

such prospects. **Specialized homes.** These houses are a compromise between a yacht and a private country house, which move within some inner reservoir. It has two floors where you can live and it can move at a speed about 20 km / h. **Landing stage** is a house on concrete platforms that allow you to bring virtually any ideas of the architect. It is one of the most expensive dwellings; landing stages operate autonomously with their own communications, but if it's necessary they can be connected to the municipal communications with special permission. These houses are an excellent decision for those who value their personal space, freedom and privacy, who would like a quiet and comfortable life close to nature.

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### ПРОБЛЕМА ВЗАИМОДЕЙСТВИЯ КУЛЬТУР ПРИ МИГРАЦИИ

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Nowadays people throughout the World consider migration as a trivial phenomenon. According to UN statistic, more than 230 billion people today live apart from their birthplace. More often a culture of a host country is different from culture of migrant's motherland. That is why the question arises: should people adapt to a new culture or not?

On the one hand, some people tend to think that migrants should assimilate in a culture of a host country. Probably, these people never heard about phenomenon called «cultural shock» when an immigrant fall into the depression because of influence of new culture. Often these people think cynically about migrants and even hate them, that bias is often considered as racism. As an example of this opinion I want to provide the Canadian mayor statement: «Muslims should understand that they have to adapt to life in Canada rather than Canadians which lavishly welcomed them» [1].

On the other hand, there are people who support an opposite point of view. They tend to think that government of a host country should provide migrants with special living conditions similar to their homeland. These conditions may include special schools, churches, and restaurants for migrants. For example, Russian government builds mosques to support Russian Muslims while national religion is Christianity. At the same time in New York there is a huge district called Brighton Beach which is filled by migrants from Soviet Union and Russian Federation.

Anyway, I think that before migration in a country a migrant should try to get acquainted with a culture in that country to avoid cultural shock and be prepared to plunge in a new culture.

To sum up, I can say that migrants should respect a culture of a host country, while citizens of a host country should show their tolerance to migrants and try to help them to get integrated into a new culture.

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### ВАЖНОЕ РЕШЕНИЕ ИЛИ КАК СДЕЛАТЬ ПРАВИЛЬНЫЙ ВЫБОР

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Choosing a career is not simple matter because you choose one of the most important things in your life. Of

course, it's not an easy thing to choose a profession out of more than 2000 existing in the world. It's especially difficult if you like doing different things, if you have different hobbies and interests. Also it is important to suit your career. It's important when your career is your vocation in life. Skill, persistence and many other qualities are required in any job. Everyone has skills and talent but yours may not be so obvious. Make a list of your interests, talents and abilities. Most people have a lot of these but they are undeveloped and may not seem outstanding [2]. By concentrating on a few or on one you may surprise yourself how good you can yet. The interest inventory that follows covers the major fields in which most people find careers: science, art, social service and so on.

But also in modern society there are problems in choosing and finding a job. The problem of youth employment is very actual nowadays. Most of young people in Russia get higher education. They all go to institutes or universities. But the quality of education nowadays leaves much to be desired. As a result the country will have a lot of specialists especially doctors, managers and lawyers. But their quality will be very low [1]. The other problem is that of finding working places for a great number of specialists. The Federal Government should do something about this problem. Creating those places for young people is the burning question now. There must be a lot of new plants, hospitals and other enterprises for all graduates.

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### АВАКС СИСТЕМА

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AWACS or Airborne Warning And Control System is a mobile, long-range radar surveillance and control centre for air defense. The system, developed by the U.S. Air Force, is mounted in a specially modified Boeing 707 aircraft which main radar antenna is mounted on a turntable housed in a circular 9 m in diameter, elliptical in cross-section, and 1.8 m deep at its centre. The radar system can detect, track, and identify low-flying aircraft at a distance of 370 km (200 nautical miles) and high-level targets at much greater distances. It also can track maritime traffic, and it operates in any weather over any terrain. An airborne computer can assess enemy action and keep track of the location and availability of any aircraft within range [1]. The communications system, enabling the control of friendly aircraft in pursuit of enemy planes, operates over a single channel, secure from enemy interception that is also relatively immune to jamming because of its high speed. The first production-model AWACS entered service in 1977. The U.S. Air Force uses the AWACS, which it designates as E-3, as a command and control centre for units of its Tactical Air Command and also for command and control activity in its North American Air Defense Command (NORAD). NATO also uses the system. According to the historical fact, the first aircraft with implanted AWACS system was a Soviet turboprop, the Tu-126 Moss, which was succeeded in the 1980s by the jet-powered Ilyushin Il-76 Mainstay. These craft, like the U.S. E-3 Sentry (a converted Boeing 707), carried a large, saucer-shaped radar on the fuselage. Britain's early-warning aircraft was the British Aerospace Nimrod [2].

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**ПРОФЕССИИ В ОБЛАСТИ СТРОИТЕЛЬСТВА**

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After graduation from university I will be able to work as a land surveyor, a realtor, a cadastral engineer and a geodesist. Now I would like to tell you about profession of geodesist.

Geodesy is a science about the study of the earth's surface. This science is widely used in construction [1]. So, geodesist is a person, who determines the position of the points and the distances and angles between them. A geodesist is a very actual profession. A geodesist develops a theoretical base by measuring the territory and calculates the coordinates of the locality. He makes topographical plans and maps. He should be good at geodesy, topography, cartography, mathematics, physics, geography and geometry. A geodesist must be attentive, careful, accurate and observant. He should have an analytical mind, mathematical skills, a good memory and physical training. There are three levels of geodetic works. The first level is a survey on location, i.e. determining the position of points on the earth's surface relatively to the local supporting points for the topographic maps. The topographic maps are necessary for construction and land registry systems. The second level is a survey across the country. The third level is global. It is a higher Geodesy that studies the shape of the Earth. The work of geodesist consists of two stages. The first stage is special measurements by means of geodetic instruments. The second stage is processing of the results using mathematical and graphical methods and mapping. Geodesist uses levels, theodolites, range finders and compasses for survey on location. Level is a geodetic device for determining the height difference of two points using the horizontal beam and leveling slats, vertically installed at these points. There are high precision, accurate and technical levels. Theodolite is a geodetic instrument for measuring horizontal and vertical angles. Recently geodesists began to use special laser scanners. I think profession of geodesist is difficult enough, but demanded, highly paid and interesting. So I want to work as a geodesist.

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**ПРОЕКТИРОВАНИЕ МОСТОВ**

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The modification of the world is carried out by dint of both natural and human interferences. Consequently, it leads to a co-called 'geodesign'. As a matter of fact, all technical reorganizations and engineering transformation create a feeling of efficiency, comfort, necessity. Besides, most constructions embellish the landscape or match the environment. So, in our case we can mention about the functional role of bridge design and engineering [1]. On the one hand, we consider that any bridge is an assembly of essential parts, materials and details, on the other hand, it's a practical designer's monument for a safe and rapid

transportation, a moderate time-consumption and a long distance-compensator. There are many various designs that serve essential purposes as military and commercial ones and apply to versatile situations. The bridge design varies depending on the function of the bridge itself, the nature of the terrain where the bridge is constructed and the material used to make it, and the funds available to build it. If we scrutinize the history age of bridge engineering that the greatest bridge builders were the ancient Romans. They were the first who built arch bridges and aqueducts of cement, wood and stone. Then, brick and mortar bridges appeared. During the 18<sup>th</sup> century there were many innovations both in design and engineering aspect due to Hans Ulrich, Johannes Grubenmann, Hubert Gautier, Stefan Bryla, etc. Nowadays, we can see around us a wide range of modernized bridge constructions namely, beam bridges, truss bridge, cantilever bridge, arch bridge, tied arch bridge, suspension bridge, cable-stayed bridge. As a result, they accommodate the whole society's necessities from time and distance [2].

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**УСТАНОВКА КОМПЛЕКСНОЙ ПОДГОТОВКИ НЕФТИ**

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The processes of dehydration, desalting and the stabilization of oil are carried out at complex oil preparation unit.

Cold «crude» oil from the tanks is directed through the heat exchanger into the settler of continuous action by pump. Here the most part of the mineralized water settles on the bottom of the apparatus and is drained for further preparation in order to pump in the layer. Then fresh water is introduced into the flow to reduce the concentration of salt in the remaining mineralized water. The final water separation from oil takes place in the electrical dehydrator and dry oil is delivered through a heat exchanger to the rectifier. Due to the pumping oil from the bottom of the column through the furnace by pump its temperature is brought up to 240°C.

Light oil fractions are evaporated, rise to the top of the column and then come in the condenser-cooler. Here the propane-butane and pentane fractions are mainly condensed, forming the so-called wide spread and non-condensed components are removed for use as a fuel. The wide spread is pumped out by the pump for fractionation and is partially used for the reflux in the column [2].

There are some processes in the complex oil preparation unit: dehydration, desalting and oil stabilization. And as for dehydration, heating, settling and electrical action are used at the same time, i.e. a combination of several methods [1].

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**СТОИМОСТЬ ПЕРЕВОЗОК**

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For any business, the cost of transportation is normally the largest single item in the overall cost of physi-