

DEBRIS FLOWS: DISASTERS, RISK, FORECAST, PROTECTION

5th International Conference. Tbilisi, Georgia, 1-5 October 2018

СЕЛЕВЫЕ ПОТОКИ: КАТАСТРОНЫ, РИСК, ПРОГНОЗ, ЗАЩИТА

5-я международная конференция. Тбилиси, Грузия, 1-5 октября 2018 г.

ლარცოფები: კატასტროფები, რისკი, პროგნოზი, დაცვა
მე-5 საერთაშორისო კონფერენციის. თბილისი, საქართველო, 1-5 ოქტომბერი, 2018



Programme of the conference

**Программа
конференции**

**კონფერენციის
პროგრამა**



Conference location

Administrative building of the Georgian Technical University, 77 Merab Kostava St., Tbilisi, Georgia (<http://gtu.ge/Eng/>)



Tbilisi City. View from Narikala Fortress.



Georgian Technical University.
Administrative building



<https://binged.it/2NUVmnO>

The conference will be held on the second floor in the large conference hall (LCH) and conference room (CR).

The Exhibition and Poster session will be held in the foyer in front of the conference hall.



Sessions and conveners

OCTOBER 1, 2018			
8:00-9:00	Registration of participants		Foyer
9:00-9:45	Opening Ceremony. Greetings		LCH
09:45-11:15	A1. Plenary session	Gavardashvili G., Chernomorets S.	LCH
11:15-13:00	A2. Debris flow risk reduction: from science to practice and international collaboration	Tovmasyan K., Gaprindashvili G.	LCH
14:30-16:00	A3. Debris flows and climate	Jomelli V., Yafyazova R.	LCH
16:15-18:00	A4. Debris flow disasters	Wei F., Garankina E.	LCH
18:00-19:00	Concert for participants of the conference		LCH
OCTOBER 2, 2018			
09:00-11:00	B1. Debris flow mitigation and monitoring	Strom A., Kenderova R.	LCH
09:00-11:00	B2. Debris flow hazard assessment	Shnyparkov A., Kadetova A.	CR
11:15-13:00	B3. Modelling of debris flows and floods	Bartelt P., Kidyaeva V.	LCH
11:15-13:00	B4. Debris flow formation in different conditions	Talanov E., Kozireva E.	CR
14:30-15:45	B5. Regional analysis of debris flows	Sokratov S., Pryakhina G.	LCH
16:00-17:30	B6. Where will disaster happen next? Modelling future lakes for risk management and decision-making	Shahgedanova M.	LCH
17:30-18:15	B7. Poster session		Foyer
17:30-18:30	B8. Meeting for members of the Presidium of the Debris Flow Association and of the Organizing Committee		LCH
19:00	Gala-Dinner		
OCTOBER 3, 2018			
09:00-09:15	Special announcement	Husani H., Bobov R.	LCH
9:15-11:00	C.1 methods and results of debris flow investigations	Isaac R.K., Ranova S.	LCH
11:15-13:00	C2. Methods and results of debris flow investigations	Kazakov N., Vinogradova T.	LCH
14:30-16:00	C3. Methods and results of debris flow investigations	Kalov R., Kondratieva N.	LCH
16:00-17:00	Discussion and resolution	Chernomorets S., Gavardashvili G.	LCH
17:00-17:30	Closing Ceremony		LCH

Exibitions (October 1, 2, 3)

IBTP Koschuch e.U.
Geobrugg AG
Geo-Barrier
Caucasus Road Project



Sessions schedule

Last name	First name	Title of presentation	Time
OCTOBER 1, 2018			
REGISTRATION OF PARTICIPANTS			8:00-9:00
OPENING CEREMONY: Greetings <i>Prangishvili A., Solomina O., Bekkiev M., Tovmasyan K., Jomelli V., Wei F., Chernomorets S., Gavardashvili G.</i>			09:00-09:45
A1. PLENARY SESSION Conveners: Gavardashvili G., Chernomorets S. 09:45-11:15			
Blagovechshenskiy	Victor	The debris flows automated monitoring system project in Ile Alatau <i>Medeu A., Blagovechshenskiy V., Askarova M., Gulyaeva T., Ranova S.</i>	09:45-10:07
Gavardashvili	Givi	Hydraulic calculation of anti-mudflow structure with a bottom grating to extinguish the kinetic energy of non-cohesive debris flow to transform it into an ordinary silt-carrying flow <i>Natishvili O., Gavardashvili G.</i>	10:07-10:30
Fuchs	Sven	Impact forces of torrential floods on exposed buildings <i>Fuchs S., Sturm M., Keller F., Mazzorana B., Papathoma-Köhle M., Aufleger M., Gems B.</i>	10:30-10:53
COFFEE BREAK 10:53-11:15			
A2. DEBRIS FLOW RISK REDUCTION: FROM SCIENCE TO PRACTICE AND INTERNATIONAL COLLABORATION Conveners: Tovmasyan K., Gaprindashvili G. 11:15-13:00			
Tovmasyan	Kristine	Using science for disaster risk reduction and enhanced international cooperation: gaps and challenges <i>Tovmasyan K.</i>	11:15-11:30
Strom	Alexandr	A roadmap for cooperation on slope process-related disaster in Central Asia <i>Strom A.</i>	11:30-11:45
Gaprindashvili G.	George	Geoelectrical condition of Tbilisi city and debris/mudflow hazard risk <i>Tsereteli E., Gaprindashvili G., Gaprindashvili M., Kurtsikidze O.</i>	11:45-12:00
Isaac	Rajendra	Climate change and flash floods in Himalayan region. <i>Isaac R.K., Shakti S., Hardeep M., Isaac M.</i>	12:00-12:15
Su	Fenghuan	Debris flow hazards along the China-Pakistan highway in Xinjiang territory. <i>Su F., Ge Y.</i>	12:15-12:30
Kayumov	Abdulhamid	Prospects and ways of cooperation on the study of breakthrough glacial lakes and the development of adaptation measures to reduce damage at the national and regional levels <i>Kayumov A.</i>	12:30-12:45
Zinevich	Yuriy	Designing and building of mudflow protection dams in Kazakhstan. The present stage 2008-2018 <i>Bakarasova T., Zinevich Yu., Khozhanazarov Ye.</i>	12:45-13:00
GROUP PHOTO 01.10.2018 13:00-13:15			
LUNCH BREAK 13:15-14:30			
A3. DEBRIS FLOWS AND CLIMATE Conveners: Jomelli V., Yafyazova R. 14:30-16:00			



Last name	First name	Title of presentation	Time
OCTOBER 1, 2018			
Jomelli	Vincent	Respective influence of environmental and climate conditions on debris-flow occurrence in the northern French Alps <i>Jomelli V., Eckert N., Pavlova I., Giacoma F.</i>	14:30-14:45
Sokratov	Sergey	The debrisflow risk in Russia in the middle and the end of the XXI century <i>Sokratov S., Derkacheva A., Khismatullin T., Shnyparkov A.</i>	14:45-15:00
Li	Yumei	The meteorological warning method of China geological disasters induced by precipitation <i>Li Yu., Li W., Di J., Zhang G., Bao H.</i>	15:00-15:15
Seinova	Irina	The approbation of debris flows forecast methodology for the glacial region of Central Caucasus <i>Seinova I., Andreev Y., Krylenko I., Bogachenko E., Feoktistova I.</i>	15:15-15:30
Nikolova	Nina	Possible impact of climate and weather condition on debris flows occurrence (on the example of Kresna gorge, Bulgaria) <i>Nikolova N., Rachev G., Kenderova R.</i>	15:30-15:45
Isaac	Monisha	Change in water environment and aquatic ecology of Himalayan region <i>Isaac M., Pathak A.K., Isaac R.K., Sharma U.</i>	15:45-16:00
COFFEE BREAK 16:00-16:15			
A4. DEBRIS FLOW DISASTERS Conveners: Wei F., Garankina E. 16:15-18:00			
Genevois	Rinaldo	The debris flow generated by the Stava (Northern Italy) tailing pond dam break <i>Genevois R., Tecca P.</i>	16:15-16:30
Keilig	Klaus	Geological and geotechnical findings of the catastrophic debris flow near Tskneti, Georgia, June 2015 <i>Neumann P., Bauer M., Haidn M., Keilig K., Menabde Z., Dumbadze D.</i>	16:30-16:45
Hu	Kaiheng	Potential danger of dammed lakes induced by the 2017 Ms6.9 Milin earthquake in the Tsangpo gorge. <i>Hu K., Zhang X., Tang J., Liu W.</i>	16:45-17:00
Chernomorets	Sergey	Glacial lakes outburst floods in the Caucasus <i>Chernomorets S.</i>	17:15-17:30
Petrakov	Dmitry	The outburst of Bashkara glacier lake (Central Caucasus, Russia) on September 1, 2017 <i>Chernomorets, S., Petrakov D., Aleynikov A., Bekkiev M., Viskhadzhieva, K., Dokukin M., Kalov R., Kidyaeva V., Krylenko V., Krylenko I., Krylenko I., Rets E., Savernyuk E., Smirnov A.</i>	17:30-17:45
Garankina	Ekaterina	Geomorphic and dendroecological affects of 2017 debris flow in the Sengisook Valley, Western Lovozerskiye Tundra, Northwestern Russia <i>Garankina E., Belyaev V., Bondar A., Romanenko F., Rudinskaya A., Shishkina Y.</i>	17:45-18:00
COFFEE BREAK 17:45-18:00			
Concert of the choir and dance group of the Georgian Technical University for participants of the conference 18:00-19:00			



Last name	First name	Title of presentation	Time
OCTOBER 2, 2018			
B1. DEBRIS FLOW MITIGATION AND MONITORING			
Conveners: Strom A., Kenderova R.			
09:00-11:00			
Chakhaia	Goga	Evaluation of the effectiveness of debris flow against construction <i>Chakhaia G., Tsulukidze L., Kvashilava N., Kvirkvelia I., Khubulava I., Supatashvili T., Gogilava S., Shapovalova N.R.</i>	09:00-09:15
Matsiy	Sergey	Debris flow risk assessment and management <i>Matsiy S., Sukhlyanova L., Lesnoy V.</i>	09:15-09:30
Koschuch	Richard	Pulse-doppler RADAR-system for Alpine mass movement monitoring <i>Koschuch R.</i>	09:30-09:45
Zhang	Shaojie	An experimental evaluation of impact force on a Fiber Bragg Grating-based device for warning dangerous level of debris flow <i>Zhang S., Chen J.</i>	09:45-10:00
Bogdanov	Ivan	Experience in the design and operation of mudflow and mudflow control structures at the facilities of the Western Caucasus <i>Bogdanov I., Aleksandrov P.</i>	10:00-10:15
Hofmann	Helen	Multi-level flexible debris flow barrier: case study in Peru <i>Wendeler C., Salzmann H., Feiger N., Hofmann H.</i>	10:15-10:30
Chen	Long	Discussion on the characteristics and calculation method of material source for the debris flow in Tian Mo Gully <i>Chen L., Wang J., Li Y., Jiu J., Shi S.</i>	10:30-10:45
Baljyan	Pargev	The prediction of surface position of sediments in the upper bay of mudflow protection structures <i>Baljyan P., Tokmajyan V., Baljyan V., Bayunts A.</i>	10:45-11:00
PARALLEL SESSION			
B2. DEBRIS FLOW HAZARD ASSESSMENT			
Conveners: Shnyparkov A., Kadetova A.			
09:00-11:00			
Malneva	Irina	Use of space weather indicators for operational forecast of mudflows <i>Malneva I., Cherkesov A.</i>	09:00-09:15
Talanov	Yevgeniy	Climatology of debris-flow forming precipitation in Caucasus: hypotheses and facts <i>Talanov Ye.</i>	09:15-09:30
Kondratieva	Natalia	Comparative assessment of mudflow activity in the geographical regions of the North Caucasus (from east to west and from north to south): by type, genesis and volume of removals <i>Kondratieva N., Adzhiev A., Razumov V., Bekkiev M.</i>	09:30-09:45
Rybchenko	Artem	Formation conditions and hazard analysis of debris flows in the Tunka ridge, Siberia, Russia <i>Rybchenko A., Kadetova A., Kozireva E.</i>	09:45-10:00
Su	Pengcheng	Regional danger assessment of debris flow and its engineering mitigation practice in Sichuan-Tibet highway (section of Luding-Kangding) <i>Su P., Wei F., Sun Z., Li Y.</i>	10:00-10:15
Kuksina	Lyudmila	Lahar danger of rivers in the territory of active volcanism in Kamchatka, Russia <i>Kuksina L., Muravyev Ya., Marchenko E.</i>	10:15-10:30



Last name	First name	Title of presentation	Time
OCTOBER 2, 2018			
Shafiev	Ganjalli	Analysis of the state of outburst lakes along the Gunt River valley in the South-Western Pamirs <i>Shafiev G.</i>	10:30-10:45
Petrushina	Marina	Landscape dynamics in the zone of debris flow release in 2017 in the Elbrus region <i>Petrushina M.</i>	10:45-11:00
COFFEE BREAK 11:00-11:15			
B3. MODELLING OF DEBRIS FLOWS AND FLOODS Conveners: Bartelt P., Kidyaeva V. 11:15-13:00			
Kruashvili	Irakly	Debris flow channel processes and determination of the lateral compression ratio <i>Kruashvili I., Loiscndl W., Inashvili I., Bziava K., Himmelbauer M.</i>	11:15-11:30
Kurovskaya	Viktoria	Modeling of unsteady water movement on the example of debris flows and flash floods <i>Kurovskaya V., Vinogradova T.</i>	11:30-11:45
Semakova	Eleonora	Remote sensing techniques and numerical simulation of debris flows in the Akhangaran and Tegermech rivers basins, using RAMMS software <i>Semakova E., Alimov Yo., Sichugova L., Semakov D., Graf C.</i>	11:45-12:00
Vinogradova	Tatyana	Calculation of the characteristics of catastrophic floods in the basins of the rivers of the Black Sea coast of the Krasnodar region <i>Vinogradova T., Makarieva O.M., Vinogradov A., Nesterova N.</i>	12:00-12:15
Gergokova	Zaina	The debris flow speed determining methods <i>Sherkhov A., Gegiev K., Gergokova Z.</i>	12:15-12:30
Sokolova	Daria	Assessment of dynamic characteristics of debris flow <i>Sokolova D.P., Vinogradova T.A., Ostashov A.A.</i>	12:30-12:45
Kidyaeva	Vera	Modelling of the 1st September 2017 Bashkara lakes outburst <i>Kidyaeva V., Petrakov D., Chernomorets S., Krylenko I., Aleynikov A., Stoffel M., Graf C.</i>	12:45-13:00
PARALLEL SESSION			
B4. DEBRIS FLOW FORMATION IN DIFFERENT CONDITIONS Conveners: Talanov E., Kozireva E. 11:15-13:00			
Rudinskaya	Anna	Debris flow phenomena in the Lovozerskiye Tundra <i>Rudinskaya A., Belyaev Y., Gurinov A., Garankina E.</i>	11:15-11:30
Zhang	Jiajia	Conditions and mechanism for formation of glacial debris flows in Parlung Zangbo, SE Tibetan Plateau <i>Zhang J., Liu J., Li Y., Wang J., Chen L., Gao B.</i>	11:30-11:45
Tokmajyan	Hovhannes	About the methodology of assessment of damage caused by mudflow action <i>Markosyan A., Tokmajyan H., Hayrapetyan V., Ivanyan G.</i>	11:45-12:00
Kazakov	Nikolay	Phase transformations in debris flow geosystem <i>Kazakov N.</i>	12:00-12:15
Kherkheulidze	Georgi	Traditions of mudflow studies in the Institute of Hydrometeorology of Georgian Technical University (assessments, prospects) <i>Kherkheulidze G.</i>	12:15-12:30



Last name	First name	Title of presentation	Time
OCTOBER 2, 2018			
Karavaev	Vadim	Debris flow activity on the northern slope of the greater Caucasus and morphometry of relief <i>Karavaev V., Seminozhenko S.</i>	12:30-12:45
Ayrapetyan	Vrezh	Features of the formation of river-bed for the Tartar River <i>Tokmajyan O., Sarkisyan V., Ayrapetyan V., Eroyan E.</i>	12:45-13:00
Malneva	Irina	Modern problems of forecasting mudslides in Georgia and in adjacent territories <i>Malneva I., Kononova N.</i>	13:00-13:15
LUNCH BREAK 13:15-14:30 ОБЕД			
B5. REGIONAL ANALYSIS OF DEBRIS FLOWS Conveners: Sokratov S., Pryakhina G. 14:30-15:45			
Kovalenko	Nikolay	Fast changes of the source area of catastrophic debris flows in Kolka Glacier cirque (Central Caucasus) <i>Kovalenko N., Aristov K., Petrakov D., Kolchin A., Timonin S.</i>	14:30-14:45
Bartelt	Perry	Thermomechanical analysis of a large rock/ice avalanche to resolve the cause of subsequent debris flows <i>Bartelt P., Buser O.</i>	15:30-15:45
Popov	Sergey	Dangerous hydrological phenomena near the infrastructure of the "Progress" station, East Antarctica, in 2017-2018 <i>Popov S., Boroniva A., Pryakhina G.</i>	14:45-15:00
Chernous	Pavel	Slushflow release forecasting <i>Chernous P., Volkov A., Sokolova D.</i>	15:00-15:15
Shnyparkov	Alexandr	Debris flow hazard for the transport communications of the Eastern Siberia and the Far East <i>Shnyparkov A., Derkacheva A., Khismatullin T., Sokratov S.</i>	15:15-15:30
Zelepukina	Yelena	Prerequisite for enhanced mudflow activity in West Sayan Mountains <i>Zelepukina E., Pryakhina G., Gavrilkina S.</i>	15:30-15:45
COFFEE BREAK 15:45-16:00			
B6. WHERE NEXT? MODELLING FUTURE LAKES FOR RISK MANAGEMENT AND DECISION-MAKING Convener: Shakhgedanova M. 16:00-17:30			
Kapitsa, Shahgedanova	Vasiliy,	Projections of the development of future glacial lakes in Central Asia and in the Caucasus using GlabTop2 model <i>Kapitsa V., Shahgedanova M., Machguth H., Severskiy I., Medeu A.</i>	16:00-17:30
	Maria	Discussion in groups using examples from different regions and focusing on data transfer to stakeholders and its implementation in practice.	



Last name	First name	Title of presentation
OCTOBER 2, 2018		
B7. POSTER SESSION 17:30-18:15		
Dekayir	Abdelilah	Geomorphological and geological analysis of Akchour landslide in Rif Mountain, Morocco <i>Harmouzi H., Dekayir A., Rouai M.</i>
Frühwirth	Sandra	Debris flow simulation from hazard events near Akhaldaba <i>Frühwirth S., Otto J.-C., Haidn M.</i>
Haidn	Markus	Geological and geotechnical findings of the catastrophic debris flow near Tskneti, Georgia, June 2015 <i>Neumann P., Bauer M., Haidn M., Keilig K., Menabde Z., Dumbadze D.</i>
Keilig	Klaus	How to effectively monitor geomorphic changes in debris flow channels <i>Keilig K., Dietrich A., Krautblatter M.</i>
Nagl	Georg	Monitoring barrier for debris flow/structure/ground interaction <i>Nagl G., Kaitna R., Hübl J.</i>
Raimbekov	Yusuf	The results of the bathymetric studies of the outbursting lakes in the area of Gorno Badakhshan Autonomous Oblast, Tajikistan <i>Raimbekov Y., Pirmamadov U., Marodaseynov F., Zikillobekov I., Gulomaydarov A., Bobov R., Chernomorets S., Savernyuk E., Kidyaeva V.</i>
Schimmel	Andreas	Automatic identification of debris flows by a combination of seismic and infrasound signals <i>Schimmel A., Hübl J.</i>
Tielidze	Levan	Rock-Ice Flows History onto Devdoraki Glacier, Georgian Caucasus <i>Tielidze L., Kumladze R., Wheate R., Gamkrelidze M.</i>
Yefremov	Yuriy	Actions for protection of infrastructure against mudflows of Western Caucasus (in the Lagonaki Highlands) <i>Efremov Yu., Shulyakov D.</i>
Khismatullin	Timur	Debris flows on the Matua Island <i>Khismatullin T., Shnyparkov A.</i>
Bobrova	Darya	The role of the debris flow pass construction in mouth part of debris flow rivers of Sakhalin Island <i>Kazakova E., Bobrova D.</i>
Fan	Jianrong	Assessment and analysis of the freeze-thaw erosion sensitivity in the Tibet of China <i>Fan J., An. C.</i>
Kazakova	Ekaterina	Debris flow engineering protection on Sakhalin Island <i>Kazakova E., Kazakov N., Gensiorovskiy Yu.</i>
Rybalchenko	Svetlana	An integrated approach to the creation of the engineering protection against debris flow processes on marine terraces of the Sakhalin island <i>Rybalchenko S., Verkhovov K.</i>
		The difference of slope debris flows from other exogenous processes <i>Rybalchenko S., Verkhovov K.</i>
		The motion of the solid phase in a turbulent debris flow <i>Verkhovov K., Rybalchenko S.</i>
Xie	Hong	Engineering control of debris flow in Luding County New Town, Hengduan Mountains Area, China <i>Xie H., Li Y., Wang S., Zhang J., Yu B.</i>
Zhdanov	Vitaly	Water-ice flows on the rivers of the Almaty Region <i>Zhdanov V.</i>
Kotenko	Tatiana	The 4 September 2017 rain mudflows in the northern part of Paramushir Island, the Kuril Islands <i>Kotenko T., Kotenko L.</i>



Last name	First name	Title of presentation
OCTOBER 2, 2018		
Savernyuk	Elena	The Devdorak ice-rock avalanche and consequent debris flow from the slope of Mt. Kazbek (Caucasus, Georgia) in 2014 <i>Chernomorets S., Savernyuk E., Petrakov D., Dokukin M., Gotsiridze G., Gavardashvili G., Drobyshev V., Tutubalina O., Zaporozhchenko E., Kamenev N., Kamenev V., Kääb A., Kargel J., Huggel C.</i>
B8. MEETING FOR MEMBERS OF THE PRESIDIUM OF DEBRIS FLOW ASSOCIATION AND OF THE ORGANIZING COMMITTEE 17:30-18:30		
GALA-DINNER 19:00		

Last name	First name	Title of presentation	Time																												
OCTOBER 3, 2018																															
Husani Bobov	Hadi Ruslan	Special announcement	09:00-09:15																												
C.1 METHODS AND RESULTS OF DEBRIS FLOW INVESTIGATIONS Conveners: Isaac R.K., Ranova S. 9:15-11:00																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Nanitashvili</td> <td style="padding: 5px;">M</td> <td style="padding: 5px;">Origin and classification of debris flows <i>Nanitashvili M., Gurgenidze D., Inashvili I.</i></td> <td style="padding: 5px; text-align: center;">09:15-09:30</td> </tr> <tr> <td style="padding: 5px;">Rouai</td> <td style="padding: 5px;">Mohamed</td> <td style="padding: 5px;">On power-law size distributions of landslides <i>Rouai M., El Kharim Y.</i></td> <td style="padding: 5px; text-align: center;">09:30-09:45</td> </tr> <tr> <td style="padding: 5px;">Boynagryan</td> <td style="padding: 5px;">Vladimir</td> <td style="padding: 5px;">Risk of debris flow forming in Armenia <i>Boynagryan V.R.</i></td> <td style="padding: 5px; text-align: center;">09:45-10:00</td> </tr> <tr> <td style="padding: 5px;">Bondyrev</td> <td style="padding: 5px;">Igor</td> <td style="padding: 5px;">Glaciers and debris flows on the Caucasus <i>Bondyrev I.</i></td> <td style="padding: 5px; text-align: center;">10:00-10:15</td> </tr> <tr> <td style="padding: 5px;">Nepop</td> <td style="padding: 5px;">Roman</td> <td style="padding: 5px;">Debris flows in mountain framing of the Boguty depression, SE Altai: analysis of the landscape climatic factors and triggers <i>Nepop R., Agatova A.</i></td> <td style="padding: 5px; text-align: center;">10:15-10:30</td> </tr> <tr> <td style="padding: 5px;">Nesterova</td> <td style="padding: 5px;">Natalia</td> <td style="padding: 5px;">Deterministic mathematical modeling method for estimation of instant water discharges at small mountain catchments (by the example of streams at the "Kolyma" federal highway) <i>Makarieva O., Nesterova N., Pashovkina A., Sokolova D.</i></td> <td style="padding: 5px; text-align: center;">10:30-10:45</td> </tr> <tr> <td style="padding: 5px;">Stupin</td> <td style="padding: 5px;">Vladimir</td> <td style="padding: 5px;">Geoinformation system mapping of debris flow hazard <i>Stupin V.P., Plastinin L. A., Olzoev B. N., Kotelnikova N.V.</i></td> <td style="padding: 5px; text-align: center;">10:45-11:00</td> </tr> </table>				Nanitashvili	M	Origin and classification of debris flows <i>Nanitashvili M., Gurgenidze D., Inashvili I.</i>	09:15-09:30	Rouai	Mohamed	On power-law size distributions of landslides <i>Rouai M., El Kharim Y.</i>	09:30-09:45	Boynagryan	Vladimir	Risk of debris flow forming in Armenia <i>Boynagryan V.R.</i>	09:45-10:00	Bondyrev	Igor	Glaciers and debris flows on the Caucasus <i>Bondyrev I.</i>	10:00-10:15	Nepop	Roman	Debris flows in mountain framing of the Boguty depression, SE Altai: analysis of the landscape climatic factors and triggers <i>Nepop R., Agatova A.</i>	10:15-10:30	Nesterova	Natalia	Deterministic mathematical modeling method for estimation of instant water discharges at small mountain catchments (by the example of streams at the "Kolyma" federal highway) <i>Makarieva O., Nesterova N., Pashovkina A., Sokolova D.</i>	10:30-10:45	Stupin	Vladimir	Geoinformation system mapping of debris flow hazard <i>Stupin V.P., Plastinin L. A., Olzoev B. N., Kotelnikova N.V.</i>	10:45-11:00
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Rouai	Mohamed	On power-law size distributions of landslides <i>Rouai M., El Kharim Y.</i>	09:30-09:45																												
Boynagryan	Vladimir	Risk of debris flow forming in Armenia <i>Boynagryan V.R.</i>	09:45-10:00																												
Bondyrev	Igor	Glaciers and debris flows on the Caucasus <i>Bondyrev I.</i>	10:00-10:15																												
Nepop	Roman	Debris flows in mountain framing of the Boguty depression, SE Altai: analysis of the landscape climatic factors and triggers <i>Nepop R., Agatova A.</i>	10:15-10:30																												
Nesterova	Natalia	Deterministic mathematical modeling method for estimation of instant water discharges at small mountain catchments (by the example of streams at the "Kolyma" federal highway) <i>Makarieva O., Nesterova N., Pashovkina A., Sokolova D.</i>	10:30-10:45																												
Stupin	Vladimir	Geoinformation system mapping of debris flow hazard <i>Stupin V.P., Plastinin L. A., Olzoev B. N., Kotelnikova N.V.</i>	10:45-11:00																												
COFFEE BREAK 11:00-11:15																															
C2. METHODS AND RESULTS OF DEBRIS FLOW INVESTIGATIONS Conveners: Kazakov N., Vinogradova T. 11:15-13:00																															
Garankina	Ekaterina	Debris flows as landsculpturing agent of modern valleys at the Kola peninsula low mountains, northwestern Russia <i>Garankina E., Belyaev V., Belyaev Y., Gurinov A., Ivanov M., Kuzmenkova N., Romanenko F., Rudinskaya A., Surkov V., Tulyakov E.</i>	11:15-11:30																												



Last name	First name	Title of presentation	Time
OCTOBER 3, 2018			
Arakelian	Sergey	New verification of the groundwater and tectonic processes possible impact on a series of recent catastrophic floods (2011-2017) Trifonova T., Arakelian S., Trifonov D., Abrakhin S., Koneshov V., Nikolaev A.	11:30-11:45
Strom	Alexandr	Reconstruction of debris floods caused by breach of the prehistoric rockslide dams in Central Asia and assessment of their parameters Strom A.L., Zhirkevich A.N.	11:45-12:00
Viskhadzhieva	Karina	Geomorphological conditions for the formation of outburst floods in the Tien Shan and Hindukush Mountains Viskhadzhieva K., Chernomorets S., Savernyuk E., Dokukin M., Petrov M.	12:00-12:15
Dokukin	Mikhail	Debris flows 14 and 15 August, 2017 in the basin of Gerhozhan-Su river (Central Caucasus): conditions and causes of formation, dynamics, consequences Dokukin M., Anaev M., Bekkiev M., Bogachenko E., Zaporozhchenko E., Kalov R., Savernyuk E., Chernomorets S., Khadjiev M., Khatkutov A.	12:15-12:30
Znamensky	Dimitry	Brazilian tropical residual soils as solid phase sources of mud and debris flows induced by heavy rains Znamensky D.V.	12:30-12:45
Romanenko	Fedor	Debris flows on the islands and coasts of the arctic seas Romanenko F.	12:45-13:00
LUNCH BREAK 13:00-14:30			
C3. METHODS AND RESULTS OF DEBRIS FLOW INVESTIGATIONS			
Conveners: Kalov R., Kondratieva N.			
14:30-16:00			
Khismatullin	Timur	Debris flows on the Matua Island Khismatullin T., Shnyparkov A.	14:30-14:45
Kazakov	Nikolay	Multiple debrisflows in the lowlands of the Sakhalin Island: conditions and repeatability Kazakov N.	14:45-15:00
Fazylov	Ali	The debris flows hazard of the river Varzob Basin (Tajikistan) Fazilov A., Niyazov J., Saidov M., Talanov E.	15:00-15:15
Makarova	Marina	Mountain ecosystems of Zhupanovsky Volcano (Kamchatka Peninsula, Russia) and their transformation under the influence of eruptions in 2013-2017 Makarova M., Dirksen V., Vladimirova N., Dirksen O.	15:15-15:30
Lukashov	Andrey	Seismicity and debris flow relationship in Khibiny low mountains, Kola Peninsula, Russia Lukashov A., Garankina E.	15:30-15:45
COFFEE BREAK 15:45-16:00			
DISCUSSION AND RESOLUTION			
Conveners: Chernomorets S., Gavardashvili G.			
16:00-17:00			
CLOSING CEREMONY			
17:00-17:30			



Field Workshop (October 4-5, 2018)

The field workshop will be held on October 4-5, 2018 in Kakheti region (Telavi and Kvareli) and along the Georgian Military Road (Kazbegi). Workshop will include two one-day trips, with the return to Tbilisi in the evening.

The air temperature in the mountains of Georgia in early October may vary from +10 to +25 degrees. The Organizing Committee recommends the participants of the workshop to wear trekking shoes or sneakers, and to have clothes in the case of both sunny and rainy weather.

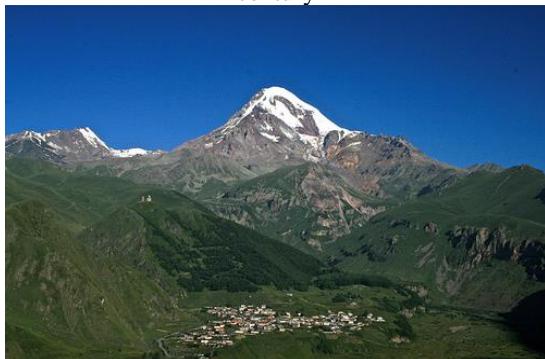
Buses will depart from the administrative building of GTU.



Kakheti region. St. George Cathedral (11th century) in Alaverdi Monastery established in 6th century



Protective dam destroyed by debris flows.
Duruji River upstream of Kvareli town



Mt. Kazbek. Military Georgian Road area.



Debris flow catchments near Kvemo-Mleti village



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