

the 2<sup>ND</sup> **INFORMATION LETTER**  
on the **INTERNATIONAL WEEK of PLANETARIUMS - 2023**



The 6<sup>th</sup> International Fulldome Festival "Reflections of the Universe"



The 6<sup>th</sup> International Conference "Planetarium of the XXI Century"

Dear friends, colleagues and partners!

We are pleased to invite you to the WEEK OF PLANETARIUMS - 2023 held by the Cultural and Educational Center named after Valentina V. Tereshkova, Russian Planetariums Association with the support of the Presidential Grants Fund. This event is dedicated to the 60<sup>th</sup> anniversary of the space flight made by the first female cosmonaut – Valentina V. Tereshkova.

The week of planetariums will last for four days and will revolve around planetariums and related matters. This event aims at both professionals and novice planetarians. All attendants and participants will be able to walk through the history of the Cultural and Educational Center starting from the first draft to its construction and equipment installation, from the first word written in a script to an entertaining fulldome show. We will discuss the significance of planetariums in modern Russia and challenges that can be resolved with such innovative equipment.

### **General Information**

The International Fulldome Festival "Reflections of the Universe" (hereinafter referred to as "Festival") aims to heighten the interest of the Russian community towards planetariums as innovative, cultural and educational institutions, to unlock the creative potential of the people

working in Russian planetariums, and create modern studios for producing educational and scientific fulldome content for planetariums in the territory of Russia. The Festival expands the focus area of planetariums, introduces new ways for popularizing science and showcasing space and astronomy research to various social groups, including the Russian and foreign youngsters.

The sixth edition of the Festival will be traditionally held by the State Autonomous Cultural Institution of Yaroslavl Region "Cultural and Educational Center named after Valentina V. Tereshkova" at the address: **Tchaikovsky Street 3, Yaroslavl, 150000, Russia**. As the Organizing Committee has decided, the Festival is held bi-annually.

On the same dates the International Conference "Planetariums of the XXI century" is held by the Cultural and Educational Center named after Valentina V. Tereshkova (hereinafter referred to as "Conference"). The Conference traditionally revolves around planetariums as modern informative and educational institutions.

Nowadays many planetariums are being built in the territory of Russia. Modern planetariums have been opened in Irkutsk, Kazan, Kaluga, Kirov, Moscow, Nizhny Novgorod, Novokuznetsk, Novosibirsk, Perm, Saint Petersburg, Tomsk, Ufa, Yaroslavl and in the Commonwealth of Independent States, including Belarus and Kazakhstan.

Modern planetariums are used to train future cosmonauts, sailors and pilots on a professional level. These institutions are essential to study astronomy and astronavigation, and take readings of celestial bodies. Cutting-edge equipment enables lectures to project educational programs and programs about scientific space experiments right on the dome in real-time mode.

Russian Planetariums Association experts have extensive experience in creating educational and cultural complexes using technical opportunities of modern planetariums. Gaining experience in Yaroslavl Cultural and Educational Center named after Valentina V. Tereshkova and from fellow Russian and foreign colleagues, we are willing to share our best practices with everyone who wants to open this institution in their home region.

As planetarium technologies are steadily developing, an interest towards planetariums and cultural and educational development of population is also increasing. Planetariums play a key role in patriotic upbringing of youngsters, drawing their attention to innovative space and astronomic studies, achievements of Russian science, and making such science-driven occupations as the cosmonaut, sailor and pilot more upmarket.

**Festival Organizers:**

- V.V. Tereshkova Charitable Foundation
- Department of Culture of Yaroslavl Region

- State Autonomous Cultural Institution of Yaroslavl Region "Cultural and Educational Center named after Valentina V. Tereshkova"
- Russian Planetariums Association

### **Official Partners:**

The Organizing Committee invites you to become a Partner of the International Week of Planetarium - 2023! You or your organization can become our Partner. Thanks to this, our mutually beneficial cooperation will become as effective as possible. If you are interested, please contact the Board of the International Week

Andrey V. Lobanov, +7 916 303 8764, [lobanov@planetariums.ru](mailto:lobanov@planetariums.ru)

### **Festival Organizing Committee:**

- Elena A. Tereshkova – Vice President of V.V. Tereshkova Charitable Foundation (as agreed)
- Ekaterina V. Loboda – chief expert of culture and arts office of Department of Culture of Yaroslavl Region (as agreed)
- Irina N. Trofileva – Director of the State Autonomous Cultural Institution of Yaroslavl Region "Cultural and Educational Center named after Valentina V. Tereshkova"
- Zinaida P. Sitkova – chief expert of the Municipal Budgetary Institution of Culture "Nizhny Novgorod Planetarium" and co-chair of the Russian Planetariums Association
- Andrey V. Lobanov – chair of the Russian Planetariums Association
- Sergey A. Yazev – the Festival Jury Chair.

### **Secretary of the Organizing Committee:**

Ekaterina N. Tikhomirova – Deputy Director for Academic and Advisory Affairs of the State Autonomous Cultural Institution of Yaroslavl Region "Cultural and Educational Center named after Valentina V. Tereshkova"

### **Festival Aims to:**

- Show a powerful potential of planetariums and their cutting-edge projection equipment in cultural and educational fields;

- Heighten an interest to the production of fulldome shows for the Russian and foreign planetariums.

**Festival Goals:**

- To demonstrate the creative potential of the Russian and foreign fulldome producers;
- To expand the focus area of planetariums and give an impetus to the production of intellectual property assets;
- To encourage mindset formation and help people finding their own place in the world.

**Who Will Attend the Festival:**

- Directors and workers of the Russian planetariums
- Representatives of foreign planetariums
- Representatives of the scientific community and business
- Freelance fulldome specialists
- Producers of fulldome content
- Other concerned parties.

**Expected Festival Results:**

- The winning authors and creative teams will get support and acclaim
- The Festival participants will gain valuable creative experience through communication with their foreign colleagues and will be able to produce unique programs in order to increase the intellectual level and attendance of modern planetariums.

**Festival Arrangements:**

1. The Festival takes place on June 14 – June 17, 2023.
2. Requirements to the submitted applications and works can be found in Appendix 1.
3. Both individual and collective authors are admitted to the Festival.
4. All the accepted works must be no older than 2021 and should not be shown on the Festival for the second time.
5. The Festival Jury is formed by the Organizing Committee
6. The Festival Jury chooses awardees in six categories in accordance with the types of the fulldome films presented during the Festival.
7. The Festival winners are awarded with diploma and prizes.
8. The Festival Jury reserves the right to award additional noteworthy works.

### **Types of Fulldome Content on the Festival:**

- The best scientific fulldome show, or popular-scientific planetarium presentation with fulldome visualization (16-45 minutes);
- The best creative fulldome show, or creative planetarium presentation with fulldome visualization (16-45 minutes);
- The best scientific fulldome show (5-15 minutes);
- The best creative fulldome show, or creative planetarium presentation with fulldome visualization (5-15 minutes);
- **The best "live" performance (lecture) with fulldome visualization**
- People's Choice Award after audience polling.

### **Topics of Seminars and Workshops:**

- Producing and editing fulldome content;
  - Producing and editing programs for planetariums;
  - Sound in the dome;
  - Location shooting for fulldome content;
  - Sources of correct data and basic materials for planetarium sessions
  - Music for planetariums.
- The accepted materials will be demonstrated in the dome or on additional portable platforms located on the territory of the Cultural and Educational Center named after Valentina V. Tereshkova;
- The accepted materials will be shown with the help of six-channel Carl Zeiss ® powerdome EDITION with a 3K resolution;
- Seminars and workshops will take place in classrooms of the Cultural and Educational Center named after Valentina V. Tereshkova;
- Due to time limit, the Organizing Committee reserves the right to accept or decline submitted applications after consideration. The Organizing Committee comes to a decision in accordance with the following criteria: film content, conformity with a claimed type, technical level, design, creativity and originality;

### **General Information**

#### **Conference Aims to:**

- Present planetariums as powerful, cutting-edge and entertaining informative and educational institutions for popularizing scientific knowledge.

### **Conference Goals:**

- To show a powerful potential of planetariums in the current Russian conditions;
- To demonstrate different types of planetarium equipment;
- To reveal the structure of modern planetariums as exemplified by "Cultural and Educational Center named after Valentina V. Tereshkova".

### **Who Will Attend the Conference:**

- Representatives of scientific community
- Directors and experts from regional and municipal Departments of Culture, Education, Tourism and Construction
- Representatives of the Russian Planetariums Association and foreign planetariums
- Manufacturers of planetarium equipment and software
- Fulldome producers
- Architects
- Non-governmental investors
- Sponsors.

### **Types of Speeches, Presentations and Workshops:**

- Scientific lecture with fulldome visualization
- Popular-scientific fulldome show
- Reports on the methodological work in planetariums. Planetariums as cultural, educational and scientific complexes. Planetariums as means of science popularization.
- Innovations and new forms of work in planetariums.
- Specific designing, construction and tooling of modern planetariums.
- Presentations of new planetarium equipment.
- Presentations of new planetarium software.
- Presentations of planetarium content.
- Other topics approved by the Conference Organizing Committee.

The Conference participants are firmly convinced that such activity as "Scientist's tribune" should be preserved and further improved because it encourages communication among scientists and population, and presents the valid information on the latest scientific achievements. The collective work of planetarians and scientists on a fulldome show concerned with achievements of the Russian science is included into the above-mentioned activities.

### **Conference Fields of Work:**

- Planetariums as a special phenomenon in global history and culture. Modern planetariums. The concept of planetariums, the Russian and foreign experience.
- Demonstration of planetarium equipment and its potential. Expanding the focus area of planetariums. Special projective equipment for planetariums. Producing fulldome shows.
- Application of interactive museum technologies in the sphere of education and culture
- Major areas of academic research in planetariums. Planetariums at the confluence of culture, education and science. Popularizing ideas.
- Scientist's tribune as a communication channel between scientists and non-professionals, and the source of reliable information about the latest scientific achievements
- Interactive, "live" performances at the planetarium. Communication with the viewer.
- Collective work of planetarium crew and scientists to create general-audience programs showing achievements of the Russian science
- Observatory as a part of planetariums
- Role of planetariums in forming space thinking
- Architecture of planetariums: modern trends. Special projecting and building methods, as well as technological equipment of modern planetariums. Architectural acoustics in planetariums
- Commercial activities in planetariums. Sphere of extended services. The results of the Conference will be recorded in a resolution
- Legal matters. Financial and legal aspects of modern planetariums.

### **Conference Conditions:**

All the reports are given in a real-life mode and accompanied by slide presentations.

Guest speakers are invited to take part in the Conference.

Due to time limit, the Conference Organizing Committee reserves the right to include submitted lectures into additional sections or poster sessions.

After all the submitted applications are processed, the Organizing Committee plans to divide panel sessions into several sections. A more detailed program of the International

Conference "Planetariums of the XXI century" will be sent to participants together with the second information letter.

Requests and questions concerning the Conference can be sent to the e-mail of the Organizing Committee mentioned below.

All the Conference materials will be presented in the dome and classrooms of the Cultural and Educational Center named after Valentina V. Tereshkova, as well as on roll-ups and in information booths

Seminars and workshops will take place in classrooms of the Cultural and Educational Center named after Valentina V. Tereshkova

Due to time limit, the Conference Organizing Committee reserves the right to accept or decline submitted applications after consideration.

#### **PROCEDURE FOR RECEIVING APPLICATIONS:**

Deadline for receiving speaker applications and works longer than 15 minutes – **May 15, 2023.**

Deadline for receiving speaker applications and works shorter than 15 minutes – **May 31, 2023.**

Deadline for receiving applications from Festival participants – **May 31, 2023.**

#### **Information for the Participants:**

During the Festival, the Organizing Committee plans to provide participants with the following opportunities:

- Taking part in the press conference held by the Festival Organizing Committee;
- Continuous communication with representatives of federal and regional mass media;
- Spreading promotional merchandise and information products in paper or electronic format (it should be discussed with the Organizing Committee in advance).

Requests and questions concerning the Conference can be sent to the e-mail of the organizing committee mentioned below.

- The Organizing Committee is planning a cultural program for the participants of the International Week of Planetariums.

#### **Venue:**

**The INTERNATIONAL WEEK of PLANETARIUMS – 2023** will take place on **June 14 – June 17, 2023**



at the address:

**the Cultural and Educational Center named after Valentina V. Tereshkova  
Tchaikovsky Street 3,  
Yaroslavl, 150000  
Russia**

**Organizational Issues and Financial Matters:**

- The Festival participants will cover food costs, and expenses related to travel and accommodation by themselves;
- The Festival participants should pay registration fee in the sum of 1000 RUB. **The sum should be transferred to the Russian Planetariums Association payment account in advance (the additional instructions will be sent out).** The registration fee to the Festival includes full access to conference materials, sight-seeing tours and coffee breaks;
- Further information on the Festival will be posted later.

**Legal Matters:**

- The Festival participants acknowledge that they possess all the rights to use and distribute their works (including images and sound), and warrant they will not infringe copy rights and third-party rights;
- The Festival organizers warrant that copyright holders will be mentioned during presentations or included into closing credits;
- The Festival participants allow the Festival organizers to use separate shots or video clips (with sound) extracted from their works in the Internet, printed and other materials in order to promote the Festival and the corresponding works;
- The Festival organizers shall not be liable for destroying the materials or data storage devices received from the Festival participants.

**Contacts:**

**1. State Autonomous Cultural Institution of Yaroslavl Region "Cultural and Educational Center named after Valentina V. Tereshkova"**

Deputy Director for Academic and Advisory Affairs of the State Autonomous Cultural Institution of Yaroslavl Region "Cultural and Educational Center named after Valentina V. Tereshkova": **Ekaterina Nikolaevna Tikhomirova**. Tchaikovsky Street 3, Yaroslavl, 150000

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E-mail: [en\\_tihomirova@mail.ru](mailto:en_tihomirova@mail.ru)

Website: [www.yarplaneta.ru](http://www.yarplaneta.ru)

2. The Russian Planetariums Association: **Andrey Vladimirovich Lobanov**. Lenin Avenue 4, construction A, Moscow, 119049.

Phone: +7(916)3038764

Fax: +7(495)6410448

E-mail: [lobanov@planetariums.ru](mailto:lobanov@planetariums.ru)

Website: <http://www.planetariums.ru/>

3. The Festival official website:

<http://www.festival.planetariums.ru>

### Requirements to the Submitted Materials

All the Festival materials must meet the following requirements:

- Footages are presented as a sequence of fulldome (180° equal-space projection) master frames (DomeMaster), RGB, 24-bit color depth. The files of master frames are numbered starting from 0 or 1. Numbers are added to file names after the underscore symbol “\_”. File names should include only lowercase and capital letters of the Latin alphabet, and the underscore symbol as a separator, for example "My\_Work\_00000.png";
- The orientation of master frames should correspond with the dome orientation of classical planetariums: the frame center – the zenith, the frame bottom – the south – the front dome sector, the frame top – the north – the back dome sector, the left – the east – the left sector, the right – the west – the right sector;
- Resolution: 3K (3072x3072); 4K (4096x4096) is acceptable; 2K (2048x2048) for pre-rendered visualization used during live presentations;
- Image format: PNG (preferable) or JPG; TIF, TGA, BMP and other formats are not accepted;
- Frame rate: 30 FPS (60 FPS and 29.97 FPS are also acceptable);
- Sound: stereo or 5.1 channel (L / C / R / Ls / TRs / LFE) in the uncompressed WAV format, 16-bit, 48 kHz. The names of audio files should be identical to the file names of master frames accompanied by the index of a sound channel for 5.1 scheme ("My\_Work\_C.wav", "My\_Work\_L.wav", etc.). The audio track should start with the first frame for the best synchronization.

All the materials are sent on external hard drives or USB sticks (FireWire or USB 2.0/3.0, the NTFS file system).

The Festival participants warrant that their data storage devices do not contain any malware or viruses. If participants break this rule, they will be excluded.

Participants should write the following information on the data storage devices they send:

- Show title
- Participants’ name and the institution they represent
- Mobile phone
- E-Mail address

(USB sticks or external hard drives with data lists are inserted into transparent plastic sleeves with the button or zip).

The Festival participants should send the posters of their films so that the Festival organizers will be able to decorate the planetarium interior and make printed materials (the Festival catalogue). File requirements: .TIF, A3, 300 dpi resolution.

## Requirements to the Submitted Lectures

Use specifications given in the end of this information letter to fill your **application for participation** and compose **proceedings**, and send them to the above mentioned e-mail address of the Organizing Committee.

### Specifications to the formatting:

1. Texts must be written in Microsoft Word
2. Sheet size: A4, portrait layout
3. Texts should be no longer than 1 page
4. Margins: the top margin – 2 cm, the bottom margin – 2 cm, the left margin – 3 cm, the right margin – 1.5 cm
5. The left indent - 0, the right indent - 0, the first line indent– 1.25 cm
6. Spacing before a paragraph - 0, spacing after a paragraph - 0, line spacing – 16 pt
7. Times New Roman, font size 14
8. The full title of the abstract (proceedings) positioned in the page center (in capital letters)
  - The full name of the author (co-authors)
  - Abbreviation expansion
9. The name of the organization
10. The author's and co-authors' e-mail address(es)
11. The full text of the abstract (proceedings) stretched horizontally; links and footnotes at the author's (co-authors') discretion
12. The Conference languages: Russian and English
13. Black-and-white images with captions and MS Excel tables should be sent as separate files.