



# LUCI Annual General Meeting



5th to 9th November 2014 Programme



ubrovnik is a city of beauty, harmony, and material and spiritual wealth that has been created over centuries.

In Dubrovnik we can boast historic achievements in the fields of literature, the arts, diplomacy and science, an exceptionally exciting present, as well as a promising and developing future in every sense of the word, that will inspire you to come back to Dubrovnik over and over again.

Dubrovnik has great experience in implementing energy efficiency projects in public lighting using modern technologies, comparing them and choosing the best solution.

It is famous for its sustainable lighting project in the ancient city core, where the experience and devoted work of different actors in this renowned UNESCO heritage site has resulted in several breath-taking lighting projects, giving a new look to the heretofore hidden beauty of the city walls at night.

I am very happy to welcome you to Dubrovnik for this LUCI Annual General Meeting. I strongly believe you will enjoy a unique lighting experience in Dubrovnik!

Andro Vlahušić Mayor of Dubrovnik



fter South America in 2012 and Asia last year, LUCI is back in Europe for its 2014 Annual General Meeting that we are very pleased to hold in the magnificent city of Dubrovnik.

After a year full of activities, projects and events, this AGM will be the occasion to reflect on the network's progress and evolution. It will also open new perspectives in terms of governance, with the renewal of our Executive Committee and the change of LUCI Presidency.

As the international forum on cities and lighting, the AGM will offer many spaces for participants to exchange their ideas, knowledge and experiences. The Open Conference sessions will be, in particular, a unique opportunity for LUCI cities to showcase their most recent lighting initiatives.

Finally, this AGM will be an exceptional occasion to discover Dubrovnik, the "Pearl of the Adriatic", and the positive impact of its lighting strategy, which has not only enhanced its heritage sites but also supported energy efficiency, reduced light pollution and improved the quality of life.

I would like to thank the City of Dubrovnik for hosting this Annual General Meeting 2014 and wish an excellent event to all!

Martine De Regge LUCI President Deputy Mayor of Ghent

# LUCI Annual General Meeting

# **Dubrovnik** | Croatia

### Wednesday 5 November

19:30 Welcome cocktail

21:00 Guided tour of the Dubrovnik old city centre

### Thursday 6 November

9:30 Opening of the Annual General Meeting

10:00 - 12:30 Lighting the Pearl of the Adriatic

- Living with historical light a history of the city and its reconstruction
- The urban development of Dubrovnik
- Public lighting in Dubrovnik past, present and future projects
- Lighting the pearls of the old city of Dubrovnik

#### 12:30 Lunch

14:00 - 17:00 LUCI General Assembly

18:00 Guided tour - the old city walls from the outside and pilot projects 20:00 Gala dinner

# Friday 7 November

9:00 - 11:00 Issues and perspectives on energy efficiency in lighting

- Funding energy efficient lighting projects in Croatia
- Energy efficient public lighting in the City of Karlovac (Croatia)
- The modernisation of the public lighting system in Šibenik (Croatia) reducing energy consumption and light pollution
- Today's light in the millennial city of Pula (Croatia)
- Improving energy efficiency and developing tourism in Sarajevo (Bosnia and Herzegovina)

11:00 Tour of the old city walls

#### 12:30 Lunch

14:00 - 17:30 LUCI Open Conference sessions19:00 International Philips / LUCI city.people.light award ceremony21:00 city.people.light dinner

### Saturday 8 November - Sunday 9 November

Optional programme

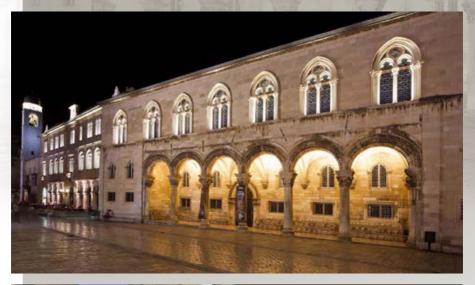
17:00 LUCI Executive Committee meeting (for EC members only) / Dubrovnik City Hall

19:15 Departure from the hotel

19:30 Welcome cocktail / Rectors Palace

#### 21:00 Guided tour of the Dubrovnik old city centre

A walk in the old city core of Dubrovnik - local guides will focus on the rich cultural and architectural heritage of the city. Participants will see how lighting is used to highlight the unique features of the city: its Gothic, Renaissance and Baroque churches, monasteries, palaces, fountains, streets and squares, to create a welcoming and warm ambiance for citizens and visitors.









9:00 Registrations and coffee / Hotel Excelsion

#### 9:30 Opening of the Annual General Meeting

Andro Vlahušić, Mayor of Dubrovnik

Martine de Regge, President of LUCI and Deputy Mayor of Ghent

### 10:00 - 12:30 | Lighting the Pearl of the Adriatic

Moderator: Darija Mikulandra Žanetić, Journalist and Radio Presenter



### 10:00 Living with historical light - a history of the city and its reconstruction

Matko Vetma, Architect, STUDIO VETMA ARH

Dubrovnik is a vibrant city, with a strong impact on residents and visitors from all over the world. Although severely damaged by an earthquake in the seventeenth century, Dubrovnik managed to preserve its heritage. Damaged again in the 1990s by armed conflict, the old city had to be reconstructed. Art-historians, engineers and architects have brought to light the values and history of the city. Matko Vetma will highlight the history of Dubrovnik, its characteristic urbanism and the major restoration work that has been undertaken.



**Matko Vetma** graduated from the Architecture University of Zagreb in 1983. He is an architect and an experienced project manager in the restoration of architectural heritage. He was formerly employed as an expert within the Conservation Department of the City of Dubrovnik and held several lectures and conferences in Europe on post-war restoration in Dubrovnik.

#### 10:30 The urban development of Dubrovnik

Jelena Lončarić, Head of the Department for Urban Planning, Spatial Planning and the Environment, City of Dubrovnik

The City of Dubrovnik has a long tradition of urban planning, dating from the Statute of Dubrovnik (1272). Following a period of earthquakes and war damages, the Spatial Plan and the General Urban Plan of the City were adopted in 2005. These documents were modified two years later to help achieve a more sustainable development of the city. The city Geographic Information System (GIS) has been created to support the implementation of this urban planning strategy and includes databases and applications related to public lighting.



**Jelena Lončarić** is the head of the department of the City of Dubrovnik in charge of urban development and the drafting and adoption of zoning documents. She graduated from the Faculty of Law at the University of Zagreb with a special emphasis on space, planning and protection.

11:00 Coffee Break



#### 11:30 Public lighting in Dubrovnik - past, present and future projects

Maja Brzić, Senior Associate for Public Lighting, City of Dubrovnik

Improving the quality of life, increasing safety and visibility in public areas, and reducing local budget costs – this is what the City of Dubrovnik aims to achieve with its public lighting. Different technologies are tested through lighting pilot-projects in order to identify the solutions that are best adapted to the city's needs taking into account regulations and standards as well as aesthetic aspects. In the next few years Dubrovnik aims at implementing an efficient and smart lighting system using SSL technologies in order to decrease energy consumption and light pollution in the entire administrative area.



**Maja Brzić** graduated from the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture. During and after her studies, she worked as a designer of electrical systems in a private construction company that included high and low voltage systems and automatic control. Since 2010 she has worked as a Senior Associate for public lighting dealing with maintenance, investments and renovation of public lighting, with special focus on the lighting of the historical city centre.

#### 12:00 Lighting the pearls of the old city of Dubrovnik

Diana Galić, Lighting Designer, Nova-lux

Dubrovnik's old city, a UNESCO protected site, has a very long and rich history. Five years ago, the city authorities began the complex task of integrating decorative lighting of the old city walls and fortresses, together with architectural lighting of buildings, and public lighting within the old city. This ambitious project is not complete yet, but Diana Galić will present some aspects of the project development, the coordination process, problems encountered and solutions found. She will also address the impacts of the new lighting, the results achieved and the future planned tasks. An insight into this impressive project from a lighting designer perspective.



**Diana Galić** is a lighting designer with international practice specialised in architectural and facade lighting of old cities, stadiums, hotels, churches, etc. Together with Zlatko Galić, she is a founder of Nova-lux, which integrates a unique and creative approach to lighting design. It combines a detailed and practical approach to electrical engineering as well as an energy efficient approach, all connected with impressive visualisations by 3D artists.

12:30 Lunch / Hotel Excelsion

### 14:00 - 17:00 | **LUCI General Assembly** (for LUCI members only)

LUCI members will discuss the network's activities and perspectives. LUCI Commission outputs as well as other projects involving the network will be presented.

The General Assembly will also see the renewal of the LUCI Executive Committee.

17:00 Free time

18:00 Departure from the hotel

#### 18:00 Guided tour - the old city walls from the outside and pilot projects

A look at some LED lighting projects – Dom Zdravlja and Lapad Station crossroads, Andrija Hebrang and Frana Supila streets, walking path Solitudo – as well as the solar street LED lighting pilot project in Batala Park.

20:00 Gala dinner / Fort Revelin







#### 8:30 Registrations and coffee / Hotel Excelsion

#### 9:00 - 11:00 | Issues and perspectives on energy efficiency in lighting

Moderator: Darija Mikulandra Žanetić, Journalist and radio presenter

# 9:00 Funding energy efficient lighting projects in Croatia and encouraging best practices

Darijan Levak, Expert Associate for Energy Efficiency and Renewable Energy Sources Programmes and Projects, Environmental Protection and Energy Efficiency Fund

This presentation will address new methods of financing energy efficient public lighting projects in Croatia provided by the Environmental Protection and Energy Efficiency Fund. Since its foundation in 2003, over 300 public lighting (re)construction projects were co-financed and more than € 23.9 million were invested in these projects which have achieved the energy savings of 24 GJ annually. Darijan Levak will introduce the conditions that users must meet to obtain financial aid. He will also present some exemplary projects implemented.



**Darijan Levak** graduated from the University of Zagreb, Faculty of Electrical Engineering and Computing. He has worked as an associate at the UN Development Programme "House in Order". Since 2011, he works in the Environmental Protection and Energy Efficiency Fund as an associate for public lighting.

#### 9:20 Energy efficient public lighting in the City of Karlovac (Croatia)

Hermina Komanac, Head of the Section for Maintenance of Municipal Utilities

In the past few years, the City of Karlovac has reduced the intensity of its public lighting as well as its energy consumption, by replacing sodium light sources with a special built-in flow-regulation system. Special attention has also been paid to the replacement of old lamps during maintenance works. In close cooperation with the Karlovac conservation department, the municipality plans to further increase energy efficiency through the replacement of old lamps in the historical part of the city. All energy inefficient lamps in Karlovac will be replaced by 2020.



**Hermina Komanac** holds a Bachelor of Civil Engineering from the Faculty of Civil Engineering, Zagreb. She has had several experiences at the City of Karlovac in the field of sewerage and as an expert for construction, monitoring construction projects from tender to approvals. Since 2011, among other responsibilities, she is in charge of public lighting maintenance and repair.

# 9:40 The modernisation of the public lighting system in Šibenik (Croatia) - reducing energy consumption and light pollution

Mladen Živković, Senior Associate for Electrical Engineering, City of Šibenik

The City of Šibenik has undertaken a detailed survey of the public lighting system by collecting data on lamps, distribution boxes and streetlight poles, and by analysing trends in public lighting consumption. The modernisation of the public lighting in the concerned area will consist of reducing the number of lamps and installing new energy efficient solutions. The municipality also intends to develop a public lighting control system.



**Mladen Živković** graduated from the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture. He started his career in a private company Elektrolux d.o.o. in Šibenik as the head of the electrical department. He also has experience in coordinating the construction of solar power plants at the company RUN d.o.o.

#### 10:00 Coffee break

#### 10:20 Today's light in the millennial city of Pula (Croatia)

Dean Skira, Lighting Designer, Lumenart and Skira

The public lighting of Pula during the past year has had a significant impact on improving the quality of life for residents and visitors. Colourful lighting has turned eight (still functional) cranes into bird-like structures in the Uljanik shipyard. This project has played a vital role in creating a recognisable city and enhancing Pula's industrial heritage. The energy efficient lighting project for the old town has also contributed to the well-being of local communities through energy conservation and use of the latest lighting technologies.

**Dean Skira** is the owner and manager of the company Lumenart and Skira which he founded in 1990. An award-winning lighting designer, he has 25 years of experience in designing innovative lighting solutions. He studied lighting design and interior design at the Fashion Institute of Technologies in New York.

# 10:40 Improving energy efficiency and developing tourism in Sarajevo (Bosnia and Herzegovina)

**Dževad Bećirević**, District Council Chairman, City of Sarajevo and **Srdja Hrisafović**, DIA, MBS, Academy of Fine Arts, University of Sarajevo

This presentation will describe the public lighting strategy of the City of Sarajevo. The lighting master plan of the municipality aims at introducing LED solutions and smart lighting systems. This will contribute to increasing safety and energy efficiency and reducing energy consumption and light pollution.

As an illustration, the focus will be on the lighting of the old city centre, Baščaršija. In this project, the concept consisted of treating small-scale urban spaces as if they were interior spaces, illuminated with daylight white, low positioned and almost invisible LED lighting fixtures. Problems encountered and lessons learnt from the implementation of this project will also be highlighted.





**Dževad Bećirević** graduated from the Mechanical Faculty of Sarajevo (BiH) and has been working as a professor in Sarajevo. He was elected the Mayor of Centre Sarajevo in 2004.



Prof. **Srdja Hrisafović** holds a Master's degree in Building Science from the School of Architecture, Building Science, University of Southern California, Los Angeles (USA). He created the concept and oversaw the implementation of the illumination of Sarajevo's historical centre. He also advises local governments on matters of lighting and the environment, and teaches lighting and design at a number of universities in Europe, the USA and New Zealand.

#### 11:00 Tour of the old city walls

A walk on the top of the city walls, one of the most grandiose fortification monuments in Europe, with breathtaking views of the port and the old city of Dubrovnik.

12:30 Lunch / Hotel Excelsion

### 14:00 - 17:30 | LUCI Open Conference sessions

From master planning to festivals, through to smart lighting and innovative technologies, a great variety of topics related to outdoor lighting will be addressed in this unique city forum. An opportunity for all participants to discuss and exchange viewpoints on urban lighting trends with cities from around the world!

**TRACK** 

14:00	Light, art and innovation in Amsterdam - the search for
	synergy to use the city as 1:1 LAB Paco Bunnik, Urban Designer and Architect, City of Amsterdam
14:25	Lighting: the main element for highlighting urban heritage in Bucharest  Cosmin Gheorghiu, Director, Public Utilities Department, City of Bucharest
14:50	The Ghent Light Festival 2015
	Bart Peeters, Urban Lighting Advisor, City of Ghent
15:15	Light and Art in the Public Space
	Members of the LUCI Commission on Light and Art
15:40	Break
16:15	Helsinki in a good light
	Olli Markkanen, Manager, Helsinki Energy
	Oll Markanett, Manager, Heisinki Ehergy
16:40	Light art for the Lyon Part-Dieu public library











TRACK

14:00	Feedback on the first highway in Belgium lit with LED  Martin Lefrancq, Project Manager, Brussels Mobility
14:25	Long-term E-auction purchase of Rotterdam street light fixtures  Joop Polfliet, Team Manager Infrastructure, City of Rotterdam
14:50	The Seoul public lighting strategy and its contribution to creating a sustainable and livable city  Nai Kyu Park, Culture, Design and Tourism Headquarters, City of Seoul
15:15	Dynamic lighting via detection of speed in tunnels of the Paris ring road  Denis Perrot, Expertise & Innovation Manager, EVESA
15:40	Break
16:15	Form detection: a new solution for the right lighting at the right time Joël Lavergne, Public Lighting Manager, City of Toulouse
16:40	Feedback: bicycle path with LED luminaires test project in Gothenburg Ingemar Johansson, Head of Street Lighting, City of Gothenburg
17:05	Roadmap Eindhoven for Urban Lighting 2030 and the ENIGMA project Arthur Noordhoek, Lighting Consultant and Jan Josten, Project Manager, City of Eindhoven

#### 17:30 Free time

18:45 Departure from the hotel

# 19:00 International Philips / LUCI city.people.light award ceremony / Dubrovnik Theatre

The international city.people.light award was created in 2003 by Philips and LUCI. Each year, it rewards three cities that best demonstrate the added value that lighting can bring to the urban environment through the integration of the notions of "city", "people" and "light" in a coherent lighting strategy.

21:00 city.people.light dinner / Klarisa restaurant



## Korčula & Pelješac Tour

- 8:00 Travel to Orebic (by bus) with a short stop in the Ston salt pans
- 9:30 Arrival in Orebic and departure for Korčula (by boat)
- 10:30 Visit of Korčula and Marko Polo's house
- 11:30 Free time in Korčula
- 12.45 Departure to Orebic (by boat) followed by a bus ride to Matuško winery
- 13:45 Visit of Matuško winery wine and cheese tasting
- 15:00 Lunch / Bota Šare Restaurant, Mali Ston
- 18:00 Arrival in Dubrovnik



### Konavle & Kotor (Montenegro) Tour

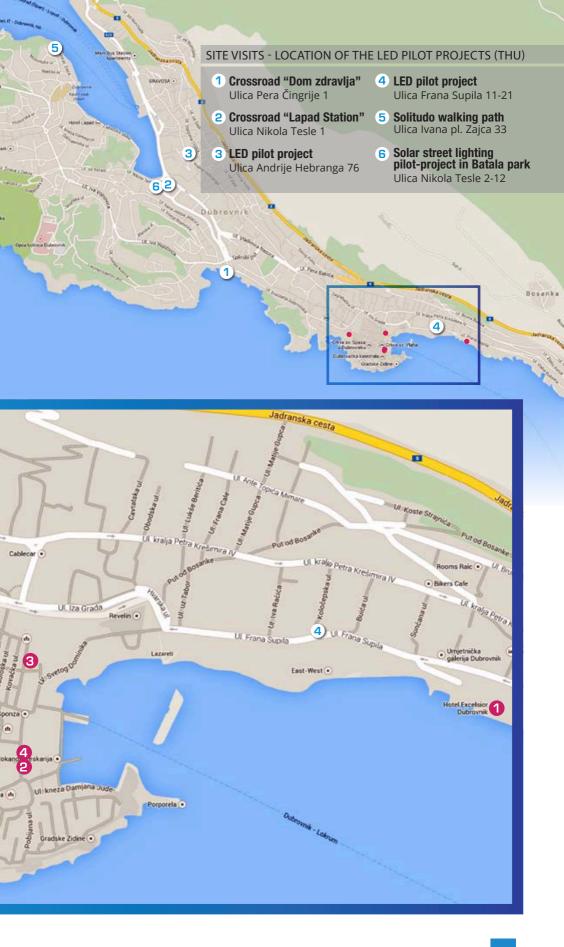
- 8:00 Departure from Dubrovnik
- 8:45 Visit of Cavtat
- 9:20 Departure from Cavtat
- 9:40 Visit of Čilipi and the Konavle house
- 10:20 Departure for Kotor (Montenegro)
- 12:00 Sightseeing tour in Kotor with a local guide
- 13:00 Free time in Kotor
- 14:00 Departure in direction of Dubrovnik (by boat and bus)
- 15:30 Lunch / Konoba Vinica, Monković, Ljuta in Konavle countryside
- 17:30 Arrival in Dubrovnik



# **Dubrovnik** | Croatia

- 1 Accomodation and venue (Thu Fri) Hotel Excelsior Frana Supila 12
- Welcome cocktail (Wed)
  Rector's Palace
  Pred Dvorom 3
- **3 Gala dinner (Thu)**Fort Revelin
  Svetog Dominika 3
- 4 city.people.light award ceremony (Fri) Dubrovnik Theater Marin Držić, Pred Dvorom 3
- 5 city.people.light dinner (Fri) Klarisa Restaurant Poljana Paska Miličevića 4





After Medellin (Colombia) in 2012 and Guangzhou (China) in 2013, cities and lighting professionals worldwide are invited to Dubrovnik (Croatia) for the LUCI Annual General Meeting 2014.

Key event of the LUCI calendar, the AGM is the international forum on urban lighting. It provides cities a unique opportunity to share experiences, exchange know-how and learn from each other through various conferences and meetings.

Join us in Dubrovnik for four days of discussion, debates and discoveries on urban lighting!



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