

**INTERNATIONAL TURKIC WORLD CONGRESS  
on SCIENCE and ENGINEERING**

**Date: 14-15<sup>th</sup> November 2020 (Time – Kazakhstan)**

**Venue: L.N. Gumilyov Eurasian National University, Nur-Sultan.**

**Honorary Chairs: Prof. Dr. Yerlan Sydykov – Rector of ENU**

**Prof. Dr. Muhsin Kar – Rector of NOHU**

**Co-Chairs: Prof. Dr. Gulnara Merzadinova – Vice Rector of Science and Innovations (ENU)**

**Prof. Dr. Murat Barut – Director of Research and Application Center on Culture and Education of Kazakhstan, NOHU, Turkey(NOHU)**

**PROGRAMME  
14th November 2020**

<b>11.30 – 12.00</b> <b>(KZ time)</b>	<i>Registration</i> <a href="https://cutt.ly/ZgO3udn">https://cutt.ly/ZgO3udn</a>
<b>12.00 – 12.30</b>	<p><b>Plenary session</b> Moderator: <b>Talgat M. Inerbaev</b>, Invited Professor at Physical&amp;Technical Department, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>Welcome speeches: <i>Prof. Dr. Yerlan Sydykov – Rector of ENU</i> <i>Prof. Dr. Muhsin Kar – Rector of NOHU</i> <i>Representative of Embassy of Turkey in Kazakhstan</i> <i>President of TURKSOI</i> <i>H.E. Abzal Saparbekuly, Ambassador of Kazakhstan in Ankara (Turkey)"</i></p>
<b>12.30 – 15.30</b>	<p><b>12.30 – 13.00 Mohsen Sheikholeslami</b> «<b>Solar collectors and nanofluid applications</b>», Department of Mechanical Engineering, Babol Noshirvani University of Technology, Iran <b>Chairman:</b> Talgat M. Inerbaev</p> <p><b>13.00 – 13.30 Hafiz Muhammad Ali</b> «<b>Augmentation of Condensation Heat Transfer on Enhanced Tubes</b>», Mechanical Engineering Department, King Fahd University of Petroleum and Minerals, Saudi Arabia <b>Chairman:</b> Talgat M. Inerbaev</p> <p><b>13.30 – 14.00 Khurram Bashir</b> «<b>Novel aspects of drought stress tolerance in plants</b>», Plant Genomics Network Research Team, Center for Sustainable Resource</p>

	<p>Science, Japan  <b>Chairman:</b> Allahbakhsh JOIYA (Turkey)</p>
	<p><b>14.00 – 14.30 Talgat M. Inerbaev</b>  <b>«Magnetostriction in Fe<sub>1-x</sub>GaxM (M=Ni,Pr)»</b>, Invited Professor  at Physical&amp;Technical Department, L.N. Gumilyov Eurasian National  University, Kazakhstan</p>
	<p><b>14.30 – 15.00 Dubek Kazyken</b>  <b>«AMPK directly activates mTORC2 in response to energetic  stress and promotes cell survival»</b>, Department of Cell and  Developmental Biology, University of Michigan Medical School,  USA</p>
	<p><b>15.00 – 15.30 David Gareth Jenkins</b>  <b>«Radiation detectors for industrial and medical applications»</b>,  Department of Physics, University of York, UK  <b>Chairman:</b> Sefa ERTÜRK</p>

### 15th November 2020

<b>12.00 – 18.00</b>	<p><b>SECTION 1 - INFORMATION AND TELECOMMUNICATION  TECHNOLOGIES, MATHEMATICS: Industry 4.0, Internet of Things,  Artificial Intelligence, Machine Learning, Mathematics</b>  <a href="https://cutt.ly/YgO8v9s">https://cutt.ly/YgO8v9s</a>  Chairman: Professor Shakhmaran Seilov (ENU)  Chairman: Assistant Proffessor Dr. Mehmet Kürşat YALÇIN  (NOHU)</p> <p>Moderator ENU: Ainur Zhumadillayeva</p>
	<p><b>SECTION 2 - NATURAL AND APPLIED SCIENCES:</b>  <b>Subsection 2.1 Biotechnology</b>  <a href="https://cutt.ly/TgO8SwJ">https://cutt.ly/TgO8SwJ</a>  Chairman: Professor Rustem Omarov (ENU)  Chairman: Associate Proffessor Dr. Ufuk DEMİREL(NOBU)</p> <p>Moderator ENU: Salamat Kassenova</p>
	<p><b>Subsection 2.2 Biology</b>  <a href="https://cutt.ly/0gFoIqH">https://cutt.ly/0gFoIqH</a>  Chairman: Associate Professor Asemgul Bekturova (ENU)  Chairman: Assistant Proffessor Dr. Esin CANLI (NOBU)</p> <p>Moderator ENU: Zukhra Stamgaliyeva</p>
	<p><b>Subsection 2.3 Ecology</b>  <a href="https://cutt.ly/CgFo7OW">https://cutt.ly/CgFo7OW</a>  Chairman: Professor Raikhan Beisenova (ENU)  Chairman: Proffessor Dr. Neslihan DOĞAN SAĞLAMTİMUR  (NOBU)</p>

	<p>Moderator ENU: Gulnur Saspugaeva</p>
	<p><b>Subsection 2.4 Chemistry</b>  <a href="https://cutt.ly/JgFpdbd">https://cutt.ly/JgFpdbd</a>  Chairman: Associate Professor Eldar Kopishev (ENU)  Chairman: Professor Dr. Ersen TURAÇ (NOHU)  Moderator ENU: Togzhan Mashan</p>
	<p><b>SECTION 3 - PHYSICAL AND TECHNICAL SCIENCES:</b>  <b>Subsection 3.1 Nano Technology&amp;Applications</b>  <a href="https://cutt.ly/cgPq6CP">https://cutt.ly/cgPq6CP</a>  Chairman: Professor Talgat M. Inerbaev (ENU)  Chairman: Associate Prof. Dr. Recep ZAN (NOHU)</p> <p>Moderator ENU: Aidarova Dinara</p>
	<p><b>Subsection 3.2 Physics&amp;Nuclear Technology</b>  <a href="https://cutt.ly/cgFi3lf">https://cutt.ly/cgFi3lf</a>  Chairman: Associate Prof. Kassym Zhumadilov (ENU)  Chairman: Associate Prof. Dr. Zafer NERGİZ (NOHU)</p> <p>Moderator ENU: Balakhayeva Rakhima</p>
	<p><b>SECTION 4 - BUILDING TECHNOLOGIES: Modern Architectural Designs, Intelligent Cities/Buildings</b>  <a href="https://cutt.ly/FgO4Eou">https://cutt.ly/FgO4Eou</a>  Chairman: Associate Prof. Otarbayev Chal (ENU)  Chairman: Assistant Prof. Dr. Hakan KARACA (NOHU)</p> <p>Moderator ENU: Aliya Altynbekova</p>
	<p><b>SECTION 5 - TRANSPORTATION AND ENERGY: Hybrid/Electrical Vehicles, Renewable Energy Systems</b>  <a href="https://cutt.ly/TgO4J2O">https://cutt.ly/TgO4J2O</a>  Chairman: Professor Dr. Bayan Sazambayeva (ENU)  Chairman: Professor Dr. Saffet AYASUN (NOHU)</p> <p>Moderator ENU: Zhumagulov Mikhail</p>

## SECTION 1

### INFORMATION AND TELECOMMUNICATION TECHNOLOGIES, MATHEMATICS:

Industry 4.0, Internet of Things, Artificial Intelligence, Machine Learning, Mathematics

**Time: 12.00 -16.40**

Chairman: **Professor Shakhmaran Seilov (ENU)**

Chairman: **Assistant Professor Dr. Mehmet Kürşat YALÇIN (NOHU)**

Moderator ENU: **Ainur Zhumadillayeva**

№	Time	Authors	Paper ID	/Paper Title	Country
1.	12.00 -12.15 minutes	Вадим Гойхман		Современные проблемы исследования инфокоммуникационного трафика	Russia
2.	12.15-12.30 minutes	Boris Simak		Actual problems of personnel training for the digital economy: key tasks and factors of success"	Czech Republic
3.	12.30-12.45 minutes	Kamila Tanyrbergenova, Tolkyn Mirgalikyzy	ID 8	Solution of the robot-manipulator workspace approximation problem by the method of interval analysis and its implementation with the python tool	Kazakhstan
4.	12.45-13.00 minutes	Waheed Shahzad, Muhammad Anwar Farooq, Majid Rashid	ID 889	Essay Writing and its Problems: A Study of Engineering Students at Undergraduate Level	Pakistan
5.	13.00-13.15 minutes	Muhammad Abubakar Khalid, Aysha Sameen, Farwa Tariq, Muhammad Tuseef, Hamza Jan	ID 897	Descriptive analysis: the most comprehensive and useful sensory evaluation tool	Pakistan
6.	13.15-13.30 minutes	Yerik Mardenov, Tamara Zhukabayeva, Mohamed Othman	ID 936	Overview of attacks on wireless sensor networks and experimental results	Kazakhstan, Malaysia
7.	13.30-13.45 minutes	Saule Sagnayeva, Aigerim Eyrimbetova, Gulbakhyt Sembina, Fedor Murzin, Tatyana Batura, Elena Gudyreva	ID 954	Determination of text relevance to search request with taking into account the grammar of links	Kazakhstan, Russia, Ukraine
8.	13.45-14.00 minutes	Abdullah Elen, Cemil Közkurt	ID 955	Sezgisel Algoritmalarla Robot Kavrayıcı Mekanizmasının Optimal Tasarımı	Turkey
9.	14.00-14.15 minutes	İsmail Saraç	ID 907	Tek tesirli civatalı bağlantılarda delik toleransı değişiminin bağlantı dayanımına etkisinin sayısal olarak incelenmesi	Turkey

**Break Time 10 min**

10.	14.25-14.40 minutes	<b>Cemil Közkurt,</b> Abdullah Elen	ID 957	Planet Dişli Zinciri Tasarım Probleminin Sezgisel Optimizasyon Yöntemleriyle Çözümü	Turkey
11.	14.40-14.55 minutes	Saule Sagnayeva, Gulbakhyt Sembina, Aynur Zhumadilaeva, Elena Gudyrfeva, Ulmeken Smailova	ID 958	System of information support of workers of social services of the Republic of Kazakhstan	Kazakhstan, Ukraine
12.	14.55-15.10 minutes	Assel Nurusheva, <b>Aruzhan Aigisin,</b> Yerzhan Ibrayev	ID 1022	Research of the information and communication infrastructure cyberprotection of the enterprise for the period of remote work (quarantine period)	Kazakhstan
13.	15.10-15.25 minutes	<b>SURYE İNAN, ELA</b> <b>AYŞE KÖKSAL</b> Damezhan Sadykova	ID 1008	GRADE 2ND SCIENCE TEACHING STUDENTS 'AWARENESS ABOUT STEM	Turkey/ Kazakhstan
14.	15.25-15.40 minutes	Assel Nurusheva <b>Nurmukhammed</b> <b>Sagadat</b>	ID 1012	Information security assessment criteria	Kazakhstan
15.	15.40-15.55 minutes	Meirmanova Akbota, Orazbayeva Gulnur, Serikbayev Nurzhan	ID 947	Importance of the integrable discrete nonlinear schrödinger equation	Republic of Kazakhstan
16.	15.55-16.10 minutes	Yüzbaşı Şuayip, Yıldırım Gamze	ID 951	An operational matrix method based on Chebyshev polynomials for approximate solutions of systems of higher-order linear Fredholm integro- differential equations	Turkey
17.	16.10-16.25 minutes	Gamze Yıldırım	ID 1027	Pell-Lucas collocation method and residual error estimation for the Lane– Emden differential equations	Turkey
18.	16.25-16.40 minutes	<b>Cihan BAYINDIRLI,</b> Mehmet CELİK	ID 5	The Investigation of 3-D Flow Structure and Aerodynamic Drags Around Of A Automobile Vehicle Model	Turkey

## SECTION 2

**NATURAL AND APPLIED SCIENCES:** Life Sciences, Earth Sciences, Biology and Biotechnology, Chemistry and Environmental Technologies, Agricultural Sciences & Technologies, Food Sciences & Technologies

### Subsection 2.1 Biotechnology

Chairman: **Professor Rustem Omarov (ENU)**

Chairman: **Associate Professor Dr. Ufuk DEMİREL(NOHU)**

Moderator ENU: **Salamat Kassenova**

**Time: 12.00 -18.55**

№	Time	Authors	Paper ID number	Paper Title	Country
1.	12.00 - 12.15 minutes	İsmet Yildirim Mustafa Sakaldaş	ID 2	The Efficacy of nature-friendly chemicals eugenol and sodium bicarbonate against post-harvest Botrytis cinerea in two pepper cultivars	Turkey
2.	12.15- 12.30 minutes	Abdullah Karasu Mehmet Öz	ID 9	Bursa ekolojik koşullarında bakteri aşılmasının (rhizobium leguminosorum biovar viceae) bazı bezelye çeşitlerinde nodül oluşumuna, verim ve verim komponentlerine etkisi	Turkey
3.	12.30- 12.45 minutes	Zharkyn Ibatayev Aina Bakytbekova	ID 10	Possibilities of using herbal supplements in the food industry	Kazakhstan
4.	12.45- 13.00 minutes	Nezahat Olcay Mustafa Kürşat	ID 878	Composition, Nutritional and Medicinal Importance of Mühliye (Corchorus olitorius)	Turkey
5.	13.00- 13.15 minutes	Zahra Atghia	ID 887	The effect of Electro Magnetic Fields (emfs) on seed germination and seedlings Physiological changes of Coriandrum sativum L. To achieve the optimum frequency of Electro Magnetic Field	Iran
6.	13.15- 13.30 minutes	Usman Mir Khan Aysha Sameen	ID 892	Study on Probiotic survival in Cheddar cheese	Kazakhstan
7.	13.30- 13.45 minutes	Hamza Jan Aysha Sameen	ID 893	Effect of branch chain amino acid enrichment on quality attributes of cheese spread	Kazakhstan

8.	13.45-14.00 minutes	Margalida Monserrat-Mesquida Maria Magdalena Quetglas-Llabrés Antoni Sureda	ID 894	Hyperbaric oxygen therapy improves diabetic wounds by reducing oxidative stress and inflammation	Spain
9.	14.00-14.15 minutes	Farwa Tariq Aysha Sameen	ID 898	Physical activity, nutrition and neurodegenerative diseases	Kazakhstan
10.	14.15-14.30 minutes	Tayyaba Tariq Aysha Sameen	ID 899	The association between diet and pathogenesis of colorectal cancer	Kazakhstan
11.	14.30-14.45 minutes	Hasan Yetim, İsmail Hakkı Tekiner	ID 901	Alternatif Protein Kaynakları Arayışı ve Yapay Et Kavramına Eleştirel Bir Bakış	Turkey
12.	14.45-15.00 minutes	Mehmet Ali Karaca Özgülgök	ID 905	3D printed porous polycaprolactone macrocapsule for protein therapy	Turkey
13.	15.00-15.15 minutes	Noureddine Djebli	ID 911	The Neurotherapy Effect of Bioglucumin on Alzheimer's disease: "In vivo study"	Algeria
<b>Break Time 10 minutes</b>					
14.	15.25-15.40 minutes	Şeyma Aydemir Fatın Cedden	ID 922	Farklı somatik hücrelerle kültüre tabi tutularak in vitro koşullarda üretilen sığır embriyolarının dondurulması	Turkey
15.	15.40-15.55 minutes	Shehwar Zahra	ID 929	Green synthesis of Potassium nanoparticles using plant extracts of field grown and tissue cultured <i>Hordeum vulgare</i> L.	Pakistan
16.	15.55-16.10 minutes	Anara Babayeva Bekir Çöl	ID 938	DNA Mikrodizinin Analizi ve <i>Escherichia coli</i> ile yapılan bazı çalışmalar	Turkey
17.	16.10-16.25 minutes	Bengü Türkyılmaz Ünal Hüseyin Türker	ID 942	The Effects of Exogenous Salicylic Acid in Ahmetağa Wheat Variety in Reducing Symptoms Due to Drought	Turkey
18.	16.25-16.40 minutes	Bengu Turkyilmaz Unal Huseyin Turker	ID 950	Some Effects of Drought and Salicylic Acid on Altınbaşak Wheat Variety	Turkey
19.	16.40-16.55 minutes	Mustafa Can	ID 952	Some Agronomic Studies on Industrial Hemp ( <i>Cannabis sativa</i> L.) Grown for Fiber Production	Turkey

20.	16.55- 17.10 minutes	Arda Acemi	ID 959	Influence of culture medium on in vitro development of Lolium perenne L.	Turkey
21.	17.10- 17.25 minutes	Dilara Nur Kaplan Zeliha Selamoğlu	ID 961	The Importance of Dietary Plant Phenolic Compounds in Nutrition and Health	Turkey
22.	17.25- 17.40 minutes	Rosa M. Orriols Júlia Seco	ID 964	Hospitals 4.0 Sustainability and Tech	Spain
23.	17.40- 17.55 minutes	Murat Nurushev, Lidia Stoyanova, Abakanov Eldos	ID 986	Biological features and possibilities of a new probiotic culture of lactic acid bacteria	Kazakhstan/ Russia
24.	17.55- 18.10 minutes	Sadia Zafar	ID 1025	Title: Effect of elevated CO2 on plants	Pakistan
25.	18.10- 18.25 minutes	Ştefan-Adrian STRUNGARU	ID 1026	Transfer of method from zebrafish model to native common carp for measuring toxicological effects of the harmful pollutants by the use of 2D and 3D behavioral applications	Romania
26.	18.25- 18.40 minutes	Şeyma AYDEMİR	ID 1028	İn vitro embriyo üretiminde embriyoların belirlenmesi	Turkey
27.	18.40- 18.55 minutes	Cansu FERHANOĞL U TEKER	ID 1036	Farklı Işık Uygulamalarının Patates Çeşitlerinin in vitro Koşullardaki Büyümesi ile Mini Yumru Üretim Performansı Üzerine Etkileri	Turkey

### Subsection 2.2 Biology

Chairman: Associate Professor Asemgul Bekturova (ENU)

Chairman: Assistant Professor Dr. Esin CANLI (NOHU)

Moderator: Zukhra Stangaliyeva

**Time: 12.00 -15.30**

№	Time	Authors	Paper ID number	Paper Title	Country
1.	12.00 - 12.15 minutes	Lale Efe Pelşin Yekta Sarsilmaz	ID 3	Evaluation of Agronomic and Quality Traits of Some Peanut (Arachis hypogea L.) Varieties as Second Crop in East Mediterranean Ecology	Turkey
2.	12.15- 12.30 minutes	Raşit Urhan Mehmet Karaca	ID 875	Systematic studies on mites of the family Zerconidae (Acari: Mesostigmata) in Coastal Aegean Section (Turkey)-II	Turkey
3.	12.30- 12.45 minutes	Davut Rıza Bulut Raşit	ID 876	Systematic investigations on zerconid mites (Acari: Zerconidae) in Buharkent, Karacasu and Kuyucak	Turkey



		<b>Urhan</b>		Counties (Aydın-Turkey)	
4.	12.45-13.00 minutes	Büşra Sarı Abdullah Nuri Özsoy	ID 879	Bombus terrestris Arısına Ait Bazı Morfolojik Özelliklerin Kalıtım Derecelerinin Tahmin Edilmesi	Turkey
5.	13.00-13.15 minutes	Usman Mir Khan Zeliha Selamoglu	ID 891	A survey on Quality Aspects of Market Available Ice Creams	Turkey
6.	13.15-13.30 minutes	Durmuş Ok Osman Seyyar Hakan Demir	ID 902	Micaria ve Nomisia (Araneae: Gnaphosidae) Cinsi Yer Örümceklerinin Seta Morfolojilerinin Karşılaştırılması	Turkey
<b>Break Time 10 minutes</b>					
7.	13.40-13.55 minutes	<b>Halil Bakal</b>	ID 908	Comparison of important agricultural characteristics of different market type peanuts (arachis hypogaea l.)	Turkey
8.	13.55-14.10 minutes				
9.	14.10-14.15 minutes	<b>Ahmet Uygur</b> Tülay Ezer	ID 923	Abanoz Yaylası (Anamur, Mersin, Türkiye)'nin Briyofitleri	Turkey
10.	14.15-14.30 minutes	Nevzat Batan Mevlüt Alataş TÜLAY EZER HÜSEYİN ERATA	ID 924	Altındere vadisi'nin (maçka, trabzon, türkiye) epifitik briyofit florası	Turkey
11.	14.30-14.45 minutes	<b>Ali Keskin</b> Seher Karaman Erkul	ID 931	Karınca Dağı'nın (Pozantı - Adana) Endemik Bitkileri ve IUCN Tehlike Kategorileri	Turkey
12.	14.45-15.00 minutes	Gazi Görür Hayal Akyıldırım Beğen Özhan Şenol Gizem Başer	ID 940	Studies Conducted on Turkey Aphid Fauna and Implications for Turkic World Countries	Turkey
13.	15.00-15.15 minutes	<b>Hatice Öztürkel</b> Merve Sezer Kürkçü	ID 953	Fenolik Bileşiklerden Benzoik asit, Ferulik asit ve Kuersetinin Canlı Organizmalar Üzerindeki Biyolojik Aktiviteleri	Turkey
14.	15.15-15.30 minutes	Murat Nurshiev Laura Adelbayeva	ID 988	The evolution of the horses of Eurasia: from Botai to the present day	Kazakhstan

### Subsection 2.3 Ecology

Chairman: **Professor Raikhan Beisenova (ENU)**

Chairman: **Professor Dr. Neslihan DOĞAN SAĞLAMTİMUR (NOHU)**

Moderator: **Gulnur Saspugaeva**

**Time: 12.00 -16.40**

№	Time	Authors	Paper ID number	Paper Title	Country
1.	12.00 - 12.15 minutes	Nezahat Olcay Mustafa Kürşat Demir	ID 877	A novel food: duckweed (lemnaceae)	Turkey
2.	12.15- 12.30 minutes	Beata Figiela Barbara Kozub	ID 921	A study on water absorption in geopolymer composites	Poland
3.	12.30- 12.45 minutes	Celina Ziejewska Michał Łach	ID 944	Influence of fibers addition on the mechanical properties of geopolymer composites	Poland
4.	12.45- 13.00 minutes	Joanna Marczyk Kinga Korniejenko	ID 945	Development of innovative 3d printing technologies for concrete and geopolymer composites	Poland
5.	13.00- 13.15 minutes	Inabat Imanbayeva Bauyrzhan Kapsalyamov	ID 981	Diagnosis and forecast of air pollution in the city of nur-sultan	Kazakhstan
6.	13.15- 13.30 minutes	Yerkebulan Nurbayev	ID 984	Technologies and methods of wastewater reuse	Kazakhstan
7.	13.30- 13.45 minutes	Laura Temirkhan	ID 1003	Biological wastewater treatment for environmental use	Kazakhstan
8.	13.45- 14.00 minutes	Aizhan Zhumali	ID 1010	Investigation of the impact of mercury pollution on the soil cover of the city of pavlodar	Kazakhstan
9.	14.00- 14.15 minutes	Gulmira Adilbektegi Aisana Karabayeva	ID 1011	Determination of ash content of spruce needles as an indication of air pollution environment (for example, zheruyyk park»)	Kazakhstan
10.	14.15- 14.30 minutes	Eldos Abakanov Baurzhan Kapsalyamov	ID 1013	Assessment and forecasting of waste volumes generated by mining, metallurgical and energy industries and the possibility of its processing	Kazakhstan
<b>Break Time 10 minutes</b>					
11.	14.40- 14.55 minutes	Aliya Kydyrbekova Kulyash Meiramkulova	ID 1016	Development of cost-effective and climate-friendly drinking water treatment technology using nano-filters and energy saving ultraviolet lamps	Kazakhstan
12.	14.55- 15.10 minutes	Azhar Bauyrzhanova	ID 1018	The dynamics of air pollution of the city temirtau	Kazakhstan
13.	15.10- 15.25	Tuganay Bekkozha	ID 1020	Use of algae for water purification	Kazakhstan

14.	15.25-15.40	Gulnur Saspugayeva	ID 1024	Advantages of wastewater treatment	Kazakhstan
15.	15.40-15.55	Neslihan Doğan-Sağlamtimur Gülden Sandal Erzurumlu Osman Mücevher Sinan Alkan Mustafa Kaan Doğan Cemalettin Ünal Gamze Yıldırım	ID 1038	Tekstil Endüstrisi Pamuk Atıklarının Komposta Dönüştürülerek Mantar Üretiminde Değerlendirilmesi	Turkey
16.	15.55-16.10	Fehiman Çiner Neslihan Doğan-Sağlamtimur	ID 1039	Waste Management Suggestions for Covid-19 Pandemic Conditions	Turkey
17.	16.10-16.25	Gulnur Saspugayeva	ID 1005	Территориальное перераспределение водных ресурсов реки Иртыш как метод повышения водообеспечения Центральных и Северных регионов Казахстана	Kazakhstan
18.	16.25-16.40				

#### Subsection 2.4 Chemistry

Chairman: Associate Prof. Eldar Kopishev (ENU)

Chairman: Professor Dr. Ersen TURAÇ (NOHU)

Moderator: Togzhan Mashan

Time: 12.00 -14.55

№	Time	Authors	Paper ID number	Paper Title	Country
1.	12.00 - 12.15 minutes	Tülin Aydemir Pelin Kutlu	ID 6	Immobilization of laccase on graphene oxide/chitosan composites	Turkey
2.	12.15-12.30 minutes	Ebrahim Alinia-Ahandani Milad Sheydaei	ID 885	Assessment of some heavy metals pollution in roadsides with various traffic volumes in lahijan city-iran northern	Iran
3.	12.30-12.45 minutes	Muhammad Hamza Bilal Dr Fakhar Alam	ID 886	Synthesis and characterization of polypyrrole coated graphene oxide nano particles (nps) for bio-sensing applications	Pakistan
4.	12.45-13.00 minutes	Cumali Celik	ID 895	Alev geciktirici özellikli selülozik materyaller	Turkey
5.	13.00-13.15	Izabela Kurek Michał Łach	ID 949	Effect of portland cement addition on the setting time of geopolymer concrete	Poland

Break					
6.	13.25-13.40	Minavar Shaimardan Sapargaly Konuspayev	ID 998	Development of new carbon supports for rhodium in the creation of benzene hydrogenation catalysts	Kazakhstan
7.	13.40-13.55	Muhammad Babar Taj	ID 1029	Biogenic copper oxide-based photocatalytic purification of dye-polluted water under sunlight	Pakistan
8.	13.55-14.10	Yavuz Sürme Eda Varol	ID 912	Sulu ortamdaki cd <sup>2+</sup> ve co <sup>2+</sup> ağır metal iyonlarının castanae sativa (kestane) kabuğu ile önderiştirilmesi ve tayini	Turkey
9.	14.10-14.25	Esra Kilavuz Ersen Turaç	ID 913	Bodipy merkezli iki yeni iletken polimer nanokompozit sentezi ve kuantum verimlerinin hesaplanması	Turkey
10.	14.25-14.40	Demet Özkir	ID 914	A study of new eco-friendly corrosion inhibitor for mild steel	Turkey

**SECTION 3**  
**PHYSICAL AND TECHNICAL SCIENCES:**  
Nano Technology&Applications, Physics&Nuclear Technology

**Subsection 3.1 Nano Technology&Applications**  
Chairman: **Professor Talgat M. Inerbaev (ENU)**  
Chairman: **Associate Professor Dr. Recep ZAN (NOHU)**  
Moderator: **Aidarova Dinara**

**Time: 12.00 -18.10**

№	Time	Authors	Paper ID number	Paper Title	Country
1.	12.00 - 12.15 minutes	Muhsin Gökhan Günay	ID 888	Vibration Analysis of Curved Graphene Nano Ribbons Using A Spring-Mass Based Finite Element Model	Turkey
2.	12.15-12.30 minutes	Inerbaev Talgat	ID 904	Magnetostriction in Fe <sub>1-x</sub> Ga <sub>x</sub> M (M=Ni,Pr)	Kazakhstan
3.	12.30-12.45 minutes	Asset Kaynarbay, Bagila Yussupbekova, Aizhan Akhmetova	ID 926	Cadmium chalcogenide's colloidal quantum dots down –converters for m-Silicon solar cells	Kazakhstan
4.	12.45-13.00 minutes	Asset Kaynarbay, Bagila Yussupbekova, Aizhan Akhmetova	ID 927	Cadmium chalcogenide's colloidal quantum dots: Synthesis, properties, and application in Photovoltaic	Kazakhstan
5.	13.00-13.15 minutes	Bagila Yussupbekova, Keleshek	ID 928	Synthesis of thermoluminescent dosimetry materials	Kazakhstan

		Zhanylysov, Temirulan Alibay			
6.	13.15- 13.30 minutes	Songül Özüm, Ömer Görgülür, Rıza Erdem, Orhan Yalçın	ID 930	Hysteretic properties of magnetization and quadrupolar moment in the Blume-Emery-Griffiths model under the pair approximation	Turkey
7.	13.30- 13.45 minutes	Ramazan Kavlak, Songül Özüm, Rıza Erdem, Orhan Yalçın	ID 932	Nanosized monolayer on the square lattice within Spin-1 Ising model: Hysteretic properties with odd interactions	Turkey
8.	13.45- 14.00 minutes	Aizhan Akhmetova, Asset Kainarbay, Turlybek Nurakhmetov	ID 956	Optimized synthesis of CdTe nanosheets	Kazakhstan
9.	14.00- 14.15 minutes	Surye Inan, Ela Ayşe Köksal, Damezhan Sadykova	ID 962	Grade 2nd science teaching students 'awareness about stem	Turkey /Kazakhstan
10.	14.15- 14.30 minutes	Alua Alina, Artem Kozlovskiy, Alex Trukhanov	ID 970	Degradation processes initiated by helium irradiation in WO <sub>3</sub> microparticles	Kazakhstan/ Belarus
11.	14.30- 14.45 minutes	Ainur Zikirina, Artem Kozlovskiy, Kayrat Kadyrzhanov, AlexanderPetrov	ID 971	Changes in the structural properties of CoZnOx nanowires as a result of irradiation with heavy ions	Kazakhstan/ Belarus
12.	14.45- 15.00 minutes	Alia Omarova, Kayrat Kadyrzhanov, Artem Kozlovskiy, Egor Kaniukov	ID 975	Synthesis of nanostructured CdSe thin films	Kazakhstan/ Belarus
13.	15.00- 15.15 minutes				
14.	15.15- 15.30 minutes	Islam Tleubay, Artem Kozlovskiy	ID 978	Investigation of the effect of Mg doping on the properties of Zr ceramics	Kazakhstan
15.	15.30- 15.45 minutes	Kamila Egizbek, Artem Kozlovskiy	ID 979	Study of structural features of Fe <sub>2</sub> O <sub>3</sub> nanoparticles doped with Gd	Kazakhstan
16.	15.45- 16.00 minutes	Meir Yerdauletov	ID 983	On the use of carbon nanotubes in prototyping the high energy density Li-ion batteries	Kazakhstan
<b>Break 10 minutes</b>					
17.	16.10- 16.25	Recep Zan, Ali Altuntepe,	ID 991	The Investigation of Graphene Based Hybrid Structure for Solar	Turkey

	minutes	Serkan Erkan, Mehmet Ali Olğar, Ayşe Seyhan		Cell	
18.	16.25- 16.40 minutes	Malik Kaliekerov, Artem Kozlovskiy	ID 1000	Study of the radiation resistance of thin-film coatings based on CuX (X=Bi, Mg, Ni)	Kazakhstan
19.	16.55- 17.10 minutes	Altynay Zhumabekova, Nurgulim Aimanova	ID 7	«Ядро-қабыршақ» үлгісіндегі Au/Ni нанотүтікшелерінің синтезі және биологиялық белсенділігі»	Kazakhstan
20.	17.10- 17.25 minutes	Алишер Мутали, Айнаш Жумажанова, Анель Ибраева, Владимир Скуратов, Максим Здоровец	ID 1001	Исследование повреждений в поликристаллическом Si <sub>3</sub> N <sub>4</sub> методом рамановской спектроскопии при облучении тяжелыми ионами с энергиями осколков деления	Kazakhstan/ Russia
21.	17.25- 17.40 minutes	Меруерт Маматова, Айбек Сейтбаев, Алма Даулетбекова	ID 1023	Импульсная фотолюминесценция F <sub>2</sub> (2+) -центров окраски в Al <sub>2</sub> O <sub>3</sub> , облученном быстрыми тяжелыми ионами	Kazakhstan
22.	17.40- 17.55 minutes	Маржан Турарова, Павел Казначеев, Толкы н Миргаликызы, Игорь Модин	ID 12	3D МОДЕЛИРОВАНИЕ ЭЛЕКТРИЧЕСКОЙ ТОМОГРАФИИ НА ПОВЕРХНОСТИ НЕОДНОРОДНОЙ СРЕДЫ СО СЛОЖНЫМ РЕЛЬЕФОМ С ПРИМЕНЕНИЕМ ПРОГРАММЫ COMSOL MULTIPHYSICS	Kazakhstan/ Russia
23.	17.55- 18.10 minutes	Saeed Ullah Jan	ID 1033	Scavenging of Toxic Environmental Gases by Pristine and Fe-Doped Mgo(200) Nanosheet: Insights from First Principles Study	Pakistan

**Subsection 3.2 Physics&Nuclear Technology**  
 Chairman: **Associate Prof. Kassym Zhumadilov (ENU)**  
 Chairman: **Associate Professor Dr. Zafer NERGİZ (NOHU)**  
 Moderator: **Balakhayeva Rakhima**

**Time: 12.00 -16.00**

№	Time	Authors	Paper ID number	Paper Title	Country
1.	12.00 - 12.15 minutes	Almas Yskakov, Maxim Bulavin, Ivan Vasil'evskii, Kassym Zhumadilov	ID 963	The study of radiation defects in heterostructured semiconductors after irradiation at the irradiation facility of the IBR2 research reactor	Kazakhstan/ Russia
2.	12.15- 12.30 minutes	Danara Ibrayeva, Moldir Aumalikova, Meirat Bakhin, Elena Shishkina, Kassym Zhumadilov	ID 976	Radon levels on the territory mining activities in Stepnogorsk area, Kazakhstan	Kazakhstan/ Russia
3.	12.30- 12.45 minutes	Aidos Azhibekov, Kairat Kuterbekov, Asset Kabyshev, Aisulu Mukhambetzhan	ID 982	DWBA calculations of proton transfer in the nuclear reaction $^{14}\text{N} + ^{12}\text{C}$	Kazakhstan
4.	12.45- 13.00 minutes	Daniyar Berikov, Yuri Kopatch, Kassym Zhumadilov, Gadir Ahmadov, Vadim Novitsky, Alexei Gaarski	ID 985	T-odd effects in the binary fission of uranium induced by polarized neutrons	Kazakhstan/ Russia
5.	13.00- 13.15 minutes	Assel Bagramova, Kassym Zhumadilov, Masaharu Hoshi	ID 987	Radon safety problems in Akmola region	Kazakhstan/ Japan
6.	13.15- 13.30 minutes	Raikhan Bakenova, Evgeniia Sukhikh, Kassym Zhumadilov	ID 992	Main characteristics of detectors for dosimetry of small photon fields of medical accelerators	Kazakhstan/ Russia
7.	13.30- 13.45 minutes				
8.	13.45- 14.00 minutes	Dana Yerimbetova, Valeriy Stepanenko, Kassym Zhumadilov	ID 999	TESTING OF THE LR-115 TYPE 2 SOLID-STATE ALPHA TRACK DETECTOR FOR SUITABILITY FOR RADON RESEARCH	Kazakhstan/ Russia

9.	14.00-14.15 minutes				
10.	14.15-14.30 minutes	Ayazhan Zhomartova	ID 1006	Using of prompt-gamma neutron activation analysis to determine the elemental composition of archaeological ceramics: first results	Kazakhstan
11.	14.30-14.45 minutes	Aidana Zhumalina, Aya Sakaguchi, Kassym Zhumadilov	ID 1009	Research of radionuclide composition in the atmosphere in Akmola region	Kazakhstan, Japan
12.	14.45-15.00 minutes	Danara Ibrayeva, Kuralay Ilbekova, Elena Shishkina, Kassym Zhumadilov	ID 1015	Monitoring of the radiation-epidemiological state and morbidity of the workers of the uranium enterprise	Kazakhstan
13.	15.00-15.15 minutes	Bauyrzhan Abyshev, Alexander Ivannikov, Kassym Zhumadilov	ID 1021	Estimation of doses of internal alpha-irradiation of tooth enamel by EPR spectroscopy	Kazakhstan
14.	15.15-15.30 minutes				
15.	15.30-15.45 minutes	Айдана Асыллова, Юрий Гледенев, ЭНХБОЛД Сансарбаяр, Игорь Чупраков	ID 1004	Измерение реакции ${}^6\text{Li}(n,t){}^4\text{He}$ и ${}^{10}\text{B}$	Kazakhstan/Russia
16.	15.45-16.00 minutes	Samal Sarsenova, Valeriy Stepanenko, Kassym Zhumadilov	ID 1019	Laboratory preparation of quartz-containing samples selected and exhibited in the territory of the akmola region	Kazakhstan/Russia
17.	16.15-16.30	Sefa ERTÜRK, M. Nizamettin ERDURAN, Ferhat ÖZOK, Taylan YETKİN, Aslı YETKİN, Emre İREN, Oktay DOĞANGÜN and NEDA Collaboration ration	ID 1040	The Preliminary results of NEDA Phototubes : Measurements performed in İstanbul	Turkey



**SECTION 4**  
**BUILDING TECHNOLOGIES:**  
 Modern Architectural Designs, Intelligent Cities/Buildings

Chairman: **Associate Prof. Otarbayev Chal (ENU)**  
 Chairman: **Assistant Prof. Dr. Hakan KARACA (NOHU)**  
 Moderator: **Aliya Altynbekova**

№	Time	Authors	Paper ID number	Paper Title	Country
1.	12.00 - 12.15 minutes	Ertunç Ela	ID 920	Land Gradation with Fuzzy Logic Method in Land Consolidation Projects	Турция
2.	12.15- 12.30 minutes	HasegawaAkira, Hashizume Yutaka	ID 946	Development of local geotechnical information database in Hachinohe and Use for earthquake and liquefaction countermeasures	Япония
3.	12.30- 12.45 minutes	Karaca Hakan Oral Suveyde Merve, Erbil Merve	ID 4	2018 DepremYönetmeliği Zemin SınıflarınınYapısalEtkileri	Турция
4.	12.45- 13.00 minutes	İsmail Saraç	ID 881	Tek tesirli yapıştırma bağlantılarında bindirme uç geometrisi değişiminin dayanıma etkisinin gerilme ve hasar analizleriyle sayısal olarak araştırılması	Турция
5.	13.00- 13.15 minutes				
6.	13.15- 13.30 minutes	Timur Zhussupov, Shyngys Zharassov, Yelbek Uteпов	ID 882	On the issue of renovation in Nur-Sultan city	Kazakhstan
7.	13.30- 13.45 minutes	Shyngys Zharassov, Timur Zhussupov, Yelbek Uteпов	ID 883	Effects of Different Factors on Concrete Strength gain	Kazakhstan
8.	13.45- 14.00 minutes	Timoth Mkilima	ID 903	Potential dam site characterization using geographical information system	Kazakhstan
9.	14.00- 14.15 minutes	Zhanerke Otegenova	ID 918	Application of energy efficient technologies in the construction industry in Kazakhstan.	Kazakhstan
10.	14.15- 14.30 minutes	Султан Искаков, Sultan Iskakov Абдулла Омаров, Аскар Жусупбеков,	ID 965	Статические испытания свай в соответствии с требованиями ГОСТ	Kazakhstan

		Абзал Елеусіз			
11.	14.30-14.45 minutes				
12.	14.45-15.00 minutes	Аруова Л.Б. Lyazat Aruova	ID 884	Energy-saving technologies for the production of building materials using solar energy in the Republic of Kazakhstan	Kazakhstan
13.	15.00-15.15 minutes	Самуратова Т.К., Баймуханов С.К.	ID 896	Қазіргі заманғы архитектуралық жобаларда энергия тиімділігі технологияларын қолдану	Kazakhstan
14.	15.15-15.30 minutes	Baydabekov A.K., Begimbay K.M., Berdiugina D.	ID 997	Modern architectural design with a focus on inclusive features	Kazakhstan
15.	15.30-15.45 minutes	Sadykova Zh.M., Yeziyeva M.N.	ID 967	Electronic textbook with animazing cheratists on the program turbo site	Kazakhstan
<b>Break Time 10 minutes</b>					
16.	15.55-16.10 minutes				
17.	16.10-16.25 minutes				
18.	16.25-16.40 minutes				
19.	16.40-16.55 minutes				
20.	16.55-17.10 minutes				
21.	17.10-17.25 minutes	ChekayevaRakhima, ArgyngazinaKamilla	ID 900	Integration of modern public spaces into the urban materia of the city of Nursultan	Kazakhstan
22.	17.25-17.40 minutes				
23.	17.40-17.55 minutes	Chekayeva Rakhima, Igbayeva Malika	ID 909	The impact of technological progress on architecture	Kazakhstan
24.	17.55-18.10 minutes	Semenyuk O.N., SadykovaS.Sh., Kuc.S.,Moldaliy	ID 919	Forming “Smart Cityspaces” on the example of Kazakhstan cities	Kazakhstan,

		eva G.			
25.	18.10-18.25 minutes	ChekayevaRakhima, Abdrakhmanova Dina	ID 925	Façade solutions trends in Nur-Sultan	Kazakhstan
26.	18.25-18.40 minutes	GulshatKakenova	ID 960	Реконструкция и развитие общественных пространств города Нур-Султан""	Kazakhstan
27.	18.40-18.55 minutes	Абзал Елеусіз Омаров Абдулла	ID 948	Модульдік темірбетон қадаларын сынап және сараптау	Kazakhstan
28.	18.55-19.10 minutes				
29.	19.10-19.25 minutes				
30.	19.25-19.40 minutes	Zamira Akhmetova	ID 1014	Geoecological assessment of urban areas	Kazakhstan
31.	19.40-19.55 minutes	Rossemary ENCISO, Kevin HUAMANÍ, Mauricio GONZALES, Rafael AGUILAR	ID 1037	Mechanical characterization of compressed earthen blocks stabilized with cement, pozzolane , and lime	Peru

**SECTION 5**  
**TRANSPORTATION AND ENERGY:**  
Hybrid/Electrical Vehicles, Renewable Energy Systems

Chairman: **Professor Dr. Bayan Sazambayeva (ENU)**

Chairman: **Professor Dr. Saffet AYASUN (NOHU)**

Moderator: **Zhumagulov Mikhail**

**Time: 12.00 -14.55**

№	Time	Authors		Paper Title	Country
1.	12.00 - 12.15 minutes	MURAT BARUT	ID 1	A novel EKF based algorithm with the estimation of rotor angular velocity and stator resistance for the position-sensorless control of AC PMSMs	Turkey
2.	12.15- 12.30 minutes	Mehmet ÇELİK, Cihan Bayındırlı	ID 11	Energy Management Systems, Electric Motor and Battery Technologies in Electric and Hybrid Vehicles	Turkey
3.	12.30- 12.45 minutes	Рыскалиев М.Ж., Жарылгапов С.М., Бегеев Р.Н.	ID 915	Проект энергосберегающего многофункционального комплекса	Казахстан
4.	12.45- 13.00 minutes	Tuba Tanyıldızı Ağır	ID 933	Wind Power Prediction Using Extreme Learning Machine	Turkey
5.	13.00- 13.15 minutes	Tuba Tanyıldızı Ağır	ID 934	Daily Power Prediction of Solar Panel with Extreme Learning Machine	Turkey
<b>Break Time 10 minutes</b>					
6.	13.25- 13.40	Ridvan Demir, Emrah Zerdali	ID 939	Improved Speed-Sensorless Field-Oriented Controlled Induction Motor Drive with Feed-Forward Control of Load Torque	Turkey
7.	13.40- 13.55	Ausnain NAVEED, Deniz KATIPOĞL U, Şahin SÖNMEZ, Saffet AYASUN	ID 943	Delay-Dependent Stability Analysis of a Single-Area Load Frequency Control System Enhanced by Electric Vehicles Aggregator and Demand Response Control	Turkey
8.	13.55- 14.10	Sevinç Günsel, Yorgo Istefanopulos , Erkin	ID 935	Optimal Control of a Quadrotor	Turkey

		Dinçmen			
9.	14.10-14.25	Najib ALTAWELL	ID 1030	Projects and Financing Issues for Rural Electrification in the Developing Countries	Altawell United Kingdom
10.	14.25-14.40	Najib ALTAWELL	ID 1031	Technical and Engineering Issues for Power Stations During Co-Firing of Biomass with Coal	Altawell United Kingdom
11.	14.40-14.55	Ramazan ŞENER	ID 874	Dizel-Benzin-Etanol karışımı sıkıştırma ateşlemeli altı silindirli turbo şarjlı bir motorda supap zamanlaması optimizasyonu	Turkey