



Geophysical Studies in the Territory of Mtskheta

Nino Goguadze (1), Sophie Vepkhvadze (1), Nino Kachakhidze (2), Manana Kachakhidze (2), and Mamuka Djakhutashvili (2)

(1) Iv.Javaxishvili Tbilisi state University, Tbilisi, Georgia (ninogoguadze2@gmail.com), (2) St. Andrew the First-Called Of the Patriarchate of Georgia Georgian University

The abstract concerns of survive problem of one ancient and main temple – Svetitskhoveli because of its wetting and south wall breaking out.

The presented work takes into account the complex searching of Svetitskhoveli temple and surrounding territory in order to study buried archeological memorials (buried graves in deep depths) and geological structure of territory, to establish moist horizons and direction of moving of underground water.

The tasks noted in the project will let us:

- 1) To separate water saturated geological horizons.
- 2) To specify the location of the source feeding of water saturated horizons.
- 3) To study direction of water moving in the water saturated horizons.
- 4) To establish the reason of temple and enclosure wall wetting.
- 5) To elaborate the plan of excluding of temple and enclosure wall wetting.
- 6) To reveal deep archeological objects in the temple and in the territory of yard.