

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
V.N. KARAZIN KHARKIV NATIONAL UNIVERSITY

THE SCHOOL OF FOREIGN LANGUAGES

ENGLISH LANGUAGE DEPARTMENT



PROGRAM  
OF STUDENT SCIENTIFIC CONFERENCE

**«ACADEMIC AND SCIENTIFIC CHALLENGES  
OF DIVERSE FIELDS OF KNOWLEDGE  
IN THE 21<sup>st</sup> CENTURY»**

February, 26 2016



Kharkiv 2016

**Organizing Committee of the Conference**  
**Head of the Organisation Committee:**

Chornovol-Tkachenko O.O. PhD in Philology, Associate Professor, Head of the  
English Language Department,  
V.N. Karazin KhNU

**Members of the Organizing Committee:**

PhD in Philology, Associate Professor Tkalya I.A.

PhD in Philology, Associate Professor Serdiuk V.M.

PhD in Pedagogics, Associate Professor Kotova A.V.

Senior Lecturer Cherkashina N.I.

**Secretaries:** Babaieva A.H., Ovcharova H.O., Peshkova O.H.

**Agenda of the Conference**

11.30 – 13.00	Registration of the participants (the main building of the university, the 10-th floor, English Language Department, room 10 – 10)
13.30 – 17.00	Opening of the Conference. Sessions
17.15 – 17.30	Closing of the Conference

**SECTION I. HUMANITIES**  
**(Economics, International Relations, Law, Philology, Journalism, History,  
Literature, Philosophy, Sociology, Political Studies)**

Chairpersons: *PhD Tkalya Irina Anatolyivna,*  
*PhD Voronina Kamila Vladyslavivna*

**Room 10-10**

1.	Alokhina A. M. (Charkiv) Language Supervisor: Gusak O. G.	<b>DIE ETHISCHEN PROBLEMEN DER STERBEHILFE</b>
2.	Artyomenko N.A. (Kharkiv) Language supervisor: Bevz N.V.	<b>THE DOCTRINE OF BISTAMI AS A REFLECTION OF HELLENISTIC PHILOSOPHY IN THE EARLY ISLAMIC MYSTICISM</b>
3.	Bobyleva J.O. (Kharkiv), Bogomol Y. R. (Kharkiv) Consultant de langue française : Chamrai O.V.	<b>DESCRIPTION GENERALE ET CONSISTANCE DU RESEAU ROUTIER EN UKRAINE</b>
4.	Bondarenko M.I. (Kharkiv) Language supervisor: Chornovol-Tkachenko O.O.	<b>THE STATE AND PERSPECTIVES OF HIGHER EDUCATION DEVELOPMENT IN UKRAINE IN THE CONTEXT OF EUROPEAN INTEGRATION</b>
5.	Cherkashyna A.V. (Kharkiv) Language supervisor: Chornovol-Tkachenko O.O.	<b>MULTINATIONAL CORPORATION'S ACTIVITIES IN THE WORLD FOOD AND BEVERAGE MARKET IN THE AGE OF GLOBALIZATION</b>
6.	Chernova D.C. (Kharkiv) Language supervisor: Strelchenko D.V.	<b>VIOLATIONS OF JOURNALISTS' RIGHTS AND WAYS TO SOLVE THIS PROBLEM</b>
7.	Chuchmai G. Y. (Kharkiv) Language supervisor: Chornovol-Tkachenko O.O.	<b>THE ANALYS OF TESLA'S MARKET AND PRODUCT DEVELOPMENT STRATEGIES</b>
8.	Dvukhglavova E.D. (Kharkiv) Language supervisor: Tkalya I.N. Scientific supervisor: Vakulenko S.N.	<b>PROBLEMS OF SOCIAL WORK IMAGE</b>
9.	Dykan B. (Kharkiv) Language supervisor: Anna G. Guseva (PhD)	<b>THE HISTORY OF SOCIOLOGY AS AN INSTRUMENT OF THE CRITICAL SOCIOLOGY</b>
10.	El-nache D.J. (Kharkiv) Language supervisor:	<b>MODERN JORDANIAN EDUCATION IN THE ERA OF</b>

	Shumska O.O.	<b>GLOBALIZATION</b>
11.	Galushchak A.S. (Kharkov) Language supervisor: Chernysh T.V.	<b>PROFESSIONAL IMAGE</b>
12.	Golub A.Ye. Language supervisor: Petrushko A.A.	<b>REFLECTION OF FITZGERALD'S PERSONALITY IN HIS CHARACTERS</b>
13.	Khabarova A.V. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>ECCLESIASTICAL AND RELIGIOUS ACTIVITY OF METROPOLITAN ANDREI SHEPTICKIY</b>
14.	Khlystun K.W. (Kharkiv) Scientific supervisor: Gusak O.H.	<b>TEXT – UND STILUNTERSUCHUNG DES ARTIKELS „DER MENSCH“</b>
15.	Kolomiets M. O. (Kharkiv) Language supervisor: Avdeenko I.N.	<b>THE QUESTION OF THE DEATH PENALTY</b>
16.	Korniyenko O.V. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>ROLE OF FASHION IN THE VALUE SYSTEM OF SOVIET SOCIETY: BETWEEN MYTH AND REALITY</b>
17.	Kot A.V. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>THE FEATURES OF SETTLEMENT DEVELOPMENT SYSTEM IN THE KHARKIV REGION</b>
18.	Kravchenko K.O. (Kharkiv) Language supervisor: Tkalya I.A.	<b>THE FEATURES OF SETTLEMENT DEVELOPMENT SYSTEM IN THE KHARKIV REGION</b>
19.	Krivich O.L Supervisor: Strelchenko D.V, Rabyh N.V	<b>INTERACTIVE GAMES IN EFL CLASS</b>
20.	Kryuchkova Y. V. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>THE PERSONALITY OF ALEXANDER THE GREAT</b>
21.	Krykova O.I. (Kharkiv) Language supervisor: Chernovol-Tkachenko O.O.	<b>ECOLINGUISTICAL APPROACH TO THE STUDY OF LOANWORDS IN THE ENGLISH LANGUAGE</b>
22.	Lavrinova D.M. (Kharkiv) Language supervisor: Savchenko N.M.	<b>RELIGION WARS IN 21<sup>ST</sup> CENTURY AND THEIR INFLUENCE ON SCIENCE'S DEVELOPMENT</b>

23.	Levyk O. A. (Kharkiv) Language supervisor: Skryl O. I.	<b>THE CABINET OF MINISTERS OF UKRAINE. THE STRUCTURE AND DIVISION OF RESPONSIBILITIES AMONG THE MEMBERS OF THE GOVERNMENT.</b>
24.	Lyannaya Y. I.(Kharkiv) Language supervisor: Chernysh T. V.	<b>THE NATURE OF SELF-LOVE OF THE MODERN WORLD</b>
25.	Lytvyn O.E. (Kharkiv) Language Supervisor: Peshkova O.G.	<b>ARABIAN GLOBALISM AS A NEW PHENOMENON OF THE ARABIAN-MUSLIM COUNTRIES</b>
26.	Makarov A.V. (Kharkiv) Language supervisor: Chernovol-Tkachenko O.O.	<b>TRANSNATIONAL CORPORATIONS INFLUENCE ON THE GLOBAL ECONOMY AND FORMING OF MODERN INTERNATIONAL ECONOMIC RELATIONS</b>
27.	Masalitina K. S. (Kharkiv) Language supervisor: Voronina K. V.	<b>SOME ASPECTS OF THE PROCEDURAL STATUS OF MINORS IN THE CRIMINAL PROCEEDINGS OF UKRAINE</b>
28.	Maslennikova A.L. (Kharkiv) Language supervisor: Stupnitskaya N. N.	<b>MATHEMATICS AND ART</b>
29.	Maximovich M. (Kharkiv), Tolkachev V. (Kharkiv) Sprachliche Betreuerin: V.V. Samarina	<b>AKTIVE SICHERHEITSSYSTEME</b>
30.	Melnyk V. M. (Kyiv) Scientific supervisor: prof. Kyryliuk F. M.	<b>CZECHOSLOVAKIA AS A VICTIM OF ITS OWN DOMESTIC POLITICAL PROJECT</b>
31.	Nevmirich A.S. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>THE JARGON AS AN INTEGRAL PART OF MODERN VOCABULARY</b>
32.	Ott M. (Kharkiv) Language supervisor: Anna G. Guseva	<b>POLYCULTURE OF UKRAINIAN SOCIETY IN THE CONTEXT OF THE ROMA DIASPORA</b>
33.	Poklonskaya M.A. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>WOMEN'S SUFFRAGE MOVEMENT IN THE UNITED STATES OF AMERICA</b>
34.	Romanika T.K. (Kharkiv)	<b>THE ENDOWMENT FUND AS A</b>

	Language supervisor: Chernovol-Tkachenko O.O.	<b>SOURCE TO FINANCE EDUCATIONAL ACTIVITIES IN UKRAINE</b>
35.	Shyrokorad Y. E. (Kharkiv) Language supervisor: Chernovol-Tkachenko O.O.	<b>THE GLOBAL FOOD PROBLEM PHENOMENON AT THE PRESENT STAGE OF INTERNATIONAL RELATIONS DEVELOPMENT</b>
36.	Simonenko Y.V. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>THEORY OF MORPHOLOGY AND MORPHOLOGY IN ACTION: MAIN ASPECTS</b>
37.	Siryk T.U. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>THE FORMATION OF THE UKRAINIAN COSSACKS</b>
38.	Sologub K. S. (Kharkiv) Language supervisor: M. L. Ilchenko	<b>WAYS OF NEOLOGISM TRANSLATION</b>
39.	Sovrasova A.E. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>HISTORICAL PECULIARITIES OF JAPANESE WRITING SYSTEM</b>
40.	Surin D.V. (Kharkiv) Language supervisor: Chernovol-Tkachenko O.O.	<b>PROBLEMS OF THE OVER-THE-COUNTER (OTC) MARKET DEVELOPMENT IN UKRAINE</b>
41.	Sviatukha I.A. (Kharkiv) Language Supervisor: Chernovol-Tkachenko O.O.	<b>POTENTIAL EFFECT OF NBIC-CONVERGENCE ON THE EVOLUTION OF CIVILIZATION</b>
42.	Tarasenko M. D. . (Kharkiv) Scientific supervisor: Soldatenko I. A. Language supervisor: Tkalya I. A.	<b>CURRENT STATE OF PR INDUSTRY IN UKRAINE</b>
43.	Varshanidze N.V. (Kharkiv) Language supervisor: Serdiuk V.M.	<b>THE GREAT PANATHENAIA – THE MAIN HOLIDAY OF ATHENS</b>
44.	Yurut K.A. (Khmelnyskyi) Language supervisor: Nagorna O.O.	<b>THE PROBLEM OF WOMEN INDEPENDENCE IN GREAT BRITAIN</b>
45.	Zakhlypa D. A. (Kharkiv) Language supervisor: Bevz N. V.	<b>LITERATURE AND PHILOSOPHY: AESTHETICISM AND ABSURDISM</b>
46.	Zaporozhchenko R.O. (Kharkiv) Language Supervisor: Peshkova O.G.	<b>APPLICABILITY OF A. TOYNBEE'S CONCEPTS "CHALLENGE / RESPONSE" TO</b>

		<b>THE CONCEPT OF "EMPIRE"</b>
47.	Zubaha D.V. (Kharkiv) Language supervision: Voronina K.V.	<b>PRESSING PROBLEMS OF INVESTIGATING MURDERS COMMITTED BY THE INSANE</b>

**SECTION II.  
NATURAL SCIENCES.**

Chairpersons: Senior Lecturer *Cherkashina Nadiya Ivanivna,*  
*Belyaeva Elina Fedorivna*

**Room 7-75**

1.	Babayev M. V. (Kharkiv) Language supervisor: Belyaeva E. F.	<b>TREATMENT OF MYASTHENIA GRAVIS</b>
2.	Balyuk A.S. (Kharkiv) Language supervisor: Lieshnova N.	<b>ABO BLOOD AND HUMAN ORIGINS</b>
3.	Blazhynska M.M. Science supervisor: Kyrychenko A.V. Language supervisor: Matviichuk O.M.	<b>ANTIBACTERIAL PROPERTIES OF SILVER NANOPARTICLES</b>
4.	Borodin O.O. (Kharkiv) Language supervisor: Kholmogortseva I.S.	<b>ANTICANCER DRUGS: CURRENT STATE AND OUTLOOK</b>
5.	Khalil R.I (Kharkiv) Language supervisor: Tashchenko G. V.	<b>ALCOHOLISM: MEDICAL PROBLEM WITH SOCIAL AFTER-EFFECT</b>
6.	Kravchuk I. V. (Khmelnitsky) Supervisor in Law: Melanchuk A.V. Language supervisor: Gumenchuk O. Ye.	<b>EUTHANASIA: DIGNIFIED DEATH OR MURDER</b>
7.	Kucherenko V. A. (Kharkiv) Language supervisor: Beliaeva E. F.	<b>BOTULINUM TOXIN IN MEDICAL TREATMENT</b>
8.	Matveeva Karina (Kharkiv) Scientific advisor Cherkashina N.I.	<b>ACIDIC SOILS OF KHARKIV REGION</b>
9.	Mazanov M. V. (Kharkiv) Language supervisor: Orach Yu. V.	<b>THE POSSIBILITY OF OBTAINING TOMOGRAPHY IMAGES IN A SCANNING</b>

		<b>MICRO AND NANO THERMOGRAPHY</b>
10.	Musiienko Ya.V. (Kharkiv) Scientific supervisor: Gorbachiov P.F. O.S. Gubareva	<b>DEVELOPMENT OF TRAVEL DEMAND MODELS</b>
11.	Ovcharenko A.Y. (Kharkiv) Language supervisor: Bondar S. M.	<b>ENVIRONMENTAL PROBLEMS AND THEIR SOLUTIONS</b>
12.	Poloshkina E. M. (Kharkiv) Scientific supervisor: Borisenko K.B. Language supervisor: Bondar S. M.	<b>THE MAIN CRITERIA OF CLASSIFICATION OF EXCURSIONS</b>
13.	Pyatash D.R. (Kharkiv) Language supervisor: Bondar S.N.	<b>THE ROLE OF TREES IN OUR LIFE</b>
14.	Raspopova D. (Kharkiv) Language supervisor: Kotova A. V.	<b>THE CAT'S WHISKER</b>
15.	Redina I. V. (Kharkiv) Language supervisor: Beliaeva E. F.	<b>THE ARCHITECTURE AND PHYSIOLOGY OF SLEEP</b>
16.	Sadovskaya K.V. (Kharkiv) Language supervisor: Tashchenko G. V.	<b>IMPORTANCE OF SLEEP</b>
17.	Samoylov S. (Kharkiv) Language supervisor: Lenskaya O.O.	<b>VEGETATION</b>
18.	Shevchenko N. I. (Kharkiv) Language supervisor: Beliaeva E. F.	<b>SPLIT-THICKNESS SKIN GRAFTING IN DIABETIC WOUND</b>
19.	Shomina A.D. (Kharkiv) Scientific supervisor: Matveyev A.V. Language supervisor: Bondar S.N.	<b>FORAMINIFERS OF TURONIAN STAGE IN RAIGORODSKII CHALK DESPOSITS</b>
20.	Trokhymchuk R. R. (Kramatorsk) Language supervisor: Prokopenko A. A.	<b>MOLLUSKS OF LARGE STORAGE POOLS OF THE SEVERSKIY DONETS BASIN</b>
21.	Tsehmistrova J. V. (Kharkiv) Scientific Advisor – Cherkashina N. I	<b>EDUCATION FOR SUSTAINABLE DEVELOPMENT: PRO AND CONTRA</b>
22.	Voronin V.O. (Kharkiv) Language supervisor: Cherkashyna N.I., Maksymenko N.V.	<b>FOREST PROTECTION AGAINST FIRES</b>



**SECTION III.  
TECHNICAL SCIENCES.**

Chairpersons: *Senior Lecturer Leshnyova Natalya Oleksandrivna,  
Pavlova Larysa Volodymyryvna*

**Room Velyka Phizychna**

1.	Adonkina A. Y. (Kharkiv) Language supervisor: Ovcharova H. O.	<b>SIMPLEX METHOD AS A WAY OF SOLVING LINEAR PROBLEMS</b>
2.	Akerman N. A. Scientific adviser: Bannikova E. Yu. Language adviser: Orach Y.V.	<b>CLUMPY TORI INACTIVE GALACTIC NUCLEI</b>
3.	Balkova Y. B. (Kharkiv) Scientific supervisor: Golubov O. A. Language supervisor: Zubkova L. M.	<b>CRACKS ON THE GLASS</b>
4.	Belykh A.O. (Kharkiv) Language supervisor: Lieshnova N.O.	<b>USING MULTICORE PROCESSORS IN EMBEDDED COMPUTING SYSTEMS</b>
5.	Bezкупskyi D. M. (Kharkiv) Language supervisor: Zarubina Z.V.	<b>HISTORY OF ROADS</b>
6.	Bliznyuk B.O. (Kharkiv) Language supervisor: Sharun Yu.F.	<b>WHAT EXACTLY IS GITHUB ANYWAY?</b>
7.	Bondarenko K.O., Rode D.M. (Kharkiv) Language supervisor: Sharun Yu.F.	<b>3D PRINTING NOWADAYS</b>
8.	Boufkri Ilyass (Kharkiv) Language supervisor: Naidina Ye. S.	<b>SOLAR ENERGY AS RENEWABLE SOURCE OF ENERGY</b>
9.	Davtian K.T. (Kharkiv) Language supervisor: Shumsky O.L.	<b>MODERN AUTOMOBILE INDUSTRY: PROBLEMS AND STRATEGIES</b>
10.	Fomina M. G. (Kharkiv) Language supervisor: Nikitina L. D.	<b>PROGRAMMING LANGUAGES</b>
11.	Goncharov A.V.(Kharkiv) Language supervisor: Zubkova L.N.	<b>BIOPHYSICS IS FUTURE OF SCIENCE</b>
12.	Grigoriev V.V. (Kharkiv) Language supervisor: Chernyshova N.V.	<b>CELL PHONES</b>
13.	Ievlev N. (Kharkiv) Language supervisor: Pervashova	<b>THE SIGWAY AS A POSSIBLE MEANS OF TRANSPORTATION</b>

	O.V.	<b>IN UKRAINE</b>
14.	Kamyshan I. V. (Kharkov)	<b>VOXEL AND VECTOR TECHNIQUES IN OBJECT MODELING</b>
15.	Karaiev A.O. (Kharkiv) Scientific supervisor: Strelnikova O.O. Language supervisor: Naidina Ye.S.	<b>MOTION OF A PERFECT FLUID IN THE RELATIVISTIC FRAME OF REFERENCE</b>
16.	Kizilov N.F. (Kharkiv) Scientific supervisor: Golubov O.A. Language supervisor: Kurnitska N.M.	<b>EXTRATERRESTRIAL THERMONUCLEAR EXPLOSION</b>
17.	Kokorev A.E. (Kharkiv) Language supervisor: Golubov O.A.	<b>MODELING OF ASTEROID SHAPES</b>
18.	Krois I. K. (Kharkiv) Scientific supervisor: Golubov O. A.	<b>MERGER OF SUPERMASSIVE BLACK HOLES</b>
19.	Le Vu Anton (Kharkiv) Language supervisor: Pavlova L.V.	<b>ALTERNATIVE ENERGY</b>
20.	Nesterova E. A. (Kharkiv) Language supervisor: Stupnitskaya N. N.	<b>NEGATIVE INFLUENCE OF MATHEMATICS ON SCIENCE IN GENERAL</b>
21.	Novikov D. O. (Kharkiv) Scientific supervisor: Kalugin O. N. Language supervisor: Nikitina L. D.	<b>INVESTIGATING MICROSTRUCTURE AND DYNAMICS OF SOLVATIONS SHELLS OF ZINC IN ACETONITRILE AND ZINC + PERCHLORATE ANION IN ACETONITRILE BY MEANS OF MOLECULAR MODELLING</b>
22.	Paholy M. V. (Kharkiv) Language supervisor: Stupnitskaya N. N.	<b>COMPLEX NUMBERS</b>
23.	Pisklova P.V. (Kharkiv) Language supervisor: Lieshnova N.A.	<b>SPACE-TIME CORRELATION ACCORDING TO EINSTEIN</b>
24.	Pochernin A.E. (Kharkiv) Language supervisor: Polyakova T.L.	<b>MODERN CAR NAVIGATORS</b>
25.	Podchernyaev S. D. (Kharkiv) Language supervisor: Pavlova L.V.	<b>CONELESS SPEAKERS</b>
26.	Pomazanna K.V.	<b>LAMBDA-CDM MODEL</b>

	Language adviser: Orach Yu.V.	<b>PARADOX OF COSMOLOGICAL HORIZON</b>
27.	Pugachov I. R. (Kharkiv) Language supervisor: Kovalyova A.V.	<b>CAUSTICS OF REGULAR CURVES</b>
28.	S.V. Savich, A.V. Samoilov, K.V. Tiutierieva ( Kharkiv) Scientific supervisor: R.V.Vovk Language supervisor: Kotova A. V.	<b>PARACONDUCTIVITY OF <math>\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}+\text{HfO}_2</math> COMPAUNDS</b>
29.	Selyutin D. D. (Kharkiv) Language supervisor: Stupnitskaya N. N.	<b>PRIME NUMBER – WHAT IS IT?</b>
30.	Semukina N. V. (Kharkiv) Language supervisor: Zarubina Z.V.	<b>HISTORY OF THE AUTOMOBILE</b>
31.	Shapovalova A.O. (Kharkiv) Language supervisor: Storchak M.O.	<b>INTELLIGENT TRANSPORTATION SYSTEMS</b>
32.	Shymkiv D.V. (Kharkiv) Language supervisor: Orach Y.V.	<b>PROBLEMS IN DETERMINING DIAMETERS AND ALBEDOS OF ASTEROIDS</b>
33.	Sikachyna I.O. (Kharkiv) Scientific supervisor: Kozub P.A. Language supervisor: Orach Yu. V.	<b>AUGMENTATION OF TRANSFER SYSEM PERFORMANCE APPLYING NOISE-LIKE SIGNALS SUPERPOSITION</b>
34.	Sinitsyn A.O. (Kharkiv) Language supervisor: Borzenko O.P	<b>MODERN AUTOMOBILE TECHNOLOGIES</b>
35.	Sklyarova M. (Kharkiv) Language supervisor: Kotova A. V.	<b>TRIBOELECTRIC GENERATION: GETTING CHARGED</b>
36.	Smirnova K.O. (Kharkiv) Language supervisor: Lieshnova N.A.	<b>THE IMPACT OF SPACE WEATHER ON RADIO COMMUNICATION</b>
37.	Sokolenko A. S. ( Kharkiv) Language supervisor: Stupnitskaya N. N.	<b>PRIME NUMBER</b>
38.	Susayev Y. V. (Kharkiv) Language supervisor: Zubkova L. M.	<b>TERRAFORMING OF MARS</b>
39.	Timchenko R. (Kharkiv) Language supervisor: Lenskaya O.O.	<b>COOLING OF FOOD IN THE ABSENCE OF ELECTRICITY</b>
40.	Timchenko S.S. (Kharkiv) Language supervisor:	<b>HISTORY OF COMPUTING HARDWARE BEFORE VON</b>

	Horunzhaya L.A.	<b>NEUMANN MACHINE</b>
41.	Tsarova M. O. (Kharkiv) Language supervisor: Makovyey R. G.	<b>STRAIT OF MESSINA BRIDGE PROGECT</b>
42.	Tyataya N.V. (Kharkiv) Bondarenko Y.V. (Kharkiv) Language supervisor: Voronova Ye.M.	<b>TRANSPORTATION MODES DEVELOPMENT</b>
43.	Vargas A.A. (Kharkiv) Language supervisor: Voronina K.V.	<b>RED DWARF STARS AND THEIR EXOPLANETS</b>
44.	Yermakov O.Y. (St. Petersburg / Kharkiv), Babaieva A.H. (Kharkiv) Language supervisor: Babaieva A.H.	<b>REVIEW OF ACHIEVED METAMATERIALS EXTRAORDINARY PROPERTIES AND NEW CHALLENGES</b>
45.	Zadorozhna V.S. (Kharkiv) Language supervisor: O.S. Gubareva	<b>MULTIMODAL TRANSPORTATION PROBLEM</b>
46.	Zatsarinnaya O. S. (Kharkiv) Language supervisor: Chernyshova N. V.	<b>ACM ICPC PROBLEMS AND SOLUTIONS</b>
47.	Zlatiev D. V. (Kharkiv)	<b>FINITE-TIME SCOPE DECISION MAKING PROBLEMS IN LOGISTICS WITH MULTIPLE RANGE OF FACTORS</b>