



ШОҚАН
УӘЛИХАНОВ
атындағы мектеп

The International Scientific
Forum of young scientists

«Shoqan Ecology»

Section 1: Environmental pollution and solutions

Section 2: Waste Management (Reduce-Recycle-Reuse)

Section 3: Alternative energy sources

Section 4: Business and technology

Grades: 8 to 12

Date:

6-7

APRIL, 2024

The languages of the Forum are
Kazakh, Russian, English.

To take part in the Forum,
fill in the form by QR



Venue: The Republic of Kazakhstan, Almaty, 050059,
Samal-3 microdistrict, 37/1,
"Private School named after Shoqan Ualikhanov" LLP

For foreign participants from neighboring countries (CIS) and beyond, payment of the registration fee is provided in cash before the start of the Forum, provided there is a letter of guarantee from the educational institution on an official letterhead signed and stamped by the director.

THE TOTAL PRIZE FUND IS 10 MILLION TENGE!!!

For more info:

Contact:



[/shoqanecology](https://t.me/shoqanecology) or shoqanecology@shoqanschool.kz



REGULATIONS

on holding the International Scientific Forum of Young Scientists “Shoqan Ecology” on the basis of the Private School named after Shoqan Ualikhanov, among schoolchildren in grades 8-12

Almaty 2023

GOALS:

- ✓ Stimulating research activities of students in grades 8-12;
- ✓ Development of research skills in students in grades 8-12;
- ✓ Stimulation of intellectual and creative potential;
- ✓ Increasing student interest in science;
- ✓ Formation of the ability to independently search and identify talented children among students in grades 8-12;
- ✓ Increasing children's interest in scientific research and discoveries.

Date of the Forum: April 6-7, 2024

Venue: Kazakhstan, Almaty, 050059, Medeu district, Samal-3 microdistrict, building 37/1, "Private School named after Shoqan Ualikhanov" LLP.

The main requirement for Forum participants: only schoolchildren in grades 8-12 (secondary and specialized educational institutions) of the Republic of Kazakhstan, as well as neighboring countries (CIS) and beyond can take part in this Forum.

Languages of the Forum:

- Kazakh;
- Russian;
- English.

The forum will consist of 2 stages:

- Stage 1 – online selection of scientific works that meet the requirements of the competition. Up to 25 scientific papers will be selected in each section.
- Stage 2 – offline presentation of selected works of participants.

The jury members will be recognized Kazakh and world scientists in the fields of chemistry, biology, physics and ecology.

ORGANIZATION AND CONDUCT OF COMPETITIONS:

Students' work will be assessed by competent and independent jury members on the basis of impartial judging and academic integrity.

The work of the jury in evaluating the works and performances of the contestants will be aimed at professionally evaluating the works, without allowing a rude, tactless attitude towards the Forum participants or biased towards one of them.

Within the framework of this Forum, reports of a theoretical, experimental and applied nature in the natural sciences (chemistry, biology, physics, ecology) will be heard in the following sections:

- **Section 1: Environmental pollution and solutions:** Assessment of the status, search for solutions to pollution of environmental objects (soil, water and air) with persistent toxic compounds, radioactive materials or agents that have an adverse effect on the environment and cause illness among the population .
- **Section 2: Waste Management (Reduce-Recycle-Reuse):** Waste prevention or “source reduction.” Search for durable materials that are as free from toxic substances as possible; redesigning products to use fewer raw materials in production, increase service life, or reuse beyond the product’s original use.
- **Section 3: Alternative Energy Sources:** Finding practical solutions to the world’s energy problems and finding technologies that can be used to support global sustainability. The transition from fossil fuels (coal, oil and gas), which currently account for the largest share of emissions, to renewable energy sources (sunlight, wind, water and biomass) is key to tackling the climate crisis.
- **Section 4: Business and technology:** Start-ups and business projects aimed at solving existing problems with environmental pollution and/or reducing the negative impact on it, as well as the development of new technologies.

!!! The organizing committee reserves the right to reject works that do not meet the requirements.

REQUIREMENTS FOR SUBMITTING MATERIALS TO THE FORUM

The following requirements apply to the design of work: The volume of scientific work, including a list of references, tables and figures with captions, diagrams and applications, up to 20 pages of printed text. The file name must have the title of the work (for example, Development of technology for the production of biodegradable polymers.doc). **The work should not include the full name of the author/s or school details. The same person cannot be the author of more than one report. No more than 2 students can participate in team work.** The pages of a scientific paper must be numbered. The text must be typed in Word of any version. Text font - Times New Roman, paper format A4 (210*297 mm), point size - 14 pt. Line spacing is 1.5 cm. Width alignment. Paragraph indent – 1.5 cm. Top margins - 2, bottom - 2, left - 3, right - 2. In tables, figures, formulas should be no discrepancies in the designation of symbols and signs. Drawings must be clear and clean. Figures and tables must have links in the text. Formulas must be typed in the appropriate editor (for mathematical and chemical formulas). Tables must be titled; empty columns are not allowed. Conventional abbreviations and symbols should be explained in a note. The project text should include the following sections:

- **Title page**
- **Content**
- **Abstract**
- **Introduction**
- **Literature review**
- **Research part**
- **Conclusion**
- **List of sources**

The title page should include the title of the scientific work, which should define the essence of the material, followed by information about the authors (place of study, city, class of study). **The full name of the author(s) and the supervisor should not be indicated on the title page.**

The content should reflect the structure of the scientific work. It should include not only headings, but also subheadings.

The abstract is given at the beginning of the text in the language in which the project was prepared (up to 250 words). An abstract is a summary of the content of a scientific work, giving a general idea of its topic and structure.

The introduction and literature review (at least 2 pages of printed text) of the project should provide the relevance and justification of the chosen research topic, the goals and objectives of the project, methods for solving the problems, a review of known results on the chosen topic and disadvantages indicating the need for your research.

The research part of the work may consist of separate chapters and should contain results and their discussions, illustrative material in the form of drawings, graphs, diagrams and tables. The work should be independently conducted study by the student, revealing his knowledge and the ability to apply it to solve specific practical problems. The work must be logically complete and demonstrate the student's ability to competently use special terminology, clearly express his thoughts, and justify proposals.

The conclusion (no more than 1 page) should contain the main results and conclusions based on them, as well as recommendations for using the project results.

The list of sources is drawn up in accordance with GOST 7.1–2003 “Bibliographic record. Bibliographic description. General requirements and rules of drafting” or APA.

Presentation:

1. The presentation should follow a similar structure to a scientific report;
2. The presentation must include a title slide with the name of the speaker, school, and topic of the presentation;
3. The speech time limit should not exceed 8 minutes;
4. At least 5 slides, no more than 20;
5. Slides should include less text, more illustrations;
6. Use colors, visuals, design;

Poster

- Your name, school, research topic;
- Recommended poster size is A1 (you will need to print the poster and bring it to the Forum);
- Try to fit the shortened content of the project into a poster with the necessary text/graphics/visuals;
- Important information must be visible at a distance of 5 meters;
- Simplify names to make them short and interesting;
- Poster text should not exceed 800 words;
- Use numbering and text highlighting to make the poster easier to read;
- Use colors, pictures, charts, graphs and visuals.
- Think about what you will talk about if you are asked to explain your poster/research. You will not need to present your poster.

If you do not know what to put on a poster, answer the following questions for yourself:

1. What is the most important/exciting thing about your research project?
2. How can I make research visually simple and interesting? Should I use graphs, tables, photographs, pictures?
3. What comments should I add to the poster to make it more understandable and interesting for listeners?

Some examples of posters are provided at the following link:

<https://www.animateyour.science/post/best-examples-of-scientific-posters>

Schematic example of the design of a scientific work:

LLP “PRIVATE SCHOOL NAMED AFTER SHOQAN UALIKHANOV”



THE NAMES OF THE AUTHOR(S) AND THE SUPERVISOR SHOULD NOT BE INDICATED on the title page.

**Topic: Development of technology for the production of biodegradable polymers
Section: Environmental pollution and solutions**

Almaty, 2024

The Forum Organizing Committee reserves the right to reject works submitted outside the main areas of the Forum that do not meet the above requirements.

The text must be edited stylistically and technically. **The same person cannot be the author of more than one report. No more than 2 students can participate in team work.**

THE TERMS OF PARTICIPATION:

To take part in the Forum, you must fill out the Google form before January 31, 2024 and attach your scientific work using the following link:

<https://forms.gle/edntZ9QaFVaNQjZr5>

Before submitting work, a registration fee must be paid in the amount of 50,000 (fifty thousand) tenge.

The registration fee will cover meals (lunch and coffee break on the first day), assessment and review of submitted works, a mountain hike, and a cultural tour.

Instructions for paying the registration fee are presented in the video at the following link: https://youtu.be/gIoKjtVh5_w

For foreign participants from neighboring countries (CIS) and beyond, payment of the registration fee is provided in cash before the start of the Forum, provided there is a letter of guarantee from the educational institution on an official letterhead signed and stamped by the director.

IN THE PURPOSE OF PAYMENT, be sure to write as follows: “Payment of the registration fee for participation in the Forum Last Name First Name Patronymic, School No. ___”

DETAILS* “Private School named after Shoqan Ualikhanov” LLP in “Bank Center Credit” JSC:

BIN 180940031443

Kbe 17

KNP 861

IIK KZ588562203106993908

BIC KCJBKZKX

PURPOSE OF PAYMENT SPECIFY: Payment of the registration fee for participation in the Forum for _____

(indicate full name and IIN of the Forum participant)

!!! Please pay attention to the following:

- The amount paid as an organization fee is not returned for works that do not qualify for the second round.
- The appeal of scientific works after selection for the second round of the Forum will not be considered.
- Feedback with Forum participants will be maintained via the telegram channel and by email shoqanecology@shoqanschool.kz specified in the application.
- **A letter of invitation and the Forum program will be sent to works that meet the above requirements.**
- **Travel expenses (transfer and accommodation) - at the expense of the sending party.**

PLACES FOR PARTICIPATION IN THE FORUM ARE LIMITED!!!

ATTENTION: Applications received by the organizing committee after January 31, 2024 WILL NOT BE CONSIDERED.

SELECTED WORKS WILL RECEIVE A LETTER OF INVITATION VIA TELEGRAM CHANNEL USING THE LINK <https://t.me/shoqanecology> AND AN EMAIL WHICH WERE PREVIOUSLY INDICATED IN THE APPLICATION FOR PARTICIPATION. BE SURE TO SUBSCRIBE TO OUR CHANNEL, WHERE ALL DETAILED INFORMATION ON THE FORUM WILL BE GIVEN.

WINNER'S REWARD CEREMONY

The winners of each section of the scientific Forum will be awarded diplomas of Grand Prix, I, II and III degrees with cash prizes and diplomas of various degrees, and all Forum participants will receive certificates of participation.

The number of diplomas of I, II and III degrees will be 45% of all Forum participants.

Instructions for paying the registration fee for participation in the Republican Scientific Forum of Young Scientists “Shoqan Ecology”:

Dear parents, payment can be made through:

- I) Application BCC.KZ (Internet banking of Bank Center Credit JSC). No commission is charged.
- “Payments” – “Education” – “Schools” – “Private school named after Shoqan Ualikhanov” – “Other services”.
 - Next, you need to enter the “Participant’s IIN” (the child’s full name appears) – fill in “Child’s Class” – “Payment Period” – “Amount” – “Pay”.
- II) **Payment through the terminals of Bank CenterCredit JSC** in the section “Payments” – “Education” – “Private School named after Shoqan Ualikhanov” LLP – “Other services”. **The commission will be 70 tenge.**
- III) **Non-cash transfer to the current account of “Private School named after Shoqan Ualikhanov” LLP in “Bank CenterCredit” JSC** using the bank details below*. The commission is charged according to the current tariffs of the sender's bank.
- IV) **Payment in cash through the bank’s cash desk at any branch of Bank Center Credit JSC** using the bank details below*.
The Bank’s commission will be 0.3% of the payment amount (deposit to the cash desk) minimum 250 tenge.

DETAILS* LLP “Private School named after Shoqan Ualikhanov”:

BIN 180940031443

Kbe 17

KNP 861

IIK KZ588562203106993908

BIC KCJBKZKX

PURPOSE OF PAYMENT SPECIFY: Payment of the registration fee for participation in the Forum for _____

(indicate full name and IIN of the Forum participant)

Please send a copy of the payment receipt to the organizing committee’s email address shoqanecology@shoqanschool.kz