

Ivane Javakhishvili Tbilisi State University  
Alexandre Javakhishvili Geographical Society of Georgia  
International Geographical Union (IGU)  
Commission Landscape Analysis and Landscape Planning  
Georgian Cartographers Association  
Mountain Partnership

## II INTERNATIONAL SCIENTIFIC CONFERENCE

LANDSCAPE DIMENSIONS OF SUSTAINABLE DEVELOPMENT:  
SCIENCE – CARTO/GIS - PLANNING – GOVERNANCE

Dedicated to commemorate the 75th Anniversary  
of Professor Nikoloz (Niko) Beruchashvili

## PROGRAM OF THE CONFERENCE

12 - 16 SEPTEMBER 2022  
TBILISI, GEORGIA



## INVITATION

Dear Sir/Madam -----

On behalf of the Ivane Javakhishvili Tbilisi State University, we have the pleasure to invite you to participate at the II International Conference LANDSCAPE DIMENSIONS OF SUSTAINABLE DEVELOPMENT: SCIENCE – CARTO/GIS - PLANNING – GOVERNANCE. The conference will take place in Tbilisi, Georgia from 12 - 16 SEPTEMBER 2022 to commemorate the 75th anniversary of Professor Nikoloz Beruchashvili (1947-2006), internationally-renowned geographer and cartographer, author of the theory of spatiotemporal analysis and synthesis of landscapes, founder and first chairman of the IGU Commission on Landscape Analysis, professor of Tbilisi State University, founder of the geoinformatics teaching of TSU (Tbilisi State University), organizer and developer of the first GIS for the Caucasus and Georgia.

### PROGRAM OF THE CONFERENCE

#### SEPTEMBER, 12

11.00-11.30 Registration of Participants

#### Plenary Session

##### **Opening and Greetings**

(Iv. Javakhishvili Tbilisi State University, Conference hall named after Ivane Javakhishvili (107 auditorium, Building #1, First floor)

12.00 Prof. **Giorgi Sharvashidze** – Rector of the Iv. Javakhishvili Tbilisi State University, Chair of the ICLDSCARTO/GIS-2022 (Georgia)

12.05 Associate Prof. **Ramaz Khomeriki** – Dean of Faculty of Exact and Natural Sciences Iv. Javakhishvili Tbilisi State University. (Georgia)

12.10 Prof. **David Kereselidze** – Head of Department of Geography Faculty of Exact and Natural Sciences, Iv. Javakhishvili Tbilisi State (Georgia)

12.15 Prof. **Nodar Elizbarashvili** – Head of Department of Regional Geography and Landscape Planning of TSU Iv. Javakhishvili Tbilisi State University (Georgia)

12.20 Prof. **Jean Radvanyi** - Professor Emeritus INALCO - State Institute for Eastern Languages and Civilizations (INALCO), Langues O' (Paris, FRANCE)

12.25 Dr. **Andrey Kushlin** – Coordinator and Manager of the GTI, Honorary Member of the GTF, Global Tiger Recovery Program (Russia) **online**

12.30 Prof. **Milan KONECNY** – Founder and Chair of ICA Commission Cartography for EW and Crises Management, Director of Laboratory on Geoinformatics and Cartography, Masaryk University in Brno (Czech Republic)

12.35 Prof. **Dali Nikolaishvili** - Head of Department of Geomorphology and Cartography, Iv. Javakhishvili Tbilisi State University (Georgia)

12.40 Prof. **Ibragim A. Kerimov** - Vice-president, Academician of the Academy of Sciences of the Chechen Republic (Chechen Republic, Russian)

12.45 Prof. **Kalev Sepp** – Estonian University of Life Sciences, Institute of Agriculture and Environmental Sciences (Estonia)

12.50 Prof. **Grigorii Isachenko** - St. Petersburg State University (Russia)

12.55 Prof., **Guliko Liparteliani** - Head of Cartography-Geoinformatics Laboratory, Vakhushti Bagrationi Institute of Geography, Iv. Javakhishvili Tbilisi State University (Georgia) **online**

13.00 Prof. **Viaytheslav Oleshenko** - National Academy of Sciences of Ukraine, Koretsky Institute of State and Law, Senior Research Scientist; Ukrainian Geographical Society, President (Ukraine) **online**

13.05 Prof. **Jörg Stadelbauer** - Albert Ludwig University of Freiburg (Germany), Co-Editor "Caucasian Studies", He Lectures in Germany, France, China

13.10 Prof., Associate Prof. **Tengiz Gordeziani** – Iv. Javakhishvili Tbilisi State University (Georgia)

13.15 Teacher of Geography, **Ketino Razmadze** - Public School N31 of Tbilisi City, (Georgia)

13.20 **Photo session all participants of the conference**

13.30 – 14.00 **Exhibition: Prof. N. Beruchashvili Life in Photography**  
(Tbilisi State University, Building #1, Exhibition hall, Second floor)

## **Coffee Break 14.00 – 15.00**

### **Sectional Meetings**

(Sections operate simultaneously 15.00 – 18.00)

#### **SECTION 1. LANDSCAPE SCIENCE AND LANDSCAPE PLANNING**

(Tbilisi State University, Auditorium 107, Building #1, First floor)

**Chairman: Prof. Grigorii Isachenko** (report time-limit 15 min.)

15.00 **Grigorii Isachenko** (Saint Petersburg, Russia) - CLIMATE CHANGE AND TAIGA LANDSCAPE DYNAMICS, greg.isachenko@gmail.com

Григорий Исаченко. ИЗМЕНЕНИЯ КЛИМАТА И ДИНАМИКА ЛАНДШАФТОВ ТАЙГИ.

15.15 T. **Jörg Stadelbauer** (Germany) - TECHNOLOGY AND LANDSCAPE - CONFLICTS OF MODERNIZATION AND AESTHETICS. THE EXAMPLE OF GERMAN LOW MOUNTAIN LANDSCAPES, [joerg.stadelbauer@geographie.uni-freiburg.de](mailto:joerg.stadelbauer@geographie.uni-freiburg.de)

15.30 **Ibragim A. Kerimov, Lyubov Sh. Makhmudova, Kseniya V. Myachina** (Chechen Republic, Russia; <sup>3</sup>Orenburg, Russia) - CARBON POLYGON OF THE CHECHEN REPUBLIC: LANDSCAPE FEATURES AND RESEARCH METHODS, [ibragim\\_kerimov@mail.ru](mailto:ibragim_kerimov@mail.ru) ; [mls66@mail.ru](mailto:mls66@mail.ru) ; [mavicsen@gmail.com](mailto:mavicsen@gmail.com)

Ибрагим Ахмедович Керимов, Любовь Ш. Махмудова, Ксения В. Мячина. КАРБОНОВЫЙ ПОЛИГОН ЧЕЧЕНСКОЙ РЕСПУБЛИКИ: ЛАНДШАФТНЫЕ ОСОБЕННОСТИ И МЕТОДЫ ИССЛЕДОВАНИЙ

15.45 **Ibragim A. Kerimov, Zulfira Sh. Gagayeva** (Chechen Republic, Russia) - N. BERUCHASHVILI – RESEARCHER OF THE CAUCASUS LANDSCAPES, [ibragim\\_kerimov@mail.ru](mailto:ibragim_kerimov@mail.ru) ; [zsh\\_gagayeva@mail.ru](mailto:zsh_gagayeva@mail.ru)

16.00 **Umar T. Gairabekov, Alexey N. Gunya, Ibragim A. Kerimov** (Chechen Republic, Russia; Moscow, Russia) - LANDSCAPE-GEOPHYSICAL APPROACH OF N. L. BERUCHASHVILI IN THE STUDY OF CARBON DYNAMICS IN MOUNTAIN LANDSCAPES (ON THE EXAMPLE OF THE CHECHEN REPUBLIC), [gairabekov\\_u@mail.ru](mailto:gairabekov_u@mail.ru) ; [a.n.gunya@igras.ru](mailto:a.n.gunya@igras.ru) ; [ibragim\\_kerimov@mail.ru](mailto:ibragim_kerimov@mail.ru)

Умар Т. Гайрабеков, Алексей Н. Гуня, Ибрагим А. Керимов. ЛАНДШАФТНО-ГЕОФИЗИЧЕСКИЙ ПОДХОД Н. Л. БЕРУЧАШВИЛИ В ИЗУЧЕНИИ ДИНАМИКИ УГЛЕРОДА В ГОРНЫХ ЛАНДШАФТАХ (НА ПРИМЕРЕ ЧЕЧЕНСКОЙ РЕСПУБЛИКИ)

16.15 **Marina Petrushina** (Russia) - STRUCTURE AND FUNCTIONING FEATURES OF SUB-MEDITERRANEAN LANDSCAPES OF THE NORTH-WESTERN CAUCASUS, [mnpetrushina@mail.ru](mailto:mnpetrushina@mail.ru)

16.30 **Tatiana Isachenko, Grigorii Isachenko** (Saint Petersburg, Russia) - LANDSCAPE APPROACH TO ORGANIZATION OF THE RECREATIONAL NATURE MANAGEMENT AND DETERMINING RECREATIONAL LOADS IN NATURE PROTECTOR AREAS, [tatiana.isachenko@gmail.com](mailto:tatiana.isachenko@gmail.com) ; [greg.isachenko@gmail.com](mailto:greg.isachenko@gmail.com)

Татьяна Исаченко, Григорий Исаченко. ЛАНДШАФТНЫЙ ПОДХОД К ОРГАНИЗАЦИИ РЕКРЕАЦИОННОГО ПРИРОДОПОЛЬЗОВАНИЯ И ОПРЕДЕЛЕНИЮ РЕКРЕАЦИОННЫХ НАГРУЗОК НА ОСОБО ОХРАНЯЕМЫХ ПРИРОДНЫХ ТЕРРИТОРИЯХ

16.45 **Jaak Kliimask, Andres Rõigas** (Tartu, Estonia) - SOVIET-ERA APARTMENT HOUSES AND RURAL LANDSCAPES THE CASE OF ESTONIA, [jaak.kliimask@emu.ee](mailto:jaak.kliimask@emu.ee) ; [andres.roigas@ut.ee](mailto:andres.roigas@ut.ee)

17.00 **Maaria Semm, Kalev Sepp** (Tartu, Estonia) - LANDSCAPE HISTORY AS A TOOL FOR LANDSCAPE AND CONSERVATION PLANNING, [maaria.semm@emu.ee](mailto:maaria.semm@emu.ee) ; [kalev.sepp@emu.ee](mailto:kalev.sepp@emu.ee)

17.15 **Idris A. Bayrakov** (Chechen Republic, Russia) - ARID LANDSCAPE COMPLEXES OF THE NORTH CHECHEN LOWLAND AND THEIR ANTHROPOGENIC MODIFICATIONS, [idris-54@mail.ru](mailto:idris-54@mail.ru)

17.30 **Idris A. Bayrakov** (Chechen Republic, Russia) - GEOECOLOGICAL ASPECTS OF BIOLOGICAL DIVERSITY OF FOREST COMPLEXES OF THE CHECHEN REPUBLIC, [idris-54@mail.ru](mailto:idris-54@mail.ru)

17.45 **Sergei Shadchinov, Ekaterina Aristarkhova** (Russia) - IDENTIFYING THE FEATURES OF THE FUNCTIONING DEPENDING ON THE SPATIAL PATTERN IN STEPPE LANDSCAPES OF TARKHANKUT PENINSULA, [shadchinov@yandex.ru](mailto:shadchinov@yandex.ru) ; [kattariss@yandex.ru](mailto:kattariss@yandex.ru)

Сергей Шадчинов, Екатерина Аристархова. ВЫЯВЛЕНИЕ ОСОБЕННОСТЕЙ ФУНКЦИОНИРОВАНИЯ СТЕПНЫХ КОМПЛЕКСОВ В ЗАВИСИМОСТИ ОТ ПРОСТРАНСТВЕННОЙ СТРУКТУРЫ ЛАНДШАФТА НА ПРИМЕРЕ ПОЛУОСТРОВА ТАРХАНКУТ.

## **SECTION 2. CARTOGRAPHY AND GIS**

*(Tbilisi State University, Auditorium #115, Building #1, First floor)*

**Chairman: Prof. Jean Radvanyi** *(report time-limit 15 min.)*

15.00 **Jean Radvanyi** (Paris, FRANCE) - NIKOLAY BERUCHASHVILI AND HIS ROLE IN THE ELABORATION OF A GEOPOLITICAL ATLAS OF THE CAUCASUS: METHODS, SOURCES AND RESULTS, [jean.radvanyi@inalco.fr](mailto:jean.radvanyi@inalco.fr)

15.15 **Milan KONECNY** (Brno, Czech Republic) - UNITED NATIONS AGENDA 2030 AND SENDAI FRAMEWORK EFFORTS: CHALLENGES FOR CARTOGRAPHY AND GEOINFORMATION SCIENCES, [konecnymilan3@gmail.com](mailto:konecnymilan3@gmail.com)

15.30 **Alexander Panin, Vitaly Belozarov** (Russia) - GIS AND MAPPING THE NORTHERN CAUCASUS ETHNO-DEMOGRAPHIC GRADIENTS, [Alex\\_panin@mail.ru](mailto:Alex_panin@mail.ru) ; [vbelozarov@ncfu.ru](mailto:vbelozarov@ncfu.ru) **online**

15.45 **Eugene Eremchenko** (Russia) - SEMIOTICS FROM MAPS TO DIGITAL EARTH: CONUNDRUMS AND CHALLENGES, [eugene.ermchenko@gmail.com](mailto:eugene.ermchenko@gmail.com) **online**

16.00 **Aleksandra Nikiforova, Maria Fleis, Nina Belyonova** (Russia) - THEORETICAL FOUNDATIONS AND TECHNOLOGY OF MULTISCALE SOIL-LANDSCAPE GIS MAPPING, [nikifsoil@gmail.com](mailto:nikifsoil@gmail.com) ; [andres.roigas@ut.ee](mailto:andres.roigas@ut.ee) ; [nk.belenova@gmail.com](mailto:nk.belenova@gmail.com)

Александра Никифорова, Мария Флейс, Нина Белёнова. ТЕОРЕТИЧЕСКИЕ ОСНОВЫ И ТЕХНОЛОГИЯ МУЛЬТИМАСШТАБНОГО ПОЧВЕННО-ЛАНДШАФТНОГО ГИС КАРТИРОВАНИЯ.

16.15 **Ekaterina Sklyar, Elena Golubeva, W. Gareth Rees** (Cambridge, UK; Russia; Cambridge, UK.) - LONG-TERM REMOTE SENSING DATA APPLICATION IN HIGH-LATITUDE VEGETATION AND LAND-COVER MONITORING IN HUMAN ACTIVITY HOTSPOTS, [es377@cantab.net](mailto:es377@cantab.net) ; [egolubeva@gmail.com](mailto:egolubeva@gmail.com) ; [WGR2@cam.ac.uk](mailto:WGR2@cam.ac.uk)

16.30 **Tengiz Gordeziani** (Georgia) - GEORGIAN CARTOGRAPHY IN THE PAST, PRESENT AND FUTURE. PROFESSOR NIKO BERUCHASHVILI'S CONTRIBUTION TO THE DEVELOPMENT OF GEORGIAN CARTOGRAPHY, [tengiz.gordeziani@tsu.ge](mailto:tengiz.gordeziani@tsu.ge)

თენგიზ გორდეზიანი. ქართული კარტოგრაფია წარსულში, აწმყოსა და მომავალში. პროფესორ ნიკო ბერუჩაშვილის წვლილი ქართული კარტოგრაფიის განვითარებაში.

16.45 **Tatiana Chernenkova, Ivan Kotlov, Nadezhda Belyaeva, Olga Morozova, Elena Suslova** (Russia) - GIS SUPPORT FOR THE ASSESSMENT OF FOREST DIVERSITY CASE STUDY: MOSCOW REGION, [chernenkova50@mail.ru](mailto:chernenkova50@mail.ru) ; [ikotlov@gmail.com](mailto:ikotlov@gmail.com) ; [belyaeva@igras.ru](mailto:belyaeva@igras.ru) ; [olga.morozova@igras.ru](mailto:olga.morozova@igras.ru) ; [5lena\\_susl@mail.ru](mailto:5lena_susl@mail.ru)

Татьяна Черненкова, Иван Котлов, Надежда Беляева, Ольга Морозова, Елена Сулова. ПОДДЕРЖКА ГИС ДЛЯ ОЦЕНКИ ЛЕСНОГО РАЗНООБРАЗИЯ. ПРИМЕР: МОСКОВСКАЯ ОБЛАСТЬ

17.00 **Dali Nikolaishvili, Davit Sartania, Avtandil Ujmajuridze, Gia Chkhikvishvili** (Georgia) - IVANE JAVAKHISHVILI'S CONTRIBUTION TO THE DEVELOPMENT OF GEORGIAN CARTOGRAPHY, [dali.nikolaishvili@tsu.ge](mailto:dali.nikolaishvili@tsu.ge) ; [davit.sartania@tsu.ge](mailto:davit.sartania@tsu.ge)

დალი ნიკოლაიშვილი, დავით სართანია, ავთანდილ უჯმაჯურიძე, გია ჩხიკვიშვილი. ივანე ჯავახიშვილის როლი ქართული კარტოგრაფიის განვითარებაში.

17.15 **Dali Nikolaishvili, Revaz Tolordava** (Georgia) - DAVITGAREDJA ACCORDING TO THE OLD PERIODIC AND CARTOGRAPHIC SOURCES (XIX AND EARLY XX CENTURIES), [dali.nikolaishvili@tsu.ge](mailto:dali.nikolaishvili@tsu.ge) ; [rezo\\_06@mail.ru](mailto:rezo_06@mail.ru)

დალი ნიკოლაიშვილი, რევაზ თოლორდავა. დავითგარეჯა ძველი პერიოდისა და კარტოგრაფიული წყაროების მიხედვით. XIX საუკუნე და XX საუკუნის დასაწყისი.

17.30 **Tengiz Gordeziani, Manana Sharashenidze** (Georgia) - GEORGIA AGRICULTURAL GEOGRAPHIC INFORMATION ATLAS PROJECT, [tengiz.gordeziani@tsu.ge](mailto:tengiz.gordeziani@tsu.ge) ; [manana.sharashenidze@yahoo.com](mailto:manana.sharashenidze@yahoo.com)

თენგიზ გორდეზიანი, მანანა შარაშენიძე. საქართველოს სოფლის მეურნეობის გეონფორმაციული ატლასის პროექტი.

17.45 **Salome Elbakidze** (Georgia) - ELECTRONIC ATLAS OF KARELI MUNICIPALITY AND GEOGRAPHICAL INFORMATION SYSTEM, [salomesalo13@gmail.com](mailto:salomesalo13@gmail.com)

სალომე ელბაქიძე. ქარელის მუნიციპალიტეტის ელექტრონული ატლასი და გეოგრაფიული ინფორმაციული სისტემა.

### **SECTION 3. ENVIRONMENT MANAGEMENT**

*(Tbilisi State University, Assembly Hall vestibule, Building #1, Second floor)*

**Chairman: Dr. Toomas Kokovkin** *(report time-limit 15 min.)*

15.00 **Toomas Kokovkin** (Hiiumaa, Estonia) - BIOSPHERE RESERVES HIGHLIGHTING LOCAL KNOWLEDGE IN CULTURAL LANDSCAPES, [Toomas.Kokovkin@eesti.ee](mailto:Toomas.Kokovkin@eesti.ee)

15.15 **Ksenia Merekalova, Tatiana Kharitonova, Robert Sandlerky** (Russia) - THE EFFECTS OF LAND USE CHANGE ON THE ECOSYSTEM FUNCTIONS OF WETLAND LANDSCAPES, [merekalova@yandex.ru](mailto:merekalova@yandex.ru) ; [kharito2010@gmail.com](mailto:kharito2010@gmail.com) ; [srobert\\_landy@mail.ru](mailto:srobert_landy@mail.ru)

15.30 **Valdo Kuusemets, Gen Mandre** (Tartu, Estonia) - THE SUSTAINABLE STORM WATER MANAGEMENT IN CHANGING CLIMATE CONDITIONS IN URBAN LANDSCAPES, [valdo.kuusemets@emu.ee](mailto:valdo.kuusemets@emu.ee) ; [gen.mandre@emu.ee](mailto:gen.mandre@emu.ee)

15.45 **Shahnaz Amanova, Antonio Camassa, Lorenza Fiumi, Lela Gadrani, Mirnuh Ismayilov, Mariam Tsitsaqi** (Baku, Azerbaijan; Rome, Italy; Rome, Italy; Georgia; Baku, Azerbaijan; Georgia) - GEOGRAPHY, POLITICS AND SOCIETY — THE URBAN PATH OF THREE HISTORIC CITIES: ROME, TBILISI, BAKU, [shahnaz.amanova@bk.ru](mailto:shahnaz.amanova@bk.ru) ; [antonio.camassa@cnr.it](mailto:antonio.camassa@cnr.it) ; [lorenza.fiumi@cnr.it](mailto:lorenza.fiumi@cnr.it) ; [lela.gadrani@maine.edu](mailto:lela.gadrani@maine.edu) ; [mirnuh.ismayilov@yahoo.com](mailto:mirnuh.ismayilov@yahoo.com) ; [mariam.tsitsaqi@tsu.ge](mailto:mariam.tsitsaqi@tsu.ge)

16.00 **Siiri Külm, Diana Pungar** (Tartu, Estonia) - EVALUATION OF ECOSYSTEM CONDITION AND SERVICES IN AGRICULTURAL LANDSCAPES, [siiri.kylm@gmail.com](mailto:siiri.kylm@gmail.com) ; [diana.pungar@student.emu.ee](mailto:diana.pungar@student.emu.ee)

16.15 **Mariam Elizbarashvili, Magda Tsintsadze, Tsezari Mshvenieradze, Elizbar Elizbarashvili** (Georgia) - ASSESSMENT OF REGCM4 SIMULATED ANNUAL AND SEASONAL AIR TEMPERATURE AND PRECIPITATION OVER GEORGIA, [Mariam.elizbarashvili@tsu.ge](mailto:Mariam.elizbarashvili@tsu.ge) ; [maqda.tsintsadze@tsu.ge](mailto:maqda.tsintsadze@tsu.ge) ; [tsezarimshvenieradze@gmail.com](mailto:tsezarimshvenieradze@gmail.com) ; [elizbar@hotmail.com](mailto:elizbar@hotmail.com)



16.30 **Mikheil Gogebashvili, Nazi Ivanishvili, Elene Salukvadze, Tiniko Kvashilava** (Georgia) - ECOSYSTEMS OF MOUNTAINOUS REGIONS OF GEORGIA PECULIARITIES OF RADIATION POLLUTION, [gogebashvili@gmail.com](mailto:gogebashvili@gmail.com) ; [nazikoivanishvili@gmail.com](mailto:nazikoivanishvili@gmail.com) ; [elene.salukvadze@tsu.ge](mailto:elene.salukvadze@tsu.ge) ; [kvashilavatitiko@gmail.com](mailto:kvashilavatitiko@gmail.com)

მიხეილ გოგებაშვილი, ნაზი ივანიშვილი, ელენე სალუქვაძე, თინიკო კვაშილავა.  
საქართველოს მთიანი რეგიონების ეკოსისტემების რადიაციული დაბინძურების თავისებურებანი.

16.45 **Merab Mgeladze, Antaz Kikava, Khatuna Chichileishvili, Rusudan Diasamidze** (Batumi, Georgia) - SOME PECULIARITIES OF SOIL FORMATION FACTORS AND SOIL GEOGRAPHY IN ADJARA, [merab.mgeladze@bsu.edu.ge](mailto:merab.mgeladze@bsu.edu.ge) ; [antaz.kikava@bsu.edu.ge](mailto:antaz.kikava@bsu.edu.ge) ; [chichileishvili.khatuna@bsu.edu.ge](mailto:chichileishvili.khatuna@bsu.edu.ge) ; [hidrometi@yahoo.com](mailto:hidrometi@yahoo.com)

მერაბ მგელაძე, ანთაზ ქიქავა, ხათუნა ჩიჩილეიშვილი, რუსუდან დიასამიძე. აჭარაში ნიადაგწარმომქმნელი ფაქტორების და ნიადაგების გეოგრაფიის ზოგიერთი თავისებურებანი

17.00 **Merab Putkaradze** (Batumi, Georgia) - GEOGRAPHICAL ORIGINALITIES OF POPULOUSNESS OF VILLAGE SETTLEMENTS IN ADJARIA, [merab.putkaradze@bsu.edu.ge](mailto:merab.putkaradze@bsu.edu.ge)

მერაბ ფუტკარაძე. სასოფლო დასახლებათა ხალხმრავლობის გეოგრაფიული თავისებურებები აჭარაში.

17.15 **Elena S. Zelepukina, Svetlana A. Gavrilkina** (St. Petersburg, Russia) - ANALYSIS OF THE HIGHLANDS LANDSCAPE STRUCTURE WITH THE MORPHOMETRIC RELIEF CHARACTERISTICS, [elezelepu@gmail.com](mailto:elezelepu@gmail.com) ; [svetilnic@mail.ru](mailto:svetilnic@mail.ru) **online**

Елена Зелепукина, Светлана Гаврилкина. АНАЛИЗ ЛАНДШАФТНОЙ СТРУКТУРЫ ВЫСОКОГОРИЙ НА ОСНОВЕ МОРФОМЕТРИЧЕСКИХ ХАРАКТЕРИСТИК РЕЛЬЕФА.

17.30 **Evgeny Korobkin** (Stavropol, Russia) - CLIMATE CHANGE IN THE CENTRAL CAUCASUS AND RELATED VECTORS OF TRANSFORMATION OF FAUNA AND ANIMAL POPULATIONS, [zheka11101@yandex.ru](mailto:zheka11101@yandex.ru)

Евгений Коробкин. ИЗМЕНЕНИЕ КЛИМАТА ЦЕНТРАЛЬНОГО ПРЕДКАВКАЗЬЯ И СВЯЗАННЫЕ С НИМ ВЕКТОРЫ ТРАНСФОРМАЦИИ ФАУНЫ И НАСЕЛЕНИЯ ЖИВОТНЫХ.

17.45 **Tsetsilia Donadze, Giorgi Dvalashvili, Teona Tigishvili, Zurab Rikadze** (Tbilisi, Georgia) – SIGHTS OF GEORGIAN NATURE ON THE EXAMPLE AUTONOMOUS REPUBLIC OF ABKHAZIA, [tsetsilia.donadze@tsu.ge](mailto:tsetsilia.donadze@tsu.ge) ; [giorgi.dvalashvili@tsu.ge](mailto:giorgi.dvalashvili@tsu.ge) ; [Zurarikadze@gmail.com](mailto:Zurarikadze@gmail.com)

18.00 **Nino Kiknadze, Nani Palavandishvili, Gultamze Tavdgiridze** (Batumi, Georgia) - SOME BIOECOLOGICAL ISSUES OF RAPANA THOMASIANA GROSSE (MOLLUSCA, GASTROPODA) FOUND IN THE BLACK SEA COAST OF GEORGIA, [nino.kiknadze@bsu.edu.ge](mailto:nino.kiknadze@bsu.edu.ge) ; [naniko-75@mail.ru](mailto:naniko-75@mail.ru) ; [gultamze.tavdgiridze@bsu.edu.ge](mailto:gultamze.tavdgiridze@bsu.edu.ge)

ნინო კიკნაძე, ნანი ფალავანდიშვილი, გულთამაშე თავდგირიძე. შავი ზღვის საქართველოს სანაპირო ზოლში გავრცელებული რაპანას RAPANA THOMASIANA GROSSE (MOLLUSCA, GASTROPODA) ზოგიერთი ბიოეკოლოგიის საკითხები.

**19.00-21.00 – Gala Dinner**

**SEPTEMBER, 13**

## Sectional Meetings

*(Sections operate simultaneously 10.00 – 18.00)*

### **SECTION 1. LANDSCAPE SCIENCE AND LANDSCAPE PLANNING**

*(Tbilisi State University, Auditorium 115, Building #1, First floor)*

**Chairman: Robert Maghlakelidze** *(report time-limit 15 min.)*

10.30 **Zurab Seperteladze, Eter Davitaia, Tamar Aleksidze, Nino Rukhadze** (Tbilisi, Georgia) – IDENTIFICATION OF RATIONAL LAYOUT AND POTENTIAL OPPORTUNITIES FOR AGRICULTURAL PRODUCTION OF CITRUS GROPS IN WESTERN GEORGIA BASED ON LANDSCAPE-MULTIFACTORIAL APPROACH, [zurab.seperteladze@tsu.ge](mailto:zurab.seperteladze@tsu.ge) ; [eter.davitaia@tsu.ge](mailto:eter.davitaia@tsu.ge) ; [tamar.aleksidze@tsu.ge](mailto:tamar.aleksidze@tsu.ge) ; [nino.ruxadze@tsu.ge](mailto:nino.ruxadze@tsu.ge)

ზურაბ სეფერთელაძე, ეთერ დავითაია, თამარ ალექსიძე, ნინო რუხაძე. დასავლეთ საქართველოს ციტრუსოვან კულტურათა რაციონალური განლაგებისა და აგროპროდუქტულობის პოტენციურ შესაძლებლობათა გამოვლენა ლანდშაფტურ – მრავალფაქტორული მიდგომის საფუძველზე.

10.45 **Alexey Gunya, Natalia Amburtseva** (Saint Petersburg, Russia) - CONCEPTS AND IDEAS OF PROFESSOR N.L. BERUCHASHVILI IN CURRENT GEOGRAPHY, [a.n.gunya@igras.ru](mailto:a.n.gunya@igras.ru) ; [ani@iacis.ru](mailto:ani@iacis.ru)  
Алексей Гуня, Наталья Амбурцева - КОНЦЕПЦИИ И ИДЕИ ПРОФЕССОРА Н.Л. БЕРУЧАШВИЛИ В СОВРЕМЕННОЙ ГЕОГРАФИИ

11.00 **Yury Gulyanov, Sergei Levykin, Alexander Chibilev, Grigory Kazachkov** (Russia) - INNOVATIVE PRINCIPLES OF AGROECOLOGICAL AND TECHNOLOGICAL EXPERTISE OF THE DEVELOPMENT AND ADAPTABILITY OF STEPPE LAND USE FOR AGRO-ARRANGEMENT OF THE POST-VIRGIN SPACE, [orensteppe@mail.ru](mailto:orensteppe@mail.ru) ; [stepevedy@yandex.ru](mailto:stepevedy@yandex.ru) **online**

Юрий Гулянов, Сергей Левыкин, Александр Чибилёв, Григорий Казачков. НОВАЦИОННЫЕ ПРИНЦИПЫ АГРОЭКОЛОГИЧЕСКОЙ И ТЕХНОЛОГИЧЕСКОЙ ЭКСПЕРТИЗЫ УРОВНЯ РАЗВИТИЯ АДАПТИВНОСТИ СТЕПНОГО ЗЕМЛЕПОЛЬЗОВАНИЯ ДЛЯ АГРООБУСТРОЙСТВА ПОСТЦЕЛИННОГО ПРОСТРАНСТВА.

11.15 **Robert Maghlakelidze, Giorgi Maghlakelidze** (Tbilisi, Georgia) - SOME ISSUES OF SPATIAL IDENTIFICATION, ESTABLISHING OF HIERARCHY, SEPARATION AND MAPPING OF CULTURAL NATURAL TERRITORIAL COMPLEXES, ON THE EXAMPLE OF THE FOOTHILLS OF THE SAGURAMO-YALON RANGE, [robertmaghlakelidze@yahoo.com](mailto:robertmaghlakelidze@yahoo.com) ; [giorgimg@yahoo.com](mailto:giorgimg@yahoo.com)

რობერტ მაღლაკელიძე, გიორგი მაღლაკელიძე. კულტურული ბუნებრივ-ტერიტორიული კომპლექსების სივრცობრივი იდენტიფიკაციის, იერარქიის დადგენის, გამოყოფის და კარტოგრაფირების ზოგიერთი საკითხი, საგურამო-იალონის ქედის მთისწინების ლანდშაფტების მაგალითზე.

11.30 **Giorgi Meladze** (Georgia) - POPULATION AGING IN GEORGIA. PAST, PRESENT, FUTURE, [giorgi.meladze@tsu.ge](mailto:giorgi.meladze@tsu.ge)

გიორგი მელაძე. მოსახლეობის დაბერება საქართველოში. წარსული, აწმყო, მომავალი.

11.45 **Alexander Evseev, Tatiana Krasovskaya** (Russia) - VARIABLE SPECTRA OF GREEN INFRASTRUCTURE PRIORITY ECOSYSTEM SERVICES IN URBANIZED TERRITORIES, [avevseev@yandex.ru](mailto:avevseev@yandex.ru); [krasovsktex@yandex.ru](mailto:krasovsktex@yandex.ru) **online**

12.00 **Alexander Evseev, Tatiana Krasovskaya** (Moscow, Russia) - PERCEPTION OF LANDSCAPES IN GEOECOLOGICAL RESEARCH, [avevseev@yandex.ru](mailto:avevseev@yandex.ru) , [krasovsktex@yandex.ru](mailto:krasovsktex@yandex.ru) **online**



12.15 **Alina Paranina, Roman Paranin** (Saint-Petersburg, Russia) - PREHISTORIC MONUMENTS OF CULTURE AS OBJECTS OF INTEGRATED GEOGRAPHIC RESEARCH, [galina\\_paranina@mail.ru](mailto:galina_paranina@mail.ru) ; [paranin.roman@yandex.ru](mailto:paranin.roman@yandex.ru) **online**

Алина Паранина, Роман Паранин. ДИСТОРИЧЕСКИЕ ПАМЯТНИКИ КУЛЬТУРЫ КАК ОБЪЕКТЫ КОМПЛЕКСНЫХ ГЕОГРАФИЧЕСКИХ ИССЛЕДОВАНИЙ.

12.30 **Sima Dayan, Viktorya Knyazyan** (Armenia) - THE ROLE OF GEOECOLOGICAL KNOWLEDGE IN THE PROTECTION OF GREEN TERRITORIES OF YEREVAN CITY, [dayan.sima@mail.ru](mailto:dayan.sima@mail.ru) **online**

12.45 **Sima Dayan, Tamara Khachatryan** (Armenia) - ENVIRONMENTAL ISSUES OF HRAZDAN GORGE WITHIN THE CITY OF YEREVAN IN THE CONTEXT OF LANDSCAPE PLANNING, [dayan.sima@mail.ru](mailto:dayan.sima@mail.ru) **online**

### Coffee Break 13.00 – 14.00

14.00 **Dmitry V. Chernykh, Aleksander Pechkin** (Barnaul, Russia; Salekhard, Russia) – PLAKORS AND PLAKOR-LIKE LOCATIONS IN THE LANDSCAPES OF THE WEST SIBERIAN SUBARCTIC AND THE HIGH MOUNTAINS OF THE RUSSIAN ALTAI, [chernykhd@mail.ru](mailto:chernykhd@mail.ru) ; [a.pechkin.ncia@gmail.com](mailto:a.pechkin.ncia@gmail.com) **online**

14.15 **Liliya Lubenets, Dmitry Pershin** (Moscow, Russia) EVALUATION OF REPRESENTATIVENESS OF SNOW ACCUMULATION WITHIN LANDSCAPE UNITS RELATIVE TO CATCHMENT MEAN IN THE MAYMA RIVER BASIN (NORTHERN ALTAI, RUSSIA), [lilia\\_lubenets@mail.ru](mailto:lilia_lubenets@mail.ru) ; [dmitrypersh@gmail.com](mailto:dmitrypersh@gmail.com) **online**

14.30 **Oksana V. Yantser, Natalia V. Skok, Yulia R. Ivanova , Anastasia M. Yurovskikh** (Ekaterinburg, Russia) - INDICATION OF REGIONAL CLIMATIC CHANGES BY PHENOLOGICAL METHODS, [ksenia\\_yantser@bk.ru](mailto:ksenia_yantser@bk.ru) ; [skok-nv-gbf@mail.ru](mailto:skok-nv-gbf@mail.ru) ; [miss.nocentra@list.ru](mailto:miss.nocentra@list.ru) ; [an.m.evd@mail.ru](mailto:an.m.evd@mail.ru)

Оксана Янцер, Наталия Скок, Юлия Иванова, Анастасия Юровских. ИНДИКАЦИЯ РЕГИОНАЛЬНЫХ КЛИМАТИЧЕСКИХ ИЗМЕНЕНИЙ ФЕНОЛОГИЧЕСКИМИ МЕТОДАМИ. **Online**

14.45 **Marika Tatishvili, Ana Palavandishvili** (Georgia) - TRIGGERING FACTORS OF DANGEROUS HYDROMETEOROLOGICAL EVENTS, [m.tatishvili@qtu.ge](mailto:m.tatishvili@qtu.ge) ; [an.palavandishvili@gmail.com](mailto:an.palavandishvili@gmail.com)

15.00 **Valeriya Ovcharuk, Halyna Borovska, Liliia Kushchenko** (Odessa, Ukraine) - STUDY OF NON-RAINFALL PERIODS AT THE RIVER BASINS OF THE SOUTH OF UKRAINE UNDER MODERN CLIMATE CHANGES, [valeriya.ovcharuk@gmail.com](mailto:valeriya.ovcharuk@gmail.com) ; [bqa6319@gmail.com](mailto:bqa6319@gmail.com) ; [liliakushchenko@gmail.com](mailto:liliakushchenko@gmail.com) **online**

15.15 **Maryna Goptsiy, Valeriya Ovcharuk** (Odessa, Ukraine) - ASSESSMENT OF THE CURRENT STATE OF WATER RESOURCES IN TRANSCARPATIA, [goptsiy-odeky@ukr.net](mailto:goptsiy-odeky@ukr.net) ; [valeriya.ovcharuk@gmail.com](mailto:valeriya.ovcharuk@gmail.com) **online**

15.30 **Rusudan Tevzadze** (Georgia) - SOCIAL-ECONOMIC AND POLITICAL ASPECTS OF REGIONALISM IN GEORGIA, [ruskatevzadze@yahoo.com](mailto:ruskatevzadze@yahoo.com)

რუსუდანი თევზაძე. რეგიონალიზმის სოციალურ-ეკონომიკური და პოლიტიკური ასპექტები საქართველოში.

15.45 **Dr.Bhanwar Vishvendra Raj Singh, Prof. Anjan Sen, Ass. Prof. Ritika Prasad, Ravi Mishra** (Udaipur, India) - NATURE-BASED PRACTICES OF TIGER TOURISM FOR SUSTAINABLE LOCAL DEVELOPMENT OF RANTHAMBHORE, RAJASTHAN, INDIA, [bhanwarsa28@gmail.com](mailto:bhanwarsa28@gmail.com) ; [dr.anjansen@gmail.com](mailto:dr.anjansen@gmail.com) ; [Prasad.ritika24@gmail.com](mailto:Prasad.ritika24@gmail.com) [surya19975may@gmail.com](mailto:surya19975may@gmail.com) **online**

**SECTION 2. CARTOGRAPHY AND GIS** (*Tbilisi State University, Auditorium 107, Building #1, First floor*)

**Chairman: Associate Prof. Tengiz Gordeziani** (*report time-limit 15 min.*)

10.30 **Zurab Laoshvili, Tengiz Gordeziani, Ana Iremashvili, Lado Grigolia, Marika Narsia** (Georgia) - GEOTECTONIC STRUCTURES OF GEORGIA AND NATURAL/ANTHROPOGENIC PROCESSES, [laoshvilizura@gmail.com](mailto:laoshvilizura@gmail.com), [tengiz.gordeziani@tsu.ge](mailto:tengiz.gordeziani@tsu.ge), [airemashvili89@gmail.com](mailto:airemashvili89@gmail.com), [ladoqrigolia2@gmail.com](mailto:ladoqrigolia2@gmail.com), [mariamnarsia190692@gmail.com](mailto:mariamnarsia190692@gmail.com)

ზურაბ ლაოშვილი, თენგიზ გორდეზიანი, ანა ირემაშვილი ლადო გრიგოლია, მარიკა ნარსია. საქართველოს გეოტექტონიკური სტრუქტურები და ბუნებრივ/ანთროპოგენური პროცესები.

10.45 **Vladimir Dekhnich, Natalia Kalutskova, Elina Lozbeneva** (Kazakhstan branch of Moscow State University, Nur-Sultan, Kazakhstan) - RECREATIONAL ROUTES PLANING AUTOMATISATION USING ULTRA HIGH RESOLUTION DATA, [vodo.ast@gmail.com](mailto:vodo.ast@gmail.com); [nat\\_nnk@mail.ru](mailto:nat_nnk@mail.ru); [elina7-sheremet@mail.ru](mailto:elina7-sheremet@mail.ru) **online**

Владимир Дехнич, Наталия Калутскова, Элина Лозбенева. АВТОМАТИЗАЦИЯ ПЛАНИРОВАНИЯ РЕКРЕАЦИОННЫХ МАРШРУТОВ С ПРИМЕНЕНИЕМ ДАННЫХ СВЕРХВЫСОКОГО РАЗРЕШЕНИЯ.

11.00 **Igor Chervanyov, Olena Sinna, Nataliia Popovych, Oksana Zaliubovska, Alina Ovcharenko** (Kharkiv, Ukraine) - THE EXPERIENCE AND PROSPECTS OF LANDSCAPE MAPPING OF DVORICHANSKYI NATIONAL NATURE PARK (KHARKIV REGION, UKRAINE), [chervanyov@ukr.net](mailto:chervanyov@ukr.net); [o.sinna@karazin.ua](mailto:o.sinna@karazin.ua); [n.popovych@physgeo.com](mailto:n.popovych@physgeo.com); [bodnia@ukr.net](mailto:bodnia@ukr.net); [alina\\_06ov@ukr.net](mailto:alina_06ov@ukr.net) **online**

11.15 **Tedo Gorgodze** (Georgia) - SOME METHODOLOGICAL ISSUES OF COMPLEX MAPPING OF URBAN SYSTEMS, [tedo.gorgodze@gmail.com](mailto:tedo.gorgodze@gmail.com)

თედო გორგოძე. ურბანული სისტემების კომპლექსური კარტოგრაფირების ზოგიერთი მეთოდური საკითხი.

11.30 **Ashot Khoetsyan, Tigran Babayan** (Armenia) - METHODOLOGY FOR TEACHING THE COURSE "GEOGRAPHY" USING GIS TECHNOLOGIES IN A PEDAGOGICAL UNIVERSITY, [tigranmap@yahoo.com](mailto:tigranmap@yahoo.com)

11.45 **Vadim Karavaev, Anatoly Gorbunov, Sergey Seminozhenko** (Russia) - WEAK EARTHQUAKES AS A FACTOR OF MANIFESTATION OF EXTREME EXOGENOUS PROCESSES IN THE MOUNTAINS OF THE CENTRAL CAUCASUS, [karavaev@igras.ru](mailto:karavaev@igras.ru); [gorbunov.ol@mail.ru](mailto:gorbunov.ol@mail.ru); [grey\\_wolf.88@mail.ru](mailto:grey_wolf.88@mail.ru)

Вадим Караваев, Сергей Семиноженко, Анатолий Горбунов. СЛАБЫЕ ЗЕМЛЕТРЯСЕНИЯ КАК ФАКТОР ПРОЯВЛЕНИЯ ЭКСТРЕМАЛЬНЫХ ЭКЗОГЕННЫХ ПРОЦЕССОВ В ГОРАХ ЦЕНТРАЛЬНОГО КАВКАЗА. **online**

12.00 **Ramaz Kiladze, Eter Benidze, Iza Ochkhikidze** (Batumi, Georgia) - GREEN CONSTRUCTION - CHALLENGES, SOLUTIONS, [ramaz.kiladze@gmail.com](mailto:ramaz.kiladze@gmail.com); [eter.benidze@atsu.edu.ge](mailto:eter.benidze@atsu.edu.ge); [iza.ochkhikidze@mail.ru](mailto:iza.ochkhikidze@mail.ru) **online**

რამაზ კილაძე, ეთერ ბენიძე, იზა ოჩხიკიძე. მწვანე მშენებლობა - გამოწვევები, გადაჭრის გზები.

12.15 **Davit Kiladze** (Kutaisi, Georgia) - GREENING OF AGRO-TOURIST FACILITIES-PECULIARITIES OF DEVELOPMENT, PERSPECTIVES, [kiladzedaviti@gmail.com](mailto:kiladzedaviti@gmail.com)

დავით კილაძე. აგროტურისტული ობიექტების გამწვანება-განაშენიანების თავისებურებები, პერსპექტივები.

12.30 **Giorgi Lominadze, Merab Gongadze, Giorgi Kavlashvili** (Georgia) - MODELING OF MUDFLOW PROCESSES AND RESEARCH OF RELIEF TRANSFORMATION IN DGHVIORA RIVER BASIN (ZEMO RACHA), [g\\_lomin@hotmail.com](mailto:g_lomin@hotmail.com)

გიორგი ლომინაძე, მერაბ გონგაძე, გიორგი ყავლაშვილი. ღვარცოფული პროცესების მოდელირება და რელიეფის ტრანსფორმაციის კვლევა მდინარე დღვიორას აუზში (ზემო რაჭა).

12.45 **Avtandil Amiranashvili** (Georgia) - VARIABILITY OF THE AVERAGE ANNUAL AIR TEMPERATURE IN TBILISI AGAINST THE BACKGROUND OF GLOBAL WARMING IN 1880-2021, [avtandilamiranashvili@gmail.com](mailto:avtandilamiranashvili@gmail.com)

### Coffee Break 13.00 – 14.00

14.00 **Sophie Gorgijanidze, Gocha Jincharadze** (Georgia) - GEOGRAPHY OF CATASTROPHIC FLOODS RELATED TO RIVER DISTURBANCES IN RACHA-LECHKHUMI AND LOWER SVANETI, [sophiogorgijanidze@gmail.com](mailto:sophiogorgijanidze@gmail.com) ; [jincharadzegocha@yahoo.com](mailto:jincharadzegocha@yahoo.com) **online**

სოფიო გორგიჯანიძე, გოჩა ჯინჭარაძე. მდინარეთა ჩახერგვებთან დაკავშირებული კატასტროფულ წყალმოვარდნათა გეოგრაფია რაჭა-ლეჩხუმსა და ქვემო სვანეთში.

14.15 **Victor Chikhladze, Avtandil Amiranashvili, George Gelovani, Khatia Tavidashvili, Lamzira Laghidze, Nino Jamrishvili** (Georgia) - ASSESSMENT OF THE DESTRUCTIVE POWER OF A TORNADO ON THE TERRITORY OF THE POTI TERMINAL ON SEPTEMBER 25, 2021, [vicachikh@gmail.com](mailto:vicachikh@gmail.com) ; [avtandilamiranashvili@gmail.com](mailto:avtandilamiranashvili@gmail.com) ; [g\\_gelovani@list.ru](mailto:g_gelovani@list.ru) ; [xatiatavidashvili@gmail.com](mailto:xatiatavidashvili@gmail.com) ; [lamzira.laghidze@tsu.ge](mailto:lamzira.laghidze@tsu.ge) ; [jamrishvili@mail.ru](mailto:jamrishvili@mail.ru)

ვიქტორ ჩიხლაძე, ავთანდილ ამირანაშვილი, გიორგი გელოვანი, ხატია თავიდაშვილი, ლამზირა ლაღიძე, ნინო ჯამრიშვილი. ქარბორბალას დამანგრეველი ძალის შეფასება ფოთის ტერმინალის ტერიტორიაზე 2021 წლის 25 სექტემბრის.

14.30 **Teimuraz Bliadze, Avtandil Aniranashvili, Marina Chkhitunidze, Lamzira Laghidze** (Georgia) - STATISTICAL ANALYSIS OF ANGSTROM FIRE INDEX FOR KUTAISI, GEORGIA, [teimuraz.bliadze@gmail.com](mailto:teimuraz.bliadze@gmail.com) ; [avtandilamiranashvili@gmail.com](mailto:avtandilamiranashvili@gmail.com) ; [marina\\_chkhitunidze@yahoo.com](mailto:marina_chkhitunidze@yahoo.com) ; [lamzira.laghidze@tsu.ge](mailto:lamzira.laghidze@tsu.ge)

14.45 **Nadiya Maksymenko** (Ukraine) - PROSPECTS FOR THE DEVELOPMENT OF LANDSCAPE AND ECOLOGICAL PLANNING OF TERRITORIES OF DIFFERENT FUNCTIONAL PURPOSES (SYNTHESIZED MAP OF NATURE MANAGEMENT OPTIMIZATION) [maksymenko@karazin.ua](mailto:maksymenko@karazin.ua) **online**

15.00 **Svitlana Iurchenko, Olena Iurchenko** (Kharkiv, Ukraine) - TOURISM IN ALBANIA: CURRENT STATE AND PROSPECTS OF DEVELOPMENT, [svetlana.y1954@gmail.com](mailto:svetlana.y1954@gmail.com) ; [el-tour@hotmail.com](mailto:el-tour@hotmail.com) **online**

15.15 **Nazibrola Beglarashvili, Sophie Gorgijanidze, Natela Kobakhidze, Mikheil Pipia, Victor Chikhladze, Inga Janelidze, Gocha Jincharadze** (Georgia) - HEAVY SNOW AND AVALANCHES ON THE TERRITORY OF GEORGIA IN 2014-2018, [beqlarashvilinani@yahoo.com](mailto:beqlarashvilinani@yahoo.com) ; [m.pipia@qtu.ge](mailto:m.pipia@qtu.ge) ; [ingajanelidze9@gmail.com](mailto:ingajanelidze9@gmail.com) ; [jincharadzegocha@yahoo.com](mailto:jincharadzegocha@yahoo.com)

ნაზიბროლა ბეგლარაშვილი, სოფიო გორგიჯანიძე, ნათელა კობახიძე, მიხეილ ფიფია, ვიქტორ ჩიხლაძე, ინგა ჯანელიძე, გოჩა ჯინჭარაძე. დიდთოვლობა და ზვავები საქართველოს ტერიტორიაზე 2014-2018 წწ.

15.30 **Mariam Tsitsagi, Marika Tatishvili, Zaza Gulashvili** (Georgia) - CORRELATION OF DROUGHT INDICES FOR DIFFERENT CLIMATE CONDITION IN GEORGIA, [mariam.tsitsaqi@tsu.ge](mailto:mariam.tsitsaqi@tsu.ge) ; [m.tatishvili@qtu.ge](mailto:m.tatishvili@qtu.ge) ; [zaza.gulashvili@tsu.ge](mailto:zaza.gulashvili@tsu.ge)

15.30 **Neli Jamaspashvili** (Georgia) - THE CONCEPT OF "PROTECTED LANDSCAPE" AND STRATEGY OF ITS USE ON THE EXAMPLE OF THE FOOTHILLS OF THE TRIALETI RIDGE, [neli.jamaspashvili@tsu.ge](mailto:neli.jamaspashvili@tsu.ge)

ნელი ჯამასპაშვილი. ПОНЯТИЕ "ОХРАНЯЕМОГО ЛАНДШАФТА" И СТРАТЕГИЯ ЕГО ИСПОЛЬЗОВАНИЯ НА ПРИМЕРЕ ПРЕДГОРИЙ ТРИАЛЕТСКОГО ХРЕБТА.

**SECTION 3. ENVIRONMENT MANAGEMENT** (*Tbilisi State University, Assembly Hall vestibule, Building #1, Second floor*)

**Chairman: Prof. Melor Alphenidze** (*report time-limit 15 min.*)

10.30 **Melor Alphenidze** (Georgia) - PROBLEMS OF REGULATING THE SHORES OF THE BLACK SEA, [Melor07@Mail.ru](mailto:Melor07@Mail.ru)

მელორ ალფენიძე. შავი ზღვის ნაპირების რეგულირების პრობლემები.

10.45 **Viachevlav Oleshchenko** (Ukraine) - NATURAL DIVERSITY PROTECTION: GEOGRAPHY, LAW AND WAR – NEW CHALLENGES [online](#)

11.00 **Petro Shyshchenko, Olena Havrylenko, Nella Munich** (Kyiv, Ukraine) - APPLIED COMPONENT OF GEOECOLOGICAL EDUCATION, [petro.geogr@gmail.com](mailto:petro.geogr@gmail.com), [olena.geo@gmail.com](mailto:olena.geo@gmail.com), [nella15munich@gmail.com](mailto:nella15munich@gmail.com) [online](#)

11.15 **Maia Meladze, Giorgi Meladze** (Georgia) - ASSESSMENT OF AGROCLIMATIC POTENTIAL OF THE EASTERN HIGHLAND REGIONS OF GEORGIA, [m.meladze@gtu.ge](mailto:m.meladze@gtu.ge) ;

[meladze.agromet@gmail.com](mailto:meladze.agromet@gmail.com)

მაია მელაძე, გიორგი მელაძე. საქართველოს აღმოსავლეთ მაღალმთიანი რეგიონების აგროკლიმატური პოტენციალის შეფასება.

11.30 **Irina Kuchinskaya, Elina Karimova** (Baku, Azerbaijan) - BELLIGERATIVE LANDSCAPES OF THE EASTERN PART OF THE LESSER CAUCASUS AND FEATURES OF THEIR RESTORATION,

[irina.danula@gmail.com](mailto:irina.danula@gmail.com), [bakinskiy.breeze@gmail.com](mailto:bakinskiy.breeze@gmail.com) [online](#)

11.45 **Yuriy Padalko, Alexander Chibilev** (Russia) - PROBLEMS OF THE WATER-MANAGEMENT COMPLEX OF THE AGRICULTURAL POST-PIRE LINE REGIONS OF THE URALS AND SIBERIA SUBREGIONS, [yapadalko@gmail.com](mailto:yapadalko@gmail.com) ; [orensteppe@mail.ru](mailto:orensteppe@mail.ru)

Юрий Падалко, Александр Чибилёв. ПРОБЛЕМЫ ВОДОХОЗЯЙСТВЕННОГО КОМПЛЕКСА ЗЕМЛЕДЕЛЬЧЕСКИХ ПОСТЦЕЛИННЫХ РЕГИОНОВ УРАЛА И СИБИРИ. [online](#)

12.00 **Liana Kartvelishvili, Bondo Panchvidze, Mariam Khetsuriani, Gvanca Qotolashvili** (Georgia) - PROSPECTS FOR THE DEVELOPMENT OF REGIONAL TOURISM IN THE CONTEXT OF CLIMATE CHANGE, [lianakartvelishvili@yahoo.com](mailto:lianakartvelishvili@yahoo.com) ; [bondo.panchvidze648@ens.tsu.edu.ge](mailto:bondo.panchvidze648@ens.tsu.edu.ge) ; [mariamxecuriani3@gmail.com](mailto:mariamxecuriani3@gmail.com) ; [gvancaqotolashvili24@gmail.com](mailto:gvancaqotolashvili24@gmail.com)

ლიანა ქართველიშვილი, ბონდო ფანჩვიძე, მარიამ ხეცურიანი, გვანცა ჟოთოლაშვილი. რეგიონული ტურიზმის განვითარების პერსპექტივები კლიმატის ცვლილების ფონზე.

12.15 **Vitaly A. Kryukov** (Russia) - GREEN INFRASTRUCTURE AND ITS PLACE IN URBAN ENVIRONMENT: OPINION POLLS, [vitkryukov@gmail.com](mailto:vitkryukov@gmail.com) [online](#)

12.30 **Nino Kiknadze, Nani Gvarishvili, Gultamze Tavdgiridze** (Batumi, Georgia) - STUDY OF THE MODERN ECOLOGICAL CONDITION OF THE NATURAL LANDSCAPE OF THE AREA AROUND SHUAKHEVI HPP AND ASSESSMENT OF SOIL FERTILITY, [nino.kiknadze@bsu.edu.ge](mailto:nino.kiknadze@bsu.edu.ge) ;

[Gvarishvili.nana@bsu.edu.ge](mailto:Gvarishvili.nana@bsu.edu.ge) ; [gultamze.tavdgiridze@bsu.edu.ge](mailto:gultamze.tavdgiridze@bsu.edu.ge) [online](#)

ნინო კიკნაძე, ნანი გვარიშვილი, გულთამაზე თავდგირიძე. შუახევჰესის მიმდებარე ტერიტორიის ბუნებრივი ლანდშაფტის თანამედროვე ეკოლოგიური მდგომარეობის შესწავლა და ნიადაგის ნაყოფიერების დონის შეფასება.

12.45 **Iryna Schastnaya, Dzmitry Varabyou** (Minsk, Belarus) - ASSESSMENT OF ECOSYSTEM SERVICES OF VEGETATION COVER URBOLANDSCAPES OF THE CITY OF BABRUJSK (BELARUS), [irina.schastnaya@gmail.com](mailto:irina.schastnaya@gmail.com) ; [dzm.varabyou@gmail.com](mailto:dzm.varabyou@gmail.com) **online**

### Coffee Break 13.00 – 14.00

14.00 **Irina Volkova** (Kharkiv, Ukraine) - TRANSCARPATHIA - IS ONE OF THE MAIN REGIONS OF UKRAINE IN THE DEVELOPMENT OF HEALTH AND HEALTH TOURISM, [volkova@karazin.ua](mailto:volkova@karazin.ua)  
Ирина Волкова. ЗАКАРПАТЬЕ - ОДИН ИЗ ГЛАВНЫХ РЕГИОНОВ УКРАИНЫ В РАЗВИТИИ ЛЕЧЕБНО-ОЗДОРОВИТЕЛЬНОГО ТУРИЗМА. **online**

14.15 **Valery Petlin** (Lutsk, Ukraine) - MECHANISMS OF STABILITY FORMATION IN NATURAL LANDSCAPE SYSTEMS, [V\\_petlin@ukr.net](mailto:V_petlin@ukr.net) **online**

14.30 **Sergey Kozlov** (Russia) - CHANGES IN THE PHYSICAL AND GEOGRAPHICAL CONDITIONS OF WESTERN COLCHIS AND LAKE PALIASTOMI DURING THE HOLOCENE, [kozlov\\_sm@bk.ru](mailto:kozlov_sm@bk.ru)  
Сергей Козлов. ИЗМЕНЕНИЯ ФИЗИКО-ГЕОГРАФИЧЕСКИХ УСЛОВИЙ ЗАПАДНОЙ КОЛХИДЫ И ОЗЕРА ПАЛЕОСТОМИ В ГОЛОЦЕНЕ. **online**

14.45 **Natalia Danilova, Dmytro Borshchuk, Olexander Bondar** (Odessa, Ukraine) - ANTHROPOGENIC LANDSCAPES ECOSYSTEMS: PROBLEMS OF THE AGRICULTURAL LANDSCAPE OF PODILLYA, [nataliadanilova0212@gmail.com](mailto:nataliadanilova0212@gmail.com) ; [dimonator1012@gmail.com](mailto:dimonator1012@gmail.com) ; [sasab5772@gmail.com](mailto:sasab5772@gmail.com) **online**

15.00 **Sergey Kozlov, Aleksey Medvedkov** (Russia) - CALCULATION OF CHANGES IN ATMOSPHERIC CIRCULATION AS PART OF GEOECOLOGICAL MODELING USING THE EXAMPLE OF THE YENISEY REGION OF SIBERIA FOR 2015-2020, [kozlov\\_sm@bk.ru](mailto:kozlov_sm@bk.ru) ; [a-medvedkov@bk.ru](mailto:a-medvedkov@bk.ru) **online**  
Сергей Козлов, Алексей Медведков. РАСЧЕТ ИЗМЕНЕНИЯ АТМОСФЕРНОЙ ЦИРКУЛЯЦИИ КАК СОСТАВЛЯЮЩАЯ ГЕОЭКОЛОГИЧЕСКОГО МОДЕЛИРОВАНИЯ НА ПРИМЕРЕ РЕГИОНА ПРИЕНИСЕЙСКОЙ СИБИРИ ЗА 2015-2020 ГОДЫ.

15.15 **Natalia Danilova, Maria Martynova, Daria Zagorevska**. (Odessa, Ukraine) - LAND MANAGEMENT IN THE CONDITIONS OF SOIL EROSION MANAGEMENT IN ODESSA REGION, **online**  
[nataliadanilova0212@gmail.com](mailto:nataliadanilova0212@gmail.com); [praskoviamartynova@gmail.com](mailto:praskoviamartynova@gmail.com) ; [zagorevskayadaria@gmail.com](mailto:zagorevskayadaria@gmail.com)

15.30 **Oksana Volvach, Valeriya Kolosovska**. (Odessa, Ukraine) - ASSESSMENT OF AGRO-CLIMATIC CONDITIONS FOR THE CREATION OF BIOENERGY PLANTATIONS OF WILLOW IN THE POLISSYA REGIONS OF UKRAINE IN THE CONTEXT OF CLIMATE CHANGE, [volvach.oksana@ukr.net](mailto:volvach.oksana@ukr.net) ; [v.kolosv@ukr.net](mailto:v.kolosv@ukr.net) **online**

15.45 **Svitlana Iurchenko, Olena Iurchenko**. (Kharkiv, Ukraine) - TOURISM IN ALBANIA: CURRENT STATE AND PROSPECTS OF DEVELOPMENT, [svetlana.y1954@gmail.com](mailto:svetlana.y1954@gmail.com) ; [el-tour@hotmail.com](mailto:el-tour@hotmail.com) **online**

### 16.00 – 17.00 Round Table and Discussion of the Conference Results

*Tbilisi State University, Conference hall named after Ivane Javakhishvili  
(107 auditorium), Building #1, First floor*

# Excursion

## September, 14-15-16

### Tour Leaders:

*Assoc. Prof. Tengiz Gordeziani,*

*Ass. Prof. Giorgi Dvalashvili*

### September 14: 09.00

1. Meeting of the excursion participants at the first building of Tbilisi State University and departure to western Georgia, Racha.
2. Passage through the ancient capital of Georgia Mtskheta (Svetitskhoveli temple and Jvari monastery).
3. Road to western Georgia, the city of Gori (acquaintance with the museum of I.V. Stalin),
4. Then City of Khashuri, the Rikoti pass, the city of Zestaponi, the city of Terjola, the city of Tkibuli,
4. Shaori reservoir (lecture by Prof. T. Gordeziani on the Shaori basin),
5. Temple of Nikortsminda, cave "Glacier", Ambrolauri.
6. Settled in a hotel in Ambrolauri, dinner, round table "problems of modern geography and research by prof. N. Beruchashvili".

### September 15: 09.00

1. Breakfast at the hotel.
2. Acquaintance with a mini wine factory in the village Bostana (lecture by Kakha Gordeziani on viticulture in Racha and about production of Khvanchkara wine)
3. Church of St. Nicholas in the village Chreballo;
4. Pillars of Sairme;
5. River gorge Shareula;
6. City Oni (Synagogue, Museum of Local Lore, which is located in the house of N. Beruchashvili's ancestors);
7. Resort Utsera;
8. Resort Shovi;
9. Upper reaches of the river Rioni (village Gebi).
10. Return to the hotel in Ambrolauri and dinner.

### September 16: 09.00

1. Breakfast at the hotel.
2. Departure from Ambrolauri towards Oni
3. Trip along the new road through village Shkmeri and city Sachkhere.
4. Familiarization with the house-museum of Akaki Tsereteli in the village Savane.
5. Acquaintance with the "Modi Nakhe" fortress.
6. Return to city Tbilisi.

Address of the Conference: Georgia, Tbilisi, I.Chavchavadze Ave. #1, Ivane Javakhishvili Tbilisi State University, Building #1.

Contact person: Neli Jamaspashvili, tel. +995 599 517409; Tengiz Gordeziani, tel. +995 571 235083