

Using natural dyes in ukrainian lizhnyck's textile crafts: ecological aspect

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There are some unic textile crafts in Ukraine. One of the famous of them is the Carpathian lizhnyck's craftcentre. A lizhnyck is a handmade carpet weaved from woolen yarn, specially kneaded and carded, decorated in traditional mays. But there are many problems appeared in this craftcentre during last 20 years: political, economical, ecological and technological. Among the ecological and technological problems the main are using synthetic dyestuffs for dyeing wool, and as a result, it courses decreasing of quality level of produced lyzhnycks, pollution of environment etc. Also is a problem to preserve this textile craft with ethnical peculiarity and ecological safty for environment, becource using of synthetic dyes coursed deterioration of colouristic design of lizhnycks and pollution of springs and rivers of this region by toxic deviation of dyeing process.

That's why in 1998 in Javoriv village Ivano Frankivska region started long-term project, named "Ecological perspective", the main aim of which was to revive traditional producing of lizhnycks, including 100% acceptable in ecological term, on the basis of that traditions. Such traditional textile, like lizhnycks, should be made of ecological wool and, preferably, be hand-woven fabrics that have been dyed with natural dyestuffs taking into account ecological requirement. Also using of synthetic dyestuffs coursed, that traditional ethnic decoration of lizhnycks became to lose.

During eight years the planaries had been held in Javoriv (within project "Ecological perspective"), many professional artists and craftsmen had taken part in this project. The scientists, among them the author, conducted researches of properties of natural dyes, suggested by them for deying wool, which had been used for making lizhnycks. But the safty of fabrics and yarn, dyed with natural dyes, during dyeing process heavy metals are used like mordants, isn't confirmed in many cases and must be researched. Many of natural dyes, being used abroad are tested on ecological safty and as dyeing process such dyed textile materials correspond to all ecological demands and to be considered ecofriendly. In Ukraine many natural dyes and methods of dyeing must be tested on their's ecosafety. Some of them are confirm to ecological standards. The natural dyes, proposed for dyeing lizhnyck's wool were mainly extracts from plants: *Allium Cepa*, *Chamaenerium angustifolium*, *Rumex confertus*, *Frangula alnus* and many other. But the main aim of pleneries was to use plants, widespread in the Carpathian region, which have high exploitation characteristics and to elaborate ecofriendly technologies of dyeing with natural dyes.

Many of plant dyes and methods, proposed for dyeing wool during long-term project "Ecological perspective", allowed to receive coloured wool and lizhnycks, which confirm to ecological standard ECO-TEX-100 (the safty of textile material) and use ecological friendly technologies of wool dyeing. Was also estimated stability of colours of many textile materials, dyed with plant dyes. Almost all of them have hight light resistance, resistance to dry cleaning, heat stability etc. Many of researched dyes were recommended for dyeing textile materials, especially wool for lizhnycks making.

That's why during "Ecological perspective" were held master-classes of dyeing with natural dyes. The scientists and professors taught the participants of planairies and craftsmen of wool dyeing methods.

The main results of long-term work of reviving dyeing with natural dyes in Javoriv during "Ecological perspective" are:

- Reviving using of natural dyes in lizhnycks textile craft in Javoriv region;
- Using for colouring wool plant dyes widespread in this region of Carpathian mountings, which have good exploitational properties;
- Proposed methods of dyeing of lizhnyck's wool with natural dyes allowed to decrease pollution of environment;
- Liznycks, had been made from wool coloured with natural dyes, had better design, the assortment of this products became much more various as in was some years before;
- Lizhnycks, coloured with natural dyes much more correspond to traditional decoratin of this products of textile craft then synthetic ones;
- Colours, received by natural dyes on textile materils are "soft", "not aggressive" and make the man in harmony with the elements of interier, clothes etc.
- Using dyeing of textile with natural dyes like element of merketing strategy for promotion of product of lizhnyck's textile craft.

The introduction of dyeing technologies with natural dyes in practice of craftsmen and professional artists is an example of effective strategy reviving and preserving national textile crafts according to ecological policy of state.