

**RECOMMENDATIONS ON CHOICE OF MATERIALS, EQUIPMENT
AND TECHNOLOGIES FOR CREATING OBJECTS BY PARTICIPANTS OF THE
COMPETITION OF LIGHTING INSTALLATIONS
WITHIN THE INTERNATIONAL FESTIVAL
«NIGHT OF LIGHTS IN GATCHINA 2017»**

Particularities of the territory of the festival "Night of Lights in Gatchina"

Taking into consideration that Gatchina Reserve-Museum is an object of cultural heritage, the organizers of the Festival must carefully take care of its territory to avoid any destruction of paths, lawns, park trees, and water areas pollution. It is necessary to coordinate any actions within the territory with the relevant departments of the park.

For the participants of the festival, involved in creating lighting installations, the following methodical recommendations for selection of materials and equipment, as well as technologies have been elaborated:

1. Dimensions of light installations/objects.

The size of the light objects submitted to the competition is not limited. However, remember that the time of creating and installing of your lighting objects is very short, no more than 7 days. When choosing the exact location of the lighting object, you must take into account the surrounding landscape and architectural context, the necessity to preserve the surrounding grass, trees, and paths of the park and water areas.

2. Recommended materials.

The materials presented below make it possible to construct lighting objects of a rather high degree of complexity corresponding to the park territory scales in the certain period of time, using only hand tools:

Recommended materials:

- Wooden balk
- Fiberglass reinforcement
- Adhesive tape (scotch tape)
- Adhesive tapes colored
- Plastic bundle tie
- Plastic pipe
- Metal-plastic pipe
- Fiberglass pipe
- PVC Pipe
- Cellular polycarbonate (transparent and colored)
- Polyethylene film is transparent and colored in various thicknesses
- Spunbond of various colors, thickness and translucence
- Paints can be used according to the specifics of your installation: nitro, oily, alkyd or acrylic
- Polisyk
- Ropes, cords (for constructive and decorative purposes, it is better to use synthetic samples, given that the range of colors on the market is not limited)

Links to the images of these materials can be found on the festival website www.gatchinanights.ru.

You should remember that lighting objects will be located in the open space and, in this connection, will be the subject to possible wind loads and atmospheric precipitation for two or three days. Therefore, paper, cardboard, gouache and other materials that are sensitive to water are not recommended.

NB. The recommended materials are not obligatory, but in case of choosing other technologies for making lighting installations, one should consult the chief artist-technologist (art@gatchinanights.ru).

The drawing of the light object, the list of materials and the particularities of the technological process must be approved by the Organizing Committee and representatives of the technical services of the Gatchina Reserve-Museum.

If necessary, the organizers will provide with any specialist's advice on the above-mentioned materials and methods of working with them.

NB. The use of waste materials in your installation will be an advantage. Considering that 2017 is the year of ecology, attracting attention of the festival audience to the excessive amount of waste produced by mankind is welcome. Creating works of art by the means of waste can turn into an audacious social event.

3. Protection of light objects:

Organizers of the festival secure order in the venue of the festival, but can't guarantee the «congruent behavior» of every visitor. Therefore, when creating your art objects, it is recommended to make them vandal – resistant. Those installations that don't require any special fence and don't have easily separated parts are preferable. However, in case of artistic or technical need, it is possible to fence your object. It is necessary then to coordinate it in advance with the Organizing Committee of the festival.

4. Multimedia elements of your lighting object:

I. Light:

We recommend using energy-conservative technologies. You can use any kind of LEDs, energy saving lamps, fluorescent lamps, glow paper. If there is no special artistic need, please, do not use filament lamps with voltage more than 24 volts. Any exceptions caused by artistic needs should be separately agreed with the Organizing Committee.

The environmental conditions should be taken into account - we are going to work outside. We recommend using waterproof illuminants and cabling and wiring products. In any case, you must make sure that your lighting object works properly in the rain and high-humidity conditions.

It is highly recommended to use a low voltage (12 or 24 volts) inside your objects. The conversion of a high (220 volts) voltage to a low voltage (12 or 24 volts) must be performed outside your object/installation, within a protected electrical panel. Exceptions caused by artistic needs should be separately agreed with the Organizing Committee.

When using any illuminants at a distance from your lighting object, it is necessary to coordinate the place, power supply and rain protection with the Organizing Committee. If it is necessary to place illuminants on the park trees, please note that the reconciliation process can last for a long time.

NB. Any harmful light emission effects on visitors' eyes must be excluded. This aspect will be strictly controlled by the Organizing Committee.

NB. We kindly ask you to respect the authors of neighboring installations, and not to interfere into the art spaces of your colleagues with your luminous fluxes.

II. Sound:

If your lighting object is supplied with any background sounds, the sound field must be limited to the visual perception area. If there are important artistic reasons for the expansion of the sound field, it is necessary to agree them with the Organizing Committee and the authors of the neighboring installations.

The environmental conditions should be taken into account - we work outside. We recommend using waterproof sound sources and cabling and wiring products. In any case you have to take care that your object functions in rain and high humidity.

Inside the objects, only low-current lines should be used. We strongly recommend using non-amplified speakers. Any sound-amplifying and regulating equipment must be placed outside the object/installation, in a protected electrical panel. Any exceptions must be agreed with the Organizing Committee.

When using sound sources at a distance from your object, it is necessary to coordinate the place, power supply, and rain protection with the Organizing Committee. If it is necessary to place speakers or microphones on the park trees, please note that the reconciliation process can take a long time.

NB. Please treat the authors of neighboring installations with respect, do not interfere with your sound effects in their artistic spaces.

III. Video:

When using projectors inside lighting objects, it is recommended to use class 65 IP devices; when constructing an object, do not expose the projector to rain or moisture.

When using TVs and monitors, you must provide their protection from rain and moisture. It is preferable to use TVs and monitors with external, remote power supplies. Power supplies must be located outside the object/installation, in a protected electrical panel.

When using any projection devices at a distance from your object, it is necessary to coordinate the place, power supply, rain protection with the Organizing Committee. If it is necessary to locate any devices on the park trees, please note that the reconciliation process may take a long time.

NB. Prepare and produce light-penetrating and light-reflecting surfaces with a glance to weather conditions. It can be plastics, synthetic fabrics, vinyl films, polyethylene surfaces. Avoid (if there is no artistic necessity) cotton fabrics - they can behave unpredictably in case of rain or high humidity.

IV. Control:

It is highly recommended to use automated control systems. These can be motion sensors, presence sensors, or light sensors. If your lighting object works according to the developed scenario, then the execution of the program should be provided in a computer way and not depend on a human factor.

Light objects with "manual" control are strongly discouraged.

Starting (turning on) the installation (lighting object) should be carried out "from one button", with a single switch or a single command. Remember: installations that require more than one action to start are not viable.

The start-up and control system must be located outside your object/installation, in a protected electrical panel.

NB. It is important! Imagine you need to leave your object to take a bio break or to see other installations of the festival. If your own installation depends on your presence, then most of the visitors will not be able to enjoy your art.

V. Fire, pyrotechnics:

It is not recommended to use fire or naked flame, regardless of the size of your lighting object. If your artistic idea requires the use of open fire or pyrotechnic effects, it should be discussed with the Organizing Committee and technical experts of the Gatchina Reserve- Museum, as well as with a specialist on pyrotechnics. In any case, the objects must meet the requirements of fire and general safety.

NB. When developing drawings and making a list of necessary materials and equipment, take into account that one of the important selection criteria for the final stage is a reasonable costing of your object. Please, take into consideration a short-term displaying of the installations and a limited budget of the festival. Ideas of your lighting objects should be realistic, budgets should be commensurate.