



ICONAT2026

**8th INTERNATIONAL CONFERENCE
ON NATURAL SCIENCES AND TECHNOLOGIES**

3-5 SEP 2026

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Official Opening of the ICONAT-2026

3 Sep 2026 09.30

Fethiye Municipality

Cultural Center

Fethiye-Turkiye

PROGRAM

08.30 The Start of Registration Process

09.30 Official Opening of the ICONAT-2026
Welcome by Conference

Prof. Dr. Murad Omarov, Vice-Chairman Organization Committee
Vice-Rector, NURE, Ukraine.

Prof. Dr. Abidin Kılıç, Chairman of Organization Committee
Eskisehir Technical University, Türkiye

INVITED SPEAKERS

3 Sep 2026

10.00 Prof. Dr. Ekrem Aydiner
“Fundamental Problems of Cosmology and Proposed Solutions”
(Kozmolojinin Temel Problemleri ve Çözüm Önerileri)

11.00 Prof. Dr. Yavuz Akbulut
“Is Science Always Right? How Changing Truths Make Science Stronger”
(Bilim Her Zaman Haklı mı? Değişen Doğrular ve Güçlenen Bilim)

12.00 Lunch Break

13.30 Sam SCIMEMI
“From Low-Earth-Orbit, to the Moon and onto Mars”
(Dünya'nın Alçak Yörüngesinden, Ay'a ve Mars'a)

14.30 Prof. Dr. Maryna Yevdokymenko
“Cybersecurity Education For Industry 5.0: A Human-Centric”
(Endüstri 5.0 için Siber Güvenlik Eğitimi: İnsan Odaklı Bir Yaklaşım)

POSTER PRESENTATIONS

15:30-17:00

3 Sep 2026

P-01. Derya Arslan-Türkiye*Evaluation of Pectin Types For Texture Development and Gelation Performance in Fruit-Based Confectionery Applications***P-02. Şevval Şen- Türkiye***Glass Transition, Water Activity, and Hygroscopicity in Dried Food Systems: A Review***P-03. Ebru BozkurtAbdik-Türkiye***Ultrasound-Assisted Extraction and It's Effects on Nutrient Retention and Food Shelf Stability***P-04. Zeynep Asiltürk- Türkiye***Production of Protein-Rich Product Fractions From Oily Seeds and Nuts By Supercritical CO₂ Extraction: A Sustainable Approach For Multi- Component Valorization***P-05. Dilek Kelgökmen Güleç -Türkiye***Development of A High-Anthocyanin Aronia Extract and Its Comparative Evaluation with Elderberry Extract***P-06. Gülfem Güneydere-Türkiye***Evaluation of Malt Extracts as An Alternative to Caramel***P-07. Müjde Elif Bozkurt- Türkiye***Recovery of Post-Processing Food Waste As Dietary Fiber and Their Conversion Into Value-Added Products***P-08. Samira Hamza Reguig-Algeria***Use of Catalytic Nanomaterials for The Synthesis of Nitrogen-Containing Heterocycles Via 1,3-Dipolar Cycloaddition***P-09. Onur Kayabaşı-Türkiye***Screening of High-Temperature Stress Responses in Arabidopsis Thaliana Col-0 Mutants Produced By Spaceflight-Induced Mutagenesis***P-10. Olena Kovalenko- Ukraine***Optical Properties of K₂CuCl₃ Thin Films***P-11. Assel Kiribayeva-Kazakhstan***Enzymatic Valorization of Cereal Straw into Xylooligosaccharides Using Recombinant Xylanase From Bacillus Sonorensis***P-12. Hamza Reguig Sherazad- Algeria***Comparative Effects of Substituting Two Fats One Natural and One Industrial on Lipid Peroxidation in Rats Made Obese by A High-Fat Diet***P-13. Yan O. Singo -Indonesia***Computational Characterization of The Interactions of Isoguvacine***P-14. Alhama Salem -India***Using Color Measurement Method in Determining Glucose Levels.***P-15. Omar LAROUK-France***Evaluation The Information Services of Professional Social Networks in last ten years.***P-16. Omar M. ELZAID-Libya***Investigation of the effect of local atomic polarization on magnetic fields in the healthcare sector.***P-17. Karimova Z. TASHEVNA-Uzbekistan***The Investigation of The Teaching of Physical Education***P-18. Patrick S. CLAIR-USA***Classification of antagonistic effects of the mitochondrial matrix.***P-19. Celil Ikram-Bulgaria***Synthesis and Characterization of Copper-Doped Ceramic Pigments***P-20. Nkiru E Ekechukwu-Nigeria***A novel method for sperm quantification in the African malaria mosquito Anopheles gambiae s.l.2***P-21. Mahrumi Saloni India***Ammonia Adsorption Capacities of Natural Materials***P-22. Afamefuna Moon-Nigeria***A method using artificial intelligence to examine the ordering models of symmetrical structures.***P-23. Nacip Kumar India**

Synthesis of a Novel Cationic Salt-Containing Surfactant Polymer Complex Using Artificial Intelligence

P-24. Leo. S. Sian-China

The Effect of Magnetic Field Application Process on the Structure of Niobium Oxide Films

P-25. Manuela Uberi-Italy

A Study Titled "Understanding and Investigating the Origin of Cosmic Rays"

P-26. Laura Botez-Romania

The Impact of Shifts in the Earth's Axis on Climate

P-27. Wang Xinyi-China

Increasing Energy Efficiency in Agriculture with Artificial Intelligence and Self-Generating Energy Systems



ORAL PRESENTATIONS**Session 1****4 Sep 2026****Chairing****Prof. Dr. Nihal Kuş- Türkiye****09:30-09:45****O-1. Tuğçe Pekoğan- Türkiye***From Monitoring to Decision-Making: Rethinking Indoor Air Quality Assessment in School Buildings***09:45-10:00****O-2. Vural Avcı-Türkiye***A Scenario-Based Simulation Approach in Mum-T Training. The Apex-Ramef Case Study***10:00-10:15****O-3. Svitlana SOTNIK -Ukraine***Predictive Maintenance of Production Equipment Using Artificial Intelligence Methods***10:15-10:30****O-4. Shevin Feroz-Malaysia***Improved Albumin Binding Properties of Isoguvacine Upon Esterification***10:30-10:45****O-5. Sei Leo-China***Expression of Some Quantities in Physics with Bi-quaternion Algebra***Session 2****4 Sep 2026****Chairing****Prof. Dr. Arif Kıvrak- Türkiye****11:00-11:15****O-6. Hakan Dal- Türkiye***Virtual Physics Course Lab Applications (Vpclapps): Design and Implementation of Innovative Digital Learning Environments in Physics Education***11:15-11:30****O-7. Vusala Muradova-Azerbaijan***A Dialogue-Based Decision-Making System for Solving Planning Problems Under Uncertainty***11:30-11:45****O-8. Valeri Maryan-Bulgaria***Analysis of Quadrupole Moment of Atomic Nucleus with Octonions***11:45-12:00****O-9. Chris Benzerouk-Algeria***Characterization of AlGaSb Nanocrystalline Produced by Mechanical***12:00-12:15****O-10. Hamza Ettadılı- Türkiye***Microbial Nanobiotechnology for Green Synthesis of Silver Nanoparticles: Screening, Characterization, and Assessment of Antifungal Activity***BREAK TIME**

Session 3**4 Sep 2026****Chairing****Prof. Dr. Hilal Demir Kıvrak- Türkiye****14:00-14:15****O-11. Utku Kaya -Türkiye***A Semi-Supervised Learning Approach for Segmentation of Railway Tracks and Structural Health Monitoring***14:15-14:30****O-12. Ahmet Onay- Türkiye***Determining The Financial Behavior Profiles of Construction Inspection Students Using Decision Trees and Cluster Analysis***14:30-14:45****O-13. Louisa XAVIER -France***Energetic and Mechanistic Insights into Chemical Reactions of the disulfide bondindimethyl disulfide: A Theoretical Approach***14:45-15:00****O-14. Zeynep Batmaz- Türkiye***Microbial Nanobiotechnology for Green Synthesis of Silver Nanoparticles: Screening, Characterization, and Assessment of Antifungal Activity***15:00-15:15****O-15. Abdullah Ensarit-Morocco***MOS And WSE Monolayers as Anode Materials Electric Field Effect***Session 4****4 Sep 2026****Chairing****Dr. Utku Kaya- Türkiye****15:30-15:45****O-16. Oleksandr Miahkyi -Ukraine***Increasing The Efficiency of The Thermographic Techniques For Early Diagnostics of The Transformer Condition***15:45-16:00****O-17. Nihal Kuş- Türkiye***Photoisomerization and Conformational Analysis of Matrix-Isolated Phthalic Acid***16:00-16:15****O-18. Joji Tammisetty-India***Decentralized Identity Verification Using Block Chain***16:15-16:30****O-19. Muhammet Arucu-Türkiye***Machine Learning Prediction of Band Gaps In Abx3 Perovskites Using Open Materials Databases and Composition-Based Features***16:30-16:45****O-20. Arif Kıvrak-Türkiye***Sustainable and Green Organic Catalyst Technologies For Next-Generation Fuel Cells***Session 5****4 Sep 2026****Chairing****Dr. Ahmet Onay-Türkiye****17:00-17:15****O-21. Nihal Kuş- Türkiye***Theoretical Investigation of The Structural, Electronic, and Vibrational Properties of 8-Chlorotheophylline Using Dft and Td-Dft Methods***17:15-17:30****O-22. Muhammet Arucu-Türkiye***Transfer Matrix Analysis Of One-Dimensional Photonic Crystals: Design Of Bragg Reflectors And Defect-Mode Optical Filters***17:30-17:45****O-23. Fadime Mert Balcı-Türkiye***Nanoporous Metal Oxide Thin Films Via Soft Templating***17:45-18:00****O-24. Ayşe Hatun Poyraz-Türkiye***Eco-Friendly Synthesis and Characterization of Silver-Coated Silicon Dioxide Nanocomposites Using Hypericum Perforatum L.***18:00-18:15****O-25. Muhammad Zeeshan Asad-UK***Promoter or Poison? The Effect of ZnO Stability on Catalytic Activity in Amine- Assisted CO₂ Hydrogenation to Methanol*

Session 6**5 Sep 2026****Chairing****Prof. Dr. Hakan Dal-Türkiye****09:30-09:45****O-26. Sude Nur Herduran -Türkiye***Determination of the regulatory role of Catharanthus roseus L. on glucose metabolism and adipocyte functions in 3T3-L1 adipocyte cells***09:45-10:00****O-27. Izfa Riza Hazmi-Türkiye***Community Structure and Temporal Dynamics of Vespidae Wasps (Hymenoptera: Vespidae) In A Malaysian Secondary Forest***10:00-10:15****O-28. Roman Orel-Ukraine***Application of Thermography to Monitor Pipelines Located in The Soil***10:15-10:30****O-29. Ali Yener Büyükköroğlu- Türkiye***Physics Class Virtual Laboratory Applications***10:30-10:45****O-30. Abror Kurbanov- Uzbekistan***The Impact of Dams on Climate Change***Session 7****5 Sep 2026****Chairing****Dr. Nur Uluhan-Türkiye****11:00-11:15****O-31. Timur Tongur -Türkiye***Simultaneous Determination of Eleven Multi-Class Pesticide Residues in Cherries By Lc–Ms/Ms: Method Validation and Real Sample Analysis***11:15-11:30****O-32. Pınar Uçan-Türkiye***A Comparative Evaluation of Individual and Hybrid Feature Engineering Techniques for Machine Learning-Based Heart Disease Prediction***11:30-11:45****O-33. Necdet Uçan-Türkiye***A Comparative Analysis of Machine Learning Algorithms and Feature Engineering Techniques for Anxiety Level Classification: An Application on The Gamingstudy Dataset***11:45-12:00****O-34. Yunus Doğan- Türkiye***Cloning, Recombinant Expression, and Purification of Human Pad4 in Escherichia Coli BL21(De3)***12:00-12:15****O-35. Mehmet. Karakoç- Türkiye***Living Intelligence (Li) Is Living On Intelligent Systems (Iss): Can Li Really Be Something Alive With Them?***BREAK TIME****Session 8****5 Sep 2026****Chairing****Prof. Dr. Hakan Dal-Türkiye****14:00-14:15****O-36. Amarja Bhosale -India***Preparation of Silica Coated Aluminium Nanoparticles for Colorimetric Determination of Glucose***14:15-14:30****O-37. Murad Omarov- Ukraine***Application of The Fuzzy Sets Theory in The Management of Technological Processes for The Production of Automation Technical Means***14:30-14:45****O-38. Maryna Yevdokymenko- Ukraine***Cybersecurity Education For Industry 5.0: A Human-Centric***14:45-15:00****O-39. Baghdad Abdulhameed Abdullah AL-BADANI-Yemen***The Dirac Equation As Geometric Necessity: A Clifford-Algebra Reformulation*

15:00-15:15

O-40. Nigâr Tuğbagül Altan Gülgün-Türkiye

Benchmarking AI Models For Symbolic Turkish Makam Music Generation on A Symbolic Turkish Makam Music Dataset

