



***Book of proceedings of  
The 17th INTERNATIONAL CONFERENCE ON ELECTRONICS AND  
APPLIED PHYSICS***

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

**APHYS 2021**

**19-23 October 2021  
Kyiv, Ukraine**

The organizer of the **17th ANNUAL INTERNATIONAL CONFERENCE ON ELECTRONICS AND APPLIED PHYSICS (APHYS 2021)** 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 Microelectronics (**Kyiv Scanning Probe Microscopy Seminar**)

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 2021.**

**Invited talks:** 60 minutes (including discussion)

**Other talks:** 15 minutes (including discussion)

**The Conference will be held ONLINE.**

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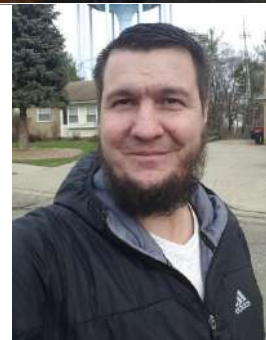
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# APHYS 2021

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

19th -23th October 2021

**Kyiv | Ukraine**



## CONFERENCE TOPICS

LPO – Laser Physics and Optoelectronics

PM – Physics of Magnetism

SP – Surface Physics, Nano- and Microelectronics (**Kyiv Scanning Probe Microscopy Seminar**)

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



Design by Vladyslav Moiseienko

**Schedule of APHYS 2021 Conference**

|                                             |                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>October 21, 2021<br/>12-30 p.m. EEST</i> | <i>Opening Ceremony &amp; Plenary Session</i>                                                                                                                                                                                                                                                                                      |
| <i>October 21, 2021<br/>14-00 p.m. EEST</i> | (PM) - Physics of Magnetism<br><br>(PP) - Plasma Physics<br><br>(REC) - Radio Engineering and Communications                                                                                                                                                                                                                       |
| <i>October 22, 2021<br/>14-00 p.m. EEST</i> | (SP) - Surface Physics, Nano- and Microelectronics<br>( <b>Kyiv Scanning Probe Microscopy Seminar</b> )<br><br>(LPO) - Laser Physics and Optoelectronics<br><br>(MP) - Medical Physics<br><br>(PS) - Physics of Semiconductors and Dielectrics,<br>Semiconductor's Devices<br><br>(MAP) - Mathematical Problems of Applied Physics |
| <i>October 22, 2021<br/>16-30 p.m. EEST</i> | <i>Closing Ceremony</i>                                                                                                                                                                                                                                                                                                            |

## Geography of the APHYS 2021 Conference



Ukraine, USA, Germany, Poland and France.



UKRAINE: Kyiv, Lutsk, Vinnytsia, Zaporizhzhia, Lviv and Kharkiv.

The 17th INTERNATIONAL CONFERENCE ON ELECTRONICS AND APPLIED PHYSICS (**APHYS 2021**) will be held online October, 19-23, 2021, in the capital of Ukraine Kyiv. The organizer of the APHYS 2021 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. We wish you creative success and all the best. This year we have experienced all the hardships of coronavirus restrictions, but this did not break the spirit of a person striving for knowledge, for the light. In the meantime, we ask you to enjoy the scientific discussions of the APHYS 2021 conference and come to us again and again. We believe that you will enjoy everything and you will register abstracts more than once. Please feel free to recommend our event to your friends and colleagues.

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. It's a pleasure to work with all of you. Thank you guys!

The next 18th INTERNATIONAL CONFERENCE ON ELECTRONICS AND APPLIED PHYSICS (**APHYS 2022**) will be held in Kyiv, in October, 2022.

Best regards,  
Secretary of organizing committee of APHYS 2021

V.A. Moiseienko



We will be glad to see you next year.

Sincerely yours,  
Chairman of organizing committee of APHYS 2021

A.V. Netreba

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