

PROGRAMME

SEPTEMBER 11-12

2026



## IX Global Conference on Near Space Industrialization



**Transfer**

**8:00**

from Avtozavodskaya Metro Station, Minsk

**Participant Registration**

**9:00 - 9:40**

Welcome Coffee

**EcoSpace Alley**

**9:40 - 10:00**

Traditional Tree Planting Ceremony

**Conference Opening Ceremony**

**10:00 - 11:00**

Opening remarks by **Denis Isaev**,  
the Conference Program Director, General Director  
of OJSC Infrastructure and Logistics Development  
Corporation, Director of Astroengineering  
Technologies LLC, and Advisor to the State  
Secretary of the Union State



Official Opening of the Conference by **Anatoli Unitsky**,  
Chairman of the Organizing Committee,  
Chairman of the Board of Directors, and General  
Designer of Astroengineering Technologies LLC,  
Unitsky String Technologies Inc., and OJSC  
Infrastructure and Logistics Development  
Corporation



Screening of a video about the **uSpace** program

Welcome Speeches by honored guests

## SESSION 1

11:00 - 13:15

**Geocosmic and Geotechnical Sciences,  
Technologies, Materials, and Resources**

### Plenary Presentation

11:00 - 11:45

#### **Ideal Transport – Terrestrial and Geocosmic – from the Perspective of the Laws of Physics**

Speaker and Author: **A. Unitsky**,  
Chairman of the Organizing Committee,  
Chairman of the Board of Directors,  
and General Designer of Astroengineering  
Technologies LLC, Unitsky String Technologies Inc.,  
and OJSC Infrastructure and Logistics Development  
Corporation, Belarus



### Presentation

11:45 - 12:00

#### **Mathematical Model of the General Planetary Vehicle**

Authors: A. Unitsky, V. Looksha  
Speaker: **V. Looksha**,  
Lead Electronics Engineer, Astroengineering  
Technologies LLC and Unitsky String  
Technologies Inc., Belarus



### Expert Session

12:00 - 12:30

#### **Materials and Innovations for Closed Ecosystems**

(Moderator: **Y. Shebzukhov**,  
Head of the Scientific Research Department  
at Unitsky String Technologies Inc.)



#### **Development of Bitumen-Polymer Composites for Filling Enclosed Cavities in Transport and Infrastructure Facilities**

Authors: M. Mozgaleva, S. Artyushevskiy,  
N. Voitehovskaya  
Speaker: **M. Mozgaleva**,  
Head of the New Materials Development Laboratory,  
Unitsky String Technologies Inc., Belarus



## **Methods for Drying Materials in Near-Space Conditions**

Authors: V. Garanin, A. Borovik, S. Protasov

Speaker: **A. Borovik**,

Candidate of Technical Sciences,  
Associate Professor, Belarusian State  
Economic University, Belarus



## **Containerized Equipment as an Element of the Near-Space Technosphere: From Earth Chemistry to the Orbital Industry**

Speaker and author: **A. Shcherbich**,

Chief Project Engineer, Modum-Techno LLC, Belarus



### **Presentation**

**12:30 - 12:45**

## **Adaptive Control of a Variable-Diameter Ring Rotor Under Hybrid Levitation Conditions**

Speaker and author: **E. Lopatko**,

Electrical Engineer, Astroengineering  
Technologies LLC, Belarus



### **Presentation**

**12:45 - 13:00**

## **Calculation of High-Speed Flight Modes for the General Planetary Vehicle**

Authors: A. Unitsky, V. Looksha

Speaker: **V. Looksha**,

Lead Electronics Engineer, Astroengineering  
Technologies LLC and Unitsky String  
Technologies Inc., Belarus



### **Presentation**

**13:00 - 13:15**

## **Comprehensive Technology for Non-Destructive Testing of the General Planetary Vehicle Components Produced Using Additive Manufacturing**

Authors: D. Chepik, A. Otoka

Speaker: **D. Chepik**,

Category II Design Engineer,  
Unitsky String Technologies Inc., Belarus



**Official Conference Photo Session**

**13:15 - 13:30**

**Lunch Break**

**13:30 - 14:30**

**Exhibition**

**14:30 - 16:00**

Showcase of Innovative Technologies

**“SAKAVIK”**

a new agricultural drone from the Belarusian company  
United Vehicle Robotics LLC (UVR)

**UNIMO and a Walking Scooter**

an inclusive transport for people with disabilities  
by Universal Mobility LLC

**Geocosmic and Geotechnical Developments,**

Astroengineering Technologies LLC

**Biological Developments for Eco-Communities,**

Unitsky String Technologies Inc.  
and Astroengineering Technologies LLC

**Innovative Organic Fertilizers for Healthy Soil,**

Products from the uTerra® range, Astroengineering Technologies LLC

**Workshop**

Creating Biohumus Seed Balls Using Products  
from the uTerra® Range, Unitsky String Technologies Inc.

**SESSION 2**

**16:00 - 18:00**

**Energy and Information Geocosmic Sciences,  
Technologies, Materials, and Resources**

**Expert Presentation**

**16:00 - 16:15**

**Thermodynamic Limits of the Earth's Biosphere  
Stability and Prospects for Overcoming  
the Planetary Thermal Barrier**

Speaker and author: **V. Klyushnikov**,  
Academician of the K.E. Tsiolkovsky Russian Academy  
of Cosmonautics, Doctor of Technical Sciences,  
chief researcher, JSC Central Research Institute  
for Machine Building, Russia



## Presentation-Interview

16:15 - 16:50

(Interviewer – **E. Petrov**,  
First Deputy General Director  
of OJSC Infrastructure and Logistics  
Development Corporation)

### The Use of uST String Technologies in the EcoSpace Program and the Equatorial Linear City

Speaker and author: **A. Unitsky**,  
Chairman of the Organizing Committee,  
Chairman of the Board of Directors,  
and General Designer of Astroengineering  
Technologies LLC, Unitsky String Technologies Inc.,  
and OJSC Infrastructure and Logistics Development  
Corporation, Belarus



## Expert Session

16:50 - 17:15

### Energy Supply and Transport and Infrastructure Networks

(Moderator: **S. Artyushevskiy**,  
Deputy General Designer for Science  
at the Center for Scientific and Innovative  
Activities at Unitsky String Technologies Inc.)

### Prospects for Power Supply to Infrastructure and Logistics Corridors Based on Unitsky String Technologies

Authors: A. Unitsky, R. Levkovskiy, V. Vasilevich  
Speaker: **R. Levkovskiy**, Head of the Bureau,  
Advanced Development Department, Unitsky  
String Technologies Inc., Belarus



### Design Optimization of the Conical Axial Current Collector for a High-Speed uPod

Authors: A. Unitsky, A. Litvinchuk,  
S. Chichikov, S. Arnaut  
Speaker: **S. Chichikov**,  
Category I Design Engineer,  
Unitsky String Technologies Inc., Belarus



## Presentation

17:15 - 17:30

### Integration of Navigation Measurements for Assessing the Status of a Spacecraft

Speaker and author: **M. Artemova**,  
student, Moscow Aviation Institute  
(National Research University), Russia



## Presentation

17:30 - 17:45

### Automated Acceptance Testing of Satellite Communications Equipment for Low-Earth-Orbit Systems

Speaker and author: **T. Krasik**,  
Independent Researcher,  
Senior Member of the Institute  
of Electrical and Electronics  
Engineers (IEEE), Orlando, USA



## Presentation

17:45 - 18:00

### Digital Twins of Aircraft as a Tool for Risk Mitigation in the Development of Unmanned Near-Earth Systems

Authors: V. Mikhailov, A. Snitkov,  
A. Minchenya, N. Dozhin  
Speaker: **V. Mikhailov**,  
Candidate of Technical Sciences,  
Independent Researcher, Belarus



## Free Time

18:00 - 19:00

Barbecue Dinner

## Transfer

19:15

Transfer

## Transfer

9:00

from Avtozavodskaya Metro Station, Minsk

## Welcome Coffee

10:00 - 10:30

## Official Opening of the Second Day of the Conference

10:30 - 10:40

Opening remarks by **Denis Isaev**,  
the Conference Program Director, General Director  
of OJSC Infrastructure and Logistics Development  
Corporation, Director of Astroengineering  
Technologies LLC, and Advisor to the State  
Secretary of the Union State



## SESSION 3

10:40 - 12:40

**Environmental and Biological Aspects  
of Closed Biosphere-Type Ecosystems  
on Earth and in Space**

## Presentation

10:40 - 11:00

**Development of Environmental Monitoring Based  
on Open-Access Satellite Data and Technology  
for Targeted Restoration of Degraded Lands**

Authors: M.C. Alvarado Durán, K. Yablonskaya

Speaker: **M.C. Alvarado Durán**,

Engineer specializing in “Space Launch Systems  
and Astronautics”, Samara National Research

University named after Academician

S.P. Korolev,

Russia – Costa Rica



## Expert Session

11:00 - 11:35

### **Fertility Management in Closed Systems**

(Moderator: **A. Unitsky**,

Chairman of the Organizing Committee,  
Chairman of the Board of Directors,  
and General Designer of Astroengineering  
Technologies LLC, Unitsky String Technologies Inc.,  
and OJSC Infrastructure and Logistics  
Development Corporation



### **Optimization of Plant Nutrition with Water-Soluble Substances from Lignite and uTerra Biofertilizer in Closed Agroecosystems**

Authors: A. Unitsky, N. Pershay,

A. Litvinchuk, S. Arnaut

Speaker: **N. Pershay**,

Candidate of Technical Sciences,  
Lead Research Engineer,  
Unitsky String Technologies Inc., Belarus



### **Analysis of the Characteristics of Carbonate Sandy Soils in the UAE and Their Reclamation Using Humusponics Technologies**

Authors: A. Unitsky, V. Korney,

T. Sokolova, O. Shigaleva

Speaker: **O. Shigaleva**,

Chemist, Astroengineering Technologies LLC, Belarus



### **Biohumus Seed Platforms: Production and Application Technologies**

Authors: A. Unitsky, A. Sokhor,

E. Pilkevich, S. Makalovich

Speaker: **A. Sokhor**,

Research Engineer,  
Unitsky String Technologies Inc., Belarus



## Expert Session

11:35 - 12:00

### **Food Security in Earth-Based and Space Settlements**

(Moderator: **A. Rybnikov**,

Deputy Director for Biotechnologies  
Development at Astroengineering  
Technologies LLC)



## Plants for Eco-Settlements in the EcoSpace Program and the Problem of Hidden Hunger

Authors: A. Unitsky, N. Zyl, M. Parfenchik

Speaker: **N. Zyl**,

Deputy Head of the Biotechnologies Department,  
Astroengineering Technologies LLC, Belarus



## Multipurpose Use of Amaranth (*Amaránthus L.*) in the EcoCosmoHouse

Authors: A. Unitsky, T. Tretyakova, N. Zyl

Speaker: **T. Tretyakova**,

Head of the Analytical Chemistry Division,  
Astroengineering Technologies LLC, Belarus



## Presentation

12:00 - 12:15

### Search for Natural Biodegraders of Polystyrene for Ecological Solutions in the EcoCosmoHouse

Authors: M. Rakova, N. Zheshko

Speaker: **M. Rakova**,

Microbiologist, Astroengineering  
Technologies LLC, Belarus



## Expert Session

12:15 - 12:40

### Innovative Approaches to Crop Cultivation in Closed Ecosystems

(Moderator: **I. Naletov**,

Head of the Biotechnologies Department,  
Astroengineering Technologies LLC)



### The Use of Phytohormones in the Seed Coating Process for Closed Ecosystems

Authors: A. Koleda, E. Veremko, E. Shereshovets

Speaker: **A. Koleda**,

Process Engineer, Analytical Chemistry  
Department, Astroengineering  
Technologies LLC, Belarus



## Analysis of Tomato Variety Samples to Identify Promising Varieties for Cultivation in Closed Ecosystems

Authors: V. Zayats, I. Naletov, K. Boiko

Speaker: **K. Boiko**,

Head of the Project and Production

Management Division, Astroengineering

Technologies LLC, Belarus



## SESSION 4

12:40 - 13:30

### Social, Legal, Political, and Financial Aspects of the Development of Human Civilization on Earth and in Space

#### Presentation

12:40 - 13:00

#### Issues Related to the Safety of the General Planetary Vehicle

Speaker and author: **O. Zaretskiy**,

CEO, uDiscovery FZC,

United Arab Emirates



#### Presentation

13:00 - 13:15

#### The Morphology of Society in the Era of Global Space Expansion

Speaker and author: **E. Petrov**,

First Deputy General Director,

OJSC Infrastructure and Logistics

Development Corporation, Belarus



#### Presentation

13:15 - 13:30

#### Robotics as a Fundamental Component of the Systematic Exploration of Near-Earth Space Involving EAEU Countries

Authors: A. Sheko, V. Garanin

Speaker: **V. Garanin**,

Scientific Secretary,

Unitky String Technologies Inc., Belarus



#### Lunch Break

13:30 - 14:30

## SESSION 4 (continued)

14:30 - 16:45

### Social, Legal, Political, and Financial Aspects of the Development of Human Civilization on Earth and in Space

#### Presentation

14:30 - 14:45

#### Project for a School for the Future of Biosphere Civilization

Speaker and author: **A. Poteryaiko**,  
Economist, Senior Lecturer at the School  
of Public Administration, Lomonosov Moscow  
State University, Russia



#### Presentation

14:45 - 15:00

#### The Transformation of Space Law in the Context of Near Space Industrialization

Speaker and author: **A. Kazakevich**,  
Head of the Legal Department,  
UnitSky String Technologies Inc., Belarus



#### Presentation

15:00 - 15:15

#### Government Responsibility and Regulation of Space Resource Use in the Age of Commercialization

Authors: M. Erol, M. Badran  
Speaker: **M .Erol**,  
Attorney, Ankara Bar Association, Turkey



#### Presentation

15:15 - 15:30

#### Food as a System: An Approach to Incorporating Organoleptic Requirements into the Design of Autonomous Ecosystems for Near Space

Authors: E. Zelenkova, V. Vasilevich  
Speaker: **E. Zelenkova**,  
Candidate of Technical Sciences,  
Project Manager, Advanced Development  
Department, UnitSky String Technologies Inc., Belarus



## Presentation

15:30 - 15:45

### Homesickness Countermeasures in Crew Resource Management for Cosmic Missions

Speaker and author: **M. Badran**,  
Student, Civil Aviation School,  
Suleyman Demirel University,  
Turkey



## Strategic Session

15:45 - 16:45

### Infrastructure and Logistics Corridors as the Foundation of a New Global Settlement Model

(Moderator: **Denis Isaev**,  
Conference Program Director,  
General Director of OJSC Infrastructure  
and Logistics Development Corporation,  
Director of Astroengineering Technologies LLC,  
and Advisor to the State Secretary  
of the Union State



Invited Experts

#### **A. Unitsky,**

Chairman of the Organizing Committee,  
Chairman of the Board of Directors,  
and General Designer of Astroengineering  
Technologies LLC, Unitsky String Technologies Inc.,  
and OJSC Infrastructure and Logistics  
Development Corporation



#### **I. Belousov,**

President of OJSC Infrastructure  
and Logistics Development Corporation,  
Assistant to the State Secretary  
of the Union State, Russia



**M. Kubyshkin,**

Deputy General Director for Design,  
Unitsky String Technologies Inc.,  
Belarus



Speakers

**V. Saevich,**

Economist, Lecturer, Belarusian State Economic  
University, Belarus (*V. Saevich,*  
*“The Concept of a Linear City: Environmental*  
*and Economic Benefits and Aboveground*  
*Transport Infrastructure”*)



**I. Peterson,**

Deputy General Director for Testing,  
Head of the Test Center, Unitsky String  
Technologies Inc., Belarus: (*A. Unitsky, I. Peterson*  
*“uST as a Horizontal Elevator in Linear Urban*  
*Planning: Introduction of Terminology*  
*and the Regulatory Framework”*)



**A. Griboedova,**

Chief Specialist, Electrical Engineering Division,  
Unitsky String Technologies Inc., Belarus:  
(*A. Unitsky, A. Griboedova, M. Davydik,*  
*A. Garbachenok*“*The uST String Transport System*  
*as a Connecting Element of the Infrastructure*  
*of a Linear uCity”*)



**Ceremonial Signing of the Agreement**

**16:45 - 17:00**

**Conference Closing Ceremony**

**17:00 - 17:30**

Summary of Results

Announcement of the Conference Resolution

Closing Remarks by **Anatoli Unitsky,**

Chairman of the Organizing Committee of the Global Conference  
on Near Space Industrialization

**Autograph Session****17:30 - 17:45**

with Anatoli Unitsky, the World Engineer

**Final Photo Session****17:45 - 18:00****Networking****18:00 - 19:00**

Tasting by Unitsky Farm Enterprise

**Final Gala Dinner****19:00 - 21:00****Festive Fireworks Show****21:00****Transfer****21:30**

to Minsk

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