

Program

International Symposium on Sustainable Energy in Buildings and Urban Areas Pine Bay Holiday Resort, Kusadasi, Turkey 14 - 20 October, 2012

Click here to download the PDF version of the Program. SUNDAY OCTOBER 14, 2012 15:30-18:00
REGISTRATION

MONDAY OCTOBER 15, 2012 8:30 - 9:00 REGISTRATION 9:00 - 9:30

WELCOMING REMARKS Prof. Emilia Mladin/Prof. Faruk Arin
SESSION 1 - ENERGY EFFICIENT ARCHITECTURE

9:30 - 10:30

Keynote: THE INTEGRATION OF ENGINEERING AND ARCHITECTURE FOR SUSTAINABLE BUILDINGS

M. P. Menguc

10:30 - 11:00

Coffee Break

11:00 - 11:30

SUSTAINABILITY THROUGH ARCHITECTURAL MORPHOLOGY

H. Tundrea, M. Budescu, M. Vasilache, G. Taranu

11:30- 12:00

EFFECT OF MOISTURE ON THE ENERGY CONSUMPTION OF BUILDINGS

I. Remache, N. Djermane

12:00- 12:30

REHABILITATION PROJECT FOR A CULTURAL BUILDING ACCORDING THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT

Mariana Fartatescu, Raluca Manoliu, Calin Corduban, Dorina Isopescu and Nicolae Taranu

12:30 - 15:00

BREAK SESSION 2 - BUILDING MODELS AND ENERGY EFFICIENCY - 1

15:00-15:30

STUDY CONCERNING THE EFFECTS OF THERMAL REHABILITATION OF A BLOCK OF FLATS

Irina Bliuc, Irina Baran, Radu Pescaru, Aurora Irina Dumitrascu

15:30 - 16:00

ENERGY AND COMFORT. ANALYSIS OF INTEGRATED "LOW EX" SOLUTIONS

Javier Rey, Jon Zubiaurre and David Irusta

16:00-16:30

COMMON ERRORS IN ASSESSING ENERGY PERFORMANCE BASED ON DESIGN

EC Mladin, T. Prisecaru

16:30 - 17:00

Coffee Break SESSION 3- BUILDING MODELS AND ENERGY EFFICIENCY - 2 (CANCELLED)
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18:30-19:30

WELCOME COCKTAIL TUESDAY OCTOBER 16, 2012 SESSION 4 - BUILDING EFFICIENT ENERGY
MANAGEMENT SYSTEMS

9:30-10:30

Keynote: MODEL-BASED CONTROL FOR IMPROVED ENERGY EFFICIENCY

Dimitrios Rovas

10:30-11:00

Coffee Break

11:00-11:30

ROOM TEMPERATURE CONTROL WITH ADAPTIVE ALGORITHMS

Adolph Michael, Kopmann Nina, Lupulescu Bruno and Müller Dirk

11:30-12:00

DEMAND-SHIFTING USING MODEL-ASSISTED CONTROL

G. Kontes, G. Giannakis, E. Kosmatopoulos, D. Rovas

12:00-12:30

Hardware-in-the-Loop Simulation for Home Energy Systems

Kan Chen, Dirk Müller

12:30-13:00

THERMAL COMFORT MONITORING IN COMMERCIAL BUILDINGS

Jiř Vass, Jiř Rojřek and Jana Trojanovř

13:00-15:00

BREAK SESSION 5 - TECHNOLOGIES FOR SUSTAINABLE USE OF ENERGY IN BUILDINGS

15:00 - 15:30

STUDY OF COUPLED HEAT AND MOISTURE TRANSFER WITHIN A VEGETAL FIBRE MATERIAL FOR BUILDING
ENVELOPE

Chadi MAALOUF, Mohammed LACHI and Ton Hoang MAI, Etienne

15:30 - 16:00

ON THE IMPACT OF COOL ROOFS IN ITALIAN RESIDENTIAL BUILDINGS: EXPERIMENTAL ASSESSMENT OF
SUMMER AND WINTER PERFORMANCE

Anna Laura Pisello, Federico Rossi and Franco Cotana

16:00 - 16:30

INTEGRATION OF SOLAR ENERGY RECOVERY SYSTEMS IN URBAN DWELLINGS

Cristian C-tin Ungureanu, Tudor Gradinaru and Aurora Irina Dumitrascu

16:30- 17:00 Coffee Break and WORK-IN-PROGRESS POSTER SESSION WEDNESDAY OCTOBER 17,
2012 SESSION 6 - SUSTAINABLE ENERGY SOURCES FOR BUILDINGS

9:30-10:30

Keynote: SMART ENERGY BUILDINGS AND NEIGHBORHOODS: WHICH INFRASTRUCTURES AND PLATFORMS
TO USE?

Christoph Grimm

10:30 - 11:00

Coffee Break

11:00-11:30

EXERGETIC ANALYSIS OF A THERMAL STATION IN A DISTRICT HEATING SYSTEM

A. Untea, Al. Dobrovicescu, T. Prisecaru, E.C. Mladin, M. Prisecaru

11:30-12:00

PERFORMANCE INVESTIGATION OF GEOTHERMAL DISTRICT HEATING

Yildiz Kalinci, Ismail Tavman, and Arif Hepbasli

12:00 -

Free Afternoon

THURSDAY OCTOBER 18, 2012 SESSION 7 - SmartCoDe EC Project

9:30-10:30

Keynote: POWER GRID STABILITY DESPITE RENEWABLE INSTABILITY

Holger Hermanns

10:30-11:00

Coffee Break

11:00-11:30

HIGHLY-INTEGRATED MICROELECTRONIC DEVICES FOR ENERGY MANAGEMENT

Thomas Herndl

11:30 - 12:00

FROM THEORY TO PRACTICE: REAL WORLD DEMONSTRATORS FOR SMART GRID APPLICATIONS

Roland Kopetzky

12:00-15:00

BREAK SESSION 8 "PEBBLE" EC Project

15:00 -15:30

CONCEPT AND ENERGY MANAGEMENT IN THE NEW E.ON ENERGY BUILDING

Johannes Futterer

15:30 – 16:00

SIMULATION ASSISTED ADAPTION OF A MODEL BASED CONTROL PARAMETER FINE-TUNING METHODOLOGY FOR A NONRESIDENTIAL BUILDING WITH A COMPLEX ENERGY SYSTEM

Ana Constantin, Johannes Futterer, Rita Streblow, Ing. Müller, G.D. Kontes, D.V. Rovas

16:00 - 16:30

IMPACT OF RETAIL RATE AND RES -E SUPPORTING STRUCTURES ON THE ECONOMICS OF LOCAL OPTIMIZATION IN BUILDINGS

Charles Frémond, Bruno Duplessis, Jérôme Adnot

20:00-22:30

GALA DINNER FRIDAY OCTOBER 19, 2012 SESSION 9 – AGILE, DESIMAX, Baas – EC Projects

9:30-10:00 –

MULTISCALEMODELLING TO MAXIMISE DEMAND-SIDE MANAGEMENT

Aristides Kiprakis

10:00 – 10:30

BAAS PROJECT: COVERING THE BUILDING DESIGN- AND OPERATIONAL-PHASE INTEROPERABILITY GAP

Cesar Valmaseda, Dimitrios Rovas

10:30 -11:00

Coffee Break –

11:00 – 12:30

ROUND TABLE

COST OPTIMAL APPROACH FOR LONG TERM ENERGY EFFICIENCY MEASURES FOR BUILDINGS

12:30

END – WORK-IN-PROGRESS POSTER PRESENTATIONS Tuesday, October 16 16:30 – 17:30

P1

EFFECT OF HEATING LOCATION ON STABILITY OF NATURAL CONVECTION IN A SQUARE ENCLOSURE

Debbah Djoubair, Kholai Omar and Boudebouze Saadoune

P2

DETERMINATION OF THE PARAMETERS THAT CONTROL THE LAMINAR MIXED CONVECTION IN A SQUARE CAVITY ($Pr = 0.015$)

Boukroune Sofiane, Kholai Omar and Boudebouze Saadoune

P4

Premixed Swirl Flame in a Reformer of Fuel Cell System

Bong Il park, Pil Hyong Lee and Sang Soon Hwang

