



## DEAR COLLEAGUES!

We invite you to participate  
in the IXth International Scientific and Methodological Conference  
**«Problems of Mathematics Education» (PME – 2021)**  
to the 100th anniversary  
of the Bohdan Khmelnytsky National University of Cherkasy  
to be held **online** on 9-10 April, 2021  
at the Bohdan Khmelnytsky National University of Cherkasy

### Topics of conference:

- Prospects for reforming mathematical education in general and vocational schools
- Setting up Mathematics teaching in the new Ukrainian primary school
- Challenges of upgrading mathematical education in higher educational institutions
- Enhancement of mathematical and methodical preparation of mathematics, physics, and computer science education students
- ICT in teaching Natural Sciences and Mathematics
- Interdisciplinary connections and STEM-education
- Professional development of Mathematics teachers
- Foreign experience of teaching Natural Sciences and Mathematics in secondary schools, vocational schools and higher education institutions

Conference program includes Plenary Session, Oral Presentations, and Round Table.

**The conference languages** are Ukrainian, English and Russian.

A book of abstracts is to be published before the conference starts.

### Conference fees (for foreign participants)

- Conference fee (with personal participation and including: conference program, book of abstracts, certificate of participant and organizational costs) – **15 €** (for PhD students and undergraduate students – **10 €**).
- Postal charges are paid by a participant on receiving.
- Additional hard copy – **5 €**.

### Forms and papers:

- 1) e-application for participating (form – appendix 1);
- 2) abstract (formatted according to instructions – appendix 2), file name – **Petrenko\_abstract.doc**;
- 3) photocopies of conference fee receipt (with author name), file name – **Petrenko-receipt.pdf**;
- 4) review (for participants without degree), file name – **Petrenko-review.pdf**.

### Submission deadline – **March 15, 2021**

Files (2 – 3/4) are to be sent **by e-mail: [cherkasy\\_pme@ukr.net](mailto:cherkasy_pme@ukr.net)**.

Conference fee should be sent by bank transfer to the PrivatBank card **4731 2196 1310 8400**, or by a Western Union private transfer for Galina Druzhinina. **Purpose of payment «Surname of the participant – PME-2021».**

**Contacts:** + 38 093 112 25 71 Druzhinina Galina  
+ 38 097 560 93 93 Serdyuk Zoya

**\*The full papers can be published in *The Cherkasy University Bulletin, series: Pedagogical Sciences or Topical issues of natural science and mathematics education* (Author Guidelines – Appendix 3), indexed in Index Copernicus, or as a section in the collective monograph "Competentization And Mathematical Education" to be published in Hungary (Appendix 4).**

**Application for participating in the  
International Scientific and Methodological Conference  
«Problems of Mathematical Education» (PME – 2021)**

**FOR FOREIGN PARTICIPANTS**

<https://forms.gle/fzIagUB7grCTwNM29>

**Appendix 2**

**Abstract formatting**

- *maximum length* – **2 full pages** (with annotations);
- *size* – A 4;
- *format* – portrait;
- *all margins*: 2,5 cm;
- *font* – Times New Roman Cyr, font size: main text – 12 pt, annotations – 11 pt, references – 10 pt;
- *inter-line spacing* – single space;
- *indentation* – 10 mm;
- *figures and photos* – in TIF or JPG format;
- *formulas* (on default): font Times New Roman, font size – 12, Subscript/Superscript – 7, Sub-Subscript/Superscript – 5, Symbol – 18, Sub-symbol – 12.
- *attributions* – in square brackets;
- *annotation* – surname, initials, title in Ukrainian, English and Russian languages (up to 5 lines each)

## Author Guidelines

**First Author<sup>1, a</sup>, Second Author<sup>2, b</sup> and Others<sup>3, c</sup>**  
**(right aligned, bold)**  
Organization  
City, Country,  
e-mail

**YOUR PAPER'S TITLE STARTS HERE:  
PLEASE CENTER, USE BOLD, ONE LINE SPACING BEFORE TITLE**

Abstract ... (one line spacing before main text, new paragraph)

**References** (in alphabetical order, up to 10 sources)  
(please center, bold type, one line spacing, 10 pt)

1. (*Left aligned, numbered list*).

**Annotations and key words** (one line spacing, 11 pt)

## Template

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National University in Cherkasy  
Cherkasy, Ukraine  
ntaras7@ukr.net

### **MODERN TENDENCIES OF UPDATE OF GEOMETRY CONTENT TEACHING IN SECONDARY SCHOOL**

Modern reformation of secondary school mathematical education ...

....

#### **References**

- 1.
- 2.

**Анотація.** Тарасенкова Н. А. Сучасні тенденції оновлення змісту навчання геометрії в основній школі. У статті розглянуто питання оновлення змісту навчання геометрії в 7–9 класах. ....

**Ключові слова:** навчання геометрії, школа, сучасний підручник геометрії.

**Summary.** Tarasenkova N. **Modern trends of updating the content of teaching geometry in secondary school.** The questions of updating the content of teaching geometry in 7–9 grades are considered in this paper. ...

**Keywords:** geometry teaching, school, modern geometry textbook.

**Аннотация.** Тарасенкова Н. А. **Современные тенденции обновления содержания обучения геометрии в основной школе.** В статье рассмотрены вопросы обновления содержания обучения геометрии в 7–9 классах. ...

**Ключевые слова:** обучение геометрии, школа, современный учебник геометрии.

The full papers can be submitted to:

1) *The Cherkasy University Bulletin, series: Pedagogical Sciences*. The journal is indexed by the scientific metric base *Index Copernicus* (ICV 2019: 76.51) and *Google Scholar*, referenced by the *CrossRef* and the scientific citations database *Open Ukrainian Citation Index*.

The journal is included in the "*List of scientific professional editions of Ukraine, in which the results of dissertation papers may be published for obtaining the degrees of a doctor and a candidate of sciences*" approved by Order of the Ministry of Education and Science of Ukraine dated March 17, 2020, No. 409.

Submissions are reviewed.

Site: <http://ped-ejournal.cdu.edu.ua>

Should any questions arise, you are welcome to send them to the e-mail address: [cherkasy\\_pme@ukr.net](mailto:cherkasy_pme@ukr.net)

2) *Topical issues of natural science and mathematics education*. The journal is indexed by the scientific metric base *Index Copernicus* (ICV 2019: 80.39) and *Google Scholar*, referenced by the *CrossRef* and the scientific citations database *Open Ukrainian Citation Index*.

The journal is included in the "*List of scientific professional editions of Ukraine, in which the results of dissertation papers may be published for obtaining the degrees of a doctor and a candidate of sciences*" approved by Order of the Ministry of Education and Science of Ukraine dated November 26, 2020, No. 1471.

Submissions are reviewed.

Site: <https://appmo.sspu.sumy.ua/vimogi/>

The collective monograph “**COMPETENTIZATION AND MATHEMATICAL EDUCATION**” will be published in English by the Publishing House of the Society for Cultural and Scientific progress in Eastern and Central Europe (Budapest, Hungary). The publication will be assigned the ISBN, the benchmark data of the Hungarian publishers and copyright of all participants will be indicated.

To your attention: In previous years, with the assistance of the Scientific Society in Hungary, the monographs “*Conceptual framework for improving the mathematical training of young people*” (2016), “*Current Status and Prospects of Mathematical Education*”(2018), and - «*Current issues in ensuring the quality of mathematical education*» (2019) were published (<http://seanewdim.com/other-publications.html>) They have been added to the Library of Congress Catalogue and other leading libraries’ catalogues worldwide.

**The tentative (but not comprehensive) list of chapters of the monograph:**

1. Pre-school mathematical education.
2. Mathematics in elementary school.
3. Mathematical training in high school.
4. Learning mathematics in vocational school.
5. Mathematical training at the university.
6. Continuity in teaching mathematics.
7. Use of ICT in mathematical education and self-education.
8. Interdisciplinary ties.
9. Comparative studies.
10. Mathematical & methodical components of future math teacher training in university.
11. Professional development of Mathematics teachers

To participate in the work on the monograph, **the Registration Form** (see below) **with the planned paper title** in Ukrainian/Russian and English as well as the information about the author/authors in Ukrainian/Russian and English (file name for the author Ivanenko, I.: **Ivanenko\_I\_regform**) is to have been sent by **April 10, 2021** to the e-mail address [ntaras7@ukr.net](mailto:ntaras7@ukr.net).

The paper requirements will be sent to the address you have specified.  
The paper should be at least 0.5 of the author’s sheet (that is – 20 000 characters with spaces).  
The most acceptable is the volume that takes the total number of pages.

**The fee** for 1 full (including incomplete) page of the article is **4 euros**.

The Publisher offers **translating services**. The cost of the translation of 1800 characters without spaces (appr. 1 page) is **8 euros**. The commission for translation can be made with the submission of the materials to the monograph.

Payment for the author’s part of the material in the monograph is made after reviewing and receiving from reviewers permission to print these materials as part of the monograph. The author of the article (group of authors) is billed personally according to the volume of materials submitted and sent to an e-mail contact of the author.

The deadline for the acceptance of the materials by the scientific editor of the monograph – **June 15, 2021**

The scientific editor of the monograph – prof. N. A. Tarasenkova:  
e-mail: [ntaras7@ukr.net](mailto:ntaras7@ukr.net)  
tel: +38 096 438 11 19

## REGISTRATION FORM

(for each of the authors)

### **I. (*in the native language*)**

Автор (Ф.И.О.):

Научная степень, ученое звание:

Должность:

Учреждение:

Адрес учреждения:

Адрес для переписки, отправки материалов (на языке страны получателя):

Телефон:

E-mail:

Название статьи:

Раздел, в котором Вы планируете поместить статью:

### **II. (*in English*)**

Author:

Scientific degree:

Position:

Institution:

Address of institution:

Author's address:

Phone number:

E-mail:

Title of article:

Category: