



SPECIAL SESSION

LIGHTING SYSTEMS, ENVIRONMENT AND APPLICATIONS (LED & OLED)

ORGANIZED AND CHAIRED BY:

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OBJECTIVE AND TOPICS:

dedicated to the environmental and energy impact of modern lighting system technologies

Energy Saving - Light sources and Systems:

- ❖ Lighting integration in complex and global systems
- ❖ Smart lighting and SmartGrid (Lighting for Smart Cities)
- ❖ Lighting for transport
- ❖ distributed control for lighting
- ❖ Applications of new light sources: spectrum optimization for specific applications (greenhouses, treatment, Lighting for horticulture & animal husbandry, etc...),
- ❖ Sensors and detection,
- ❖ Drivers and powers converters: Deep dimming, driver optimizations (power converters for LEDs, OLEDs, etc., Electronic Ballasts for Fluorescent, HID, and electrodeless lamps, etc...), dimming control in lighting systems, EMI/EMC issues
- ❖ Optics: light extraction, optical materials, deflectors, phosphorous, Lighting design
- ❖ Light sources: LEDs, OLEDs, Electrodeless lamps, etc.
- ❖ Modeling and integration: thermal, electrical and optical modeling, Heatsinks,
- ❖ Lighting metrics & metrology

Environmental impact of artificial Light sources and Life Cycle Assessment:

- ❖ Light pollution
- ❖ Life Cycle Assessment & Costs, "from the womb to the tomb"
- ❖ Environmental-Friendly productions of Light sources ("bio sourced" Light sources)
- ❖ Environmental impact on the ecosystem (insects, pollinators, mammals, birds)
- ❖ Light source influence on farm animals (cows, chicken, etc.)
- ❖ Light source influence on human (Physical and psychological effects of light, etc.)
- ❖ Regulations, guidelines and public policies

All the instructions for paper submission are included in the conference website: <https://www.eeeic.net/eeeic>