

Professional scientific sessions for art, architecture and urban planning Thursday evenings

Held in: Conference hall of Herampey Consulting Engineers

Date: 14.07.2016

Title: The light's application in the city and house (façades' lighting and plants' cultivation through artificial light).

Speakers and panel members: Mr. H. Moslehi and Mr. B. Sierafi.

As the first speaker Mr. Moslehi talked about facades' lighting expressing regret about buildings designed by famous architects in Tehran, that ignore completely the lighting of their own product, living the task to an electrician to find solutions when he is not professionally competent. Mr. Moslehi that in other countries lighting has become a separate field of instruction, but in Iran it continues to be ignored.

Mr. moslehi presented the reasons that the façades are illuminated:

- .To be seen in night time.
- .To show the façade.
- .To make the façade more attractive.
- .To stress on part of the façade.
- .To confuse the façade.
- .To decorate and increase the beauty of the façade.

Mr. Moslehi believes that lighting most important duty is to show in night time what is visible in day time. To achieve this goal the architect and the lighting specialist most cooperate in order to avoid confusion created by a bad preference. One of the solutions is to hide the light sources in order to not be seen in day time.

Talking about the problems that an incorrect illumination causes, stressed on two facts that are the light pollution and the dazzling light, that unfortunately are mostly ignored in the facades' lighting.

The second speaker was Mr. Sierafi who began his speech talking about modern agriculture and better known as hydroponic, that permit the fast growth of the plants through the use of nourishing materials and without the use of soil, in other world the industrial production of the plants.

Talking about the history of hydroponic agriculture he said that it goes back to the 18th century and after the world war II it has been considered seriously, in order to feed the American soldiers through the use of photosynthesis not only using sunlight but any light source. This solution permitted to provide the submarines, ships, spatial stations and countries that don't have

agricultural land, to satisfy their needs. The field registered fast growth when the scientists discovered new information about the light sources, trying to simulate the characteristics of the sunlight.

In this context the architects have always looked for solutions to introduce the natural light in the houses, in order to use it for all the necessities the inhabitants have.

Continuing his speech Mr. Sierafi explained the characteristics and the differences of the lamps used for the plants, concluding that any kind of light source can be used for the growth of the plants, but we should select the proper light source and lamp for each sort and category of plants.