

## International Conference of Young Scientists "Modern Problems of Earth Sciences"

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### ABSTRACT

*Information about the international conference of young scientists "Modern Problems of the Earth Sciences", which was held on November 21-22, 2022 at Ivane Javakishvili Tbilisi State University is presented. The conference was dedicated to the challenges in the directions of Earth sciences and ways to solve them.*

**Key words:** *Geophysical processes, natural disasters, earth ecology, mitigation.*

### Introduction

On November 21-22, 2022, Ivane Javakishvili Tbilisi State University hosted the International Conference of Young Scientists - "Modern Problems of the Earth Sciences".

More than 50 young researchers from 6 countries participated in the conference.

The objectives of the conference were the presentation of the results of many years of research in the field of earth science by young scientists at the plenary session (oral\stand\video). Also, presentation of reports selected by the scientific committee and their discussion at plenary, sectional sessions and in poster form.

The target group was Georgian and foreign scientific, educational, governmental and non-governmental organizations, which have direct contact with the theme of the conference (universities, research institutes, educational organizations, structures of emergency situations, etc.).

The collection of conference materials and all of its separate articles is available on the website of the National Scientific Library: <http://openlibrary.ge/handle/123456789/10224>

### Goal of the Conference

- Discovering the potential of young scientists in the field of earth science;
- Establishing and strengthening ties between different generations of scientists;
- Defining the prospects for the development of scientific research;
- Identify opportunities for improving the scientific-educational field of secondary and higher education institutions in relation to the issues of the conference;
- Strengthening international scientific cooperation on conference topics;
- To acquaint the world scientific community, governmental structures, other interested organizations and individuals with the current state of the problems related to the fields of Earth Sciences.

### Conference Organizers

The conference was organized by the Mikheil Nodia Institute of Geophysics of the Tbilisi State University and the Institute of Hydrometeorology of the Georgian Technical University.

### Conference Supporting Organizations

The supporting organization of the conference was the Georgian Geophysical Association.

## Scientific Committee and Editorial Board

**Tamaz Chelidze:** Academician, Chairman of the Scientific Committee, Editor-in-Chief; **Nugzar Ghlonti:** Co-Chairman of the Scientific Committee; **Avtandil Amiranashvili** (Deputy Editor-in-Chief), **Jemal Kiria**, **Tamar Jimsheladze**, **Davit Svanadze** - TSU, M. Nodia Institute of Geophysics, Georgia;

**Tengiz Tsintsadze:** Co-Chairman of the Scientific Committee; **Marika Tatishvili**, **Natia Gigauri**, **Inga Samkharadze** - GTU, Institute of Hydrometeorology, Georgia;

**Sergey Stankevich** – Scientific Centre for Aerospace Research of the Earth, National Academy of Sciences of Ukraine, Ukraine;

**Bakhtier Nurtaev** – Institute of Geology and Geophysics named after H.M. Abdullayev, State committee of the republic of Uzbekistan on geology and mineral resources, Uzbekistan;

**Sergey Nazaretyan** - Territorial Survey for Seismic Protection, Ministry of Emergency Situations of Armenia, Gyumri, Armenia;

**Bakhram Nurtaev** – Institute of Helioclimatology, Germany.

## Organizing Committee

**Mikheil Pipia:** Chairman of Organizing Committee; GTU, Institute of Hydrometeorology / TSU, M. Nodia Institute of Geophysics, Georgia;

**Manana Nikolaishvili** – Deputy Chairman of Organizing Committee; **Sophiko Matiashvili**, **Khatia Tavidashvili** – TSU, M. Nodia Institute of Geophysics, Georgia;

**Nazibrola Beglarashvili**, **Narine Arutiniani** - GTU, Institute of Hydrometeorology, Georgia.

## Conference Themes – All Problems of the Earth Sciences

### Expected Results

- Promoting historical and modern achievements in the field of Earth Sciences;
- To acquaint the world community with the current state of the problems related to the science of the Earth;
- Enhance international cooperation for the scientific and practical application of modern achievements related to the conference;
- Assess the social and economic risks associated with the conference topics and identify opportunities for joint action to prevent these risks;
- Identify opportunities to improve the scientific-educational base of secondary and higher education institutions in the field of Earth Sciences.

The conference was opened by the co-chairman of the scientific committee, the director of the Institute of Geophysics, Nugzar Ghlonti, who made a general overview of the modern problems of earth science and wished the conference participants fruitful work.

Another co-chairman of the scientific committee, director of the Institute of Hydrometeorology Tengiz Tsintsadze addressed the participants with a welcome speech, talked about the problems of hydrometeorological events and the need to involve young researchers in this field.

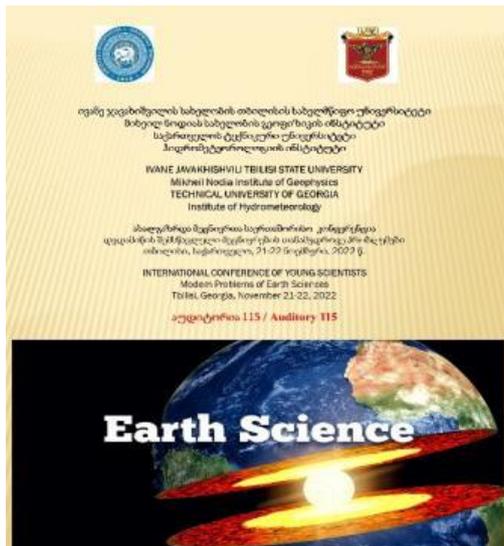
Avtandil Amiranashvili, the deputy editor-in-chief, head of the atmospheric physics sector of the Institute of Geophysics, addressed the participants with a closing speech and wished success to the young scientists in their future research activities.

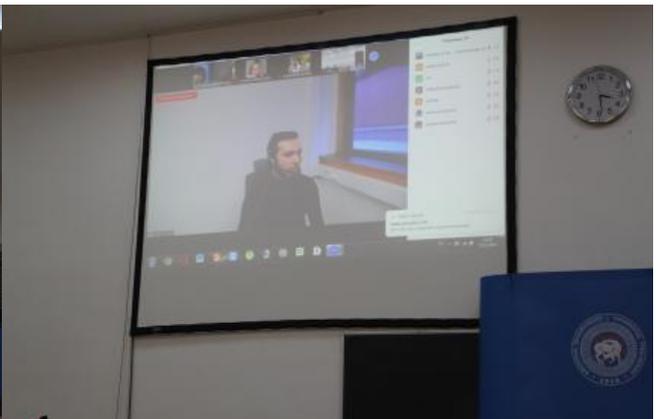
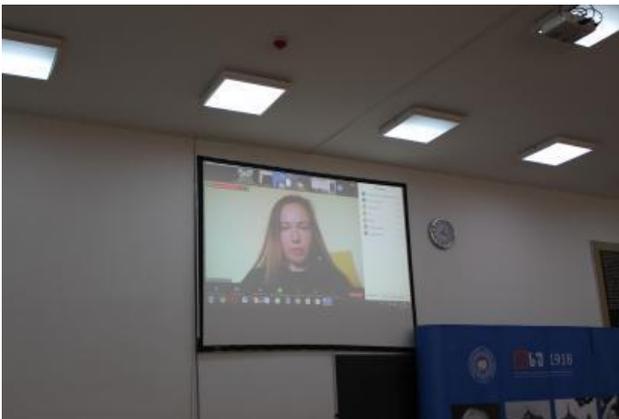
A total of 43 oral and poster presentations were considered at the conference. 42 reports published (see References). One report, at the request of the authors, will be published in another edition (Vepkhvadze S., Malik P., Melikadze G., Todadze M., Ghlonti L., Chikadze T. Assessment karstic water origin along South slope of Grate Caucasus Mountain range).

The proceedings of this conference as a whole, as well as its individual works, are published and posted on the portal of the Institute of Geophysics, which are included in the international electronic library data base DSpace, indexed in Google Scholar and Publish or Perish.

According to the results of the conference, a decision was made, in which the achievements and gaps in the directions of earth science are discussed. Future meetings with the participation of young scientists have been planned.

# Photos from Conference







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## **ახალგაზრდა მეცნიერთა საერთაშორისო კონფერენცია “დედამიწის შემსწავლელი მეცნიერების თანამედროვე პრობლემები”**

**მ. ფიფია  
რეზიუმე**

წარმოდგენილია ინფორმაცია ახალგაზრდა მეცნიერთა საერთაშორისო კონფერენციის “დედამიწის შემსწავლელი მეცნიერების თანამედროვე პრობლემები” შესახებ, რომელიც ჩატარდა 2022 წლის 21-22 ნოემბერს ივანე ჯავახიშვილის სახელობის თბილისის სახელმწიფო უნივერსიტეტში. კონფერენცია მიეძღვნა დედამიწის შემსწავლელ მეცნიერებათა მიმართულეებში გამოწვევებს და მათი გადაჭრის გზებს.

**საკვანძო სიტყვები:** გეოფიზიკური პროცესები, სტიქიური უბედურებები, დედამიწის ეკოლოგია, შერბილება.

## **Международная научная конференция молодых ученых “Современные проблемы наук о Земле“ М.Г. Пипиа**

**Резюме**

Представлена информация о международной конференции молодых ученых «Современные проблемы наук о Земле», которая состоялась 21-22 ноября 2022 года в Тбилисском государственном университете имени Иване Джавахишвили. Конференция была посвящена проблемам в направлениях наук о Земле и путям их решения.

**Ключевые слова:** Геофизические процессы, стихийные бедствия, экология Земли, смягчение последствий.