Azerbaycanmemarliq
veinşaatuniversiteti

Ministry of Education of Republic of Azerbaijan

Azerbaijan University of Architecture and Construction

International scientific-technical Conference

NATURAL DISASTERS AND
HUMAN LIFE SAFETY

PROGRAM

December 04-06, 2017
Baku , Azerbaijan

9   **Safarov S.H., Mammadova M.K., Suleymanova N.M., Allahverdiyeva S.İ.** The analysis of strong hailstorm events in the western parts of Azerbaijan on 10 and 20 June 2017

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11   **Shokbarov Y.** Elimination of consequences of earthquakes of the Republic of Kazakhstan

12   **Suleymanov M., Gurbanov G.** Hazardous landslides areas in the Nakhchivan Autonomous Republic

13   **Tahlatli N.E.** Impact of seismic activity on the sliding on the Guba region

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16   **Tarikhaser S.A., Hamidova Z.A.** Landslip processes: causes of their development in the mountain areas of Azerbaijan

17   **Teymurov M.A.** Identification and prediction of water-related emergency situations and natural disasters based on land-use and land cover changes

18   **Yetirmishli G.J., Garavaliyev E.S.** An Imishli earthquake on 01 August 2016, with magnitude $m_l=5.6$, intensity $i_0=5$ point

20   **Yusifzada E.** The research of the influence of exogenous processes on the highways destruction

21   **Zeynalova S.M., Ismayilov M.J., Mamedbeyov E.Sh., Yunusov M.I., Rustamov G.I.** Mud volcanoes and their environmental hazards and risks

Disscussions and closing of Session

FORECASTING OF POSSIBILITY OF A MUDFLOW ACCORDING TO STATISTICAL DATA

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Statistical data are important for forecasting of emergence of mudflows. Such exact data give the chance to analyze separately the factors influencing emergence of mudflows and to prevent danger. The analysis of data allows to do the forecast of emergency situations and to carry out prevention. On the territory of the Republic of Kazakhstan, including emergencies debris phenomenon takes a significant place. Mountain mudslide is characterized by the temporary stream channel, composition of many solid materials and with sharply increasing levels. Debris flows have a high destructive power, and in most cases is a result of an emergency situations.

According to the activity and strength of occurrence of Kazakhstan has got one of the first places among the CIS countries – 15% (164 thousand km2) of the territory of the Republic is the area of the hazardous exogenous processes and zone affecting of the destruction. Here is located 2700 glaciers, 596 moraine and glacial lakes, 300 mudflow basins 5650 mudflow hotbeds. This situation put in jeopardy more than 1000 of these mud foci, 156 settlements, more than 6,000 objects of management and 150 thousand people.

On the basis of statistical data, forecasting of the possibility of mudflows is important.. Statistical production consists of several stages: the preparatory stage and the stage of accumulation of information. In the preparatory phase defines the test object and the goal, the training of composition obtained for registration of the mark and the required measuring instruments and equipment. During data collection performed making registered data in the device, the analysis and conclusion.

Such statistics will allow separately analyze the influencing factors on the mudflows and to prevent danger. If we analyze flood

23 Jul 2015, Kargalinka pool threatened the city of Almaty, several factors influenced its occurrence. Main of them – the presence of high air temperature, evenly over several days in a row. In the period from 12 July to 21 July, the air temperature is uniformly higher, on average, held on 21, 4^0. The presence of high temperature, evenly affecting 10 consecutive days affected the melting of glaciers, July 23, was observed mud slides.

Statistics play an important role in predicting mudflows. Statistical data should be objectively, actual, available and the ability to analyze and properly understand the data are accessible on the prevention of emergency situations and have a huge impact on her assessment.