

SECTION 12. Geology. Anthropology. Archaeology.

Elnur Latif oglu Hasanov

Ph.D. post-graduate

corresponding member of International Academy of Theoretical & Applied Sciences
scholar of Ganja Branch of Azerbaijan National Academy of Sciences,

Ganja, Azerbaijan

el-hasanov@mail.ru

**APPLICATION OF INNOVATIVE TECHNOLOGIES IN STUDYING OF CRAFTS
HERITAGE OF GANJA OF THE XIX - FIRST HALF OF XX CENTURIES**

***Abstract:** On the basis of new methods and innovative technologies have been researched the main features of the main national craftsmanship kinds. Also in scientific article basic typical craftsmanship branches of Ganja were investigated for the first time from the ethnographic-anthropological point of view.*

***Key words:** innovative methods and technologies, Ganja, historic-ethnographical research, handicraft branches, Azerbaijan*

INTRODUCTION

Scientific and archaeological researches have proved that Ganja had been the cradle of science and culture not only of Azerbaijan, but also of the whole East. During 2011-2012 with application of new scientific approaches, also innovative technologies have been determined by us some new results about handicraft heritage of Ganja.

History and art of Azerbaijan people as rich and colorful as its nature. On decorations of this descriptive art are reflected spiritual world, living style, customs and traditions of our nation. These pearls of art on material preparing and processing techniques are divided into different kinds. Among these types of craft metal treatment is mostly developed and has ancient history. Abundance of local raw materials created favorable conditions for development of metal treatment from ancient times. In general, in the third millennium BC there was high culture of the Bronze Age in our country, and in the first millennium transition period from Bronze Age to Iron Age began. In that period in Azerbaijan there were appeared several branches of metallurgy treatment. Jewelries, daggers, arms, copper products and other samples of art have been treated so refined, that in nowadays they are protected as very valuable exhibits in famous museums [1-3].

MATERIALS AND METHODS

Investigation of the main traditional craft branches on the basis of new, innovative methods and technologies is very important. Results of these researches show the significance of different patterns of craftsmanship kinds as a source in studying of historical past of nations. The increase in quantity of handicraftsmen in a city directly has been bundled to population growth. The competition of production of production plants and factories has not reached still serious level and consequently was created a favorable condition for spreading of traditional occupations there. In addition, products of these craft branches have been closely bundled to a life and traditions of the people, and it would be difficult to replace with their factory production. In the specified period of history in Ganja developed basically carpet weaving, weaver`s business, craft of the tailor, squeeze men, forge and a jeweler, trades of dyer, the stone mason, the cooper and leather dresser, weapon business and other similar craft branches.

Among these crafts especially developed carpet weaving. To so wide development of carpet weaving promoted availability of raw materials. In addition carpets were very widely

used in a population life-both as furniture, and as a curtain, both as sand bed and as a coating for a floor. In carpet weaving have been held basically women. It has been bundled by that in a Muslim society of the woman preferred to work in house conditions. However also know cases when men were occupied with this craft [4]. Tailors and hatters created both national clothes, and clothes in style of the European fashion. According to the spent explorations there are exact data on wide development of a jeweler in Ganja in the end of XIX century – in a beginning of XX centuries. Jewelers basically fabricated ornaments to order. Among them there was a specification. Jobs of skilful masters amazed even foreigners. Development of trading and economic relations of Ganja with the next states promoted recognition of local jewels abroad. In middle ages in spheres of gentle and applied art, Ganja of inhabitants of territory, in agriculture life bone was widely applied. Bone products, raw materials, that found during investigations in and around Ganja prove that time bone processing separated from other spheres of craftsmanship. These samples of art make more ancient history of city culture of Azerbaijan and in whole play nard. There were found knife handles, rare geometrical decorations, samples of pipe and other instruments here. During excavations there was found bone products that used as raw materials and cutting with pipe. In XI- XIII centuries this sphere of art was developing mostly. This thought is proved with a lot of bone and horn, found in zone of excavation. This period from bone there were prepared buttons, knives and etc. Found during archeological excavations and used in wooden treatment and knife, showed that at the beginning of XI – XIII in and around Ganja this sphere of craftsmanship in exist. In this ancient city printed cotton and calico fabrics have been widely produced. In traditional cloth productions the main place took the urban mines. In the early 30s of the XIX century in Ganja there were more than 164 people - weaving. The majority of these artists were weaving. In Ganja, which was the most important center of cloth production were produced different kinds of cotton cloth. Only in the 30s of the XIX century in Ganja were presently working 30 cloth bench. During one year this machine were producing 2000 of white cloth, 200 top of red cloth (shile) and nearly 400 thin cloth spoke. In general, in Ganja from textile there were made cotton cloth with simple painting, various kinds' decorations. In most cases, in the XIX-XX centuries after coarse calico colored in white colors of, it colored to different colors [5-7].

RESULTS AND DISCUSSION

From the investigated national employment carpet weaving, the jeweler, a stone dressing and strenuously develop on the basis of ancient traditions already dying out ancient trades, such as a pottery and an art embroidery. Each area of Azerbaijan possesses characteristic environmental resource bases for it and it promoted development of various crafts. Thus, a number of employments in Ganja, during the period since XIX century to the middle of XX century, differed from crafts of other areas of the country.

It was first of all the trades bundled to a spreading of a city and population grown has increased demand for craft products [1]. Under such circumstances the handicraft work could not keep the natural character. Already in a number of branches finished articles have been exposed on a market. Ganja is one of the richest areas from archaeological point of view. Investigation of traditional wares of handicraft kinds of Ganja on the basis of innovative methods is very important and necessary. As a result of ethno-archaeological investigations here were found samples of material culture that concerned to the stages of different history period. Today most of them are kept in various museums of the world. Archaeological investigations prove that in this period the main population of this region had sedentary lifestyle and were engaged with farming [2]. Works of art, made from metal, for their content and their form are divided into two major groups. They are products of art and household goods. Made of precious metals gold and silver jewelries, that prepared by Ganja masters, are divided into 4 main groups for wearing and putting:

Neck jewelries - it is included such kind of jewelries, that gold piece coin, imperial, cardamom or barley, medallions, bracelets, different kinds of beads and etc., jewelries for arms and fingers – this group include bracelets, bangles and rings with various precious stones as (turquoise, rubies, pearls and etc.), head jewelries – skull-cap and others, jewelries for clothiers [9].

From the construction point of view, samples of pottery, that concern to Antique period, also to the period of Hellenism in Ganja, differed in various forms as pictorial vases, ceramic figures, connected dishes. During the end of Middle Ages and New Period in Ganja and its regions ceramic has following kinds as building ceramic materials, unglazed ceramic products, glazed ceramic products. For Middle Ages and New period among pottery products of Ganja ceramic samples as clay construction materials have great importance. First of all, glazed bricks that used in construction of most buildings in the XVII-XVIII centuries, and also in great monuments and the main construction material - air-dried bricks, attracted attention. In addition to the found samples in residential areas as a result of archaeological excavations, also were found a lot of brick spoilages. According to such kind mass finding of brick spoilages, we can make the conclusion, that the bricks used in construction of buildings in Ganja, were wares of local production.

The formation of pottery on the territory of ancient Ganja is concern to the stages of ancient history. Basis on research works carried out by the various persons in XIX century and experts-archeologists at the beginning of XX century in old ruins of the city and surrounding areas there were found different samples of pottery [11-13].

CONCLUSIONS

1. As in many places, production of wool, cotton and silk in and around Ganja made necessary emergence and development of weaving. In the first half of the XVIII-XIX centuries, as well as in other parts of Azerbaijan, in Ganja household objects, forging weapons and jewelries that made from metal were decorated with different technical ways.
2. Becoming weaving one of the ancient spheres of crafts in and around Ganja was connected with the rich raw material base here. Presence of useful plant species for textile, including cotton, high level development of wool area of agriculture-sheep and goat breeding, camel breeding, horse breeding, presence of cotton cropping in Middle Ages and finally, regular expansion of silkworm breeding in this area created a foundation for growth of weaving here [11].
3. In traditional production of cloth manufactory trade historically played an important place. This kind of craft that developed on the basis of local raw materials was tied with cotton-growing economy. Since the time of the early Middle Ages, Ganja as other big cities has been the main center of Azerbaijan in production of cotton cloth. In this ancient city printed cotton and calico fabrics have been widely produced. In traditional cloth productions the main place took the urban mines.
4. Internal conditions of craft department reflected a sort of employment of his owner. In these departments worked the master and his pupils. In a life of the population of Ganja the role of craft products was great. These products were widely used inhabitants of Ganja they decorated conditions of living rooms, with them filled up a dowry of brides. The dresses created in local departments, suits and caps were an integral part of an attire of town-dwellers [12].
5. In comparison with villages though the national clothes in XX century began to supersede them gradually. It also has been bundled to accruing arrival to Ganja representatives of other nationalities. Therefore changes in clothes were more marked. Only female ornaments as an attire constituent part left the national feature.

6. Traditional spheres of crafts are invaluable and reliable sources of studying of culture, aesthetic taste, outlook of the Azerbaijan people. Ethnographic and anthropologic exploration of problems and branches of crafts very important, as a way of studying along with history and culture of the people, years generated political-economical and relations of production.
7. Closely bundled to an economy and a daily life of the people, craft employment were one of the basic carriers of national traditions. Its hereditary transfer to descendants was one more feature of craft business in Ganja. Hereditary jewelers, weavers, manufacturers of carpets, cobblers, potters and stone borer were especially allocated.

References:

1. Зубов П. Картина Кавказского края. Т. IV, СПб., 1834-1835, с. 34
2. Azərbaycan etnoqrafiyası: 3 cildə, I c., Bakı: Şərq-Qərb, 2007, 544 s.
3. Həsənov E.L. Gəncə İmamzadə türbəsi (tarixi - etnoqrafik tədqiqat). Bakı: Elm və təhsil, 2012, 268 s.
4. Taylor P., Hasanov E.L. Ethnological features of cultural heritage of Ganja (On the basis of Mahsati Ganjavi's creation) // International scientific journal «Theoretical & Applied Science» 2013, № 12 (8), pp. 41-44
5. Azərbaycan tarixi üzrə qaynaqlar. Bakı: Azərbaycan Universiteti nəşriyyatı, 1989, 328 s.
6. Həsənov E.L. Die Gändschänischen teppiche von XIX – XX Jahrhundert als geschichtliche - ethnographische quelle / European Science and Technology (Die Europäische Wissenschaft und die Technologien): 2nd International scientific conference. Bildungszentrum Rdk e. V. Wiesbaden, (Germany) 2012, p. 26-27
7. Guliyeva N.M., Hasanov E.L. New ethnographic approach to the research of main decorative - applied arts of Ganja of the XIX – XX centuries / International scientific conference - Achievements in science: new views, problems, innovations. Lodz, (Poland) 2012, p. 56-58
8. The dawn of Art. Leningrad: Aurora Art Publishers, 1974, 196 p.
9. Burton-Brown T. Excavations in Azerbaijan, 1948. London, 1951, 250 p.
10. Кавказский календарь на 1854 г. Тифлис, 1853, с. 338-341
11. Алиева А.С. Ворсовые ковры Азербайджана XIX - нач. XX веков. Баку: ЭЛМ, 1973, с. 21-25
12. Guliyeva N.M., Hasanov E.L. Investigation of basic decorative-applied arts of Ganja on the basis of some innovative arguments and technologies / Science and Society: Proceedings of the 3rd International scientific-practical conference. London (Great Britain), 2013, p. 281-291
13. Hasanov E.L. Innovative results of ethno-archaeological researches in Ganja (On the basis of handicraft patterns) / Global Science and Innovation: Proceedings of the 1st International scientific conference. Chicago: Publishing house Accent Graphics communications, Chicago (USA), 2013, vol. 1, pp. 251-253
14. Hasanov E.L. About fundamental studies on local cultural traditions of Ganja // European journal of Natural History (Fundamental researches: Proceedings of International scientific conference. – Jordan, Aqaba), 2013, № 3, p. 65-68