

EGCN CONFERENCE

*Sun and Glazing: Energy Efficient
Strategies for Sustainable Building*

1 – 4 October 2002

Kamp C, Westerlo, BELGIUM



TARGET AUDIENCE

- client bodies: 40%
- policy makers: 15%
- architects: 40%
- engineers: 5%

AIMS AND OBJECTIVES OF THE CONFERENCE

1. assembling knowledge, spread over Europe, concerning solar energy:

- dissemination of results of recent research projects
- exchange of information on solar systems and strategies applied in Europe
- good practice examples of solar applications in Europe
- provide links and contacts

2. stating the sense (or non-sense) of the application of energy saving measures concerning solar energy, and stating the potentials of these measures in the future:

- showing built examples which have been monitored (data)
- stating the current efficiency of systems/strategies, and their future potential
- providing cost-benefit analysis of systems/strategies
- exchanging experiences, drawbacks, problems, etc.

3. showing and handing over ways of applying solar energy in buildings – active and passive – in Belgium (these ways will be further explored and practiced in the workshops on 4th October 2002) :

- in project preparation
- in design
- in execution
- in maintenance

CONFERENCE PROGRAMME 1 - 2 OCTOBER 2002**Tuesday 1st of October**

9:00	Opening words	* welcome + aim of conference	Ludo Helsen (Province of Antwerp)
9:15	EGCN	* conference in context of European Green City Network	Jens Frendrp (EGCN)
9:30	Exemplifying the use of solar energy in the EU 321 Kb - UK	* passive solar strategies * active solar systems * innovative glazing * sustainable solar houses	prof. M. Santamouris (University of Athens)
10:30	Coffee break		
11:00	Solar energy in Belgium 7 Kb - D	* research in Belgium on bio-climatic, solar architecture * good practice case studies	prof. André de Herde (Univ. Catholique de Louvain)
12:00	Active solar energy systems 94 Kb - UK	* solar collectors : water, air and pv * potential of systems * European examples : integrated, non-integrated * climatic data on cloudiness (EU-context) * data on costs and savings	Dipl.Ing. A. Thur (AEE INTEC)
12:30	Lunch break		
14:00	Glazing Technology 27 Kb - D	* functions of glazing : view, daylight, transparency, thermal insulation, solar gains/shading, * different types of glass + coatings * U-value, g-factor * influence of frame constructions * cost picture * future of glazing	Dr.ir. Jan Lecompte (Saint Gobain Glass)
14:45	Energy performance of Buildings 147 Kb - D	* current regulations : how do dwellings perform * a new approach : energy performance regulations in Flanders * the European context : a new directive * priorities for low energy housing and how to achieve it	ir. Luk Vandaele (WTCB)
15:30	Coffee break		
16:00	Context of social housing 112 Kb - D	* target public * maintenance aspects * energy saving strategies in use	ir. Bernard Wallyn (Vlaamse Huisvestingsmaatschappij)
16:45	Passive design in social housing : case-studies	* passive design in reconversion and new built social housing projects * the use of atria and greenhouses in a social housing context	MSc.Arch. Phil Roberts (director Tai Cartrefi, Gwalia Housing Estate)
17:30	discussion / questions		
18:00	End		

Wednesday 2nd of October			
9:00	The passive design approach (efficient glazing) 915 Kb - UK	<ul style="list-style-type: none"> * energy losses and solar gains through glazing * influence of orientation * overheating in summer, winter ? * optimal sizing of glazing ? * shading of glazing * daylighting 	Dr. Don Alexander (Welsh School of Architecture, Cardiff University)
10:00	Design methodology 222 Kb - D	<ul style="list-style-type: none"> * the energy concept in the design phases and execution * monitoring 	prof. Hugo Hens (Katholieke Univ. Leuven)
10:45	Coffee break		
11:15	Water solar collector Systems 357 Kb - UK	<ul style="list-style-type: none"> * introduction to different systems * large scale solar collector systems * centralised versus de-centralised 	Dipl.Ing. A. Thur (AEE INTEC)
11:45	Industry aspects of active solar energy 38 Kb - UK	<ul style="list-style-type: none"> * what is available * funding possibilities * eu-context * quality label 	ir. Werner Coppys (BELSIA, 3E)
12:30	Lunch break		
14:00	Demonstration projects with solar collectors of the Flemish government 149 Kb - D	<ul style="list-style-type: none"> * potential of active solar energy in terms of CO₂ reduction * demonstration 	ir. Johan Van Bael (VITO)
14:30	Design and architectural aspects for solar thermal systems 680 Kb - D	<ul style="list-style-type: none"> * integration in building fabric * orientation/angles of collectors and efficiencies * overshadowing and efficiencies * problems in practice 	ing. Paul van den Bossche (IZEN)
15:30	Coffee break		
16:00	Demonstration projects 1675 Kb - D	<ul style="list-style-type: none"> * project Waterstraat, Houtvenne * refurbishing project, flats, Vorselaar - SYNPACK 	ir.ar.Luc Stijnen (Zonnige Kempen)
16:45	Debate		
17:45	Closure		
18:00	End		

TRAINING PROGRAMME 3 - 4 OCTOBER 2002			
Thursday 3rd of October			
9:30	Group visits to social housing Projects	* projects of Zonnige Kempen	Zonnige Kempen
12:00	Lunch		
14:00	Group visits to social housing Projects	* projects of Zonnige Kempen	Zonnige Kempen
17:00	End		
Friday 4th of October			
9:00	Parallell workshops	1/workshop for policymakers : how to implement energy saving measures on policy level	3E
		2/ workshop for architects : passive design and the integration of active solar energy in the building	Zonnige Kempen
		3/ workshop for engineers : active solar systems in detail, hydraulics, etc.	ir. Daenen

ORGANIZING COMMITTEE

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