SEBUA-12 PROGRAM OVERVIEW							
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
08:30 - 09:00		Registration					
09:00 - 09:30		Welcome Remarks					
09:30 - 10.30		Keynote Lecture 1 M. P. Mengüc	Keynote Lecture 2 D. Rovas	Keynote Lecture 3 C. Grimm	Keynote Lecture 4 H. Hermanns	Session 9 AGILE, DESIMAX, BaaS– EC Projects	
10:30 - 11:00		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11:00 - 11:30		Session 1	Session 4 Building Efficient	Session 6	Session 7 SmartCoDe– EC	Session 9(Cont.)	
11:30 - 12:00		Energy Efficient	Energy Management	Sustainable Energy	Project	AGILE, DESIMAX,	
12:00 - 12:30		Architecture	Systems	Sources For Buildings		BaaS- EC Projects	
12:30 - 13:00						END	
13:00 - 13:30 13:30 - 14:00		Break	Break		Break	2113	
14:00 - 14:30		Diedk	Dieak				
14:30 - 15:00							
15:00 - 15:30		Session 2 - Building	Session 5	Free Afternoon	Session 8		
15:30 - 16:00		Models And Energy Efficiency - 1	Techologies For Sustainable Use Of Energy In Buildings		PEBBLE – EC Project		
16:00 - 16:30							
16:30 - 17:00	Registration	Coffee Break	POSTER SESSION and Coffee Break				
17:00 - 17:30		Session 3 Building Models And Energy Efficiency - 2	Session 5 (cont.)				
17:30 - 18:00			Techologies For Sustainable Use Of Energy In Buildings				
18:00 - 18:30							
18:30 - 19:00		Welcome Cocktail					
19:00 - 19:30 20:00 - 20:30							
20:30 - 21:00					Gala Dinner		
21:00 - 22:30					2		

International Symposium on Sustainable Energy in Buildings and Urban Areas

Pine Bay Holiday Resort, Kusadasi, Turkey 14 – 20 October, 2012

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 Arinç

SESSION 1 - ENERGY EFFICIENT ARCHITECTURE Chair: Emilia Mladin

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 DEVELOPMENT OF THE CAPABILITY OF ENERGYPLUS SOFTWARE TO SIMULATION OF BUILDING DOUBLE-SKIN FAÇADE Mohammad Armin Sabooni, Hashem Musavi Vaseti, Mehdi Maerefat and Aziz Azimi
- 12:30 15:00 BREAK

SESSION 2 - BUILDING MODELS AND ENERGY EFFICIENCY - 1

Chair: Javier Rey

- 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

- 17:00 17:30 UNIVERSITY CAMPUSES ENERGY PERFORMANCE ESTIMATION IN UKRAINE BASED ON MEASURABLE AAPROACH
 V.I. Deshko, O.M. Shevchenko, G.G. Farenyk
- 17:30 18:00 REHABILITATION PROJECT FOR A CULTURAL BUILDING ACCORDING THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT

 Mariana Fartatescu, Raluca Manoliu, <u>Calin Corduban</u>, Dorina Isopescu and Nicolae Taranu
- 18:30 19:30 WELCOME COCKTAIL

TUESDAY OCTOBER 16, 2012

SESSION 4 - BUILDING EFFICIENT ENERGY MANAGEMENT SYSTEMS Chair: Adolph Michael

9:30 - 10:30	Keynote: MODEL-BASED CONTROL FOR IMPROVED ENERGY EFFICIENCY <u>Dimitrios Rovas</u>
10:30-11:00	Coffee Break
11:00-11:25	ROOM TEMPERATURE CONTROL WITH ADAPTIVE ALGORITHMS <u>Adolph Michael</u> , Kopmann Nina, Lupulescu Bruno and Müller Dirk
11:25-11:50	DEMAND-SHIFTING USING MODEL-ASSISTED CONTROL G. Kontes, G. Giannakis, E. Kosmatopoulos, <u>D. Rovas</u>
11:50-12:15	HARDWARE-IN-THE-LOOP SIMULATION FOR HOME ENERGY SYSTEMS Kan Chen, Dirk Müller
12:15-12:40	THERMAL COMFORT MONITORING IN COMMERCIAL BUILDINGS Jiří Vass, Jiří Rojíček and Jana Trojanová
12:40-15:00	BREAK
SESSION 5 - T Chair: Chadi N	ECHOLOGIES FOR SUSTAINABLE USE OF ENERGY IN BUILDINGS MAALOUF
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 <u>Aurora Irina Dumitrascu</u>
16:30 - 17:00	Coffee Break and WORK-IN-PROGRESS POSTER SESSION
17:00 -17:30	THE COST OF SOIL CO2 AT PROJECT SITES IN THE DESERT SOUTHWEST, UNITED STATES Jon W. Wilson and Dr. Moses Karakouzian
17:30 – 18:00	EXPERIMENTAL AND NUMERICAL INVESTIGATION ON ABSORPTION- DIFFUSION REFRIGERATION MACHINE BASED ON LIGHT HYDROCARBONS

N. Ben Ezzine, R. Garma, A. Bellagi

WEDNESDAY OCTOBER 17, 2012

SESSION 6 - SUSTAINABLE ENERGY SOURCES FOR BUILDINGS Chair: Ismail Tayman

- 9:30-10:30 Keynote: SMART ENERGY BUILDINGS AND NEIGHBORHOODS: WHICH INFRASTRUCTURES AND PLATFORMS TO USE?

 <u>Christoph Grimm</u>
- 10:30 11:00 Coffee Break
- 11:00 11:30 EXERGETIC ANALYSIS OF A THERMAL STATION IN A DISTRICT HEATING SYSTEM
 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 12:30 THE NEW STRAW PELLETS COMBUSTION BOILER FOR HEATING BUILDINGS Isemin R, Kuzmin S., Konyakhin V., Mikhalev A., Viryasov D., Milovanov O., Nikolopoulos N., Karampinis E., Grammelis P.
- 12:30 13:00 DESIGN OF A COMBINED COOLING, HEATING AND POWER SYSTEM FOR A FIVE-STOREY RESIDENTIAL BUILDING IN THE HOT CLIMATE OF IRAN Hasan Ghasemzadeh, Mehdi Maerefat and Aziz Azimi
- 13:00 Free Afternoon

THURSDAY OCTOBER 18, 2012

SESSION 7 - SmartCoDe- EC Project

Chair: Peter Neumann

- 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

Chair: Dimitrios Rovas

- 15:00 15:30 SIMULATION ASSISTED ADAPTION OF A MODEL BASED CONTROL PARAMETER FINE-TUNING METHODOLOGY FOR A NONRESIDENTIAL BUILDING WITH A COMPLEX ENERGY SYSTEM

 Constantin Ana, Johannes Fütterer, Dr. Rita Streblow, Prof. Dr.-Ing. Müller, G.D. Kontes, D.V. Rovas
- 15:30 16:00 CONCEPT AND ENERGY MANAGEMENT IN THE NEW E.ON ENERGY BUILDING Johannes Futterer
- 16:00 16:30 IMPACT OF RETAIL RATE AND RES -E SUPPORTING STRUCTURES ON THE ECONOMICS OF LOCAL OPTIMIZATION IN BUILDINGS
 Bruno Duplessis and Charles Fremond
- 20:00 22:30 GALA DINNER

FRIDAY OCTOBER 19, 2012

SESSION 9-AGILE, DESIMAX, BaaS- EC Projects Chair: Emilia Mladin

- 9:30 10:00 RECONFIGURABLE CONVEX CONTROL DESIGN FOR BUILDING CONTROL Elias Kosmatopoulos
- 10:00 10:30 MULTISCALEMODELLING TO MAXIMISE DEMAND-SIDE MANAGEMENT Aristides Kiprakis
- 10:30 11:00 Coffee Break
- 11:00 11:30 BAAS PROJECT: COVERING THE BUILDING DESIGN- AND OPERATIONAL-PHASE INTEROPERABILITY GAP Cesar Valmaseda
- 11:30 12:30 ROUND TABLE

 COST OPTIMAL APPROACH FOR LONG TERM ENERGY EFFICIENCY

 MEASURES FOR BUILDINGS
- 12:30 END

WORK-IN-PROGRESS POSTER PRESENTATIONS

Wednesday, October 17 11:00 – 12:30

Р1

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

Debbah Djoubeir, Kholai Omar and Boudebouze Saadoune

P2

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

Boulkroune Sofiane, Kholai Omar and Boudebouze Saadoune

Р3

COMBUSTION AND NITRIC OXIDE CONTROL IN DIESEL COMBUSTION PROCESSES Boussouara Karima, Kadja Mahfoud

Ρ4

PREMIXED SWIRL FLAME IN A REFORMER OF FUEL CELL SYSTEM Bong II Park, Pil Hyong Lee and Sang Soon Hwang