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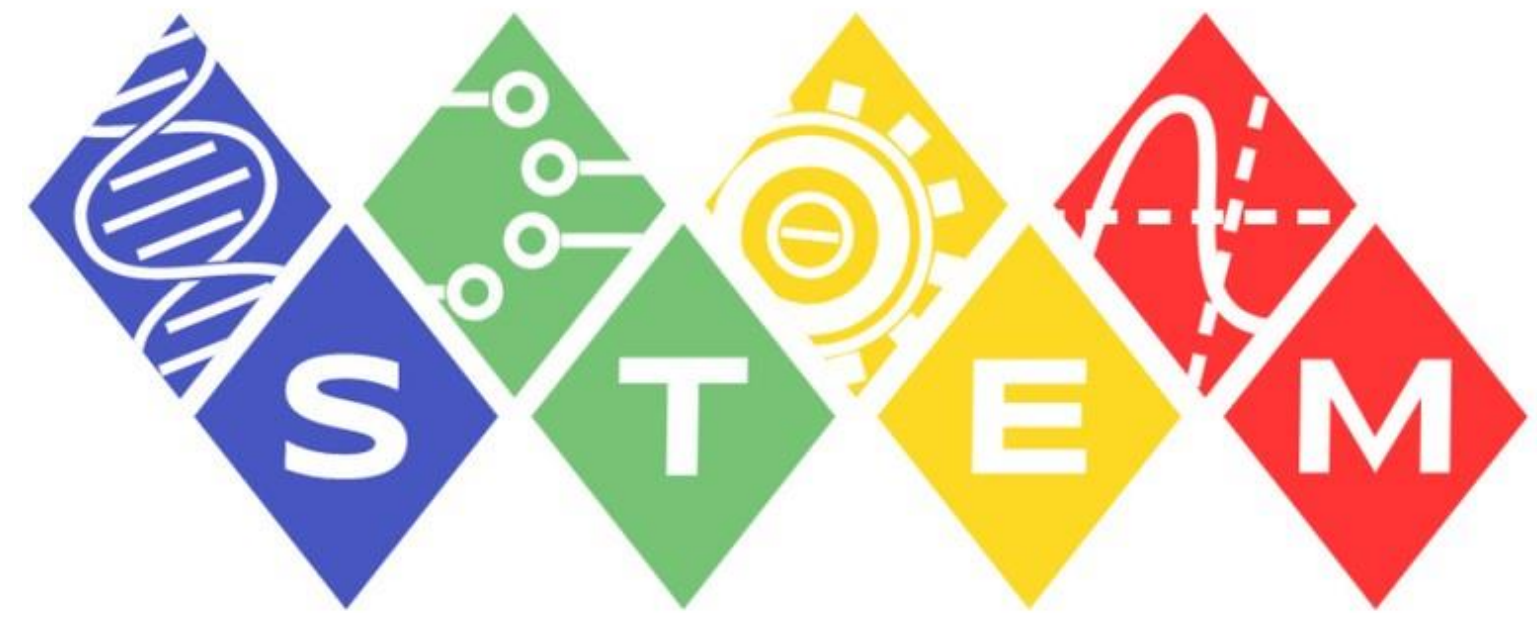
COORDINATOR

Linköping University
Campus Valla

581 83 Linköping
Phone: + 46 13 28 10 00
Email: Jet@ipe.liu/se



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Science · Technology · Engineering · Math

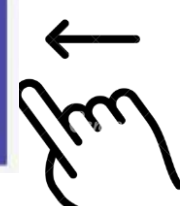
CONFERENCE PROGRAM
24 February 2021 y.

STEM-EDUCATION

INTEGRATED APPROACH

TO STEM

TEACHER TRAINING



NUR-SULTAN, 2021



Co-funded by the
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of the European Union

L. N. GUMILYOV EURASIAN NATIONAL UNIVERSITY
FACULTY OF INFORMATION TECHNOLOGIES



Science. Technology. Engineering. Math

Online scientific conference

24 February 2021 y., 14:00 (time Nur-Sultan)

STEM-EDUCATION

- The concept of the online scientific conference "STEM - education"
- The program of the online scientific conference

Nur-Sultan, 2021

The concept of the online scientific conference "STEM - education"

Name of the school: online scientific conference "STEM - education".

Subject: integration of science and education.

Working languages: Kazakh, Russian, English.

Base: online format, Faculty of Information Technologies of L.N. Gumilyov ENU, Department of Computer Science, Nur-Sultan, Pushkin, 11 Street.

Dates: February 24, 2021.

The purpose of the conference: to identify, support and disseminate the best pedagogical experience of educators, to develop their creative potential and professional skills in the direction of STEM.

Conference participants: teachers and scientists of higher educational institutions, principals and teachers at schools, teachers of colleges, institutes for advanced training of educators, regional methodological centers and interschool methodological centers are invited to participate in the conference

During the conference, it is planned to discuss the following issues:

- STEM education, content, prospects and directions of development, resources and opportunities of schools, institutions of additional education in the development of STEM education, prospects for cooperation with educational organizations and projects, high-tech enterprises and business structures
- using the capabilities of online educational platforms in the organization of STEM education in distance and mixed formats

Within the framework of the conference, the following sections are planned:

- ✓ STEM in Computer Science Teaching;
- ✓ STEM in secondary school;
- ✓ STEM in Education: the Experience of Foreign Teachers.

The conference program includes reports that will discuss the analysis of the state and directions of development of STEM education, the possibilities of new formats as a basis for building professional careers in the field of high technologies.

Program Committee of the Conference:

Seilov Shakhmaran Zhursinbekovich – Doctor of Economics, Professor, Dean of the Faculty of Information Technology.

Serik Meruyert – Doctor of Pedagogical Sciences, Professor, Head of the Department of Computer Science.

Zhumadillaeva Ainur Kanadilovna – Candidate of Technical Sciences, Associate Professor of the Department of Computer Engineering.

Druz Anna Nikolaevna – Associate Professor of the Institute of Mathematics, Mechanics and Computer Science, South Federal University.

Bondarev Maksim Germanovich – Head of the Department of Primary Education, Academy of Psychology and Pedagogy, Southern Federal University.

Batchenko Alla Gennadievna – Head of the Center for International Programs and Projects, Southern Federal University.

Sagnaeva Saule Kayrollievna - Candidate of Physical and Mathematical Sciences, Associate Professor of the Department of System Analysis and Management of the Faculty of Information Technology.

Alzhanov Aytugan Kairzhanovich – Candidate of Pedagogical Sciences, Associate Professor of the Department of Computer Science.

Davletova Ainash Khaliullinovna – Candidate of Pedagogical Sciences, Associate Professor of the Department of Computer Science of the Faculty of Information Technologies.

Abildinova Gulmira Maratovna – Candidate of Pedagogical Sciences, Associate Professor of the Department of Computer Science of the Faculty of Information Technologies.

Karelkhan Nursaule - Senior Lecturer of the Department of Computer Science.

Akhmetova Balgyn – teacher of NIS.

Nurbekova Gulmira Fazylgalamovna – doctoral student of the specialty 8D01511 Computer Science.

Balgozhina Gulmira Beketovna – Senior Lecturer of the Department of Computer Science.

Organizers of the conference:



L.N. Gumilyov Eurasian National University (Kazakhstan, Nur-Sultan).



Southern Federal University (Russia, Rostov-on-Don).

Plenary presentations.

1. Celal Karaca – PhD, Head department of Computer Technology, Aksaray university (Turkey). **The topic “Effect of STEM in Computer Science Education”.**
2. Bondarev Maxim Germanovich, Head of the Department of Primary Education, Academy of Psychology and Pedagogy, Southern Federal University. **The topic of the report is "STEM education and practices of working with talents in the field of natural and engineering sciences in the Russian Federation".**
3. Serik Meruert - Doctor of Pedagogical Sciences, Professor, Head of the Department of Informatics, Akhmetova Balgyn - Lecturer at NIS. **Topic of the report «Preparation of school children for STEM projects».**

Section "STEM in the study of information».

Chairman: Serik M. – Doctor of Pedagogical Sciences, Professor, Head of the Department of Computer Science

Secretary: Karelkhan Nursaule – PhD, Department of Computer Science.

№	Author's name	University	Title of the article:
1.	Bondarev M. G.	South Federal University	STEM EDUCATION AND PRACTICES OF WORKING WITH TALENTS IN THE FIELD OF NATURAL AND ENGINEERING SCIENCES IN THE RUSSIAN FEDERATION
2.	Kurakbay O. S.	M. O. Auezov SKU	STEM DIRECTION ROBOTICS ROLE OF LESSONS
3.	Yerezhepov Zh.I. Zhalgasbekova Zh. K.	L.N.Gumilyov Eurasian National University	PRIMARY SCHOOL Samarkand UNIVERSAL LEARNING ACTIONS STRUCTURE
4.	Balgaliyev M.A. Zhalgasbekova Zh.K.	L.N.Gumilyov Eurasian National University	STUDENTS "CRITICAL" IN TRAINING THINK FROM THE POINT of VIEW DEVELOPMENT" Technology KEY FEATURES
5.	Serikbayeva M.Zh. Karieva K.U.	L.N.Gumilyov Eurasian National University	INFORMATICS INNOVATIVE IN TEACHING TOOLS

6.	Abdez N.D. Urmatova A. N.	M. Auezov South Kazakhstan University	Schoolchildren IMAGINE THE SPACE Formation PSYCHOLOGICAL PREREQUISITES
7.	Kasymkhanov S.D.	L.N.Gumilyov Eurasian National University	SAPHANA ON THE PLATFORM INTERREGIONAL REPORTING MANAGEMENT FOR ENTERPRISES EXPLORE THEIR MODELS
8.	Turanov A. K..	M. Auezov South Kazakhstan University	HOW TO TEACH ROBOTICS IN EDUCATION
9.	Omarbekov A.M. Alzhanova E.E. Ormanbek A.T.	L.N.Gumilyov Eurasian National University	QUALITY OF EDUCATION CONTROLLED PEDAGOGY DIMENSIONS
10.	Zharmukhanbetov S., Sultanbek T., Temirbek A., Kozhakhmet A., Kenzhebay B., Dusebek A.	M. Auezov South Kazakhstan University	GREEN ECONOMY, VACUUM RADIATORS
11.	Omarbekov A.M. Alzhanova E.E. Ormanbek A.T.	L.N. Gumilyov Eurasian National University	ACADEMIC ACHIEVEMENTS QUALITY INFORMATION TECHNOLOGY MONITORING

Section: "STEM in secondary school".

Chairman: Abildinova Gulmira Maratovna – Candidate of Pedagogical Sciences, Associate Professor of the Department of Computer Science of the Faculty of Information Technology.

Secretary: Sadvakasova Aigul Kadyrkhanovna – PhD, Acting Associate Professor of the Department of Computer Science

№	Author's name	University	Title of the article:
1.	Serik M., Akhmetova B.	L.N.Gumilyov Eurasian National University	SCHOOL STEM STUDENTS FOR PROJECTS Preparation

2.	Maksatov Shalkar Aldanbaiuli Karelkhan Nursaule	L.N. Gumilyov Eurasian National University	USING VIRTUAL REALITY TO TEACH THE SUBJECT "FUNDAMENTALS OF PARALLEL COMPUTING"
3.	Karymsakova A.E. Khasenova A.E.	L.N.Gumilyov Eurasian National University	METHODOLOGICAL BASICS APPLICATIONS OF ICT IN SUMMATIVE ASSESSMENT PER UNIT AND SUMMATIVE ASSESSMENT PER QUARTER IN ENGLISH LESSONS
4.	Hvatova V.A.	Institute of Education, Immanuel Kant Baltic Federal University	PEDAGOGICAL CONDITIONS FORMS CONSTRUCTIVE STUDENTS' SKILLS IN THE CLASSROOM GEOMETRY
5.	Bykovsky O.I.	Institute of Education, Immanuel Kant Baltic Federal University	PEDAGOGICAL CONDITIONS DOMAIN- LANGUAGE INTEGRATED LEARNING WITHIN THE FRAMEWORK OF STEAM EDUCATION IN HIGH SCHOOL
6.	Круглова М.А.,	Institute of Education, Immanuel Kant Baltic Federal University	PEDAGOGICAL CONDITIONS FOR ORGANIZING HACKATHON IN ADDITIONAL EDUCATION
7.	Shkilevich I.A.	Institute of Education, Immanuel Kant Baltic Federal University	ANIMATION AS A MEANS DEVELOPMENT CREATIVE ABILITIES SCHOOLCHILDREN IN STEAM CONTEXT- APPROACH

8.	Krasyuk V.V.	Institute of Education, Immanuel Kant Baltic Federal University	MAIN TRENDS REMOTE TRAINING IN CONDITIONS COVID-19 PANDEMICS
9.	Gaukhar Omashova, Serik Zharmukhanbetov	M. Auezov South Kazakhstan University	«PLASTIC RECYCLING USING ENERGY»

Section: "STEM in education: the experience of foreign teachers".

Chairman: Maxim G. Bondarev, Head of the Department of Primary Education, Academy of Psychology and Pedagogy, Southern Federal University.

Secretary: Akhmetova Balgyn – teacher of NIS.

№	ФИО автора	Университет	Название статьи
1.	Celal Karaca	Aksaray university.	EFFECT OF STEM IN COMPUTER SCIENCE EDUCATION
2.	Druze A.N., Manukyan A.A.	South Federal University, Rostov- on-Don, Russian Federation	PROJECT OVERVIEW, IMPLEMENTED IN FRAMEWORK STEM DEVELOPMENT- EDUCATION (EXPERIENCE IRISH REPUBLIC)
3.	Konyushenko S.M.	Institute of Education, Immanuel Kant Baltic Federal University	STEAM – PRACTICES: PEDAGOGICAL VIEW
4.	Parakhina O.V.,	Institute of Education, Immanuel Kant Baltic Federal University	STEAM APPROACH IN EDUCATION: PERSPECTIVES AND CHALLENGES
5.	Nosenko O.S.	Institute of Education, Immanuel Kant Baltic Federal University	EFFICIENCY INTERDISCIPLINARY ON LEARNING AS A FACTOR OF CHANGE PROFESSIONAL PEDAGOGICAL ACTIVITY

6	Kulagina A.O.	Institute of Education, Immanuel Kant Baltic Federal University	LEARNING CONTENT FOREIGN LANGUAGE AT THE BASIC SCHOOL IN THE CONTEXT OF THE PHENOMENAL- ORIENTED APPROACH
7	Balashov N.A.,	Institute of Education, Immanuel Kant Baltic Federal University	IMPLEMENTATION EXPERIENCE STEAM PRACTICES IN ADDITIONAL EDUCATION
8.	Stolyarova I.V.	Institute of Education, Immanuel Kant Baltic Federal University	INTERDISCIPLINARY CONNECTIONS AS A MEANS PREPARATION FOR THE THEORETICAL PART OF THE OLYMPIAD ON PHYSICAL CULTURE
9.	Ananina S.A.	Institute of Education, Immanuel Kant Baltic Federal University	STEAM PROJECT AS TOOL FORMS ENVIRONMENTAL CULTURE SCHOOLCHILDREN