIARAKOU, Ecole Nationale des Travaux Publics de l’Etat, France

11.30 – 11.40
Direct use of ground heat for space heating and cooling, a contribution in country energy system
A. FRASHERI, Polytechnic University of Tirana, Albania

11.40 – 11.50
Cool colored coatings for passive cooling of cities
A. SYNNEFA, National and Kapodistrian University of Athens, Greece

11.50 – 12.00
Investigation of the energy and environmental performance of an experimental green roof system
P. MIHALAKAKOU, University of Ioannina, Greece

12.00 – 12.10
Studying the effect of different wall properties based on orientation for passive solar heating of buildings
A. CHANIOTIS, X - Machina Technical Consulters, Greece

12.10 – 12.20
Development of an integrated environmental and energy management system for existing buildings
E. GIAMA, Aristotle University of Thessaloniki, Greece

12.20 – 12.30
An expert model for monitoring building’s operations via BEMS
K. IATROPOULOS, National Technical University of Athens, Greece

12.30 – 12.40
New approaches on the integration of environmental issues in architectural education
E. TRIANTIS, National Technical University of Athens, Greece

12.40 – 13.00
Discussion

13.00 – 14.00
Lunch break

14.00 – 16.00
SESSION V – Student Forum (each presentation of this session will last 7 minutes)

Chairperson

I. TRIPANAGNOSTOPOULOS, University of Patras, Greece
14.00 – 14.07 Artificial & natural lighting in a house
D. ASKOUNI, University of Patras, Greece

14.07 – 14.14 Bioclimatic roof model in a residence
M. BITROU, University of Patras, Greece

14.14 – 14.21 A web application serving queries on renewable energy sources and energy management topics database built on JSP technology
P. CHRISTIAS, Technical University of Crete, Greece

14.21 – 14.28 Considerations on building skin for energy efficient design
E. DIMITRPOULOU, University of Patras, Greece

14.28 – 14.35 Pattern (or model) of an autonomous bioclimatic bus - stop
I. KOTTIS, University of Patras, Greece

14.35 – 14.42 Additional screen on the facade of the building in hot climate
A. M. TEHRANI, British University in Dubai, U.A.E.

14.42 – 14.49 The bioclimatic dimension of educational buildings in Greece
A. MAVROGIANNI, National Technical University of Athens, Greece

14.49 – 15.56 Presentation of automation and control devices for saving energy in building units
K. SAKKAS, Aristotle University of Thessaloniki, Greece

15.56 – 15.03 Aspects and perspectives for the zero energy buildings
A. SAKKAS, Aristotle University of Thessaloniki, Greece

15.03 – 15.10 Air moving in and through building: historical prototypes and contemporary applications
K. SARANTI, University of Patras, Greece

15.10 – 15.17 Development of an intelligent indoor environment and energy management system for greenhouses using a fuzzy logic controller and using the LonWorks® protocol
G. SARIDAKIS, Technological Educational Institute of Crete, Greece

15.17 – 15.24 A methodology for optimum energy efficiency of a typical residence in Greece
A. STRIKOU, University of Patras, Greece

15.24 – 15.31 Architectural aspects for building integrated photovoltaics
M. TRIPANAGNOSTOPOULOU, University of Patras, Greece

15.31 – 15.38 Bioclimatic air conditioning system for typical apartment building
S. TZINIERIS, University of Patras, Greece

15.38 – 15.45 Urban climatic modification/the case of canyons
M. KAPSALAKI, National and Kapodistrian University of Athens, Greece

15.45 – 16.00 Discussion
16.00 – 16.30 Coffee break

16.30 – 17.30 SESSION VI – Res and Building Physics

Chairpersons
S. KEPHALOPOULOS, European Commission DG-JRC, Italy
E. BOZONNET, University of La Rochelle, France

16.30 – 16.40 Methods and recommendations for investment substantiation of geothermal heating plants development
E. BOGUSLAVSKY, St. Petersburg State Mining Institute, Russia

16.40 – 16.50 Energy multiplier
T. VUCETIC, Independent Inventor, USA

16.50 – 17.00 Energy and aesthetics of building integrated res
I. TRIPANAGNOSTOPOULOS, University of Patras, Greece
17.00 – 17.10  Development strategies and problems of renewable energy sources in Greece
A. MAVRAKIS, University of Athens, Greece

17.10 – 17.20  Pythagoras project: development of an integrated training package on indoor environment quality
M. SANTAMOURIS, University of Athens, Greece

17.20 – 17.30  Discussion

17.30  CLOSING SESSION

Chairpersons  P. WOUTERS, Air Infiltration and Ventilation Centre (AIVC), Belgium,  
F. ALLARD, University of La Rochelle, France

Lessons learned from the implementation of IAQ strategies during the design, construction, and occupancy of a sustainable office complex
L. E. ALEVANTIS, California Department of Health Services, USA

Environmental quality of buildings
M. SANTAMOURIS, University of Athens, Greece