INFORMATION

Dynamic Analysis and Modelling techniques have been applied for many years to assess the solar and thermal performance characteristics of buildings and building components. However, producing accurate results, which inspire confidence in clients, can still be a problem. This conference would bring together experts in the field and would try to find consensus.

DAME-BC

DAME-BC is set up as an accompanying measure project within the Fifth Framework Programme of the European Commission to improve the performance of PASLINK EEIG. A further objective is to create a platform for the exchange of the unique expertise on outdoor testing and dynamic analysis and to provide training. The initiative to launch a network based on this expertise will be announced at this conference.

PASLINK EEIG

PASLINK, a network of 13 test centres in 11 European countries, is using almost identical facilities and applies common quality procedures for performance assessment of the thermal and solar characteristics of advanced building components under real climate conditions. The intention is to give professional clients a high confidence in the results of realistic experiments and to enlarge the market for performance evaluation using the tools and facilities of this established network.

DG – JRC

The mission of the JRC is to provide customer driven scientific and technical support for the conception, development, implementation and monitoring of EU policies. The JRC functions as a reference centre of science and technology for the Union.

TARGET AUDIENCE

The target audience for this conference: researchers, applied mathematicians and statisticians, building energy designers and those interested in applying system identification techniques for energy performance assessment. In particular people from new Member States are invited to participate.

INFORMATION

For further information visit the PASLINK web-site: http://www.paslink.org
or go directly to the DAME-BC homepage http://www.paslink.org/dame/index.htm

PASLINK EEIG
European Economic Interest Grouping of Outdoor Test Centres

CONFERENCE

PROGRAMME

JRC Ispra, Italy
13 – 14 November 2003

Dynamic Analysis and Modelling applied to Energy performance assessment and prediction of Buildings and Components (renewables and rational use)

DAME – BC

Organised by PASLINK EEIG and JRC as part of the DAME-BC Accompanying Measure (DG RESEARCH)

EUROPEAN COMMISSION
DIRECTORATE-GENERAL
Joint Research Centre

PROGRAMME Thursday 13 November

9:00	10:30	Presentations
H Ossenbrink		Welcome to JRC – IES – RE
L Vandaele		DAME-BC Introduction
P Wouters		PASLINK EEIG; Outdoor Testing, Data Analysis And Modelling
H. Bloem		System Identification Methods Applied For The Assessment Of Thermal Parameters Of Building Components
10:30	*10:50*	*Break*
10:50	12:30	Presentations
O Gutschker		Data Analysis Tool LORD-PEM
D van Dijk		A Guidance tool for Performance Evaluation
H Madsen		Data Analysis Support Unit
P Strachan		Performance Prediction Support Unit
12:30	*14:00*	*Lunch*
14:00	15:50	Presentations
P Bertoldi		The GreenBuilding Programme
C Martin		A Novel Application Of Dynamic Modelling To Diagnostic Model Validation
A Irving		Time Series Estimation Of The Dynamic, Non-Linear And Functional Dependent Properties In The Built Environment
D Blumberga		Benchmarking Of Initial Data For Energy Performance In Buildings In Latvia
E Bakker		Ecobuild Research; Full-Scale Testing Of Innovative Technologies For Energy Efficient Houses
15:50	*16:10*	*Break*
16:10	18:00	Presentations
A Simonella		Carbon Emissions Calculation For Non-Residential Buildings: Integration Of Daylighting Analysis In Dynamic Energy Simulation Software
T. Matuska		Façade Solar Collectors
A Gandini		Numerical Modelling Of Combined Building Integrated PV / Thermal Systems
P Riederer		Improving Combined Solar Systems Using The Simbad HVAC And Building Toolbox: From Sizing And Control To Performance Assessment
J Sedlak		Calibration Of Simulation Models Of Integrated Passive Solar Wall Components In Buildings
M Janak		Modelling of Thermodynamic properties
P Wouters		Announcement Of DAME Network
20:00		*Social dinner*

PROGRAMME Friday 14 November

9:00	10:40	Presentations of tools
		IDENT, LORD and CTSM
M Jimenez		Matlab Ident Applied
O Gutschker		LORD-PEM Demonstration
H Madsen		CTSM Demonstration
P Baker		IQ-Test Project; Window Test Analysis Results
10:40	*11:00*	*Break*
11:00	12:30	Workshop.
		One and a half hour is available for trying out the analysis software that is distributed on the CD-handout and demonstrated in the previous session.
12:30	*14:00*	*Lunch*
14:00	15:30	Presentations
E Mladin		Estimation Of Building Energy Efficiency Potential By Special Techniques
H Simmler		Determination Of The Angular-Dependent Solar Heat Gain Of Glazing With Exterior Venetian Blind Shading
L Kairys		Solar Radiation Influence To The Temperature Of Internal Surface Of The Lightweight Buildings' Partitions
D Chwieduk		Presentation Of Solar Irradiation Data In A Form Of Isorads For The Proper Architectural Concept Of A Building
A Specjal		Possibility Of The Use Of Shortened Set Of Climatic Data In Laboratory Tests Of Heating Equipment Elements Of Buildings Under Unsteady Conditions
P Baker		Analysis Of Round Robin Tests Carried Out For The Iq-Test Thematic Network Using The Paslink Test Cell Environment
15:30	*15:45*	*Break*
15:45	16:30	Round up session
P Wouters		PASLINK EEIG; the future of dynamic analysis. Launching the informal network!! and discussion
16:30	16:45	Conclusion
16:45		*Transport to the airport*