



ORDINE DEGLI
ARCHITETTI
PIANIFICATORI
PAESAGGISTI E CONSERVATORI
DI ROMA E PROVINCIA



THE ARCHITECTURE OF WELL TEMPERED ENVIRONMENT
an harmony of integrated instruments
International Conference

Eurosolar Italia jointly with **UIA/ARES** (Architecture and Renewable Energy Resources section of the Union International des Architectes) and the Board of the Architects **P.P.C. of Roma and Province** organises the International Conference "**The Architecture of Well Tempered Environment - an harmony of integrated instruments**", as a breathing space and preparatory event for the UIA World Conference that will take place in Tokyo next September 2011.

"Solar Energy in architecture and Urban Planning" is the integral part of the network of conferences on the topic organised by Eurosolar jointly with the European Union. The first conference was held in Munich in 1987; the following 5 subsequent Conferences in Paris 1989, Florence 1993, Berlin 1996, Bonn 1998 and 2000, constantly enhanced concepts and ideas of direct use of solar energy in buildings and for urban development. In this context the "**European Solar Charta**" was formulated at the conference in Berlin in 1996 under the auspices of Thomas Herzog and 30 solar architects. The "**Solar Charta**" has been translated in 10 languages and distributed around the world.

The international conference "**The Architecture of Well Tempered Environment - an harmony of integrated instruments**" aims to draw the attention to the challenge that Architecture and Urban Planning have to face in the path towards the environmental and economical sustainability. In the "**De Architecture**", by **Vitruvius**, the architect was supposed to manage entirely by himself the three pillars on which – according to him – was architecture based: **firmitas, utilitas and venustas** (durability, convenience, and beauty); the architect had all the necessary knowledge. The architect continued for centuries to be the single actor of the design process, and this was maintained also when the building started to be filled with more and more technologies to provide comfort and services, requiring new skills; the only change being that the architect started to be more a "**composer**" and "**orchestra director**" than a "**composer**" and a "**soloist**". For some time he was able to master the new instruments introduced in the orchestra, i.e. the new technologies and the knowledge linked to them.

The emerging issues about energy and environment introduces in the orchestra new instruments and players, and it is more and more difficult for the architect/composer/director to direct them, also because architecture schools moved more and more towards the issues of venustas, i.e. the current idea of architectural beauty, leaving to other professionals the task to deal with firmitas and utilitas. The architect has to direct an orchestra in which there are many instruments about which he knows very little and therefore he cannot fully exploit their potential.

The emerging need for zero energy and sustainable architecture make necessary a new planning and design process, forgetting the soloist and the director and – instead – giving to the architect the **new role** of "**integrator**" of different kinds of know how into the architectural product.

Thus, architectural and urban planning will have to include on equal terms also the other professionals, bearer of their know how, enhancing it in a iterative and interactive process. There is no other way to unite in a modern way the three Vitruvius pillars and to fulfil the need for sustainable buildings and cities.

The aim of the conference is to focus on the new architectural design process for zero energy and sustainable buildings and on its impact on the architectural language and style. This issue will be treated either theoretically and by some selected design experiences of sustainable architecture told by their protagonists.

Cochairman: **Francesca Sartogo** Eurosolar Italy President; **Nikos Fintikakis** UIA/ ARES WP Director, Athens GR

With the collaboration of  **FONDAZIONE CLOE AMBIENTEITALIA**

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May 19th

8.30 - 9.00 Registration

9.00 – 9.30 Opening and Welcome Addresses by the Authorities

9.30 – 11.00 Introduction

- Amedeo Schiattarella, Chamber of Architects of Rome and Province President
- Josep Puig, Eurosolar Vice-President
- Francesca Sartogo, Eurosolar Italia President
- Albert Dubler, UIA 1st Vice President
- Nikos Fintikakis, UIA/ ARES WP Director
- Antonio Raffaele Rivero, UIA Italian representative Member

11.30 - 13.30 First session: “Architecture, Environment and the new paradigm”

Key speakers

11.00 Serge Latouche, IEDS Paris: *Architecture and Urbanism and challenge for the future*

11.40 Christos Zerefos, President “Mariolopoulos Kanaginis Foundation” (Contributor to the IPCC Nobel Peace Prize 2007): *From the well tempered environment to sustainability*

12.20 Peter Droege, University of Liechtenstein: *100% Renewable Energy Autonomy in Action*

13.00 Renzo Piano, Unesco: *Solar architecture and Urban Planning* (video conference)

13.30 – 14.15 Lunch

14.30 – 18.00 Second session: “Towards a new paradigm in architecture and urbanism”

Panel discussion

Coordination and guidelines of the new paradigm:

interventions by: **Federico Butera** (Politecnico di Milano, Eurosolar Italia Technical and Scientific Committee), **Nikos Fintikakis** (UIA/ ARES WP Director), **Francesca Sartogo** (Eurosolar Italia President), **Patrizia Colletta** (Chamber of Architects of Rome)

take part in the discussion: **Mattheos Santamouris** (CRES President); **Vincenzo Ferrara** (ENEA); **Peter Droege** (University of Liechtenstein); **Livio De Santoli**, **Ileana Cangelli** (“La Sapienza” University of Rome); **Edoardo Zanchini** (Legambiente); **Marco Corradi** (Power House Europe); **Paolo Rotelli** (Fondazione Cloe); **Dominique Gauzin-Müller** (journalist); **Mario Cucinella** (MC architects); Platinum Sponsors representatives

Debate

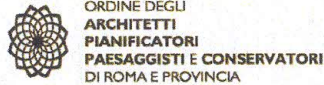
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May 20th

9.30 – 13.00 First Session: “Sustainable Energy Building: From Passive and Low Energy Building to Active Solar Energy Building”

9.30 – 10.00 Chair: Mattheos Santamouris (CRES President), introduction

10.00 – 12.30 Case studies: Mont-Cenis Academy, Herne Sodingen, Germany (European Solar Prize 1999) and **PC4 Halle Pajol**, Paris; by **Jourda Architectes**

Françoise - Hélène Jourda, Project Architect

Jean Marc Weil, structures

Eric Hutter, energy technologies

12.30 – 13.00 Mario Cucinella (MC architects): “Projects and experiences”

Debate

13.00 – 14.00 Lunch

14.00 – 17.00 Second Session: “Sustainable Energy Urban Districts and Cities: From energy and climate efficient strategies to a Fossil free vision”

Co-Chair: Peter Droege (Liechtenstein University); Maria Berrini (Ambiente Italia President)

14.30 – 15.00 Thomas Auer, Green designer Europe 2010, Transsolar
“Projects and experiences, among them Masdar City”

15.00 – 17.00 Case Study: European Green Capital - CITY OF STOCKHOLM (Sweden)

The Hammarby Sjostad eco-district and the renewal of the new Royal Sea Port.

Gustaf Landahl (Environment and health administration, City of Stockholm)

Ingela Lindh (previously head of the City planning administration of the City of Stockholm)

Marja Lundgren (White Architects, responsible for environmental issues and solar energy projects)

Debate

17.30 – 19.00

- **Signature of the Renewable Energy Manifesto towards the 24th World Congress of Architecture Tokyo 2011** (promoted by: Nikos Fintikakis, Francesca Sartogo, Federico Butera, Peter Droege, Mattheos Santamouris, Serge Latouche, Josep Puig).
- **The Eurosolar Solar Prize 2009/2010 ceremony** by Vittorio Cogliati Dezza, Legambiente president and Francesca Sartogo, Eurosolar Italia President
- Presentation of the book **“The Energy of the Sun in the Vatican”** (The Energy of the Sun in the Vatican) by Dr. Pier Carlo Cuscianna.

19.00 – Opening and guided visit to the Green Life and European Solar Prize exhibition
Green Life curators, Eurosolar Italia and Legambiente

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