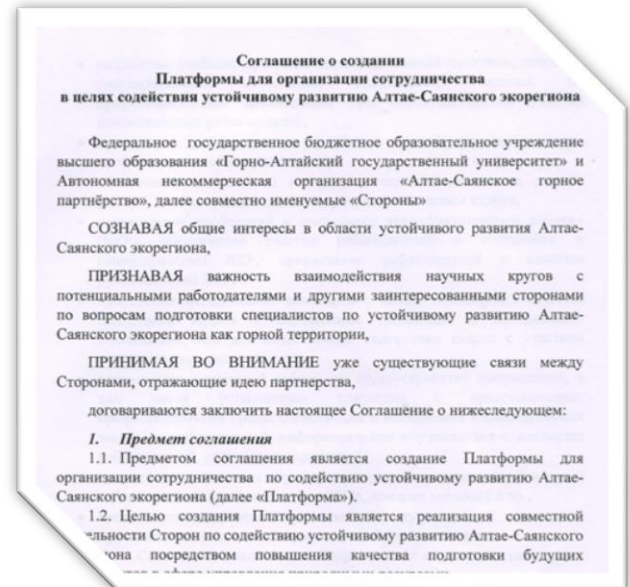


## REPORT on the activities of the Stakeholder- Academia Collaborative Platform for Sustainable Development of the Altai-Sayan Ecoregion

### Outline

01. General information
02. In-class educational activities
03. Out-of-class educational and research activities
04. Scientific events
05. Work of the Platform under the COVID-19 restrictions



**01.** The establishment of the **Stakeholder-Academia Collaborative Platform for Sustainable Development of the Altai-Sayan Ecoregion** was initiated by Gorno-Altaisk State University and the NGO “Altai-Sayan Mountain Partnership.” Though the [official document](#) was signed in January 2019 and introduced to the stakeholders in [February 2019](#), the idea of the Platform was first presented on the [1<sup>st</sup> Regional Stakeholder Workshop](#) on February 21, 2018 and was enthusiastically supported by all participants. So, we consider that very date as unofficial starting point of joint work under the Platform.

This Collaborative Platform welcomes universities, research institutions, NGOs and other stakeholders, which stand ready to contribute to the sustainable development of the Altai-Sayan Ecoregion and mountain territories in general. Some stakeholders have already joined the Platform (see <http://sunraise.sfu-kras.ru/results/stakeholder>), while others being governmental bodies cannot do it officially, though strongly support its activities (Administration of Ust-Koksa District, Center for the Development of Tourism and Entrepreneurship of the Altai Republic, Directorate for Protected Areas of the Altai Republic and others).

All joint activities held under the Platform can be conditionally divided into 3 categories: in-class educational activities, out-of-class educational and research activities, and scientific events.

### **02. In-class educational activities** have three vectors:

- activities provided by stakeholders to university students and faculty;
- activities provided by universities to employees of stakeholder organizations;
- activities jointly provided by universities and stakeholder organizations to local communities.

Representatives of stakeholder organizations are actively involved in the teaching process as “employers.” They deliver lectures, supervise undergraduate and graduate theses, advise on the development of educational courses and teaching materials, peer-review developed courses, coordinate field practices, and serve on the examination and attestation boards.

## REPORT on the activities of the Stakeholder- Academia Collaborative Platform for Sustainable Development of the Altai-Sayan Ecoregion

The following representatives of partner stakeholder organizations taught/teach at the university during the Project period:

Igor Kalmykov, Director of Altaiskiy Biosphere Reserve – Department of Geography and Environmental Management (current);

Tatiana Akimova, Deputy Director for the Development of Biosphere Territory and Research of Altaiskiy Biosphere Reserve – Department of Economics, Tourism and Applied Informatics (current);

Denis Malikov, Deputy Director for Science, Research and Monitoring of Sailygemskiy National Park (till July 2020);

Andrei Yalbakov, Director General, LLC “Solar Energy” – Institute of Physics & Mathematics and Engineering & Technology (current);

Ksenia Savenko, Senior Research Fellow, Altai Regional Institute of Ecology – Department of Geography and Environmental Management (current).

Universities, in turn, help improve the professional capacity of stakeholder organizations through MSC and PhD degree programs, further education courses, and various short term training seminars.

### *Representatives of the Mountain Platform members who have taken or are currently taking MSc degree program at GASU*

Chertkova E.P. (Altaiskiy State Biosphere Reserve) 05.04.06 Ecology and Environmental Management, profile Geoecology (graduated in 2021);

Lenskiy Artem (Ministry of Natural Resources, Ecology and Tourism of the Altai Republic) 05.04.06 Ecology and Environmental Management, profile Geoecology (graduated in 2021);

Gyunter A.V. (Sailugemskiy National Park) 05.04.02 Geography, profile Environmental Management and Nature Protection (current);

Moor G.A. (Sailugemskiy National Park) 05.04.02 Geography, profile Environmental Management and Nature Protection (current);

Bobrokov R.V. (Sailugemskiy National Park) 05.04.06 Ecology and Environmental Management (graduated in 2021);

Lukasheva M.A. (Altaiskiy State Biosphere Reserve) 05.04.02 Ecology and Environmental Management, profile Geoecology (graduated in 2020);

<https://www.altzapovednik.ru/news/2020/07/Lukasheva-diser.aspx>

Akimova T.A. (Altaiskiy State Biosphere Reserve) 05.04.02 Geography, profile Environmental Management and Nature Protection (graduated in 2019).

### *Further education courses*

Course “Theory and Practice of Activities in Protected Areas” (September 2018). 45 representatives of protected areas of different levels were totally taught, including representatives of Altaiskiy and Katunskiy Biosphere Reserves, Sailugemskiy National Park, Regional Nature Parks “Ak Cholushpa,” “Uch-



Персоны

**Igor Kalmykov**  
**Director of the Altaiskiy State Biosphere Reserve**

Калмыков Игорь Вячеславович

Senior Lecturer of the Department of Geography and Environmental Management of Gorno-Altai State University

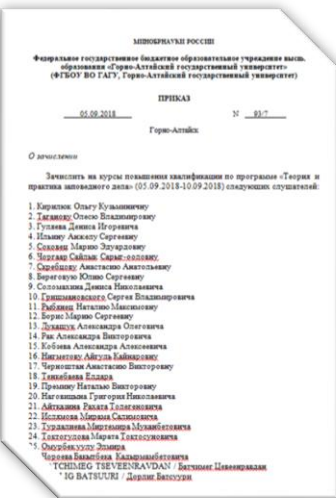
Должность: Старший преподаватель

Преподаваемые дисциплины: 05.03.02 География Профиль: Общая география: Курсовые работы по модулю “География России и мира”, Преддипломная практика/Преддипломная практика/Общее руководство производственной практикой, Выпускная работа-Руководство, Члены комиссии, 05.03.06 Экология и природопользование Профиль: Природопользование: Курсовые работы по модулю “Мониторинг природной среды”, Выпускная работа - Члены комиссии, Охрана природы Горного Алтая 05.04.02 География Профиль: Природопользование и охрана природы: Производственная практика/Практика по получению профессиональных умений и опыта профессиональной деятельности/Руководство



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Enmeck,” Belukha,” and “Ukok Quiet Zone ” (Altai Republic), Karatal-Zhapyryk State Nature Reserve (Kyrgyzstan), Katon-Karagay National Park (Kazakhstan), and Siilhem National Park (Mongolia).

Course “Methodological framework for the organization of environmental and tourist activity based on the example of protected areas of the Altai Republic” for the employees of Sailygemskiy National Park (May 2019).

[http://www.gasu.ru/university/news/7513/?sphrase\\_id=51853](http://www.gasu.ru/university/news/7513/?sphrase_id=51853)  
<http://sailugem.ru/index.php/825-uchenye-gagu-i-pedagogi-respublikanskogo-tsentra-turizma-prinyali-uchastie-v-aktsii-po-obustroystvu-ekotropy>

*Short term training seminars for representatives of local communities (in partnership with the Center for the Development of Tourism and Entrepreneurship of the Altai Republic and the regional NGO Educational Cultural Center Altai Kabai Cradle of Altai)*

May-October, 2018 – a series of workshops (2 ECTS each) focused on teaching such traditional crafts as “Artistic processing of bones and horns,” “Ceramics,” “Artistic processing of wood and other plant materials,” “Artistic metal processing,” “Jewelry making,” and “Manufacture of felt goods and souvenirs.”

<https://www.facebook.com/groups/SUNRAISER/permalink/975744079294881/>  
<http://www.gasu.ru/university/news/5976/> <http://www.gasu.ru/university/news/5997/>  
<http://www.gasu.ru/university/news/5869/> <http://www.gasu.ru/university/news/5537/>  
<http://binkra.ru/main/1613-seminar-po-raznouronevoy-programme-obucheniya-po-hudozhestvennoy-obrabotke-dereva-i-drugih-rastitelnyh-materialov.html>



In March 2021, GASU jointly with Katunskiy Biosphere Reserve and other partners co-organized further education courses “Preparation of guides for backpacking and equestrian tourism” for the members of local communities involved in tourism business.

<http://www.katunskiy.ru/novosti/v-katunskom-zapovednike-proydukt-kursyi-gidov-provodnikov>

### 03. Out-of-class educational and research activities

In the summer of 2018 and 2019 students of GASU took part in the work of the summer camp “Zapovednaya Strana” (A Reserve Country), which took place in Altaiskiy Biosphere Reserve. The students conducted interactive activities on the following topics: “The Man and the Biosphere,” “Human impact on mountain environments” and “Resistance of natural systems to human impacts.” Under the International Environment Day GASU students took part in the sanitary monitoring of coastal zone of Lake Teletskoye.





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GASU students (June 2018) and faculty (May 2019) took part in the volunteer activity of Sailugemskiy National Park on developing ecological trails.

<http://sailugem.ru/index.php/681-pervye-volontery-sajlyugemskogo-parka-vernulis-s-pika-zhurnalistov>

<http://sailugem.ru/index.php/825-uchenye-gagu-i-pedagogi-respublikanskogo-tsentra-turizma-prinyali-uchastie-v-aktsii-po-obustroistvu-ekotropy>



An ecological lesson “The Red Data Book of the Altai Republic” to GASU students prepared by the specialists of Sailugemskiy National Park was held in June 2018.

<http://sailugem.ru/index.php/680-urok-ekologii-krasnaya-kniga-i-studenty-gorno-altajskogo-gosudarstvennogo>

In July 2018 GASU students (BSc in Chemistry, BSc in Ecology and Environmental Management) within the framework of their field practice did research in the territory of Katunskiy Biosphere Reserve on the topic “Ecological condition of water bodies and environment in the transitional zones of the reserve and Ust-Koksa district.”

In July 2018, Stolby Nature Reserve, Katunskiy Biosphere Reserve, and LLC “Solar Energy” assisted in the organization of the 1st SUNRAISE Summer School “Monitoring and early warnings in mountain social-ecological systems.”

[http://sunraise.sfu-kras.ru/sites/default/files/SUNRAISE%20Summer%20school%20-%202018\\_Final%20Report.pdf](http://sunraise.sfu-kras.ru/sites/default/files/SUNRAISE%20Summer%20school%20-%202018_Final%20Report.pdf)  
<http://sunraise.sfu-kras.ru/node/46>



Lectures of Andrei Yalbakov, Director General, LLC “Solar Energy” to the participants of the Summer School-2018



An educational excursion to the solar power station in Maima district of the Altai Republic (organized by LLC “Solar Energy”)



A research excursion and a wrap-up seminar in Stolby Nature Reserve

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On February 26, 2019 "The Day of Katunskiy Biosphere Reserve" was held at GASU and gathered more than 70 students and school children. The organizers prepared a photo exhibition, gave several master classes telling the students about the everyday work of the reserve's staff members and made a challenging quest.

[http://www.gasu.ru/university/news/6925/?sphrase\\_id=51861](http://www.gasu.ru/university/news/6925/?sphrase_id=51861)

<https://www.rgo.ru/ru/article/den-katunskogo-biosfernogo-zapovednika-v-gorno-altayskom-gosudarstvennom-universitete>

<http://www.katunskiy.ru/novosti/v-gorno-altayskom-universitete-rasskazali-o-zapovednyih-professiyah>

In April 2019, in the framework of the Scientific Conference of Students, Postgraduates and Young Scientists of Gorno-Altai State University there was held a competition of students' research works devoted to the protected areas of the Altai Republic. Representatives of the Directorate for Protected Areas of the Altai Republic, Katunskiy and Altaiskiy Biosphere Reserves were among the competition jury members. The conference program is available at <http://www.gasu.ru/upload/news/2019/4/Programma-konf-stud-asp-molod-uch.pdf> (page 10).



In March 2019, Maryana Lukasheva, a research officer of the Scientific Department of Altaiskiy Biosphere Reserve and MSc student of GASU, took part in the All-Russia conference "Modern Problems of Hydrometeorology and Sustainable Development of the Russian Federation" held in Russian State Hydrometeorological University.

<https://www.altzapovednik.ru/news/2019/03/konferentsiya-meteorolog.aspx>

GASU students took part in the summer camp for the members of ecological club of Sailugemskiy National Park (June 2019). They organized fascinating quests, ecological games and master-classes in making ecofriendly souvenirs.

<http://sailugem.ru/index.php/841-dlya-ekoklubovtsev-sajlyugemskogo-natsionalnogo-parka-organizovan-letnij-lager-na-turbaze-taezhnik>



In the summer 2019 a joint field research of GASU and SFU was organized in Katunskiy Biosphere Reserve within the framework of the Platform activities. GASU students and academic staff assessed conditions of surface waters and soils whereas SFU team observed the conditions of conifer trees. The research took place in the area of Multinskie Lakes. The representatives of both universities also took part in the development of ecological trails and held some environmental awareness activities for schoolchildren and tourists of Ust-Koksa district.

<http://sunraise.sfu-kras.ru/node/71>

<https://www.facebook.com/groups/SUNRAISER/permalink/1197237653812188/>





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### 04. Scientific events

The International Forum “Nature without Borders” was held in Gorno-Altai State University on September 11-12, 2018. The event was co-organized by Katunskiy Biosphere Reserve, Gorno-Altai State University and the NGO “Altai-Sayan Mountain Partnership” with the support of the Interstate Fund for Humanitarian Cooperation of the CIS Member States.



<http://www.katunskiy.ru/novosti/sng-priroda-bez-granits->

[http://www.gasu.ru/university/news/5930/?sphrase\\_id=51867](http://www.gasu.ru/university/news/5930/?sphrase_id=51867)[http://www.gasu.ru/university/news/5930/?sphrase\\_id=51867](http://www.gasu.ru/university/news/5930/?sphrase_id=51867)

The 1<sup>st</sup> SUNRAISE conference “Transboundary Regions under the Global Change: Current Challenges and Development Trajectories” was held in Gorno-Altai State University on 25-28 November, 2019. The event was co-organized by several institutions, including the Platform members: Gorno-Altai State University, Katunskiy Biosphere Reserve, Siberian Federal University, Russian State Hydrometeorological University, and the Branch of the Russian Geographical Society in the Altai Republic.

<http://sunraise.sfu-kras.ru/node/87>

[http://www.gasu.ru/university/news/8122/?sphrase\\_id=51867](http://www.gasu.ru/university/news/8122/?sphrase_id=51867)

<http://www.katunskiy.ru/novosti/mejdunarodnaya-nauchno-prakticheskaya-konferentsiya-transgranichnyie-regionyi-v-usloviyah-globalnyih-izmeneniy-sovremennyye-vyzovyi-i-perspektivy-razvitiya->



### 05. Work of the Platform under the COVID-19 restrictions

Unfortunately, due to coronavirus restrictions most joint activities of the Platform members planned for 2020 and 2021 were either cancelled or held in the distance format.

In June 2020, a small group of students from Russian State Hydrometeorological University worked on their research projects on the territory of Katunskiy State Biosphere Reserve.

<http://www.rshu.ru/university/periodicals/boreal/2020/74.pdf> (pp. 18-19)



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On August 10-16, 2020 in the Altai Republic there was held the Youth Meeting of the Russian Geographical Society co-organized by the Branch of the Russian Geographical Society in the Altai Republic, Katunskiy Biosphere Reserve, and Gorno-Altai State University. The participants were presented with the MOOC “Sustainable Development of Mountain Territories in the Context of the Concept of Ecosystem Services” developed under the SUNRAISE project.

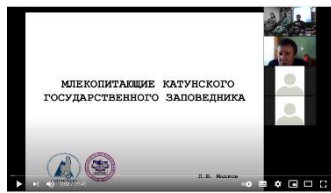
<https://www.rgo.ru/ru/article/molodyozhnyy-slyot-rgo-v-respublike-altay>



On November 2020, the Second All-Russia Scientific Conference “Transboundary Altai: Natural, Socio-Economic, Cultural and Recreational Portal of Eurasia” was held in distant format (just publication of the conference proceedings [http://elib.gasu.ru/images/files/id\\_1002.pdf](http://elib.gasu.ru/images/files/id_1002.pdf)). The conference was co-organized by Gorno-Altai State University, Altaiskiy Biosphere Reserve, and the Branch of the Russian Geographical Society in the Altai Republic.

In February 2021, GASU students took part in the Regional competition of excursion projects “Zapovednyi Altai” (Reserved Altai) co-organized by Katunskiy Biosphere Reserve, Altaiskiy Biosphere Reserve and National Park Sailugemskiy and became the winners among the participants from HEIs.

<https://www.altzapovednik.ru/news/2021/02/zapovednyi-Altai-itogi.aspx>



On February 8, 2021, on the Russian Science Day, GASU and Katunskiy Biosphere Reserve presented on-line lecture “Mammals of Katunskiy State Reserve”

<http://www.katunskiy.ru/novosti/-zapovednaya-lektsiya-v-den-nauki>

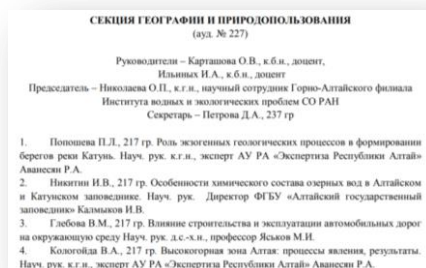
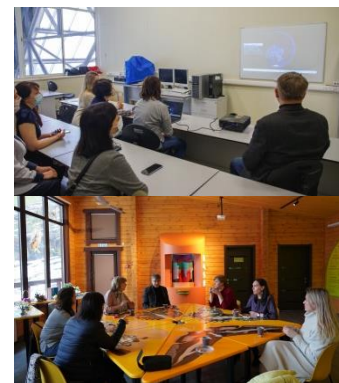
<https://www.youtube.com/watch?v=l71szvqE7Sg&feature=youtu.be>

In April 2021 project partners from GASU, SFU and RSHU co-organized the presentation of SUNRAISE MOOCs to representatives of Sayano-Shushensky Biosphere Reserve (via Zoom) and Krasnoyarsk Stolby National Park. The participants of these events also discussed the potential joint activities for 2021-2022.

<http://sunraise.sfu-kras.ru/node/112>

<http://www.gasu.ru/university/news/10554/>

<http://news.sfu-kras.ru/node/24583>



On April 19-29 there was held the 55<sup>th</sup> Scientific Conference of Students, Postgraduates and Young Scientists of Gorno-Altai State University, in which the representatives of local stakeholder organizations took an active part acting as jury members and scientific advisors of students’ research works.

[http://www.gasu.ru/upload/news/2021/4/Programma\\_konferencii2021.pdf](http://www.gasu.ru/upload/news/2021/4/Programma_konferencii2021.pdf)



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27 residents of Ust'-Koksa region attended further education course jointly organized by GASU, Katunskiy Biosphere Reserve, and the Altai-Sayan Mountain Partnership and were awarded certificates of hiking guides, which should help them to become more competitive in the labor market and to find new sources of income. <http://www.katunskiy.ru/novosti/27-jiteley-ust-koksinskogo-rayona-poluchili-professionalnoe-obrazovanie-gidov-provodnikov>

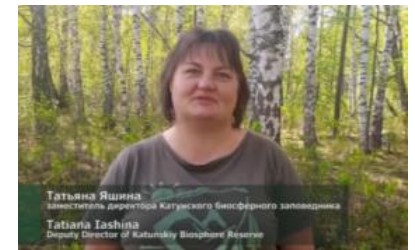


A joint expedition of GASU and Gorno-Altaiisk Branch of the Institute for Water and Environmental Problems of the Siberian Branch of the Russian Academy of Sciences was held in June 2021. The researchers assessed indicators of early, short-term and long-term monitoring of human impact on the landscape of Lake Teletskoye and its tributaries. <http://www.gasu.ru/university/news/10798/>



On June 4, 2021, GASU and the Branch of the Russian Geographical Society in the Altai Republic organized the awareness raising game "A Geography Night" for schoolchildren of Gorno-Altaiisk. <http://www.gasu.ru/university/news/10715/>

Tatiana Iashina, the Head of the Altai-Sayan Mountain Partnership and the Deputy Director of Katunskiy Biosphere Reserve, took part in the Regional Cluster Meeting "Internationalization and Impact of Erasmus+ CBHE projects in Russia" (June 29-30, 2021) along with the representatives of GASU, SFU, and RHMU. In her presentation she stressed the importance of close cooperation of HEIs and employers in the preparation of high skilled specialists for sustainable management of natural resources.



On June 24-25, 2021, the All-Russian Conference "Natural Geological Monuments: Characteristics, Condition and Use" was held in Gorno-Altaiisk State University. The event was jointly organized by several Russian universities, the Branch of the Russian Geographical Society in the Altai Republic, and the Great Altai Transboundary Biosphere Reserve (Russia-Kazakhstan). <http://www.gasu.ru/university/news/10780/>