

Frantsevych Ukrainian Materials Research Society  
National Academy of Sciences of Ukraine (NASU)  
Frantsevych Institute for Problems of Materials Science of NASU  
Ministry of Education and Science of Ukraine  
National Technical University of Ukraine “Igor Sikorsky  
Kyiv Polytechnic Institute”



**7<sup>TH</sup> INTERNATIONAL SAMSONOV  
CONFERENCE  
“MATERIALS SCIENCE OF HIGH MELTING  
COMPOUNDS” (MSHMC)**

May 25-28, 2020  
Kyiv, Ukraine

**FIRST ANNOUNCEMENT**

## INTERNATIONAL ORGANIZING COMMITTEE

Chairman Dr. Andrey V. Ragulya  
Vice Chairmen Dr Volodymyr I. Ivashchenko and Dr. Yury I. Bogomol  
Scientific Secretary Bilan I.I., Dobrovolska I.A.

Abadias G.	France	Vasylkiv O.	Japan
Bondarenko V.P.	Ukraine	Musil J.	Chesh. Republic
Borisova A.L.	Ukraine	Novosad V.	USA
Bogomol Y.I	Ukraine	Obradovich N.	Serbiya
Frage N.	Israel	Olevskiy E.	USA
German R.	USA	Panasjuk A.D.	Ukraine
Gogotsi Yu.	USA	Philipov V.B.	Ukraine
Grigor'ev O.N.	Ukraine	Pogrebnyak A.D.	Ukraine
Herrmann M.	Germany	Zgalat-Lozynskyy O.	Ukraine
Hamouda Khaled	Algeria	Turchi P.E.A.	USA
Kovalchenko M.S.	Ukraine	Upadhyaya G	India
Leszczynski J.	USA	Urbanovich V.S.	Belarus
Loboda P.I.	Ukraine	Zhang Dongyang	China
Mikhailov V.V.	Moldova	Demirskiy D.	Japan

## CONFERENCE SYMPOSIA

**Symposium A. The electronic structure and properties of high melting compounds;**

**Symposium B. Synthesis of high melting compounds, chemical properties, phase diagrams;**

**Symposium C. Low-dimensional nanostructures of high melting compounds;**

**Symposium D. Films and coatings based on high melting compounds;**

**Symposium E. Ceramics and composites based on high melting compounds.**

### Key Speakers:

**Symposium A. Prof. Oleg Khizhun, Institute for Problems of Material Science, NAS of Ukraine**

**Symposium B. To be named**

**Symposium C. Prof. Yury Gogotsi, Drexel University, PA, USA**

**Symposium D. Prof. Oleksandr Pogrebnyak, Sumy State University, Ukraine**

**Symposium E. Prof. Olivier Guillon, Juelich Research Center, Germany**

## GENERAL INFORMATION

The Frantsevych Materials Research Society, Frantsevich Institute for Problems in Materials Science of NASU and the National Technical University «Igor Sikorsky Kyiv Polytechnic Institute» established regular (every two years) conference on materials science of high melting point compounds (materials). The previous conference was held in 2018 and was dedicated to the 100<sup>th</sup> anniversary of Grigoryi V. Samsonov, an outstanding scientist founder of the materials science of advanced high melting carbides, nitrides, borides, silicides etc. Over 400 high melting compounds were synthesized and extensively characterized under his supervision and described in 36 books. Grounding on this knowledge, industrial technologies of these compounds were developed and commercialized. The high melting materials operate under extreme conditions such as high temperatures and pressures, aggressive chemical and radiation media. This class of materials is unique and widely used in microelectronics and coating technologies. Recently the 1D and 2D unusual forms of high melting compounds have been discovered to attract attention of scientists and look deeply in the nature of things.



Samsonov G.V.

## CONFERENCE LOCATION AND SCHEDULE

The conference venue will be announced after March 1, 2020

The conference language is English.

Abstracts prepared according to the guidance shown below should be submitted to the conference secretariat through e-mail and later uploaded on web page published after January 15. Abstracts will be published in a Book of abstracts and distributed between the attendees at the Conference. The full texts of the papers will be published in the journal "Powder Metallurgy and Metal Ceramics" and "Superhard Materials".

The registration fee is **400 EUROS**. Conference account for wire transfer will be open after March 1, 2020.

## BRIEFLY ABOUT KYIV

We invite you to Kyiv, one of the most beautiful and ancient cities in Europe. Its numerous sights are well known in the world. These are the St. Sophia Cathedral, Kyiv-Pechersk Lavra, Golden Gates, numerous orthodox monasteries, many picturesque parks, the Dnipro river, the high street Khreshchatyk with shopping mall, Opera House, Universities and other places of interest. Kyiv is a well known cultural and scientific center of Ukraine. There are many research institutions working in the area of materials science, visits to which are sure to be of great interest.

As a rule, May in Kyiv is the most beautiful season, sunny and warm. The city is immersed in clouds of blossoming chestnut trees.

Kyiv is connected to other cities of the world with numerous railway and air lines. The way from the airport Boryspil to downtown Kyiv takes less than an hour. The new comfortable railway station is connected with the center of the city through metro, buses and trolleybuses. [Visa for citizen from the USA, Canada, Japan, or European Union countries is not required.](#)

## YOU ARE WELCOME TO BLOSSOMING HOSPITABLE KYIV!

### GUIDANCE FOR ABSTRACT PREPARATION

Author A.B., Author C.D.<sup>(1)</sup>, Author E.F.<sup>(2)</sup>

Full name of organization, post address, e-mail

<sup>(1)</sup> Full name of organization, post address, e-mail

<sup>(2)</sup> Full name of organization, post address, e-mail

Abstracts should be prepared in English using "Microsoft Word" and not exceed one page in either language (A4 format, 29.7cm× 21 cm).

The first line is the title of the paper (capital letters, thick font 14, over the width of two columns). The next line is blank. Then the names of the authors (last name and initials) should follow (thick font 12). The name of the speaker should be underlined. The next lines contain information on each organization

separately: full name, post address, e-mail.

The next line just before the text is blank.

The two-column text should be typed with font 11 «Times New Roman» using single line spacing. Margins: top, 3 cm; bottom, right and left, 2 cm; intercolumn spacing 1 cm.

The text may include figures and tables. References are placed below the text and numbered according to their placement in the text in square brackets.

## IMPORTANT DEADLINES

Abstract should be submitted to: [elena.krisuk@gmail.com](mailto:elena.krisuk@gmail.com) (Olifan Olena) or through

[the Web Page](#) after January 20, 2020 until **01.03.2020**

Distribution of the Conference Program: **15.04.2020**

**Welcome Party 25.05.2020**

**Additional information on the authors should be presented in the form of Appendix.**

**INFORMATION ON THE ATTENDEE**

Paper title						
Conference symposium						
Presentation type	Oral		Poster		Plenary	
1 st participant; 2 <sup>nd</sup> participant, etc.						
Name (first, middle, last)						
Affiliation						
Position						
Post address (street, city, post code, country)						
Phone						
Fax						
E-mail (necessarily)						

**CONFERENCE SECRETARIAT**

**Olifan Olena Igorivna** E-mail: elena.krisuk@gmail.com

**Bilan Iryna Ivanivna** (tel. +38-0681213826)

**Vasylykivaska Maryna Anatoliivna** (tel. +38-0506610138)

Institute for Problem of Materials Science,  
3 Krzhyzhanovskii Str., Kyiv 142, Ukraine, 03680

Website

[http://www.materials.kiev.ua/science/servlet/LangServlet?lang=2  
&referer=conference.jsp](http://www.materials.kiev.ua/science/servlet/LangServlet?lang=2&referer=conference.jsp)

**Dobrovolska Iryna Arkadievna** (tel. +38-0442049156, +38-0966988516)

**Kysla Galyna** E-mail: kiparis-gpk@ukr.net

National Technical University of Ukraine "Igor Sicorsky Kyiv Polytechnic  
Institute", 35 Polytechnichna st. Kyiv 56, Ukraine, 03056

Website <http://samsonov.iff.kpi.ua/>