

THE IMPORTANCE OF THE BUILDING ENVELOPE

The **building ENVELOPE** in the future, will be what the cell wall is for the cells. It is the place where energy exchanges take place as well as the information exchange with the environment. The building envelope in the future will be the place where all sciences will meet to provide answers to the problems of climatic change and the reduction of greenhouse gasses, with the new concepts in design, with new materials in terms of composition and strength which will have an **interactive relationship with the environment**. Information science shall also be present to manage the information and communication along with biology and medicine on behalf of the human user-inhabitant.

«Incubating the FUTURE» CONFERENCE

FAECF, the Federation of European Window and Curtain Wall Manufacturers' Association, **SEKA**, - Association of Hellenic manufacturers of aluminium- the cooperating partners, the sponsors and **ENERGY LINE** - the organising company, invite you to the conference: **The Future Building Envelope 2011** on **Friday 27 May 2011 at the Royal Olympic Hotel - Athens.**

An opportunity for enlightening information by the experts and creators of the era, who are serving with respect the bidirectional relationship between environment and man in the construction of bioclimatic buildings with an emphasis on the importance of the envelope and new technologies, the design and the materials which are integrated in the reduction of energy losses, with respect for the environment and the landscape.

At the same time the **building's internal technological management**, will protect and maintain internal conditions in harmony with the external natural environment and vice versa. This new architectural concept (envelope), is now gaining an **important role in the development of the construction sector, in Europe.**

In such an holistic approach, previous knowledge and experience are utilised. The basic building materials used in the modern age, aluminium, glass, steel are adapted integrating the knowledge and the **new concept of architectural design**. The construction sector both in Europe, takes on an important, responsible and different role in this new era.

Industry and education must also be capable of responding to these new demands, promptly and efficiently.

«Incubating the FUTURE» CONFERENCE

27/5/2011
at **Royal Olympic Hotel**

limited places

Royal Olympic:
Athanasίου Διακού 28-34
117 43, Athens (Stiles Olympiou Dios)
Tel.: +30 210 92.88.400
E-mail: Info@royalolympic.com
Close to metro station Acropolis
The hotel has a car parking (extra charge).



INFORMATION/REGISTRATION FORMS: **Energy Line**

Τηλ. **0030 210 45 12000**, info@energyline.gr

www.energyline.gr

ORGANISATION:



COOPERATING PARTNERS:



GREEK ARCHITECTURAL ASSOCIATION



CENTRE FOR RENEWABLE
ENERGY SOURCES AND SAVING



The Federation of European Window
and Curtain Wall Manufacturers' Association



ORGANISATION:



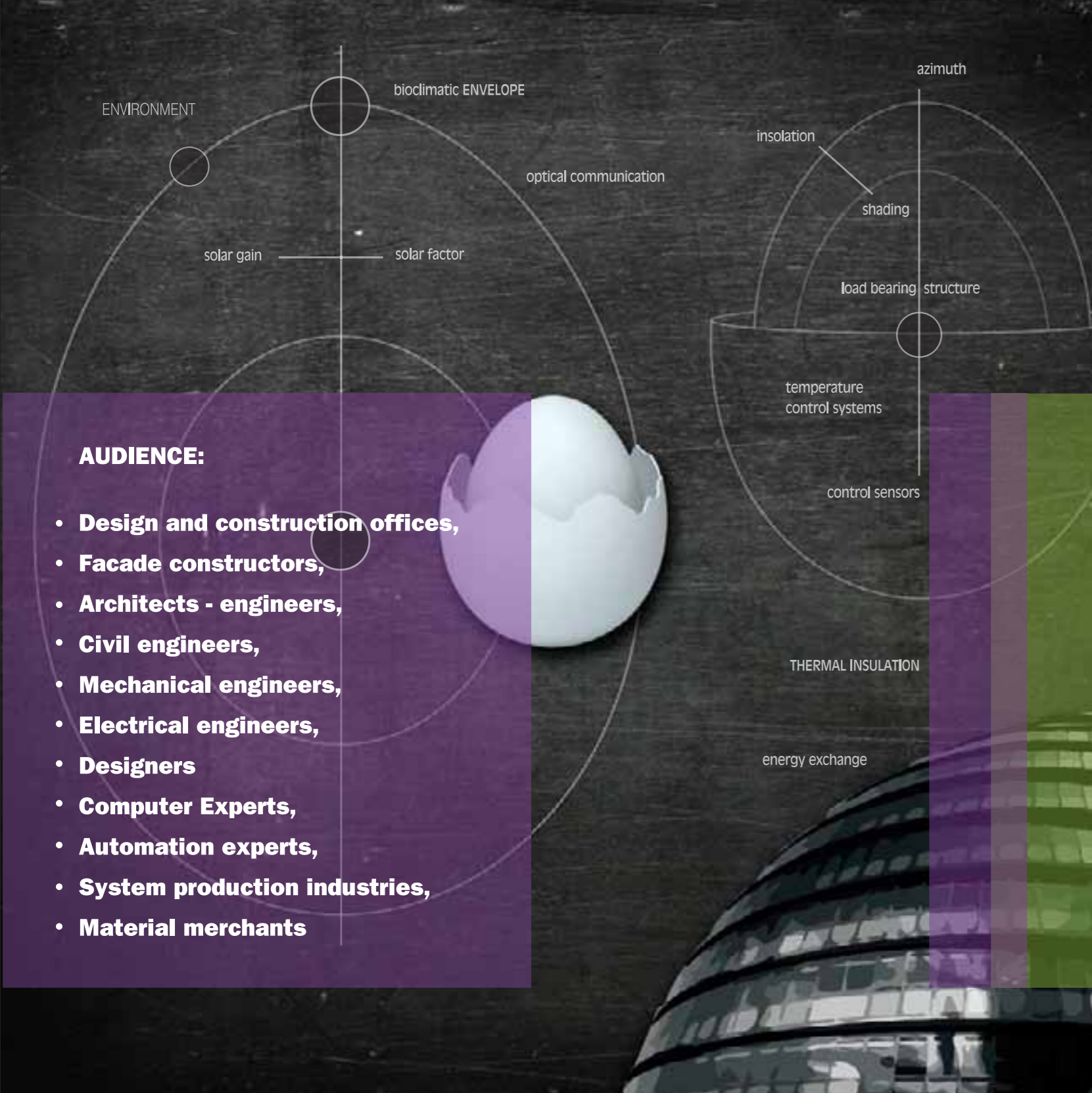
the future **Building
envelope** 2011...

... and the importance of energy saving

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AUDIENCE:

- Design and construction offices,
- Facade constructors,
- Architects - engineers,
- Civil engineers,
- Mechanical engineers,
- Electrical engineers,
- Designers
- Computer Experts,
- Automation experts,
- System production industries,
- Material merchants

«Incubating the FUTURE» CONFERENCE

TOPICS

- **Building Envelope:** A factor in the exchange of energy with the environment and an energy saving factor
- **Bioclimatic envelopes and Modern Architecture**
- **Aluminum - Steel - Glass:** Use in bioclimatic envelopes
- **Ventilated facades** Energy saving
- **The use of Aluminum in Ventilated facades**
- **Cladding - Photovoltaic envelopes**
- **Construction sustainability**
- **Multidisciplinary approaches** to the building envelope
- **Materials and cutting edge technology** for bioclimatic architecture
- **Case studies and innovative solutions**

Duration: 9.00 - 17.00

Breaks for coffee and meal are included.

Speakers include:

Prof Dr Eng. Ulrich Knaack, TU Delft , Faculty of Architecture, Dept of Building Technology. Chairman and professor of the «**Design of Construction**» dpt. Professor at Detmold School for Architecture and Innerarchitecture. Founder of the «**Facade Research Group**».

TOPIC: «**Facades: Road map to 2050**»

Dipl Eng Holger Strauss, Project leader R&D : «**Research Focus Construction Lab**» Detmold School for Architecture and Innerarchitecture. Manager of the M. Eng. Program «**International Facade Design and Construction**» at Hochschule OWL in Detmold. Member of the «**Facade Research Group**».

TOPIC: «**Printed Architecture**»



Dipl.- Ing. Linda Hildebrand PhD Candidate at TU Delft. Assistant Lecturer at Detmolder School for Architecture and Innerarchitecture. Teaches Construction Sustainability at the Detmold University, researcher for the «**Facade Research Group**».

TOPIC: «**Next Generation of Energy Performance: the Relevance of Embodied Energy in Facades**»

Prof Mattheos Santamouris, University of Athens, Dept of Physics. Director of the «**Laboratory of Building Environment**» at the University of Athens. Visiting Professor at Tokyo Technical University, Bolzano University Metropolitan University of London and Cyprus Institute. President of CRES. Director of «**Cool Roof Council of Europe**». **TOPIC:** «**Energy and Environmental Quality of the Building Sector in Greece**»

Prof Dimitrios Bikas, Aristotle University of Thessaloniki, Dept of Civil Engineering. Director of «**Construction and Building Physics Laboratory**», Sector of Science and Technology of Construction. Architect Eng graduate of A.U.Th., Dipl.-Ing TU Berlin, Phd Civil Engineering Dept A.U.Th.

TOPIC: «**Towards the integrated energy and environmental evaluation of frames**»

Dipl.-Ing. Thaleia Konstantinou, Architect MSc, PhD Researcher, Design of Construction Dept of Building Technology TU Delft Faculty of Architecture.

TOPIC: «**Facade Refurbishment of the Building Stock : A strategic approach to sustainability**»

Prof Emanuel G. Tzekakis, Aristotle University of Thessaloniki, Dept of Architectural technology. Director of the «**Building Technology Laboratory A.U.Th**», which is a certified laboratory for thermal and sound insulation and a Notified Body at the European Union (89/106/EEC).

TOPIC: «**Building Envelopes in Greece from yesterday to Tomorrow: The required leap**»

Conference coordinator: **Georgios M. Mylonakis**, Physicist, Aristotle University Of Thessaloniki, M.Sc. Maryland University USA, Chairman of the Federation of European Window and Curtain Wall Manufacturers' Association **FAECF**.