SOCIAL AND GEOGRAPHICAL FEATURES OF THE FORMATION OF THE INTELLECTUAL POTENTIAL OF CHERNIVTSI OBLAST

The article studies the peculiarities of the formation of intellectual potential of Chernivtsi oblast by analyzing its components, and also analyzes the participation of students in student competitions in subjects and in the competition-defense of research works of students of the Small Academy of Sciences of Ukraine, as well as their results. The analysis of gender peculiarities of students’ participation in the researched competitions is carried out, and also the geographical factors influencing formation of intellectual potential are considered.

In 2019, there were 372 preschool educational institutions, 403 general secondary education institutions, 16 vocational education institutions and 16 higher education institutions in Chernivtsi oblast, which provided relevant educational services and formed the intellectual potential of the region. In Chernivtsi oblast in the 2019-2020 academic year, 1,814 students took part in the III stage of academic competitions. The largest number of participants was observed at the academic competition in geography, Ukrainian language and literature, and biology. In total, 845 participants took top places. The best results were shown by students of Chernivtsi, Storozyntsi AH, Novoselitsya AH and students of Kelmenski rayon. As for the all-Ukrainian competition-defense of research works, in 2020 378 students took part in the competition, of which 187 participants took top places. The best results, as in the academic competition, were demonstrated by students from Chernivtsi and Putila rayon. Territorial differences in the development of intellectual potential occur under the influence of economic, demographic, legal, environmental, natural and other factors. The following indicators correlate most with the number of points scored by teams: the number of educational institutions in the rayon; share of new type of institutions (gymnasiums, lyceums, etc.); language of instruction.

The gender structure of participants and winners of these intellectual competitions deserves a special attention. Girls predominate in the gender structure of participants and winners of the academic competition and defense competition in most subjects, especially in subjects of the philological and philosophical cycle, while the number of boys predominates in the academic competitions of the physical and mathematical cycle. Thus, in Chernivtsi oblast there is a significant differentiation between territorial and administrative units according to the results of the III stage of student academic competitions in basic disciplines and the competition-defense of scientific works of students-members of the Small Academy of Sciences.

Key words: intellectual potential, education, general secondary education institution, student academic competition, competition-defense of scientific works.
Проведен аналіз гендерних особливостей участі учнів в існуючих конкурсах, а також розглянуто ряд факторів, які впливають на формування інтелектуального потенціалу.

В 2019 році в Чернівецькій області функціонувало 372 дошкільних учебних закладів, 403 учительства об'єднання різних образованих наукових і фахових заходів, які формували інтелектуальний потенціал області. Всего в Чернівецькій області в олимпіадах прийшло участь 1814 учнів, з яких призового місця отримали 845 учнів. Лучші результати продемонстрували учні Чернівці, Клопинського району. Зокрема в усіх конкурсах-зацій вивчено науковські і мистецькі, фізичні, математичні, інформаційні, інноваційні, соціально-економічні, інтелектуальні та інші заходи, які вивчено науковські і мистецькі, фізичні, математичні, інформаційні, інноваційні, соціально-економічні, інтелектуальні та інші заходи.

Едукация is one of the determining factors in shaping the economic capacity of the state. The main criterion for assessing the level of development of education is the total intellectual potential of the region, the effective use of which contributes to strengthening the economic and political competitiveness of the state in the world and Europe. Socio-geographical studies of the intellectual potential of the region are designed to identify the factors of its formation, territorial differentiation of development and ways of implementation in the economy of the region and the state as a whole. Modern education reform in Ukraine will not only change the network of institutions that make up the educational space, but also redistribute the existing cumulative and specific intellectual potential of regions, which will have a significant impact on changes in various sectors of the economy and the state as a whole. For the first time, this will be reflected in the change in the territorial structure of those industries that focus on the scientific potential and entrepreneurial skills of employees.

An important stage in the study of the intellectual potential of the region is the assessment of student achievement in various intellectual competitions, including two, namely student school competitions in subjects and competition-defense of research papers of students of the Small Academy of Sciences of Ukraine, the results of which are taken into account at universities of Ukraine. These studies show the prospects for the development of a particular type of intellectual potential, the possibility of successful operation of relevant areas of training, specialties or educational programs in universities in the region, and accordingly the training of highly qualified specialists for the development of certain sectors. Therefore, the research topic is quite relevant, has a high practical value and its results can be used in developing strategies for forming a network of specialized institutions of higher secondary education, training future employees in vocational and higher education institutions, as well as planning the development of certain industries that are oriented on scientific staff and scientific potential.

Analysis of recent research and publications. In modern domestic and foreign literature there are many scientific works devoted to the study of intellectual potential. It should be noted that most of the works of scientists study the intellectual potential as one of the components of economic development of the state or individual regions.

Such foreign economists as D. Ricardo, D. Bell, T. Schultz, G. Becker, K. Sweiby, M. Malone, A. Toffer, M. Fisher, T. Stewart and others devoted their works to the study of intellectual potential, namely such its components as education, science, intellectual capital. Among domestic economists, O. Grishnova, S. Zlupko, I. Revak, B. Leonitiev, I. Revak, B. Leonitiev, L. Semiv, I. Revak, B. Leonitiev, T. Baulina, N. Ushenko, A. Gaponenko, S. Filippova, and K. Kovtunenko and others paid considerable attention to the comprehensive study of the concept of intellectual potential. The essence, content, formation, assessment of the intellectual potential are studied in the works of N. Verkhoglyadov, L. Dyba, T. Nosov, Y. Kanygin, I. Maksymenko, B. Titov, V. Petrenko, L. LV. Marchuk, Yu. Gava, M. Rosumnyi.

Socio-geographical studies of intellectual potential in Ukraine began in the last quarter of the twentieth century, and today there is insufficient study, as well as the actual lack of a single scientific and methodological view of this scientific concept, its selection, classification and importance in economic development. It is worth noting the works of such scientific geographers as: M. Palamarchuk, V. Nagirna, O. Shably, O. Topchiev, J. Oliynyk, T. Nych, O. Naumchuk and others. Their works consider a number of aspects of the formation and use of intellectual potential, as well as reveal the essence of the concept of “intellectual potential” as an object of socio-geographical research.

Setting objectives. The purpose of this study was a socio-geographical analysis of spatial differences in the intellectual potential of the region in the near future by studying the effectiveness of students in the all-Ukrainian student academic competitions and competition-defense of research papers of students of the Small Academy of Sciences of Ukraine. Based on the goal, we set the following tasks: to explore the essence of the concept of “intellectual potential”; to characterize the components of the intellectual potential of Chernivtsi oblast; to identify the spatial features of the formation of
intellectual potential of Chernivtsi oblast; to analyze the territorial differences of students’ participation in various intellectual competitions of the studied region.

Presentation of the main research material. In the modern scientific literature there are different definitions of the term “intellectual potential”. Thus, Yu. Gava considers intellectual potential as a set of human, material and intangible potential [2], and B. Danlylyshyn and V. Kutsenko consider intellectual potential as a purposeful active set of employees with the appropriate educational and qualification level, i.e. with their knowledge and skills [3]. N. Verkhohlyadova and O. Sidorov believe that intellectual potential is a part of intellectual resources that have the potential ability in the process of their formation and use to turn into intellectual capital [1]. T. Nych considers the intellectual potential as a system of intellectual resources with their knowledge, creative intellectual abilities and capabilities, infrastructural assets and intellectual property and market assets. According to her, it forms the intellectual capital of the region and its intellectual security. Depending on the territory, the following levels of intellectual potential formation are distinguished: national (state), regional, branch, local (settlement, enterprise or institution) [7].

According to O. Naumchuk, intellectual potential is a generalized characteristic of intellectual resources, according to place and time. Intellectual potential is greater than intellectual resources, because intellectual potential is the opportunities provided by intellectual resources at a certain time and in the future that can be used to achieve a certain goal. O. Naumchuk in the structure of the intellectual potential of the region identifies the following components: educational potential, scientific potential, innovation potential and cultural potential [5].

Three groups of factors contribute to the formation of the intellectual potential of the region: natural (creative abilities of individuals, public health, demographic situation in the country, the state of the environment); economic (state demographic policy, employment policy, state of labor resources, financing of science and education, the value of national income per capita, social protection system, pricing mechanism in the market of intellectual products, wage system); institutional (legislative regulation of intellectual activity, mechanism of protection of intellectual property) [5].

The basis of the development of intellectual potential is educational and scientific potential, because they are the basis of scientific and technological progress, without which it is impossible to imagine the successful development of the state.

The initial stage in the formation of intellectual potential is preschool education. In 2019, there were 372 pre-school institutions in Chernivtsi oblast, which is 9 institutions less than in 2017, when their number was the largest – 381 institutions. Most institutions operate in Chernivtsi – 59 and Storozhynets rayon – 39, and the least in Novodnistrovsk – 3. Preschools educated more than 31 thousand children, and the coverage of children in preschools was 62%, which is the highest figure since 2000. In the region, there is a significant differentiation in the coverage of children with disabilities in urban (88%) and rural (47%) areas. An important aspect in the context of further formation of the intellectual potential of the region is the language of education of students. In 2019, 89.3% of children with IPE were educated in the Ukrainian language, which is 4% less than in 2000. Education is also conducted in Romanian 10.7%, and by 2015 also in Russian [17].

The next stage in the formation of the intellectual potential of the region is general secondary education. Since 2000, the number of ZSSO has been gradually decreasing from 462 institutions (which is the largest figure since independence) to 402 general secondary education institutions operating in Chernivtsi oblast as of September 1, 2019. Most institutions are concentrated in Chernivtsi and Storozhynets rayon (59 and 46 respectively). As for students, by 2015 there was a significant decrease in their number from 143 thousand in 1991 to 97.6 thousand in 2015, and since 2016 there has been a slight increase in their number to 105.5 thousand persons as of September 1, 2019 [17].

An important aspect of the study of the intellectual potential of the oblast region is the study of the level of knowledge of students. Determining the level of students’ knowledge can be done through such intellectual competitions as the All-Ukrainian Olympiads in academic subjects and the All-Ukrainian competition-defense of research works of students of the Small Academy of Sciences of Ukraine.

All-Ukrainian student academic competitions in academic subjects are a kind of intellectual competitions in the educational space of Ukraine, designed to encourage young students to study certain subjects. Currently, competitions are held in 26 subjects (Ukrainian language and literature, foreign languages (English, Spanish, French, German), law, history, economics, mathematics, biology, geography, astronomy, physics, chemistry, ecology, computer science, information technology, labor education (technology), languages and literatures of national minorities (Russian, Polish, Hungarian, Romanian, Bulgarian, Moldavian, Modern Greek, Hebrew)) and take place in IV stages: I stage - school; II stage - rayon (city); III stage - oblast; IV stage - All-Ukrainian [10].

In the 2019-2020 academic year, according to the Order of the Department of Education and Science of the Chernivtsi Oblast State Administration, competitions in Chernivtsi oblast were held in 20 subjects for students of grades 7-11 [12].

In Chernivtsi oblast in the 2019-2020 academic year, 1,814 students took part in the III stage of student competitions. The largest number of participants was observed in the academic competition in geography, Ukrainian language and literature, history and biology, the smallest – in the academic competition in Jewish language and literature, astronomy and economics (Fig. 1).

In total, in the 2019-2020 academic year, 845 students won prizes, of which: 91 – I place; 273 – II place; 481 – III place.

We determined the rating of the teams of Chernivtsi oblast based on the results of their performances at the III stage of student competitions in basic disciplines, based on the points scored. For each diploma received by a member of the team, the following number of points...
was awarded: I degree diploma – 3 points; II degree diploma – 2 points; III degree diploma – 1 point.

The highest number of points according to the results of the III stage of student competitions was won by the team from Chernivtsi (553 points). Students of Storozhynets AH (69), Novoselytsia AH (63) and students of Kelmetsi region (49) won a fairly large number of points. The lowest number of points was obtained by students of Vikno AH, who did not take any top places, Stavchany AH, Seliatyn AH, Krasnoilsk AH and Voloka AH, that received 1 point each (Fig. 2).

The general rating of teams is quite interesting. This rating was calculated by the following formula:

$$ R_{gen} = \frac{\sum \text{points}}{N + Z} $$

where $N$ – this is the total number of parallels in which student competitions in certain subjects were held, and is 71; $Z$ – this is the quantitative composition of teams for the III stage in each subject from each parallel.

According to the Order of the Department of Education and Science of the Chernivtsi Oblast State Administration, the number of team members in each subject and class is determined by the number of schools and students in the rayon, AH or city. For example, Chernivtsi in the III stage of student competitions can delegate 8 participants from each class, while the team of Kitsman AH – 2 participants, and Chahor AH – only 1 participant [12].

According to the general rating, the absolute leader is Chernivtsi (0.97). The teams of Novoselytsia AH (0.3), Hlyboka AH (0.28), Klishkivtsi AH (0.28), Mamayivtsi AH (0.28), Sokyryany AH (0.28) showed quite a high result.

As for educational institutions, the absolute leader
of the rating is Chernivtsi Lyceum №1 of mathematical and economic specializations – 112 points. The second and third places were taken by Taras Shevchenko Chernivtsi Gymnasium №1 (56) and Chernivtsi Lyceum №3 of medical specialization (55), respectively. More than half of the points scored in these educational institutions are the results of competitions in their specialization subjects. For example, students of Chernivtsi Lyceum №1 of mathematical and economic specializations, took most of top places in academic competitions in mathematics, computer science, physics and astronomy, and students of T.G. Shevchenko Chernivtsi Gymnasium №1 – at competitions in German and English.

Quite high results were shown by students of the following educational institutions: Chernivtsi Gymnasium №4, Novoselytsia Secondary School №3 of I-III degrees – basic institution, Chernivtsi Gymnasium №5, basic institution Storozhynets Lyceum, Hlyboka Lyceum, Chernivtsi Gymnasium №2, Kelmentsi Lyceum – basic institution, Chernivtsi Gymnasium №7. In total, students of 193 general secondary education institutions took top places.

Another important intellectual competition is the all-Ukrainian competition-defense of research works of students-members of the Small Academy of Sciences of Ukraine. The main objectives of the competition are to identify and support gifted children, to involve intellectual and creatively gifted students in research and experimental work, to form an active civic position of students, to educate them in independence, perseverance, ability to form and defend their own opinion [10].

In 2020, 378 students took part in the second stage of the all-Ukrainian competition-defense of research works. The competition was held in 48 sections, which were grouped into 11 departments [13].

The largest number of works was presented in the department of Earth Sciences (88) and in the department of Literary Studies, Folklore and Art Studies (56) (Fig. 3). In general, in 2020, representatives of almost all administrative-territorial units of the oblast took part in the competition. The largest number of works was presented by students from Chernivtsi and Putyla rayon.

Top places at the II stage of the competition were taken by 187 participants of the competition, who study in 71 GSEI. Students of Chernivtsi Lyceum №1 (20), Putyla Gymnasium (18), Chernivtsi Lyceum №3 of medical specialization (18) and Chernivtsi Gymnasium №2 (16) received the highest number of points according to the results of the competition-defense of research works.

Based on the analysis, we propose to identify the following groups of administrative-territorial units of the oblast according to the level of students’ results at the III stage of student competitions in basic disciplines:

I group (high level) – Chernivtsi. This type is characterized by a large number of GSEI, including institutions of a new type. Institutions with in-depth or specialized study of individual subjects gained the largest share of points scored. It was from these competitions that they received the highest number of points;

Type II (intermediate level) – Storozhynets AH, Novoselytsia AH, Kelmentsi rayon, Hlyboka AH, Vyzhnytsia rayon, Vyzhnytsia AH, Kitsman AH, Hlyboka rayon, Kitsman rayon, Zastavna rayon, Sokyrany rayon, Klishtivtsi AH, Mamayivtsi AH, Sokyrany AH, Putyla rayon and Khotyn AH. The main feature of this group is that most of the points scored were obtained by students of one or two educational institutions. Another feature here is top places in almost all competitions.

Type III (lower middle level) – Hertsa AH, Kon-
Since 2000, higher education institutions of the university and other tertiary (excluding the academic competition of the SAS, the situation is a bit different compared to the academic competitions. A total of 378 students took part in the competition, of which 136 boys (36%) and 242 girls (64%).

The largest share of girls took part in the defense of scientific papers in the departments of literary studies, folklore and art history (93%), linguistics (83%) and in the department of chemistry and biology (76%), while no girl took part in the defense of works in the economics section. Also a fairly low proportion of girls participated in the defense of scientific papers in the departments of computer science (8%) and physics, astronomy and technical sciences (9%). Approximate gender equality of participants is observed only in the Department of Earth Sciences.

A total of 116 girls (1 - 21, II - 33, III - 62) and 71 (1 - 16, II - 21, III - 34) boys or 62% and 38% respectively took top places.

In general, one can notice an interesting relationship between subjects and the gender relations of their participants. In intellectual competitions in subjects of philology and philosophy, girls show their knowledge better, while in subjects of physics and mathematics — boys.

Also, the components of intellectual potential include out-of-school educational institutions, which conduct a variety of educational, training and research work with young students. There are 45 out-of-school educational institutions (21 specialized, 9 complex and 15 children’s and youth sports schools) in Chernivtsi region, in which 1421 clubs with 29,622 students are created. Among the areas of activity are dominated by sports, artistic, aesthetic and scientific and technical. It should be noted that there is only 1 research and experimental institution in the region — KOPNZ “Bukovynian Small Academy of Sciences for Student Youth” [18].

The highest level of formation of the intellectual potential of the region is vocational education institutions, higher education institutions and research institutions. In the Chernivtsi oblast, since 2005, there are 16 institutions of vocational (professional and technical) education, which currently have about 6 thousand people. During 2019, 2.9 thousand people graduated from vocational education institutions, which is the lowest figure since 2000. Higher education institutions of the region are represented by all levels of accreditation. As of the beginning of the 2019-2020 academic year, 6.8 thousand people studied in colleges, technical schools and colleges, which is almost 2 times less than in 2000. With regard to higher education institutions of III-IV level of accreditation, there are 3 such institutions in the region, which enroll 19.8 thousand students, of whom 76.8% studied full-time and 23.2% part-time. In 2019, 2002 masters, 540 specialists, 3141 bachelors and 2502 junior specialists were trained. Also, at the end of 2019, postgraduate students were trained in 3 higher education institutions in the region and doctoral students were trained in 2 institutions. In 2019, 244 postgraduate students and 10 doctoral students were trained [17].
Fig. 4. The gender structure of the winners in the III stage of student competitions in basic disciplines and the competition-defense of works of SAS.

One of the aspects of the structure of intellectual potential is functional-managerial – organizations and institutions that manage the system of intellectual potential and influence the development of educational and scientific objects, their interaction with the external environment and effective solution of tasks. They are formed at the level of oblasts, rayons and territorial communities, as well as within educational districts [7].

Conclusions. The study of the intellectual potential of the region from the standpoint of social geography is a new direction of scientific knowledge. Intellectual potential is a set of intellectual resources with their knowledge. The structure of intellectual potential is preschool education, complete general secondary education; extracurricular education, specialized education, professional (vocational) education, professional higher education and higher education.

In 2019, there were 372 preschool institutions in Chernivtsi oblast, which educated more than 31 thousand children, and the coverage of children by preschool institutions was 62%. The next stage in the formation of the intellectual potential of the region is general secondary education. In the Chernivtsi oblast there are 402 ZZSO, in which studied 105.5 thousand students. Girls predominate in the gender structure of participants and winners of the academic competition and defense competition in most subjects. The number of boys predominates in competitions in computer science, mathematics, physics and astronomy.

There are also 16 vocational education institutions and 16 higher education institutions in the region. These institutions are mainly located in urban settlements, and most of them are in Chernivtsi.

As for the results of the third stage of student competitions in basic disciplines and competition-defense of scientific works of students of the Small Academy of Sciences, the best results are demonstrated by students of Chernivtsi, which can be justified by a significant number and, consequently, greater competition in the second stage of the competition, as well as a large number of institutions with in-depth or specialized study of individual subjects. Students of Storozhynets, Novoselytsia, and Hlyboka communities, as well as Kelmenets rayon, also show quite high results. Girls predominate in the gender structure of participants and winners of the academic competitions and defense competition in most subjects. The number of boys predominates in competitions in computer science, mathematics, physics and astronomy.

Thus, the intellectual potential is the basis of economic growth in the region, because in fact it further forms the intellectual capital.

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