

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ  
ФАКУЛЬТЕТ ІНОЗЕМНОЇ ФІЛОЛОГІЇ  
ТА СОЦІАЛЬНИХ КОМУНІКАЦІЙ**



# **СОЦІАЛЬНО-ГУМАНІТАРНІ АСПЕКТИ РОЗВИТКУ СУЧАСНОГО СУСПІЛЬСТВА**

**МАТЕРІАЛИ ВСЕУКРАЇНСЬКОЇ НАУКОВОЇ КОНФЕРЕНЦІЇ ВИКЛАДАЧІВ,  
АСПІРАНТІВ, СПІВРОБІТНИКІВ ТА СТУДЕНТІВ**

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with USB and consists of a change in measurement accuracy and the power to produce, process and output, switch S1, alternating resistor R1 par value from 100 Ohm to 10 kOhm, four resistors R2-R5 different values, contacts to measure resistance and two voltmeters. Block LM317 is used to stabilize voltage and current, resistors R1 = 160 Ohm, R2 = 520 Ohm, R3 = 1,2 kOhm, R4 = 8,9 kOhm used to change the measurement accuracy.

Research CVC dual-layer films of Fe / metal and Fe / semiconductor indicate their linear and symmetrical (Figure 1). Thus, for films Fe (5 nm)/Pt (5-15nm)/S (S- substrate) while increasing the voltage from -10 to +10V current increases linearly in the range of -30 to +30 mA. The steepness of the CVC, which is  $S = \Delta I / \Delta U = 4-6 \text{ mA/V}$ , increases with increasing layer thickness Pt.

Film properties of Fe (30)/Ge (5-30)/S meet the requirements for ohmic contacts, namely at forward bias they provide major carriers injected into the semiconductor; the reverse bias - prevent injection of minority carriers in the semiconductor; have a minimum electrical resistance i linear symmetrical CVC, which slope  $S = 0,025-1 \text{ mA /V}$  and increases with increasing layer thickness Ge.

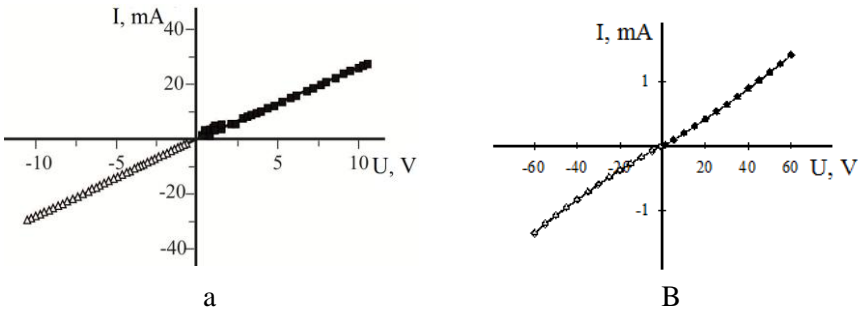


Fig. 1. CVC for annealed to 900 K films Fe (5)/Pt(5)/S (a) and Fe (30)/Ge(25)/S (b)

The nature of the CVC films research is associated with the processes of solid phase synthesis in samples after annealing: streamlining processes in materials are based on Fe and Pt and the formation of magnetic phases germanides  $\text{FeGe}_x$  systems is based on Fe and Ge.

**FOREIGN DIRECT INVESTMENT AS A FACTOR  
OF THE REGION SOCIO-ECONOMIC DEVELOPMENT**

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Foreign direct investment (FDI) is quite important element in social and economic development of the region. The paper states that foreign direct investment is one of the most common forms of international capital. Interpretation of this concept is studied from different approaches. Various authors shift the emphasis in their interpretations, but the essence of this concept remains the same.

Historically, each author tried to more fully describe the origin of this phenomenon and the conditions under which it occurs. As a result - there are many theories of foreign direct investment. The work analyzes the basic theory of foreign direct investment and finds that each theory has its own characteristic features and corresponds to a particular interval. In general they are divided into micro and macro levels. Theories attempt to explain the nature of direct investment, as well as identify the key factors used by investors when choosing investment object. It was also found that at the present stage of development there is a new theory, which combines features of macro and micro level theories. The main objective of the new theory is to describe more fully the phenomenon of foreign investment taking into account the maximum number of factors.

FDI is valuable for the region, because above all, it helps to bring the region to a new level of development. The foreign direct investment, if properly and clearly arranged, allows the region to use the latest production technologies, update time fixed capital, create new jobs and attract not only manpower of particular region, but also closely arranged administrative units.

Using correlation regression analysis, two economic and mathematical models were built. On the basis of these models it was found that the concept of direct foreign investment is closely linked with other economic characteristics such as average wages, the exchange rate and gross regional product as a major indicator of economic development. On the basis of the other model it was proved that direct foreign investments directly and heavily influence the gross regional product.

Sumy Region State Administration, as the local executive body, performs a number of tasks on foreign direct investment to the region. Within the powers defined by the legislation of Ukraine, Sumy Regional Administration performs tasks related to foreign trade and investment activities. There were identified some important functions such as creating

a favorable investment climate in the region, encouraging foreign investors who come to the region, the organizing diplomatic visits on foreign investment, organizing and preparing the projects to attract foreign investment. The result of this work was the implementation of projects to create two industrial parks in the region, as well as to attract foreign investors to cooperate in many industrial enterprises of the region. The high efficiency of these projects made it possible to prove a significant effect of FDI on economic and social development of Sumy region.

A number of obstacles to the realization of international investment projects have been identified. The largest of these is the transfer of funds through offshore centers, and then their investment in Ukraine, lack of compliance with the requirements of legislation, which are normally used to foreign investors and the lack of sufficiently clear and transparent activities of public authorities in the cooperation with foreign producers.

Based on the identified barriers there are some ways to overcome them. They may be:

- to create so-called "investment map" investor and to develop it on a "credit history" in the US, that is, to make a special public register of all the companies to which an enterprise invested, and its financial performance;
- to develop a certain type of investor reporting to the company and state authorities about his activities, which would help to monitor its activity and capital flows in and out of the enterprise;
- to provide public authorities to validate investor activity.

The main advantages of Sumy region that can attract additional foreign investment are: a favorable geographic location, the nodal lines, geographical proximity to the border.

## **SOME BENEFITS OF LEARNING A FOREIGN LANGUAGE**

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Learning a new language takes time and dedication. Being fluent in a second language offers numerous benefits and opportunities. Learning a foreign language is exciting and beneficial at all ages. It offers practical, intellectual and many aspirational benefits. Today there are more than 7000 languages and learning at least one can do a lot of good. Although it has been proven that it is easier for children to learn a second language, it is obviously never too late to learn. Whatever your age, being bilingual certainly has advantages. Physiological studies have found that speaking two or more languages is a great asset to the cognitive process. The brains of bilingual