

27th International Specialized Forum "Glass and Modern Technologies-XXI"



*Scientific and Practical Conference
December 09–10, 2026*

*Venue: G.F. Chekhlov Gusevskoy Glass College,
Vladimir Region, Gus-Khrustalny, Pisareva St., 17*

Forum Topic: “Human resource sovereignty through new educational formats and technological independence: a development strategy for the glass industry in Russia and the CIS amidst global challenges”

Organizers:

- Association "StekloSouz" of Russia
- Government of the Vladimir Region
- Gusevskoy Glass College named after G.F. Chekhlov
- LLC Scientific and Production Center "Glass-Gas"

Forum Sponsor:

- ❖ Expo Glass LLC (SIMVOL Glassworks)



Media Partner of the Forum:

- ❖ «Glass Russia» magazine



CHAIRMAN:

Viktor Ivanovich Osipov, Candidate of Economic Sciences, President of the Association "StekloSouz" of Russia

CO-CHAIRS:

- **Alexander Alexandrovich Avdeyev**, Governor of Vladimir Oblast
- **Alexey Nikolayevich Sokolov**, Head of the Municipality of the City of Gus-Khrustalny, Vladimir Region
- **Yury Alekseyevich Filchakov**, Director of the G.F. Chekhlov Gusev Glass College
- **Alexander Yuryevich Smirnov**, General Director of Expo Glass LLC (SIMVOL Glassworks)
- **Lyudmila Fyodorovna Korshunova**, Head of the NTC SSR, Executive Director of NPC Steklo-Gaz LLC

DECEMBER 09

08:00 –10:00 – CONFERENCE PARTICIPANT REGISTRATION

10:00 – OPENING CEREMONY OF THE CONFERENCE

- Welcoming remarks from: **Alexander Alexandrovich Avdeyev**, Governor of the Vladimir Region; **Alexey Nikolayevich Sokolov**, Head of the Municipality of Gus-Khrustalny, Vladimir Region; **Viktor Ivanovich Osipov**, President of the Association “StekloSouz” of Russia; **Alexander Yuryevich Smirnov**, General Director of Expo Glass LLC (SIMVOL Glassworks);

Yury Alexeyevich Filchakov, Director of the G.F. Chekhlov Gusevskoy Glass College; and from **Lyudmila Fyodorovna Korshunova**, Head of the Scientific and Technical Center and Executive Director of "Steklo-Gaz" Research and Production Center LLC.

10:00-13:00 – MORNING PLENARY SESSION

Key sections:

- ✓ Strategic development goals: glass melting, industrial processing.
- ✓ Education. Development of study programs with the involvement of enterprises. Professional development: supplementary vocational education, secondary vocational education.
- ✓ Research work. Improving the efficiency of glass melting: machinery, equipment, raw materials, cullet, refractories, furnaces, and materials.
- ✓ Modern machinery and equipment for glass product manufacturing and industrial processing.
- ✓ Technical re-equipment and production upgrades. Automation. Quality control.
- ✓ Modern energy-efficient technologies.
- ✓ Industrial digitalization, automation, and robotization are effective tools for managing a modern enterprise. Seeking out up-to-date solutions.
- ✓ High-quality and affordable raw materials are the foundation for high production profitability. Quality of furnace charge mixtures.
- ✓ Prospects for the industrial production of raw materials based on cullet (waste glass). Factors hindering the growth of cullet consumption. Recycling. Energy conservation. Future outlook.
- ✓ Manufacturing of mold sets: special materials and innovations.
- ✓ A New Industrial Science and Technology Policy: Strategy and Development Trends in the Domestic Glass Industry.
- ✓ Development of Nanotechnologies. Nanomaterials.
- ✓ Design and thermal installation technologies for extending the service life of glass-melting furnaces. Technical capabilities.
- ✓ Designing glass manufacturing plants: from scientific concept to project implementation.
- ✓ Ecology. Extended Producer Responsibility (EPR). Separate collection of recyclable materials. Expected outcome.
- ✓ Development of industrial production of secondary raw materials.
- ✓ Protection of intellectual property. Combating counterfeiting.
- ✓ Standards. Regulatory framework for quality control. Technical regulation.
- ✓ Technical regulation of the use of refractories and materials in glass melting.
- ✓ Import substitution. Exports. State support.

13:00-14:00 – Lunch break

14:00-17:00 – EVENING PLENARY SESSION

SECTION 1. "Glassmaking: production, technologies, machinery, refractories, construction and installation work, equipment, standards"

Key sections:

- Science. Education. Production.
- Glass container manufacturing.
- Lightweight glass packaging. Requirements.
- Medical, chemical-laboratory, and heat-resistant glass.
- Crystal. Tableware. Perfumery glassware.
- Decoration and exclusive production. Materials.
- Equipment for the production of glass containers: process equipment; thermal engineering equipment; mechanical equipment; inspection equipment; equipment for glass product processing; general engineering (auxiliary) equipment; spare parts for glass-forming and auxiliary equipment.
- Production of mold sets: specialized materials; innovations in the manufacturing of mold tooling and spare parts; materials and equipment for the repair of mold set components.
- Combating counterfeiting. Mandatory labeling.
- Standards. Regulatory Framework.

- Interaction with Interstate Technical Committee 074 "Glass Containers and Tableware"; TC 52; TC 63; TC 122.
- The impact of glass packaging on the quality of food and beverages.
- Problematic issues in the existing personnel training system.

SECTION 2. "Industrial processing of flat glass: technologies, equipment, components, and materials"

Key sections:

- Science. Education. Production.
- The modern market for window systems. Requirements and prospects.
- Organizing industry-wide collaboration between flat glass manufacturers and industrial glass processing enterprises.
- The Use of Fire-Resistant Glass in Construction.
- Use of safety glazing in buildings and structures.
- Prospects for expanding the use of high-tech flat glass types in industrial processing—including ultra-clear glass, high-strength heat-resistant glass (high-alumina and borosilicate glass), and glass with "hard" coatings.
- Market outlook for flat glass, taking into account the commissioning of new production capacity and a decline in consumption volumes due to a slowdown in construction activity.
- The use of innovative types of glass: smart glass, electrochromic glass with adjustable light transmission, electrically heated glass, glass with ceramic printing, etc.
- Market prospects for energy-efficient glass. Amendment No. 1 to the Code of Practice SP 50.13330.2012 "Thermal Protection of Buildings," regarding the tightening of energy efficiency requirements for building envelopes, including translucent structures".
- Development of cellular glass consumption.
- New possibilities for glass as a construction material, and the expansion of the areas and scale of its application in construction.
- Organizing comprehensive, systematic collaboration between manufacturers of glass-based materials, products, and structures and architects, designers, and builders.
- Improving the regulatory and legal framework to promote the consumption of glass products. The impact of recently developed and updated codes of practice and GOST standards on the industry.
- Interaction with technical standardization committees: TC 041 "Glass"; SC 2 "Hollow Glass"; TC 144 "Construction Materials (Products) and Structures"; and TC 465 "Construction".
- Equipment, technologies, components, and materials for the industrial processing of flat glass.
- Modern glass installation technologies and equipment. Efficient and safe application in construction.

SECTION 3. "Ecology. EPR"

Key sections:

- Legislation and regulatory framework for Extended Producer Responsibility (EPR) in Russia (current status; methodology for calculating the environmental fee; liability for failure to meet recycling/recovery targets; upcoming legislative changes; and the stance of regulatory authorities—the Ministry of Natural Resources and Environment of Russia and the Russian Environmental Operator (REO)—regarding the development of the EPR system in the coming years).
- Circular economy for the glass industry (benefits of using cullet; economic model: comparative analysis of production costs using virgin raw materials versus cullet; profitability calculations based on varying proportions of recycled material).
- Organization of a glass waste collection system.
- Innovative glass sorting and recycling technologies (automated sorting; cullet cleaning technologies; process robotization).

- Life cycle-based packaging design (design principles for glass containers; development of lightweight glass packaging).
- Industry standards, certification, and marketing (standardization; digital platforms for tracking waste flows and verifying compliance with Extended Producer Responsibility (EPR) requirements; product labeling such as "made from recycled glass").

SECTION 4. "Artistic Glass"

Key sections:

- What is "art glass" and what are the production technologies involved? Cold, warm, and hot glass processing methods.
- Stained glass and mosaic.
- Artificial Intelligence in the Art Industry: How Can It Be Used for Good in Today's Realities?
- From craftsmanship to digital manufacturing: where does the line lie? In which tasks is the manual labor of a glassblower indispensable, and in which do a 3D glass printer or a CNC machine yield a fundamentally new result?
- The evolution of the fusing technique: glass sintering as an independent method for creating reliefs and pictures. The use of powders, foils, and stringers to achieve painterly effects.
- Casting Large-Scale Objects: Technical Challenges in Creating Monumental Sculptures. Issues Related to Annealing, Relieving Internal Stresses, and Preventing Cracks in Massive Forms.
- Education of the future: what should a specialized professional be like? Does a glass artist need a deep, engineering-level understanding of the processes involved, or is it enough to be a visionary working in tandem with a technologist?
- The ecological dimension in art: the ethics of material use. Can an artwork addressing an environmental theme be created using virgin—rather than recycled—materials? Transparency regarding the origin of materials.
- How can one set trends in contemporary glass? Glass has evolved from a simple, everyday object into an independent and expressive language within the visual and plastic arts—one that will undoubtedly leave its mark on history.

SECTION 5. "Foam Glass: Production and Application"

Key sections:

- Building Thermal Engineering and the Life Cycle of Cellular Glass.
- Regulatory framework for cellular glass: from terms and definitions to the Code of Practice.
- Foam glass blocks, crushed foam glass, and foam glass granules: specifics of production and application.
- Economics of the cellular glass sub-sector: business models for typical production facilities.
- Raw material base for foam glass: cullet from municipal solid waste (MSW) and its alternatives.
- Cellular glass in fire protection: a key solution to a systemic problem.

17:00-17:40 EXPERT DISCUSSION AMONG PARTICIPANTS. BUSINESS NEGOTIATIONS. DECISION-MAKING

17:40 – 18:00 FORMAL CEREMONY: presentation of certificates to new Association members; recognition of students, plant managers, and specialists for their achievements over the past year; and awarding of diplomas to the winners of the industry competition.

18:15 FRIENDLY DINNER in honor of GLASS INDUSTRY WORKERS' DAY
(Admission by invitation only)

DECEMBER 10

**10:00-11:30 – MEETING WITH GRADUATING STUDENTS
at the round table: "Education. Production"**

11:30-13:00 – VISITING GLASS FACTORIES

13:00-14:00 – Lunch break

14:00-15:00 – EXCURSION TO THE MUSEUM OF GLASS in the town of Gus-Khrustalny

15:00-16:00 – DISCUSSION. SUMMING UP. APPROVAL OF DECISIONS

16:00 – CLOSING OF THE FORUM

*** ATTENTION!**

➤ Tours by prior appointment.

Applications in free-form format may be sent to the email addresses of the Association "StekloSouz" of Russia: viosipov@yandex.ru and admin@steklosouz.ru. The deadline for submissions is November 23, 2026.



Smoking on the premises of the G.F. Chekhlov Gusev Glass College is strictly prohibited.