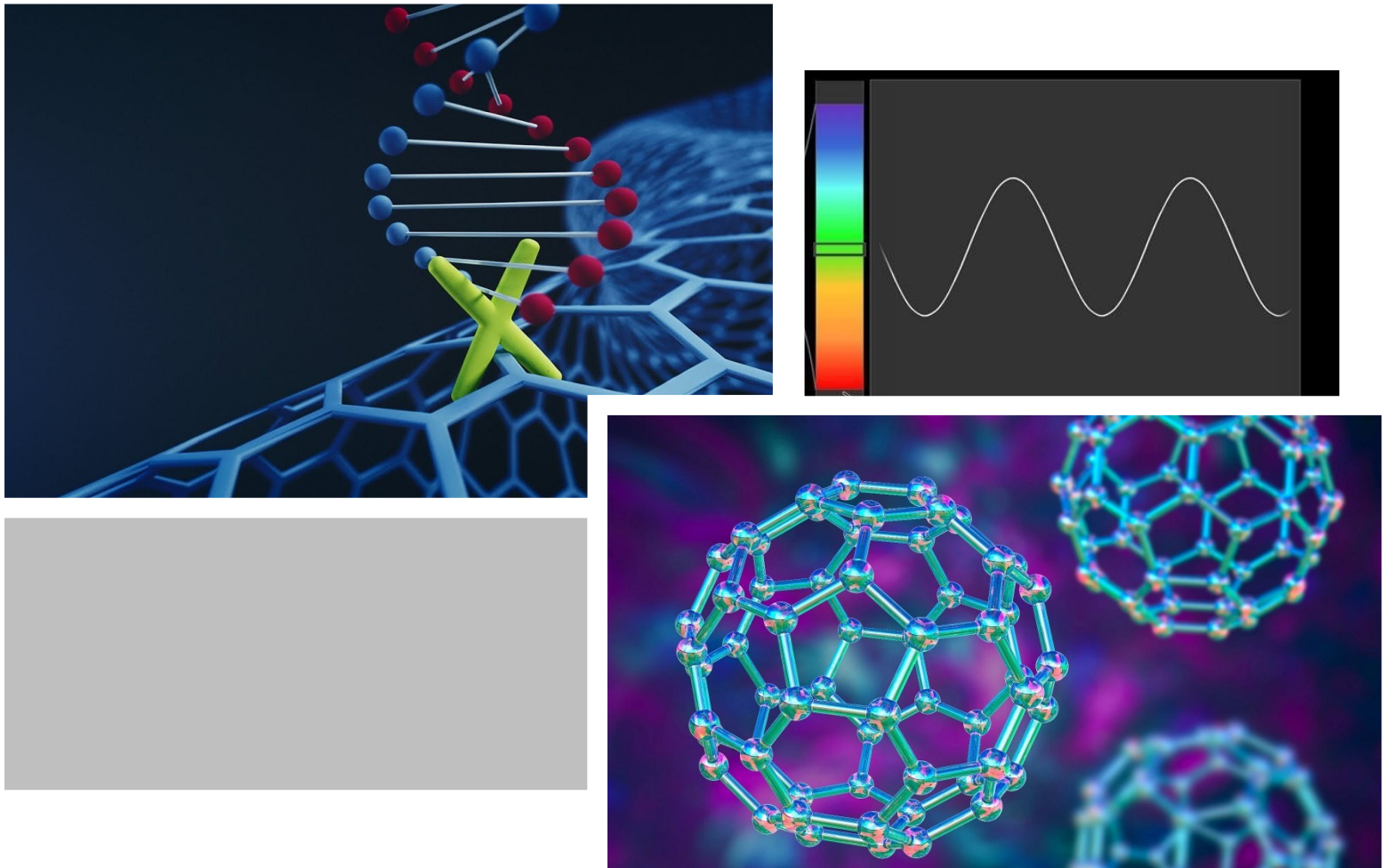




THE *TENTATIVE* PROGRAM

APMAS 2026

GENERA 2026



APMAS 2026
16th International Advances in Applied Physics & Materials Science
Congress & Exhibition
OCTOBER 13-19, 2026

GENERA 2026
2nd Global Exchange on Next-Gen Engineering and Life Sciences
Research and Applications
OCTOBER 17-19, 2026

Liberty Hotels Lykia, Oludeniz
MUGLA / TURKEY

TENTATIVE PROGRAM SUNDAY, OCTOBER 11, 2026	
<i>14:00-16:30</i>	REGISTRATION FOR EARLY ARRIVALS (14:00 Check-in)

TENTATIVE PROGRAM MONDAY, OCTOBER 12, 2026	
<i>9:00-16:30</i>	REGISTRATION (14:00 Check-in)
<i>Everyday Tours</i>	SOCIAL PROGRAM • <i>Saklıkent Jeep Safari</i> • <i>Paragliding in Oludeniz</i>

TENTATIVE PROGRAM TUESDAY, OCTOBER 13, 2026	
APMAS	
HALL 1	
PLENARY SESSION 09:00-09:45	Chairperson: A.Yavuz Oral Alper Sahiner Seton Hall University, USA “ID3068-Artificial Intelligence-Driven Materials Characterization via Synchrotron-Based Spectroscopy and Scattering: A Review and Examples”
PLENARY SESSION 09:45-10:30	Chairperson: A.Yavuz Oral Aliaksandr Smirnov Belarusian State University of Informatics and Radioelectronics, Belarus “ID2927- AI cognitive neural networks based on a memristor’s array as synapses”
10:30-11:00	COFFEE BREAK
PLENARY SESSION 11:00-11:45	Chairperson: A.Yavuz Oral Atakan Aral University of Vienna, Austria “ID2938- Neuromorphic Edge Computing for Low-Power Intelligent Sensing”
PLENARY SESSION 11:45-12:30	Chairperson: A.Yavuz Oral XX “xxx”
12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-15:30	APMAS
	HALL 1 Chairperson: Arcady Zhukov 14:00-14:30 Arcady Zhukov Univ. Basque Country, EHU, and Ikerbasque, Spain (invited speaker) ID2941- Recent Advances in Development of Amorphous Microwires for Sensor Applications

	14:30-15:00 Sasa Sladic University of Rijeka, Croatia (invited speaker) ID3007- Modern Electric Power System Power Surges 15:00-15:30 Evgeny Troyan , Belarus (invited speaker) ID2944- Multilayer Non-Volatile Memory Elements
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TENTATIVE P R O G R A M WEDNESDAY, OCTOBER 14, 2026	
APMAS	
HALL 1	
PLENARY SESSION 09:00-09:45	Chairperson: A.Yavuz Oral XX “xxx”
PLENARY SESSION 09:45-10:30	Chairperson: A.Yavuz Oral Claudia Belviso CNR, Italy “ID2945- Waste-derived zeolite for pollution remediation: an example of the circular economy”
10:30-11:00	COFFEE BREAK
PLENARY SESSION 11:00-11:45	Chairperson: A.Yavuz Oral Ibrahim Abdulhalim Ben Gurion University of The Negev, Israel “ID3040- Tunable photonic liquid crystal metasurfaces for spectral-polarimetric imaging, biosensing, and energy management applications”
PLENARY SESSION 11:45-12:30	Chairperson: A.Yavuz Oral XX “xxx”

12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-15:30	APMAS
	HALL 1
	Chairperson: Galina Kalashnikova
	14:00-14:30 Galina Kalashnikova Federal Research Centre “Kola Science Centre of the Russian Academy of Sciences”, Russian Federation (invited speaker) ID3048- Rare and lesser-known minerals as prospective sources for advanced functional materials
	14:30-14:50 Marcin Malek Military University of Technology, Faculty of Civil Engineering and Geodesy, Poland ID3026- Analysis of the Influence of Steel Fibres on the Mechanical Properties of Vibropressed Products
	14:50-15:10
	15:10-15:30

TENTATIVE PROGRAM THURSDAY, OCTOBER 15, 2026	
APMAS	
HALL 1	
PLENARY SESSION 09:00-09:45	Chairperson: A.Yavuz Oral XX “xxx”
PLENARY SESSION 09:45-10:30	Chairperson: A.Yavuz Oral Paul L.A. Popelier University of Manchester, UK “ID2970- FFLUX: Machine Learnt Potentials Based on Quantum Topological Atoms”
10:30-11:00	COFFEE BREAK
PLENARY SESSION 11:00-11:45	Chairperson: A.Yavuz Oral Dagou Zeze Durham University, UK “ID3005- Nanomaterial Engineering for Advanced Functional Devices”

PLENARY SESSION 11:45-12:30	Chairperson: xx “xxx”
12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-15:30	APMAS
	HALL 1 Chairperson: Federico Montoncello 14:00-14:30 Federico Montoncello University of Ferrara, Italy (invited speaker) ID3022- Vertical Control in Magnonics: Layered Architectures for Tunable Spin-Wave Interactions And Band Engineering 14:30-14:50 Felicia Mihai Horia Hulubei, National Institute for R&D in Physics and Nuclear Engineering, Romania ID2995- Assessment of Low-Energy X-Ray Beam Quality through Dose Distribution Measurements in the Focal Spot Projection Area Using Thermoluminescent Dosimetry 14:50-15:10 15:10-15:30
15:30-16:00	COFFEE BREAK
16:00-17:00	FOYER (Poster Session Area) Chairperson: A. Yavuz Oral POSTER SESSION I APMAS

TENTATIVE PROGRAM FRIDAY, OCTOBER 16, 2026	
APMAS	
HALL 1	
PLENARY SESSION 09:00-09:45	Chairperson: A.Yavuz Oral xx “xxx”
PLENARY SESSION 09:45-10:30	Chairperson: A.Yavuz Oral Peng Jiang University of Florida, USA “ID2934- Reconfigurable Nanooptics and Smart Chromogenic Sensors Enabled by Multi-Stimuli-Responsive Shape Memory Polymers”
10:30-11:00	COFFEE BREAK
PLENARY SESSION 11:00-11:45	Chairperson: A.Yavuz Oral Karina Morgenstern Ruhr-Universität Bochum, Germany “ID3001- Experimenting with individual atoms and molecules – from nano-snowflakes to single-molecule switches”
PLENARY SESSION 11:45-12:30	Chairperson: xx “xxx”
12:30-13:15	LUNCH
13:15-18:00	SOCIAL PROGRAM 13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND (Gathering at Congress registration desk)

TENTATIVE P R O G R A M SATURDAY, OCTOBER 17, 2026	
APMAS & GENERA	
HALL 1	
PLENARY SESSION 09:00-09:45	Chairperson: A.Yavuz Oral XX “XXX”
PLENARY SESSION 09:45-10:30	Chairperson: A.Yavuz Oral Aleksandra Wesełucha-Birczyńska Jagiellonian University in Kraków, Poland “ID56- TWO-TRACE TWO-DIMENSIONAL (2T2D) CORRELATION SPECTROSCOPY IN EARLY MEDICAL DIAGNOSIS”
10:30-11:00	COFFEE BREAK
PLENARY SESSION 11:00-11:45	Chairperson: Marianne Degerman Skellefteå municipality Umeå university, Sweden “ID55- Laser Photobiomodulation on hard-to-heal ulcers in frail older adults”
PLENARY SESSION 11:45-12:30	Chairperson: XX “XXX”
12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-15:30	APMAS & GENERA HALL 1 Chairperson: Konstantin Vorotilov 14:00-14:30 Konstantin Vorotilov MIREA - Russian Technological University, Russian Federation (invited speaker) ID3009- Molecular Self-Assembly to Advanced Microelectronics: Tailoring Nanostructures and Phase Interactions

	14:30-15:00 Tatiana Kuzmicheva Lebedev Physical Institute RAS, Russian Federation (invited speaker) ID3029- Crystal growth, transport phenomena, and superconducting properties of K and Cs-based ferroselenides 15:00-15:30
15:30-16:00	COFFEE BREAK
16:00-17:00	FOYER (Poster Session Area) Chairperson: A. Yavuz Oral POSTER SESSION II APMAS & GENERA

TENTATIVE PROGRAM SUNDAY, OCTOBER 18, 2026	
APMAS & GENERA	
PLENARY SESSION 09:00-09:45	HALL 1 Chairperson: A.Yavuz Oral XX “XXX”
PLENARY SESSION 09:45-10:30	Chairperson: A.Yavuz Oral Carl J. Boehlert Michigan State University, USA “ID33- Composition -Processing-Microstructure-Property Relationships of High Pressure Torsion Processed Zinc-Magnesium Alloys Targeted for Absorbable Biomedical Implant Applications”
10:30-11:00	COFFEE BREAK
PLENARY SESSION 11:00-11:45	Chairperson: XX “XXX”

PLENARY SESSION 11:45-12:30	Chairperson: xx “xxx”
12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-16:10	APMAS & GENERA HALL 1 Chairperson: Carmen Tuca 14:00-14:30 Carmen Tuca National Institute for R&D in Physics and Nuclear Engineering, “Horia Hulubei”, IFIN-HH, Radioactive Waste Management Department <i>(invited speaker)</i> ID2973- Key elements on data digitalization methodology for radiological characterization of a Cyclotron U-120- type particle accelerator under decommissioning 14:30-15:00 Eduard Gevorkyan Moscow Witte University, Russia <i>(invited speaker)</i> ID3067- Strong Interaction of a Signal Transverse-Electric and Transverse-Magnetic Waves with a Periodically Modulated Wave of a Magnetodielectric Plate, Placed in a Waveguide 15:00-15:20 Bora Sener Yildiz Technical University, Turkiye ID2940- Evaluation of the Associated Yld2000-2d and Non-Associated Hill48 Models for the Description of Planar Anisotropy in a 1180 MPa Grade High-Strength Steel Sheet 15:20-15:40 Dagmar Merinska Tomas Bata University in Zlin, Czech Republic ID2989-The possibility of using recycled PVB in the mixture with PVC and fillers 15:40-16:10 Oksana Lastochkina Institute of Biochemistry and Genetics, Ufa Federal Research Centre, Russian Academy of Sciences, Russian Federation <i>(invited speaker)</i> ID40- Contribution of Endophytic Bacillus subtilis to Wheat Photosynthetic Performance and Growth Under Combined Drought, Salinity, and Heat
19:30-21:30	SPECIAL DINNER WITH APMAS-GENERA PLENARY - INVITED SPEAKERS <i>(Authentic Turkish Cuisine)</i>

TENTATIVE PROGRAM MONDAY, OCTOBER 19, 2026	
APMAS & GENERA	
PLENARY SESSION 09:00-09:45	HALL 1 Chairperson: XX “XXX”
PLENARY SESSION 09:45-10:30	Chairperson: A.Yavuz Oral Yousry El-Kassaby Faculty of Forestry and Environmental Stewardship, Canada “ID41- Tree Breeding: Transforming Sustainable Forest Management Through a Paradigm Shift”
10:30-11:00	COFFEE BREAK
PLENARY SESSION 11:00-11:45	Chairperson: A.Yavuz Oral Alexandra Jerao Manitoba Agriculture, Canada “ID52- One Health in Action: Dog management and rabies prevention in northern Manitoba, Canada”
PLENARY SESSION 11:45-12:30	Chairperson: XX “XXX”
12:30-13:15	LUNCH

13:15-18:00	<i>SOCIAL PROGRAM</i> 13:15-18:00 <i>GHOST TOWN & BLUE LAGOON</i> <i>(Gathering at Congress registration desk)</i>
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<i>TENTATIVE</i> P R O G R A M TUESDAY, OCTOBER 20, 2026	
	Leisure Time Liberty Hotels Lykia offers a premium leisure experience with extensive amenities and a stunning natural setting. The resort features a private beach, multiple swimming pools, an aquapark, diverse dining options, sports facilities, and a fully equipped spa and wellness centre. Combining comfort, entertainment, and relaxation, it provides an ideal atmosphere for guests seeking both tranquillity and active recreation throughout their stay.
12:00	<i>HOTEL CHECK OUT</i>

PROGRAM LEGEND DESCRIPTIONS	
ID-	APMAS 2026 oral presentations
ID-	GENERA 2026 oral presentations

***TENTATIVE* POSTER PROGRAM**

THURSDAY, OCTOBER 15, 2026

16:00-17:00

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION I

APMAS

ID	TITLE	CONTACT AUTHOR
2942	Grading Of Magnetic Anisotropy and Engineering of Domain Wall Dynamics in Fe-Rich Microwires by Stress- Annealing	Valentina Zhukova
2926	Influence of Hydrothermal Carbonisation Temperature on Porous carbon Spheres Preparation	Ance Plavniece
2943	Microstructure and tip shape of crystals in Al-Si alloys	Liubov Toropova
2977	Clay-based Materials for Immobilization of Halide-containing Radioactive Waste	Anna Matveenko
2950	Overview of Research on Silicon Carbonitride Films Fabricated by Hot-wire Chemical Vapor Deposition	Akira IZUMI
2967	Design and Implementation of an OSDP-Native Electronic Handle Lock for Access Control Systems	Selahattin Mert Aydın
2956	AI Earthquake Detection Using MEMS Sensors for Smart Alarm Systems	Andac Kaya
2958	Fe and Ni removal efficiency from water by natural humic acids	Tomáš Bakalár
3037	Synthesis of potassium zeolites from obsidian and bauxite. Investigation on magnetic properties and ammonium removal efficiency	Antonio Lettino & Francesco Cavalcante
3050	Improvement of Hydrometallurgical Methods for Processing High-Silica Bauxite Raw Materials	Leila Imangaliyeva
3051	Hydrochemical Extraction of Scandium from Alumina Production Red mud	Alfiya Manapova
3052	Integrated Processing of Demetallized Slag for the Recovery of Rare Earth Elements and Titanium	Leila Imangaliyeva
3053	Production of Aluminate Solutions for Carbonation by Leaching Red Mud Sinter	Leila Imangaliyeva
3047	Fabrication of Antibacterial Copper Thin Films on Fibrous Substrates via DC Magnetron Sputtering	Bauyrzhan Maratuly
2959	Evaluation of the sorption capacity of zeolites in the removal of selected heavy metals from water	Tomáš Bakalár

TENTATIVE POSTER PROGRAM**SATURDAY, OCTOBER 17, 2026****16:00-17:00****FOYER (Poster Session Area)**

Chairperson: A. Yavuz Oral

POSTER SESSION II**APMAS & GENERA**

ID	TITLE	CONTACT AUTHOR
2984	Stability and magnetic ordering near the antiphase boundary in Ni ₂ MnGa	František Máca
2928	Ultrafast subwavelength CVD-graphene nanoheater for the generation of broadband photoacoustic waves	Ales Mrzel
2993	Synthesis and Characterization of Electroless Ni–B Composite Coatings with Varying Dispersed Boron Phase Content	Katarzyna Skroban
3006	Electrochemical deposition of nickel - boron composite coatings: the influence of bath composition with organic additives on surface morphology and tribological properties	Anna Gajewska-Midziałek
2960	Obtaining selected critical elements using deep eutectic solvents	Maria Kanuchova
2979	Energy Consumption Analysis of Hybrid and Electric Vehicles in Real Driving Cycles	Jacek Pielecha
3015	Antifibrotic Effects of Polyphenolic Extracts in an Experimental Model of Pulmonary Fibrosis	Zarina Shulgau
3008	Sensitivity of Laser Diffraction Sizing to Optical Parameters: A Comparative Study of Mie and Fraunhofer Scattering Models in Heterogeneous Media	Igaz Dusan & Viliam Bárek
2968	Biochar as a biomaterial for reducing the soil acidity: a long-term field study	Ján Horák
3018	Plant-Derived Exosome-Like Nanoparticles from Polyphenol-Rich Berries as Natural Nanocarriers for Quercetin Delivery	Nursultan Kalamov
3055	Symbolic Regression for Input Variable Selection and Sensitivity Analysis Plasma Torch	Jaroslav Frantik
2949	Numerical and experimental study of functional borates of the BaO–B ₂ O ₃ –BaF ₂ system	Tatyana Bekker
3017	Biomarker Panels Reflect the Development of Pulmonary Fibrotic Processes in Coal Miners	Alexandr Gulyayev
3016	Grape Polyphenol Concentrate Improves Oxidative Stress Markers in Coal Miners with Occupational Lung Disease Predictors	Sergazy Shynggys
2951	Accentuated Adsorption of Cu ²⁺ and Pb ²⁺ from Aqueous Solution Using Activated Macadamia Nutshell	mokete phele
3049	Synthesis and properties of castor oil-based non-isocyanate polyurethane films	SangBum Kim
2980	Non-Intrusive Assessment of Efficiency of Fuel Cell in FCHEV in Real Driving Conditions	Piotr Pielecha
2981	Research on a hybrid rail vehicle in terms of energy consumption and ecology	Lukasz Rymaniak

2978	Electronic and Magnetic Anisotropy in Ba _{1-x} K _x Fe ₂ As ₂ Single Crystals: An Angular- Dependent NRMA and DFT Study	Tshiwela Caroline Ramashitja
58	Endophyte-Induced Root Architectural Remodeling Drives Genotype-Specific Zn/Fe Biofortification In Wheat Under High-Moisture Field Conditions	Liudmila Pusenkova