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APHYS 2026

XXII INTERNATIONAL SCIENTIFIC CONFERENCE
ELECTRONICS AND APPLIED PHYSICS

20th -23rd October 2026
Kyiv | Ukraine



XXII INTERNATIONAL SCIENTIFIC CONFERENCE ELECTRONICS AND APPLIED PHYSICS (APHYS 2026)

Schedule of the conference

October 21, 2026 *(12-20 EEST)*	**Opening Ceremony & Plenary Session** ***(Chairman: Andrii Netreba)*** https://knu-ua.zoom.us/j/82164219164?pwd=SlBudG13KzQ4MTQzb1F1Vk9JUE4zZz09 Meeting ID: 821 6421 9164 Passcode: 241883 **12:20** *Opening Ceremony*

	12:30 TO THE 100th ANNIVERSARY OF S.M. LEVITSKY'S BIRTH *I.O. Anisimov* **13:10** SURFACE DAMAGING OF TUNGSTEN UNDER SEQUENTIAL EXPOSITION WITH HELIUM ION BEAM AND HIGH-POWER HYDROGEN PLASMA STREAMS *V.A. Makhlai, I.E. Garkusha, S.V. Malykhin, O.V. Manuilenko, I.N. Onishchenko, Yu.V. Petrov, K.V. Pavlii, Yu.Ye. Volkova, S.V. Surovitskiy, M. Wirtz* **13:50-14:00** *Coffee break*

October 21, 2026 (*14-30 EEST)*	**(PTA) – Polarimetry: Theory and Applications** ***(Chairman: Serhii Savenkov)*** https://knu-ua.zoom.us/j/89669373561?pwd=WFHhZ9uVVGQbLqgJcYkl1OdlxGr2bD.1 Meeting ID: 896 6937 3561 Passcode: 253308 ELECTRON MICROSCOPY OF FUNCTIONALISED POLYMERS: FILAMENT *T.I. Biriukov, O.M. Ivanyuta* FEATURES OF THE INTERACTION OF POLARIZED LIGHT WITH LONGITUDINALLY INHOMOGENEOUS MEDIA WITH ELLIPTICAL AMPLITUDE ANISOTROPY *D.V. Zabolotniy, I.S. Kolomiets, S.N. Savenkov, Ye.A. Oberemok, O.V. Tychko*

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INVERSE POLARIMETRY PROBLEM FOR MEDIA WITH CIRCULAR EIGENPOLARIZATIONS. DEGENERATE CASE

A.O. Sitnichenko, I.S. Kolomiets, S.N. Savenkov, O.V. Tychko

INVERSE PROBLEM OF POLARIMETRY BASED ON THE INCOMPLETE 2X2 MUELLER MATRIX

S.N. Savenkov, Y.A. Oberemok, A.A. Yakimkin, I.S. Kolomietz, V.M. Stetsiuk, T. Novikova

DEPOLARIZING MEDIA WITH LINEAR PHASE ANISOTROPY

O.O. Bondiuchna, I.S. Kolomiets, S.N. Savenkov, Ye.A. Oberemok, O.V. Tychko

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October 21, 2026 (*14-00 EEST)*	**(PS) – Physics of Semiconductors and Dielectrics, Semiconductor's Devices** ***(Chairman: Anna Karlash)*** https://meet.google.com/ote-jmit-eiz ELECTRIC PROPERTIES OF PEDOT:PSS/Si INTERFACE *O.I. Bozhko, O.I. Datsenko, S.V. Kondratenko* NONLINEARITY OF EDGE AND DEFECT LUMINESCENCE ON EXCITATION LEVEL *O.I. Datsenko, A.L. Golovynskyi* OPTICAL PROPERTIES OF SINGLE-LAYER ITO STRUCTURES FORMED BY MAGNETRON SPUTTERING *Y.O. Berkuta, O.S. Molochko, O.V. Machulianskyi* STRUCTURAL, OPTICAL AND MASS-SPECTROMETRIC PROPERTIES OF INORGANIC PEROVSKITES CsPbI3 AND CsPbBr3 *N.V. Bashmakova, N.I. Berezovska, N.I. Romanovska, I.M. Dmytruk, I.P. Pundyk, Ye.S. Hrabovskyi, R.V. Makarevych* THE EFFECT OF THE QUANTUM DOT SIZE DISPERSION ON THE ABSORPTION COEFFICIENT OF THE QD PHOTODIODE *M.V. Strikha, A.A. Sakun*

October 21, 2026 *(14-15 EEST)*	**(PP) – Plasma Physics (Day 1)** ***(Chairman: Anatoliy Veklych)*** https://us04web.zoom.us/j/75826596566?pwd=TDLa8BgJoThGbTBzZdGOuJtQ3RcIZI.1 Meeting ID: 758 2659 6566 Passcode: 9C05EX QUANTITATIVE ANALYSIS OF CHANNEL FORMATION AND NUMERICAL EFFECTS IN AN OVERDENSE PLASMA BARRIER *B.R. Mykhailenko, I.O. Anisimov* RADIAL DISTRIBUTION OF ELECTRON TEMPERATURE IN CYLINDRICAL PLASMA DEVICE WITH ANODE LAYER *V.Yu. Bazhenov, A.M. Dobrovolskii, V.V. Tsiolko, V.M. Piun* PLASMA SOURCE WITH A COMBINED DISCHARGE FOR ION-PLASMA NITRIDING *S.M. Gubarev, V.O. Khomych* SPATIAL DISTRIBUTIONS OF CLUSTERS IN THE MAGNETRON CHAMBER *O.Yu. Kravchenko, R. Y. Baltovsky, A.S. Bibik* NON-EQUILIBRIUM CURRENT-CARRYING ARGON PLASMA NEAR A SPHERICAL METAL PARTICLE: NUMERICAL MODELLING *A.I. Momot, D.V. Antoniv, I.V. Krivtsun* MODELING OF ANODE LAYER IN HALL TYPE THRUSTER *E.V. Romashchenko, A.M. Dobrovolsky*

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October 22, 2026 (*14-00 EEST)*	**(PP) – Plasma Physics (Day 2)** ***(Chairman: Anatoliy Veklych)*** https://us04web.zoom.us/j/75826596566?pwd=TDLa8BgJoThGbTBzZdGOuJtQ3RcIZI.1 Meeting ID: 758 2659 6566 Passcode: 9C05EX USING A TAPERED CHANNEL FILLED WITH LONGITUDINALLY INHOMOGENEOUS PLASMA TO IMPROVE THE SELF-INJECTED BUNCH PARAMETERS IN LWFA *D.S. Bondar, V.I. Maslov, I.N. Onishchenko* STUDY OF THE PULSED NEGATIVE CORONA IN OXYGEN IN AN ELECTRODE SYSTEM WITH A MOVING CATHODE *B.B. Kadolin, G. V. Taran, M.A. Yegorov, L.M. Zavada* MODELLING OF IONIZATION REGION PLASMAS AT HIGH AND LOW PRESSURES USING 0D MODELS *I.B. Denysenko, I.M. Sereda, Ya.O. Hrechko* INFLUENCE OF ACCELERATOR PARAMETERS WITH IES AND POS ON THE ENHANCEMENT OF VIRCATOR MICROWAVE GENERATION *D.V. Vinnikov, O.M. Ozerov, V.V. Katrechko, V.I. Tkachov, V.B.Yuferov, O.V. Manuilenko, I.N. Onishchenko* CONDITIONS FOR EXCITATION OF MAXIMUM-POWER MICROWAVE OSCILLATIONS IN A COAXIAL LINE PARTIALLY FILLED WITH FERRITE

	O.B. Batrakov, S.Yu. Karelin, V.S. Mukhin, I.N. Onishchenko, O.L. Rak FREQUENCY MEASUREMENT OF MILLIMETER-WAVE RELATIVISTIC MAGNETRONS USING THE HETERODYNE METHOD *A.B. Batrakov, V.G. Korenev, O.M. Lebedenko, I.N. Onishchenko, O.L. Rak, A.O. Shtanko, M.V. Volovenko* EFFICIENT LASER WAKEFIELD ACCELERATION IN SHAPED PLASMA CHANNELS: NUMERICAL SIMULATION *Mariia Seniak, Nataliia Mykhailyshyn, Vasyl I. Maslov* ANALYTICAL STUDY AND NUMERICAL SIMULATION OF PLASMA WAKEFIELD ACCELERATION *I. V. Demydenko, D. Maslo, V. I. Maslov, S. Melnik*

October 22, 2026 *(12-00 EEST)*	**(SP) – Surface Physics, Nano- and Microelectronics** ***(Chairman: Andrii Horyachko)*** https://meet.google.com/jvt-vakr-ghs AUTOMATED CONTROL SYSTEM FOR AN EXPERIMENTAL SETUP FOR INVESTIGATING THE BAROCALORIC EFFECT *D. Velyhotskyi, Yu. Skirta, V. Zamorskyi* EFFECT OF AN OUTER LAYER ON THE CHARACTERISTICS OF AN SPR SENSOR: THEORETICAL OPTIMIZATION AND EXPERIMENTAL IMPLEMENTATION *A.I. Biletskiy, O.L. Kukla, O.M. Fedchenko* EFFECT OF DISORDERING VIA MECHANICAL DEFORMATION ON THE SUPERCONDUCTING PROPERTIES OF TUNGSTEN-RHENIUM ALLOY *D. Mindich, V. Tarenkov, A. Shapovalov* FIRST-PRINCIPLES DFT MODELING OF THE ATOMIC AND ELECTRONIC STRUCTURE OF 2D SiGe MONOLAYER *D. Zheleznov, A. Goriachko, Y. Len* OPTICAL PROPERTIES OF CHROMIUM-BASED NANOCOMPOSITE STRUCTURES *Malovychko H.S., Machulianskyi O. V.* REVIEW OF FIRST-PRINCIPLES AND MULTISCALE MODELING OF ATOMIC-SCALE MEMORY *Oleh Holubovskyi, Anatoliy Ivanisik, Andrii Goriachko*

October 23, 2026 *(12-00 EEST)*	**(PP) – Plasma Physics (Day 3)** ***(Chairman: Anatoliy Veklych)*** https://us04web.zoom.us/j/75826596566?pwd=TDLa8BgJoThGbTBzZdGOuJtQ3RcIZI.1 Meeting ID: 758 2659 6566 Passcode: 9C05EX REAL-TIME OPTICAL EMISSION SPECTROSCOPY OF ARC DISCHARGE PLASMA ACCELERATED BY STREAMING SoC FPGA ARCHITECTURE *D. Zozulia, A. Murmantsev, A. Veklich* ELECTRON ENERGY DISTRIBUTION FUNCTION IN THE PLASMA OF A SECONDARY DISCHARGE SYSTEM SUPPORTED BY A ROTATING GLIDING DISCHARGE *V.Ya. Chernyak, K.V. Iukhymenko, O.O. Zavazhenko, S.V. Shulga, O.V. Nemirovskyi* PLASMA-CHEMICAL SYSTEM FOR THE ACTIVATION OF AEROSOL MEDIA *V.Y. Chernyak, K.V. Iukhymenko, O.O. Zavazhenko, S.V. Shulga, V.I. Vyunov, O.V. Nemirovskyi* PROPERTIES OF WIDE-APERTURE ROTATING GLIDING DISCHARGE FOR WET LEPIDIUM SATIVUM SEEDS TREATING *Y. Kovalenko, O. Nedybaliuk* PROPERTIES OF PLASMA SYSTEM WITH CORONA DISCHARGE FOR POST-PYROLYSIS GASES CLEANING *M. Koval, O. Nedybaliuk*

	PROPERTIES OF DBD PLASMA SYSTEM FOR MICROGREEN SEEDS TREATING *Y. Ignatenko, O. Nedybaliuk* INVESTIGATION OF THE COMPONENT COMPOSITION OF UNDERWATER DISCHARGE PLASMA BETWEEN METAL GRANULES *V.V. Ninyovskij, A. Murmantsev, A.M. Veklich*

October 23, 2026 (*12-30 EEST)*	**(REC) – Radio Engineering and Communications** ***(Chairman: Genadiy Zhyrov)*** https://meet.google.com/xtp-axtv-tgz ANALYSIS OF HARDWARE IMPLEMENTATIONS OF DIGITAL FIR FILTERS *A. Nesterenko, M. Reznikov* COMPARISON OF IONOSPHERIC RADIO CHANNEL PARAMETERS DURING THE IONOSPHERIC STORMS OF MAY, SEPTEMBER, AND OCTOBER 2024 *L.F. Chernogor, V.O. Bessarabova* GEOELECTROMAGNETIC INFLUENCE ON UKRAINIAN TECHNOLOGICAL SYSTEMS *Leonid Chernogor, Yevhen Zhdanko* GEOMAGNETIC EFFECTS OF SOLAR FLARES OF MAY 10–14, 2024: GLOBAL AND TIME FEATURES *Leonid Chernogor, Marya Holub, Victor Rozumenko, Yevhen Zhdanko*

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LABORATORY CIRCUIT FOR DEMONSTRATION OF SIGNAL PROPAGATION DELAY IN LOGIC GATES

R.V. Bohdanov

MATHEMATICAL MODEL OF A LASER RADIATION AVERAGE OPTICAL POWER METER

R. Batytskyi, M. Reznikov

MATHEMATICAL MODEL OF A LOW FREQUENCY POWER AMPLIFIER

M. Omelchenko, M. Reznikov

MICRO-DOPPLER AND SPECTRAL CHARACTERISTICS OF ELECTRIC DRIVES FOR TECHNICAL CONDITION MONITORING

V. Koval, O. Ivanyuta

POWERFUL GEOSPACE STORMS OF SOLAR CYCLE 25: ON THE TRANSITION FROM CORRELATIONS BETWEEN INDIVIDUAL SAMPLES TO TRANSFERABLE STATISTICAL LAWS

L.F. Chernogor, M.Yu. Tkachenko, A.V. Zienin

RADIO FACILITY FOR MULTI-PATH FREQUENCY–ANGLE REMOTE SENSING OF THE IONOSPHERE RADIO CHANNEL

Kostyantyn Garmash, Leonid Chernogor, Yevhen Zhdanko

	REMOTE SENSING OF THE IONOSPHERE RADIO CHANNEL: THE IMPACT OF GEOMAGNETIC STORMS ON GLOBAL ELECTRON CONTENT *Leonid Chernogor, Anatoliy Tsymbal, Yevhen Zhdanko* THE MULTI-STEP SEVERE GEOMAGNETIC STORM GLOBAL-SCALE FEATURES *Leonid Chernogor, Marya Holub, Yiyang Luo, Maksym Tkachenko* THE STORM AS THE UNIT OF STATISTICAL INFERENCE: PSEUDOCORRELATIONS AND THEIR IMPACT ON THE SOLUTION OF PROBLEMS IN SPACE RADIO PHYSICS *L.F. Chernogor, M.Yu. Tkachenko, A.V. Zienin* WAVE EFFECTS OF A POWERFUL SUBMARINE EARTHQUAKE *Leonid Chernogor, Oleksandr Liashchuk, Olena Rudycheva* MULTI-INSTRUMENT ANALYSIS OF THE MAY–JUNE 2025 GEOSPACE STORM *L. F. Chernogor, T. K. Hrabko*

October 23, 2026 (*12-00 EEST)*	**(MAP) – Mathematical Problems of Applied Physics** **(PM) – Physics of Magnetism** ***(Chairman: Andrii Netreba)*** https://meet.google.com/agx-vkqc-nts **(MAP) – Mathematical Problems of Applied Physics:** DYNAMICAL FRACTAL ANALYSIS IN APPLIED PHYSICS *L.F. Chernogor, O.V. Lazorenko, A.A. Onishchenko*

CALCULATION OF TRANSITION PROBABILITIES BETWEEN TRANSVERSE ENERGY QUANTUM LEVELS AND THEIR WIDTHS FOR CHANNELED CHARGED PARTICLES IN NON-AXISYMMETRIC POTENTIAL WELLS

D.M. Maksyuta, V.I. Vysotskii, M.V. Maksyuta, O.Yu. Masyutka

MATHEMATICAL MODELING OF THE DIFFUSION-DEFORMATION RESPONSE OF A PALLADIUM CANTILEVER DURING DEGASSING OF $_{\alpha}$-PdH_n ALLOYS

O.M. Liubymenko

ANALYSIS OF INNOVATION SUPPORT AMIDST ECONOMIC INSTABILITY AND UNCERTAINTY USING p-ADIC MODELING

A.P. Badiulia, M.V. Maksyuta, V.V. Obukhovsky

(PM) – Physics of Magnetism:

EVOLUTION OF A DEMAGNETIZED SPIN STATE TOWARD EQUILIBRIUM

I.A. Yastremsky, B.A. Ivanov

FOUR-MAGNON INSTABILITY IN NANOSCALE YIG FILMS FOR FREQUENCY-SELECTIVE MICROWAVE POWER LIMITING

Terentii Hritsai, Roman Verba

PARAMETRIC INSTABILITY OF HIGHER-ORDER THICKNESS SPIN-WAVE MODES IN FERRITE FILMS UNDER SURFACE ACOUSTIC WAVE PUMPING

L. Ushii, R. Verba

October 23, 2026 *(12-00 EEST)*	**(MP) – Medical Physics** ***(Chairman: Serhii Radchenko)*** https://meet.google.com/ztd-nufz-zhf

BONE AGE ASSESSMENT FROM INDIVIDUAL HAND REGIONS: A MASKED-ATTENTION ENSEMBLE WITH AN ANATOMICAL REGION DETECTOR

I.B. Riabko, A.D. Terets, S.O. Riebienkov, S.P. Radchenko

CONFORMATIONAL ANALYSIS OF ADENOSINE NUCLEOTIDES USING DFT CALCULATIONS AND FTIR-ATR SPECTROSCOPY

K.O. Maiko, Y.G. Terentyeva

DOES AI ASSISTANCE CHANGE HOW A RADIOLOGIST READS? A PAIRED READER STUDY OF AI-ASSISTED FRACTURE DETECTION ON LIMB RADIOGRAPHS

I.B. Riabko, S. Laporte, V. Kistechek

EFFECT OF PLASMA-ACTIVATED WATER AND PLASMA SCARIFICATION ON THE GROWTH STIMULATION OF LEPIDIUM SATIVUM L. AND LACTUCA SATIVA L.

Yu. Veremii, O. Nedybaliuk, Ya. Buts

EVALUATION OF LOCAL STRUCTURE AND TEXTURE PRESERVATION IN MR IMAGES AFTER NEURAL NETWORK-BASED DENOISING

D.G. Sliusarenko, A.V. Netreba

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NONINVASIVE ESTIMATION OF BLOOD GLUCOSE LEVELS FROM PHOTOPLETHYSMOGRAPHY USING MACHINE LEARNING

R. Klymenko, O. Slobodyanyuk, D. Velyhotskyi

SENSITIVITY OF INTEGRATED TRANSIT EPID IMAGES TO HETEROGENEOUS PHANTOM DISPLACEMENTS DURING VMAT

V. Vashchyshyn, A. Ivanisik

TUNABLE ELECTROMAGNETIC SHIELDING AND MICROWAVE ABSORPTION OF PVC/GRAPHENE COMPOSITE FILMS

D.O. Zhytnyk, A.I. Ivanisik, I.P. Matushko, V.A. Moiseienko, L.M. Grishchenko

TUNABLE MICROWAVE SHIELDING PROPERTIES OF POLYVINYL CHLORIDE COMPOSITES FILLED WITH BR2/EN-MODIFIED ACTIVATED CARBON

D.O. Zhytnyk, A.I. Ivanisik, I.P. Matushko, V.A. Moiseienko, L.M. Grishchenko

THE ROLE OF P AND T TEMPLATES IN DETECTING ADDITIONAL P WAVES IN ECG SIGNALS

V.I. Sapaiev, A.V. Netreba

October 23, 2026 *(12-00 EEST)*	**(CT) – Computer Technologies** ***(Chairman: Sergii Zagorodniuk)*** https://knu-ua.zoom.us/j/83587277379?pwd=wlQaHH3oTmjm8cyaona3653ChUHX0Z.1 Meeting ID: 835 8727 7379 Passcode: 299126 ARCHITECTURE OF THE "INVESTIGATOR'S WORKPLACE" TRAINING SUITE: A PROGRESSIVE WEB APPLICATION WITHOUT SERVER-SIDE LOGIC *Mykhailo Matskul* AUTONOMOUS GENERATION OF YOUTUBE VIDEO TITLES FROM VIDEO TRANSCRIPTS USING T5 MODEL *Vadym Koncha* BROKEN ACCESS CONTROL IN COMPUTER SYSTEMS *Yurii Kovalov, Yuriy Boyko* DEVELOPMENT OF A CLOUD-BASED VOICE ASSISTANT WITH REMOTE SERVER-SIDE DEPLOYMENT *O.A. Statsenko, O.M. Liubymenko, O.A. Shtepa, N.O. Maslova* MARINE DEBRIS DETECTION IN SHALLOW WATERS USING YOLO-BASED NETWORKS *Orysia Snitko, Andriy Konovalov* METHOD AND SOFTWARE TOOL FOR THE AUTOMATED DETECTION AND COMPENSATION OF BYTE-ORIENTED

	XOR TRANSFORMATION DURING THE RECOVERY OF RESOURCES FROM PROPRIETARY ARCHIVE FORMATS *M.D. Balychev, O.M. Liubymenko, O.A. Shtepa, N.O. Maslova* SELECTING A VISUAL TRACKER TO COMPLEMENT YOLO NANO DETECTION ON RASPBERRY PI *Yevhenii Hloba* SIMULATION-BASED EVALUATION OF FPGA-AWARE GENETIC ALGORITHM AND HEURISTIC TASK SCHEDULING FOR MIXED-ISA CLUSTERS *Oleksandr Hryshchuk, Sergiy Zagorodnyuk*

October 23, 2026 (*14-30 EEST)*	**(LPO) – Laser Physics and Optoelectronics** ***(Chairman: Serhii Savenkov)*** https://knu-ua.zoom.us/j/85748995546?pwd=Vhd0iVcYPUzHrpFUod58f843hLX3qT.1 Meeting ID: 857 4899 5546 Passcode: 188592 COMPUTATIONAL SCREENING OF NEUTRAL MOLYBDENUM LASER TRANSITIONS IN THE 572.5–700 NM SPECTRAL GAP *Oleksii Komarov, Andrii M. Dobrovolskiy* FRONT-TILTED LASER PULSE ACCELERATION OF NON-RELATIVISTIC ELECTRONS *A.V. Vasyliev, I.V. Beznosenko, S.M. Kovalov, G.V. Sotnikov*

	LASER PUMPING EFFICIENCY FOR RAMAN AMPLIFICATION OF TELECOM SIGNAL IN SINGLEMODE SILICA FIBERS *V. Zaika, S. Felinskyi, I. Serdeha, G. Felinskyi* MATHEMATICAL MODELING OF MICROSTRUCTURE FORMATION IN THIN METAL FILMS BY DIRECT LASER WRITING *Ievgen Beliak, Yuriy Chehil* MEASURING THE NONLINEAR REFRACTIVE RESPONSE OF STRONGLY SCATTERING AND WEAKLY ABSORBING POLYETHYLENE TO 808-NM IRRADIATION *Volodymir Sokolov, Yaroslav Lazorenko, Vita Mitsai* PHOTOINDUCED REPOLARIZATION AND LIGHT SCATTERING IN PHOTOREFRACTIVE MEDIA *V. Lemeshko*

October 23, 2026 *(16-00 EEST)*	**Closing Ceremony** ***(Chairman: Andrii Netreba)*** https://knu-ua.zoom.us/j/82164219164?pwd=SlBudG13KzQ4MTQzb1F1Vk9JUE4zZz09 Meeting ID: 821 6421 9164 Passcode: 241883