



***Book of proceedings of
The 18th INTERNATIONAL CONFERENCE ON ELECTRONICS AND
APPLIED PHYSICS***

**Taras Shevchenko National University of Kyiv
Faculty of Radio Physics, Electronics and Computer Systems**

APHYS 2022

**18-22 October 2022
Kyiv, Ukraine**

The organizer of the **18th ANNUAL INTERNATIONAL CONFERENCE ON ELECTRONICS AND APPLIED PHYSICS (APHYS 2022)** is the Faculty of Radio Physics, Electronics and Computer Systems of Taras Shevchenko National University of Kyiv.



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Scientific program

The Conference papers will be accepted according to the following areas:

LPO – Laser Physics and Optoelectronics
PM – Physics of Magnetism
SP – Surface Physics and Nano- and Micro electronics
PS – Physics of Semiconductors and Dielectrics, Semiconductor's Devices
MP – Medical Physics
PP – Plasma Physics
CT – Computer Technologies
REC – Radio Engineering and Communications
PTA – Polarimetry: Theory and Applications
MAP – Mathematical Problems of Applied Physics

The language of the Conference is **English**.

The Conference program includes one/two invited lectures and reports according to the **Scientific program**. **IMPORTANT! Accepted conference papers must be introduced in oral presentation. This is main condition be printed in book of proceedings of APHYS 2022.**

Invited talks: 60 minutes (including discussion)

Other talks: 15 minutes (including discussion)

The Conference will be held ONLINE.

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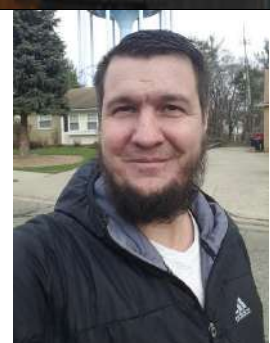
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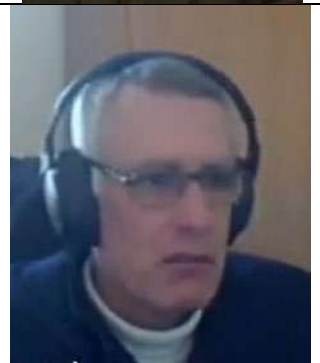
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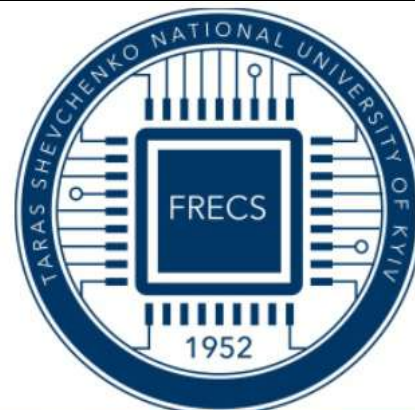
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APHYS 2022

**XVIII INTERNATIONAL SCIENTIFIC CONFERENCE
ELECTRONICS AND APPLIED PHYSICS**

18th -22th October 2022
Kyiv | Ukraine



CONFERENCE TOPICS

LPO – Laser Physics and Optoelectronics

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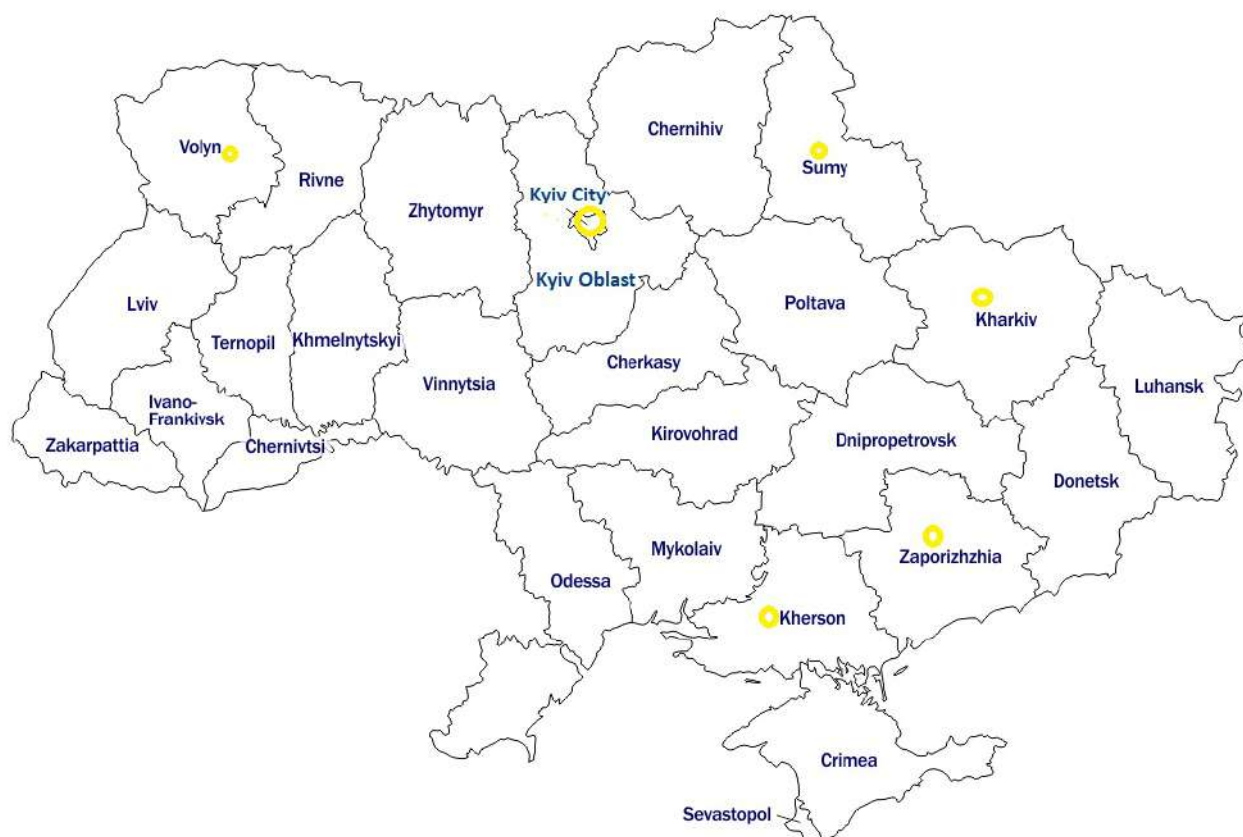
Schedule of APHYS 2022 Conference

<i>October 19, 2022 12-30 p.m. EEST</i>	<i>Opening Ceremony & Plenary Session</i>
<i>October 20, 2022 14-30 p.m. EEST</i>	(LPO) - Laser Physics and Optoelectronics (MP) - Medical Physics (REC) - Radio Engineering and Communications (PS) - Physics of Semiconductors and Dielectrics, Semiconductor's Devices (PP) - Plasma Physics (day 1)
<i>October 21, 2022 12-30 p.m. EEST</i>	(SP) - Surface Physics, Nano- and Microelectronics (PM) - Physics of Magnetism (PP) - Plasma Physics (day 2) (MAP) - Mathematical Problems of Applied Physics
<i>October 21, 2022 16-00 p.m. EEST</i>	<i>Closing Ceremony</i>

Geography of the APHYS 2022 Conference



Ukraine, USA, Germany, Austria, Poland, Mexico, Italy, Denmark, France, China and Czech Republic.



UKRAINE: Kyiv, Lutsk, Sumy, Zaporizhzhia, Kharkiv and Kherson 🍉

The 18th INTERNATIONAL CONFERENCE ON ELECTRONICS AND APPLIED PHYSICS (APHYS 2022) will be held online October, 18-22, 2022, in the capital of Ukraine Kyiv. The organizer of the APHYS 2022 is the Faculty of Radio Physics, Electronics and Computer Systems of Taras Shevchenko National University of Kyiv.

This event was created by us specifically for people who are not just living science but for whom science is a life. On behalf of the entire organizing committee, I thank you for your participation. This year it is not just participation - it is also the celebration of the 18th birthday of our conference, the celebration of the coming of age of our many years of work. We sincerely hope that our “brainchild” will celebrate its 100th anniversary. In the meantime, we ask you to enjoy the scientific discussions of the APHYS 2022 conference and come to us again and again. We believe that you will enjoy everything.

I would like to thank everyone who contributed to the creation of this intellectual product: the website, the book that you are reading now and everything that was left behind the scenes. Special thanks to those who passed by when it all began and even to those who openly harmed. Thank you guys! We wouldn't be able to do anything without you.

The next 19th INTERNATIONAL CONFERENCE ON ELECTRONICS AND APPLIED PHYSICS (APHYS 2023) will be held in Kyiv, in October, 2023.

Best regards,

Secretary of organizing committee of APHYS 2022

V.A. Moiseienko



We will be glad to see you next year.

Sincerely yours,

Chairman of organizing committee of APHYS 2022

A.V. Netreba

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**Edited by Dr. Vladyslav MOISEIENKO,
Dr. Liudmyla GRISHCHENKO and Andrii NIKIRIN**
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