

PROCEEDINGS

**The 3rd International Conference ILUMINAT 2005
The 3rd Conference on Lighting BALKANLIGHT 2005**

June 2-3, 2005, Cluj-Napoca, Romania

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The 3rd International Conference **ILUMINAT 2005**

The 3rd Balkan Conference on Lighting **BALKAN LIGHT 2005**

PROCEEDINGS

2 - 3 June 2005
Cluj-Napoca, Romania

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WELCOME

Ladies and Gentlemen,
Distinguished participants,
Dear friends and colleagues,

On behalf of the Romanian National Committee on Illumination and the Conference Organizing Committee, I would like to welcome you to the opening of the 3rd International Conference ILUMINAT 2005 and the 3rd Conference on Lighting BALKANLIGHT 2005, and to its two days of interesting professional meetings and social events.

The Conference is honored by the presence of national lighting schools from Balkan countries and from worldwide.

Interesting scientific papers were submitted both by research teams or professionals from abroad and from national universities and companies – Bucharest, Cluj, Craiova, Iassy, Timisoara, Tg. Mures: 48 papers and three posters on 6 sessions, with more than 100 authors. Unfortunately, some of them are not able to participate, due to different personal or professional reasons. The registered participants, authors and auditory, will contribute to a high level of the conference. The topics of the presented research cover the entire field of Light & Lighting – Interior and exterior luminous environment, Energy efficient actions and solutions, Command and control of lighting systems, Photometric parameters, Computer programs, Electrical supply of lighting installations, and Architectural space. So, these cover quite well the questions raised today: light perception, human references, day-lighting systems, quality rating, standardization, and historical views.

A Special Session is offered by the research team from LAEL – Light & Architectural Environment Laboratory from Korea.

We are considering our ILUMINAT 2005 and BALKANLIGHT 2005 Conference as an interesting and useful FORUM of international lighting community. Some members of the Scientific Board expressed their deeply regrets about not being able to attend the conference, wishing the participants great success.

Many thanks and gratitude to the members of the Honorary Board, Scientific and Organising Committees, Conference Secretariat, to the Sponsors financial support and to the boarding staff of the Conference.

It is our pleasure to invite you all to join the next 4th International Conference ILUMINAT 2007, to be held in Cluj-Napoca, the heart of Transylvania, on May 2007.

Wishing to realize the promotion of lighting knowledge, to provide developments in lighting field, to enhance our friendship relations, I would like to welcome all of you, hoping that you will remain with enjoyable memories of stimulating days in Romania.



Dr. Florin POP, Professor

President of the Organizing Committee

Acting Director of the BalkanLight Society

Vice-president of the Romanian National Committee on Illumination



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Dear ILUMINAT 2005 and BALKANLIGHT 2005 participant,

Where the lighting world has studied the visual aspects of lighting over a period of more than 500 years, we still learn interesting and important new things about the visual aspects of lighting. It is impressive to see how fast the Romanian lighting community has developed. This not only concerns areas of lighting research but also areas of innovative industrial products. The participant can learn about all this at the 3rd International Conference ILUMINAT 2005 & the 3rd Conference on Lighting BALKANLIGHT 2005, being organized at the Technical University of Cluj-Napoca.

It is sensational that only recently the medical, biological and lighting world discovered that lighting also has important non-visual effects that directly relate to health and well-being. These new findings demonstrate that the subject of light and lighting is even more important than we thought.

One of the roles of CIE, the International Commission for Illumination, is spreading the knowledge on light, lighting and image technology. In this respect "ILUMINAT 2005 & BALKANLIGHT 2005" is important because it helps spreading up-to-date information to the lighting community in Romania and in the Balkans. Being already the third BALKANLIGHT Conference the lighting community of the Balkans is already accustomed to the high quality of these Conferences and I am sure the Cluj-Napoca Conference will prove this point again. But not only that: in the meantime Lighting Conferences in Romania have become famous outside Romania as well. I am convinced that also at this Conference discussions between the Romanian and international participants will be of important mutual benefit.

I wish the participants of ILUMINAT 2005 / BALKANLIGHT 2005 an instructive and enjoyable Conference and I am looking forward to participate once again in one of your future Conferences.

Eindhoven, 2 May 2005

Wout van Bommel
CIE President

Ladies and Gentlemen,

It is a great honour and a real pleasure for me to wish, on behalf of our NC and on my own, "Welcome" to all the participants at the International Conferences "ILUMINAT 2005" and "BALKAN LIGHT '05" - the 3rd Balkan Conference on Lighting.

The theme of these two conferences, "Energy Efficiency & New Trends in Lighting", is a very generous one. I am sure that subjects like Vision & colour, Daylighting & integrated lighting systems, Lighting design & interior environment, Architectural lighting design, Lighting supply installations, will allow us to discuss on modern solutions for lighting, perhaps to find new ways "to see" some old problems solved.

If you allow me, I want to emphasize one more important aspect: lighting pollution which is, unfortunately, still encountered in now-a-days; especially colour luminous pollution – a neglected up-to-date problem, which can be solved by correct choice of apparent light colour, which means uniformity of colour and not combination/mixture.

And because we have the privilege to work in this fascinating domain in which Science, Techniques and Art are joining one to each other in a harmonious way, we must see the fact that the Dynamism of the time we are living marked the lighting domain too.

The quality of modern life has the "Environmental Comfort" as a basic part, which only a well designed, well realized, well used and well maintained lighting system can provide for.

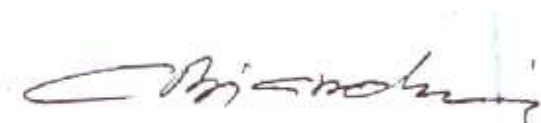
I dare to say that, in our days, the world "rediscovers" the values of "Light", its place and role in civilization and progress. For lighting specialists of today, this reality is, without doubt, a source of satisfaction and assumed high responsibilities.

I am sure that for our foreign guests will be a pleasure to find some data about Romanian Lighting School, with remarkable contribution both to the university education of the specialized engineers and to the promotion of some high technical level research.

We all know that a tradition appears and consolidates itself due to the achievements of the past, but it continues with present efforts and correct visions of future strategies of its development. In this context, Romanian NC of CIE has to defend a prestigious tradition of the electrical lighting technique and art in Romania: it's widely known that TIMISOARA, an important town of Romania, was the first city of Europe with electrical public lighting, in 1882.

I can only wish that the papers to be presented here and the discussions on their subjects will be useful for us, the specialists of Lighting, whose faith and passion remain the same by the passing of time, and that they will serve as starting points for our future actions.

I cannot finish my speech without wishing success to all the participants, hoping that you will enjoy these days in CLUJ-NAPOCA in which we celebrate LIGHT, which means HOPE, CULTURE and JOY of LIVING, because LIGHT means LIFE!



Prof. Dr. Eng. Cornel BIANCHI
President of Romanian National Committee of CIE