



MONGOLIAN UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
SCHOOL OF APPLIED SCIENCES



ICASE 2025

INTERNATIONAL  
CONFERENCE ON  
APPLIED SCIENCES AND  
ENGINEERING 2025  
(ICASE 2025)

# CONFERENCE AGENDA

Ulaanbaatar  
Mongolia

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## COMMITTEES

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<b>Ulziibayar V.</b>	Mongolian University of Science and Technology, Mongolia
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### *Secretary:*

<b>Ariunaa U.</b>	School of Applied Sciences, Mongolian University of Science and Technology (MUST), Mongolia
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<b>Battsetseg G.</b>	Department of Mathematics, MUST, Mongolia
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<b>Tsedenbayar D.</b>	Department of Mathematics, MUST, Mongolia
<b>Dorjgotov A.</b>	Department of Chemical Engineering, MUST, Mongolia
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<b>Khatanbold E.</b>	Department of Natural Sciences and Engineering, Railway Institute of Mongolia
<b>Munkhsaikhan G.</b>	Department of Physics, MUST, Mongolia
<b>Otgonbayar D.</b>	Department of Physics, MUST, Mongolia
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<b>Purevsuren B.</b>	Mongolian Academy of Sciences, Mongolia
<b>Rike Yudianti,</b>	National Research and Innovation Agency, Indonesia
<b>Sheela Rani B.</b>	Sathyabama Institute of Science and Technology, India
<b>Tseren-Onolt I.</b>	Mongolian University of Science and Technology, Mongolia
<b>Yanhui Yang</b>	Nanjing Tech University, China

## PROGRAM OVERVIEW

June 09<sup>th</sup>, 2025

TIME	WHAT	WHERE	
08:00-09:00	REGISTRATION	3rd floor, Conference Hall.	Juulchin Ballroom Galleria UB center 
09:00-09:30	Opening ceremony		
09:30-10:00	Prof. Altangerel Lkhamsuren		
10:00-10:20	Group Photo		
10:20-11:00	Coffee Break		
11:00-11:30	Plenary session: Prof. Luca Ottaviano Prof. Altansukh Batnasan Prof. Durvudkhan Suragan		
11:30-12:00			
12:00-12:30			
12:30-14:00	LUNCH		
14:00-15:40	Parallel Oral Presentations: Mathematics & Computational Science Chemical Technology & Engineering Physics & Environmental Science Engineering	8-906 8-801 8-805 Conference hall	Building block 8, MUST 
	15:40-16:10	Coffee Break	
16:10-18:00	Parallel Oral Presentations: Mathematics & Computational Science Chemical Technology & Engineering Physics & Environmental Science Engineering	8-906 8-801 8-805 Conference hall	

June 10<sup>th</sup>, 2025

<b>09:00-09:30</b> <b>09:30-10:00</b>	<b>Plenary Session:</b> Prof. Uranchimeg Tudevdagva Prof. Jing Pei Cao	12 <sup>th</sup> floor Conference Hall	Building block 8, MUST	
<b>10:00-10:30</b>	Coffee Break			
<b>10:30-11:00</b> <b>11:00-11:30</b>	<b>Plenary session:</b> Prof. Jargalan Narmandakh Prof. Ralf Wunderlich			
<b>11:30-13:00</b>	LUNCH			
<b>13:00-14:40</b>	<b>Parallel Oral Presentations:</b> Mathematics & Computational Science Chemical Technology & Engineering Physics & Environmental Science Engineering	8-906 8-801 8-805 Conference hall	Building block 8, MUST	
	<b>14:40-15:40</b>	<b>Coffee break and Poster session</b>		12 <sup>th</sup> floor
	<b>15:40-17:00</b>	<b>Parallel Oral Presentations:</b> Mathematics & Computational Science Chemical Technology & Engineering Physics & Environmental Science Engineering		8-906 8-801 8-805 Conference hall
		BANQUET*		
<b>18:00</b>			Juulchin Ballroom Galleria, Ulaanbaatar	

FIRST DAY OF THE CONFERENCE

Monday, June 09<sup>th</sup>

PLENARY SESSION:

Time	Session chair	Room
09:30-12:30	Prof. Ochirbat Baatar	Conference hall Juulchin ballroom

Time	Presentations
09:30-10:00 PL4001	<b>ON GAP FUNCTIONS FOR EQUILIBRIUM PROBLEMS</b> <u>LKHAMSUREN ALTANGEREL</u> German-Mongolian Institute for Resources and Technology, Ulaanbaatar, MONGOLIA

10:00-11:00 COFFEE BREAK

11:00-11:30 PL4002	<b>A SURVEY ON THE PHYSICS OF TWO DIMENSIONAL (2D) MATERIALS</b> <u>LUCA OTTAVIANO</u> Department of Physical and Chemical Sciences (DSFC), University of L'Aquila, ITALY
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11:30-12:00 PL4003	<b>RECENT ADVANCES AND FUTURE PERSPECTIVES IN THE RECOVERY OF RARE EARTH ELEMENTS FROM NATURAL RESOURCES IN MONGOLIA</b> <u>ALTANSUKH BATNASAN</u> Department of Inorganic Chemistry and Technology, Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences, Ulaanbaatar, MONGOLIA
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12:00-12:30 PL4004	<b>GEOMETRIC LOWER BOUNDS FOR LAPLACIAN EIGENVALUES</b> <u>DURVUDKHAN SURAGAN</u> Department of Mathematics, Nazarbayev University, Astana, KAZAKHSTAN
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12:30-14:00 LUNCH  
3<sup>rd</sup> floor of Galleria Ulaanbaatar

PARALLEL ORAL PRESENTATIONS

Section MC: Mathematics & Computational Science

Time	Session chair	Room
14:00-15:40	Prof. Sarantuya Tsedendamba	8-906
16:10-18:00	Prof. Naoyasu Kita	

Time	Presentations
14:00-14:20 MC4101	<b>GENERALIZED SAMARSKII-IONKIN PROBLEM FOR PARTIAL DIFFERENTIAL EQUATIONS</b> <u>ALEKSANDR KOZHANOV</u> Sobolev Institute of Mathematics of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia

<b>14:20-14:40</b> MC4102	<b>SPECTRAL VOLTERRA EQUATION</b> <u>DASHDONDOG TSEDENBAYAR</u> Department of Mathematics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>14:40-15:00</b> MC4103	<b>ISSUES OF DEVELOPMENT OF ARTIFICIAL INTELLIGENCE SYSTEMS IN PROBLEMS OF GROUP PURSUIT AND PROTECTION</b> <u>ALEXANDER DUBANOV</u> Banzarov Buryat State University, Ulan-Ude, Russia
<b>15:00-15:20</b> MC4104	<b>MEAGRE-EXPANSIVE FLOW</b> <u>GANSUKH TUMUR</u> , Nyamdavaa Ts. Department of Mathematics, School of Mathematics and Natural Sciences, Mongolian National University of Education, Ulaanbaatar, Mongolia
<b>15:20-15:40</b> MC4105	<b>MODELING OF GAS DETONATION IN EXPLOSION CHAMBERS</b> Purbo L. Abiduev, <u>TUMEN G.DARMAEV</u> , Smolina, Buryat State University, Russia
<b>15:40-16:10</b>	<b>Coffee break</b>
<b>16:10-16:30</b> MC4106	<b>EXTENSIONS OF SOME ITERATIVE METHODS TO THE MULTIDIMENSIONAL CASE</b> Zhanlav T., Otgondorj Kh., <u>ENKHBAYAR KHANGAI</u> Department of Mathematics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>16:30-16:50</b> MC4107	<b>THE MIXED BOUNDARY-VALUE PROBLEM FOR THE NONLINEAR HYPERBOLIC-PARABOLIC EQUATION OF A THERMAL CONDUCTIVITY FOR THE BOUNDED PLATES</b> <u>VLADISLAV KHANKHASAEV N.</u> , Safron Bairov A. Department of Mathematics named after Ts.B. Shoynzhiurov, East Siberian State University of Technology and Management, Ulan-Ude, Russia
<b>16:50-17:10</b> MC4108	<b>SYSTEM DYNAMICS APPROACH FOR REDUCING AIR POLLUTION IN ULAANBAATAR CITY</b> Batbold L., Ochirbat B., <u>BATNASAN DASHDORJ</u> , Elbegjargal A. Department of Mathematics, School of Applied Sciences, Mongolian University Science and Technology, Ulaanbaatar, Mongolia
<b>17:10-17:30</b> MC4109	<b>METHOD OF IMPROVING CONTROLS IN NONLINEAR BY A CONTROL SYSTEMS WITH CONSTRAINTS BASED ON THE FIXED POINT PROBLEM</b> <u>DMITRY TRUNIN</u> Buryat State University, Ulan-Ude, Russia
<b>17:30-17:50</b> MC4110	<b>NUMERICAL STUDY OF THE BUCKLING OF A POLYMER COMPOSITE MATERIAL</b> <u>ALDAR BALDANOV</u> , Elena Bochektuyeva, Vadim Titov, Maksim Shatov, Roman Ivanov Department of Information Technologies and Applied Mechanics, Faculty of Civil Engineering, East Siberia State University of Technology and Management, Ulan Ude, Russia
<b>17:50-18:00</b>	<b>DISCUSSION</b>

**Section CE: Chemical Technology & Engineering**

Time	Session Chairs	Room
14:00-15:40	Dr. Ilchgerel Dash	8-801
16:10-18:00	Prof. Hee-Joon Kim	

Time	Presentations
14:00-14:20 CE4201	<b>CHARACTERISTIC EVALUATION METHOD OF BROWN-COAL TAR USING THE PRINCIPAL COMPONENT ANALYSIS</b> <u>HEE-JOON KIM.</u> , Yoko Nunom., Bayartsaikhan Ts., Zoltuya Kh., Naoki Kano Department of Environmental Chemistry and Chemical Engineering, School of Advanced, Engineering, Kogakuin University, Japan
14:20-14:40 CE4202	<b>PRODUCTION OF HYDROXYAPATITE ADSORBENT FROM SEWAGE SLUDGE ASH</b> <u>ZOLTUYA KHASHBAATAR.</u> , Bat-Erdene E., Enkhtuul M., Naoki Kano., Hee Joon Kim Department of Chemical Engineering, School of Applied Sciences, Mongolian University Of Science And Technology, Ulaanbaatar, Mongolia
14:40-15:00 CE4203	<b>THE STUDY TO DETERMINE THE POSSIBILITY OF <i>ACIDITHIOBACILLUS FERROOXIDANS(OR512156.1)</i> LEACHING OF LOW-GRADE COPPER ORE</b> <u>BUJINKHAM TUVD.</u> , Badamgarav Ch., Garamjav M., Ariunzaya Ts., Chinzorig R., Erdenechimeg D. Department of Chemical and Biological Engineering, School of Engineering and Technology, National University of Mongolia, Ulaanbaatar, Mongolia
15:00-15:20 CE4204	<b>HYDROTHERMAL FLOWTHROUGH PRETREATMENT OF BIOMASS AND PYROLYSIS CHARACTERISTICS OF RESIDUAL SOLID</b> <u>TIANLONG LIU</u> Jiangsu Province Engineering Research Center of Fine Utilization of Carbon Resources, China University of Mining & Technology, Xuzhou, Jiangsu, China
15:20-15:40 CE4205	<b>A STUDY ON THE ATTENUATION OF ACIDIC SOLUTION FROM THE ZOOVCH-OVOO URANIUM ORE PROCESSING PLANT</b> <u>KHULAN BYAMBASUREN.</u> , Ulziibadrakh E., Alen S., Altansukh B., Burmaa G., Nyamdelger Sh. Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia
15:40-16:10	<b>Coffee break</b>
16:10-16:30 CE4206	<b>SIMULTANEOUS REMOVAL OF PB(II), CU(II), CD(II) AND ZN(II) FROM AQUEOUS SOLUTION USING MODIFIED <i>URTICA DIOICA</i> LEAVES</b> <u>NAOKI KANO.</u> , Enkhtuul M., Munkhpurev B., Naoto Miyamoto, Ganchimeg Yu., Hee-Joon Kim. Department of Chemistry and Chemical Engineering, Faculty of Engineering, Niigata University, Japan



<b>16:30-16:50</b> CE4207	<b>STUDYING THE EFFECT OF K ADDITION ON THE SYNTHESIS OF C<sub>2+</sub> HYDROCARBONS BY HYDROGENATION OF CARBON DIOXIDE</b> <u>ERMUUN GAN-ERDENE</u> , Manlaibaatar P., Tsogbadrakh N., Enkhsaruul B. Department of Chemistry, School of Arts and Sciences, National University of Mongolia, Ulaanbaatar, Mongolia
<b>16:50-17:10</b> CE4208	<b>RESEARCH ON USING SYNTHETIC POLYMERS AS FUEL</b> <u>BATTSETSEG TSOQ</u> , Bat-Erdene E., Zoltuya Kh. Department of Chemical Engineering, School of Applied Sciences, Mongolian University Of Science And Technology, Ulaanbaatar, Mongolia
<b>17:10-17:30</b> CE4209	<b>MODELLING AND OPTIMIZATION HYDROGEN PRODUCTION THROUGH STEAM METHANE REFORMING</b> <u>LKHAGVAJAV PUREVDORJ</u> , Tamiraa G. Geological Center for Research and Analysis, Ulaanbaatar, Mongolia
<b>17:30-17:50</b> CE4210	<b>STUDY OF THE EFFECT OF ELECTRON ACCEPTORS IN CATHOLYTE OF TWO-CHAMBER MICROBIAL FUEL CELL USING CATION EXCHANGE MEMBRANE</b> <u>KHISHIGSHINEN DORLIG</u> , Tugskhuslen T., Chinzorig R., Munkhjargal Sh., Erdenechimeg D. Department of Chemical and Biological Engineering, School of Engineering and Technology, NUM, Ulaanbaatar, Mongolia
<b>17:50-18:00</b>	<b>DISCUSSION</b>

### Section PE: Physics & Environmental Science

Time	Session Chairs	Room
<b>14:00-15:40</b>	Dr. Delgertsetseg Byambasuren	8-805
<b>16:10-18:00</b>	Dr. Tuya Sanjaa	

  

Time	Presentations
<b>14:00-14:20</b> PE4301	<b>AN EQUATION OF STATE FOR A HARD HOMONUCLEAR DIATOMIC FLUID DERIVED FROM THE INTEGRAL EQUATION METHOD</b> <u>BANZRAGCH TSEDNEE</u> , Tsogbayer Ts., Tsookhuu Kh. Centre of Quantum Science and Technology, Institute of Physics and Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia.
<b>14:20-14:40</b> PE4302	<b>THE FORMATION OF A VORTEX IN A BOSE-EINSTEIN CONDENSATE</b> <u>SUKH OCHIR</u> , Aldarmaa Ch., Zorigt G. Department of Physics, School of Applied Sciences, Mongolian University Of Science And Technology, Ulaanbaatar, Mongolia
<b>14:40-15:00</b> PE4303	<b>PHOTOELECTRON MOMENTUM DISTRIBUTION OF HELIUM ATOM</b> <u>ISHDORJ ADYADOLJIN</u> , Aldarmaa Ch., Zorigt G., Khenmedekh L., Altangoo O. Department of Physics, School of Applied Sciences, Mongolian University Of Science And Technology, Ulaanbaatar, Mongolia

<b>15:00-15:20</b> PE4304	<b>DFT STUDY OF <math>\text{BaFe}_{12}\text{O}_{19}</math>-<math>\text{MgFe}_2\text{O}_4</math> NANOCOMPOSITES: THICKNESS-DEPENDENT STRUCTURAL, MAGNETIC, AND CHARGE ANALYSIS</b> <u>SODKHUU DORJ</u> , Jargalan N., Odkhuu D., Sangaa D. Institute of Physics and Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia
<b>15:20-15:40</b> PE4305	<b>STARK RESONANCE PARAMETER FOR ATOMIC HYDROGEN REVISITED</b> <u>TSOGBAYAR TSEDNEE</u> , Banzragch Ts., Tsookhuu Kh. Center of Quantum Science and Technology, Institute of Physics and Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia
<b>15:40-16:10</b>	<b>Coffee break</b>
<b>16:10-16:30</b> PH4306	<b>AIR POLLUTION AND HEALTH OF VULNERABLE GROUPS IN MONGOLIA: A REVIEW OF EXISTING STUDIES</b> <u>ENKHJIN ENKHBOLD</u> , Gantuya G. Faculty of Raw Materials and Environmental Engineering, German-Mongolian Institute for Resources and Technology, Ulaanbaatar, Mongolia
<b>16:30-16:50</b> PH4307	<b>INVESTIGATION OF ENVIRONMENTAL RADIATION DISPERSION DURING URANIUM MINING IN MONGOLIA: IMPACTS AND MITIGATION STRATEGIES</b> <u>CHIMEDTSOGZOL NYAMBUU</u> , Bulgansaikhan B., Amgalan M. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>16:50-17:10</b> PH4308	<b>COMPARATIVE STUDY OF INSULATION MATERIALS FOR COST-EFFECTIVE AND ENERGY-EFFICIENT PRIVATE RESIDENTIAL BUILDINGS</b> Jagarzusum M., <u>URANTSETSEG TSOGTBAYAR</u> , Amgalan M. Department of Civil Engineering, School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>17:10-17:30</b> PH4309	<b>MATHEMATICAL MODELING OF ANTHROPOGENIC LOADS BASED ON SATELLITE DATA</b> <u>NOMINDARI DAMDINSUREN</u> , Tuya S., Bayartugs T. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>17:30-18:00</b>	<b>DISCUSSION</b>

**Section ENG: Engineering**

<b>Time</b>	<b>Session Chairs</b>	<b>Room</b>
<b>14:00-15:40</b>	Dr. Mungunshagai Gansukh	Conference hall
<b>16:10-18:00</b>	Prof. Ayurzana Badarch	12 <sup>th</sup> floor

<b>Time</b>	<b>Presentations</b>
<b>14:00-14:20</b> ENG4401	<b>STRUCTURAL DESIGN AND ANALYSIS OF A TRUSS FRAME FOR LIFTING SUNKEN FUEL TRUCKS, TRACTOR AND VEHICLES FROM LAKE KHUVSGUL</b> <u>ULZIISAIKHAN PUREVSUREN</u> , Naidandorj R., Renchinvanjil Ya., Ayurzana B., Gankhulug Ts., Galbadrakh D. Department of Mechanical Engineering, School of Mechanical Engineering and Transportation, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>14:20-14:40</b> ENG4402	<b>ANCILLARY SERVICES FOR HVDC DISPATCHING CONTROL IN MONGOLIA: DEVELOPMENT OF A STRATEGY</b> <u>ZAGDKHOROL BAYASGALAN</u> , Tsetsgee B. Department of Electrotechnique, School of Power Engineering, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>14:40-15:00</b> ENG4403	<b>EARLY-AGE TEMPERATURE EFFECT ON THE PROPERTIES OF CONCRETE CURED BY ELECTRICAL HEATING IN COLD WEATHER</b> Sodnomtseren P., <u>KHISHGEE RADNAABAZAR</u> , Zorigt T., Batzaya B., Duinkherjav Y. Department of Structural Engineering, School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>15:00-15:20</b> ENG4404	<b>URGENT NEEDS OF FLOOD RESILIENCE IN THE SUBURBAN AREAS OF THE UPPER SELBE RIVER, ULAANBAATAR, MONGOLIA</b> <u>AYURZANA BADARCH</u> , Batzorig G., Tuya S., Nasanbayar N. Department of Engineering Structures, School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>15:20-15:40</b> ENG4405	<b>MORPHOLOGY AND SEDIMENT TRANSFER OF THE SELBE RIVER</b> <u>URANZAYA BAYARAA</u> School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar Mongolia
<b>15:40-16:10</b>	<b>Coffee break</b>
<b>16:10-16:30</b> ENG4406	<b>MODELING THE LOSS OF STABILITY OF A THIN-WALLED MULTILAYER PLATE MADE OF LAYERED MATERIALS UNDER IMPACT</b> <u>LUBOV ALEKSANDROVNA BOKHOEVA</u> , Vitaly Evdokimovich Rogov., Anatoly Ivanov East-Siberian State University of Technology and Management, Ulan-Ude, Russia

<b>16:30-16:50</b> ENG4407	<b>INTEGRATING ENVIRONMENTAL FACTORS AND COMMUNITY NEEDS IN PUBLIC SPACE PLANNING: LESSONS FROM ULAANBAATAR</b> <u>BILIGT ALTANKHUYAG</u> , Bolormaa D., Ariuntuya M., Tergel M., Tuvshin B., Tsovoudavaa G. Department of Architecture, School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>16:50-17:10</b> ENG4408	<b>PUBLIC SPACE AND UNIVERSAL DESIGN FOR STREET IN ULAANBAATAR, MONGOLIA</b> <u>SHINEZAYA ENKHBAT</u> , Benjamin Küsters., Gonchigbat I., Tsovoudavaa G. School of Architecture and Design, Citi University, Ulaanbaatar, Mongolia
<b>17:10-17:30</b> ENG4409	<b>UNDERSTANDING THE KNOWLEDGE AND SUPPORT NEEDS OF CONSTRUCTION PROFESSIONALS IN ADVANCING GREEN BUILDING PRACTICES</b> <u>ARIUNTUYA MYAGMARJAV</u> ., Uelun-Ujin P., Tsovoudavaa G., Bolormaa D. Department of Architecture, School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>17:30-17:50</b> ENG4410	<b>OPTIMIZATION OF SPRAY DRYING CONDITIONS OF WHOLE POWDER SEA BUCKTHORN (HIPPOPHAE RHAMNOIDES L. JUICE POSWER)</b> <u>ODGEREL ULZIIBAT</u> ., Md. Zohurul ISLAM., Yutaka KITAMURA., Mito KOKAWA., BALJINNYAM J., TSOLMONBAATAR D. School of Industrial Technology, Mongolian University Science and Technology, Ulaanbaatar, Mongolia
<b>17:50-18:00</b>	<b>DISCUSSION</b>

**SECOND DAY OF THE CONFERENCE****Tuesday, June 10<sup>th</sup>****PLENARY SESSION:**

Time	Session chair	Room
09:00-10:00	Prof. Hiromitsu Takaba.	Conference hall
10:30-11:30	Prof. Luca Ottaviano	12 <sup>th</sup> floor

Time	Presentations
09:00-09:30 PL4005	<b>THE AI TECHNOLOGIES IN EDUCATION: PROS AND CONS</b> <u>URANCHIMEG TUDEV DAGVA</u> Graduate School, Mongolian University of Science and Technology, Ulaanbaatar, MONGOLIA
09:30-10:00 PL4006	<b>DIRECTIONAL THERMAL CONVERSION OF LIGNITE TO CHEMICAL AND CARBON-BASED MATERIALS</b> <u>JING-PEI CAO</u> Jiangsu Key Laboratory of Coal-based Greenhouse Gas Control and Utilization, China University of Mining & Technology, Xuzhou, Jiangsu, CHINA
10:00-10:30	<b>COFFEE BREAK</b>
10:30-11:00 PL4007	<b>SMFE<sub>12</sub>-BASED COMPOUNDS: BRIDGING THEORY AND EXPERIMENT FOR NEXT-GENERATION MAGNETS</b> <u>JARGALAN NARMANDAKH</u> , E.Uyanga, D.Sangaa, D.Sodkhuu, N.Tsogbadrakh, D.Odkhuu, Kh.Odbadrakh Institute of Physics and Technology, Mongolian Academy of Sciences, Ulaanbaatar, MONGOLIA
11:00-11:30 PL4008	<b>STOCHASTIC OPTIMAL CONTROL OF HEATING SYSTEMS WITH A GEOTHERMAL ENERGY STORAGE</b> <u>RALF WUNDERLICH</u> Institute of Mathematics, Brandenburg University of Technology Cottbus - Senftenberg, GERMANY
12:30-14:00	<b>LUNCH</b> 3 <sup>rd</sup> floor of Galleria Ulaanbaatar

**PARALLEL ORAL PRESENTATIONS****Section MC: Mathematics & Computational Sciences**

Time	Session Chairs	Room
13:00-14:40	Prof. Aleksandr Kozhanov	8-906
15:40-17:50	Prof. Tsedenbayar Dashdondog	

Time	Presentations
13:00-13:20 MC4111	<b>L<sup>2</sup>-DECAY ESTIMATE OF THE SOLUTIONS TO SCHODINGER EQUATIONS WITH ATTRACTIVE-DISSIPATIVE NONLINEARITY</b> <u>KITA NAOYASU</u> , Hayato Miyazaki, Takuya Sato Kumamoto University, Japan

<b>13:20-13:40</b> MC4112	<b>THE STABILITY OF STATE MODEL OF LANE-CHANGE MOTION FOR THE AUTONOMOUS VEHICLE</b> <u>SER-OD BAYARAA</u> Department of Mathematics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>13:40-14:00</b> MC4113	<b>CALCULATION OF AERODYNAMIC CHARACTERISTICS OF AN ARBITRARY PROFILE AT NON-STATIONARY FLOW</b> Purbo L. Abiduev, Zhargal G.Dambaev, <u>TUMEN G.DARMAEV</u> Buryat State University, Ulan-Ude, Russia
<b>14:00-14:20</b> MC4114	<b>MATHEMATICAL ANALYSIS OF ELECTROCARDIOGRAMS FOR CONTROL SIGNAL DEVELOPMENT</b> <u>TUNGALAG MYANGAD</u> Department of Information Technology, School of Information and Communication Technology, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>14:20-14:40</b> MC4115	<b>THE FOURTH BOUNDARY VALUE PROBLEM FOR A HYPERBOLIC-PARABOLIC EQUATION WITH A VARIABLE HEAT CONDUCTIVITY COEFFICIENT AND A NONLINEAR RADIATION SOURCE</b> Khankhasaev Vladislav, <u>MUNYAEV SERGEY</u> Department of Fundamental Mathematics, Buryat State University, Ulan-Ude, Russia
<b>14:40-15:40</b>	<b>Coffee break and Poster session</b>
<b>15:40-16:00</b> MC4116	<b>AN UNSUPERVISED ANOMALY DETECTION IN MULTIVARIATE TIME SERIES: DETECTING SUDDEN STRATOSPHERIC WARMING EVENTS</b> <u>KHULAN MYAGMAR</u> , Bayanjargal D., Tsolmon R., Charles Lin Department of Applied Mathematics, School of Information Technology and Electronics, National University of Mongolia, Ulaanbaatar, Mongolia
<b>16:00-16:20</b> MC4117	<b>FIXED POINT METHODS FOR FINDING DEGENERATE EXTREMAL CONTROLS</b> <u>IVAN KAZMIN</u> , Alexander Buldaev Buryat State University, Ulan-Ude, Russia
<b>16:20-16:40</b> MC4118	<b>DECAY ESTIMATE AND ASYMPTOTIC BEHAVIOR OF THE SOLUTIONS TO DISSIPATIVE NONLINEAR SCHRÖDINGER EQUATIONS WITH TIME-DEPENDENT AMPLIFICATION</b> <u>GERELMAA JADAMBA</u> , Kita Naoyasu Graduate School of Science and Technology, Kumamoto University, Japan
<b>16:40-17:00</b> MC4119	<b>ON ONE APPROACH TO SOLVING THE PROBLEM OF THE EXTREMUM OF THE SYSTEM FINAL STATE NORM</b> <u>VENIAMIN KUROKHTIN</u> , Aleksandr Buldaev Scientific, Educational and Innovative Center for System Research and Automation, Banzarov Buryat State University, Ulan-Ude, Russia
<b>17:00-17:20</b> MC4120	<b>COMPARISON OF FORCE OF MORTALITY MODELS, APPLICATION</b> <u>GERELTUYA TERBISH</u> , Nyamsuren Dorj Department of Mathematics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia

<b>17:20-17:40</b> MC4121	<b>MULTIPLICATIVE MODEL OF THE DYNAMICS OF REGIONAL MACROECONOMIC INDICATORS</b> <u>KONSTANTIN P. DYRKHEEV</u> Buryat State University, Ulan-Ude, Russia
<b>17:40-17:50</b>	<b>DISCUSSION</b>

### Section CE: Chemical Technology & Engineering

Time	Session Chairs	Room
<b>13:00-14:40</b>	Prof. Erdenechimeg Dolgor	8-801
<b>15:40-17:30</b>	Prof. Purevsuren Barnasan	

Time	Presentations
<b>13:00-13:20</b> CE4211	<b>SYNTHESIS OF MAGHEMITE NANOPARTICLES FROM IRON PHOSPHATE USING ALKALINE SOLUTION AND EVALUATION OF ITS BATTERY CHARACTERISTICS</b> <u>HIROKAZU OKAWA</u> , Shun Ikeda, Mitsuki Ota, Takahiro Kato, Enkhtuya T., Tsermaa G. Graduate School of Engineering Science, Akita University, Akita, Japan
<b>13:20-13:40</b> CE4212	<b>THERMAL DISSOLUTION OF COAL FROM THE KHOOT DEPOSIT</b> Batbileg S., Namkhainorov J., Shiirav G., <u>PUREVSUREN BARNASAN</u> Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia
<b>13:40-14:00</b> CE4213	<b>POLYMER SYNTHESIS AND RECYCLING</b> <u>VLADIMÍR SEDLAŘÍK</u> Center of Polymer Systems, Tomas Bata University in Zlin, Czech Republic
<b>14:00-14:20</b> CE4214	<b>CARBON DIOXIDE SEPARATION USING ZEOLITE MEMBRANES INVESTIGATED BY MOLECULAR SIMULATION</b> <u>HIROMITSU TAKABA</u> School of Advanced Engineering, Kogakuin University, Tokyo, Japan
<b>14:20-14:40</b> CE4215	<b>EXPERIMENTAL STUDY OF BIOLEACHING USING BACTERIA CULTURED FROM PLS SOLUTION OF THE COPPER PLANTS</b> <u>GARAMJAV MUNKHBAT</u> , Delgerjargal A., Erdenechimeg D. Chemical laboratory, Achit Ikht LLC, Orkhon, Mongolia
<b>14:40-15:40</b>	<b>Coffee break and Poster session</b>
<b>15:40-16:00</b> CE4216	<b>ADSORPTIVE REMOVAL OF BROMIDE IONS BY AG-MODIFIED CERAMIC MEMBRANE SYNTHESIZED FROM KAOLIN AND DOLOMITE</b> <u>MUNKHPUREV BAT-AMGALAN</u> , Enkhtuul M., Naoki Kano., Naoto Miyamoto., Hee-Joon Kim., Ganchimeg Yu. Department of Chemical Engineering, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>16:00-16:20</b> CE4217	<b>INVESTIGATION INFLUENCE FACTOR OXIDATION OF COPPER CONCENTRATE UNDER ATMOSPHERIC CONDITIONS</b> <u>GERELTUYA GANBAATAR</u> , Gerelsaikhan B., Maralma B., Ochirkhuyag B., Erdenechimeg D. Geological Center for Research and Analysis, Ulaanbaatar, Mongolia

<b>16:20-16:40</b> CE4218	<b>REDUCTION OF WATER HARDNESS BY NATURAL ZEOLITE VIA BATCH PROCESS</b> <u>OYUNDARI DANDARBAATAR</u> , Enkhzul E., Tamiraa G., Ochirkhuyag B., Amgalan B. Department of Chemical and Biological Engineering, School of Engineering and Technology, National University of Mongolia, Ulaanbaatar, Mongolia
<b>16:40-17:00</b> CE4219	<b>COPPER ADSORPTION IN NATURAL AND COMPOSITE ZEOLITE MATERIALS</b> <u>UNUR-ODONTUYA SUNDEV</u> , Undarmaa A., Enkhjin B., Amgalan B., Ochirkhuyag B., Tamiraa G. Geological Center for Research and Analysis, Ulaanbaatar, Mongolia
<b>17:00-17:30</b>	<b>DISCUSSION</b>

## Section PE: Physics & Environmental Science

Time	Session Chairs	Room
<b>13:00-15:00</b>	Dr. Uyanga Enkhnarar	8-805

Time	Presentation
<b>13:00-13:20</b> PE4310	<b>EFFECT OF Nd DOPING ON FeCo COMPOSITE</b> <u>UYANGA ENKHNARAN</u> , Uyanga A., Jargalan N., Odkhuu D., Sangaa D. Institute of Physics and Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia
<b>13:20-13:40</b> PE4311	<b>A CURRICULUM QUALITY ASSURANCE USING PERFORMANCE INDICATORS</b> <u>URANCHIMEG TUNGALAG</u> , Zorigt G., Erdenekhuu N. Mongolian University of Science and Technology, Open Education Institute, Ulaanbaatar, Mongolia
<b>13:40-14:00</b> PE4312	<b>USING PHYSICS EXPERIMENTS TO SUPPORT “MONOZUKURI” SKILLS</b> <u>NERGUI ALTANGEREL</u> , Altangoo O., Gantuya B. Department of Physics, Mongolian National University of Education, Ulaanbaatar, Mongolia
<b>14:00-14:20</b> PH4313	<b>PREPARATION OF CARBON POROUS MATERIAL FROM COAL AS A RAW MATERIAL</b> <u>WURIGUMULA</u> , Erdene-Ochir G., Munkhtsetseg S. Department of Physics, Natural Science Division, School of Arts and Sciences, National University of Mongolia, Ulaanbaatar, Mongolia
<b>14:20-14:40</b> PH4314	<b>LAYER NUMBER IDENTIFICATIONS OF THE MECHANICAL EXFOLIATED TMDS</b> <u>ODONTUYA BAYARSAIKHAN</u> , Erdenetuya O., Batdemberel G., Otgonbayar D., Munkhsaikhan G. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia



<b>14:40-15:00</b> PH4315	<b>LIQUID PHASE EXFOLIATION OF MoS<sub>2</sub> NANOSHEETS IN IPA AND NMP SOLUTIONS</b> <u>ERDENETUYA ORGODOLZANGIAT</u> , Odontuya B., Ganchimeg Yu., Batdemberel G., Otgonbayar D., Munkhsaikhan G. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>15:00-16:00</b>	<b>Coffee break and Poster session</b>

**Section ENG: Engineering**

<b>Time</b>	<b>Session Chairs</b>	<b>Room</b>
<b>13:00-14:40</b>	Prof. Tsovoodavaa Gantumur	Conference hall
<b>15:40-17:30</b>	Prof. Makoto Nanko	12 <sup>th</sup> floor

<b>Time</b>	<b>Presentations</b>
<b>13:00-13:20</b> ENG4411	<b>DIRECT GAS NITRIDING OF ADDITIVELY MANUFACTURED MARAGING STEELS</b> <u>MAKOTO NANKO</u> , Nazuna Ideta., and Yen-Ling Kuo Department of Mechanical Engineering, Nagaoka University of Technology, Nagaoka, Japan
<b>13:20-13:40</b> ENG4412	<b>DEVELOPMENT OF ANTIBACTERIAL GELATIN-BASED HYDROGEL FOR SUSTAINED INFECTION CONTROL IN BIOMEDICAL</b> <u>TUYAJARGAL IIMAA</u> , Hiroyuki Ijima Department for Graduate Education Policy and Management, Mongolian National University of Medical Sciences, Ulaanbaatar, Mongolia
<b>13:40-14:00</b> ENG4413	<b>IMPROVED PERFORMANCE OF ORGANIC PHOTOVOLTAIC CELLS WITH ITO ANODE MODIFIED BY MOLECULAR SELF-ASSEMBLED MONOLAYER</b> <u>DELGERTSETSEG BYAMBASUREN</u> , Sarangerel Kh. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>14:00-14:20</b> ENG4414	<b>EXPERIMENTAL ANALYSIS OF HARMONIC EFFECTS ON POWER TRANSFORMER IN WIND FARM</b> <u>BATTULGA MUNKHBAATAR</u> , Bat-Erdene B., Purevdash D., <u>TUVSHINBAYAR BANDI</u> Department of Electric Technique, School of Power Engineering, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>14:20-14:40</b> ENG4415	<b>INVESTIGATION OF THE EFFECT OF TILT ANGLE ON THE PERFORMANCE OF A SOLAR POWER PLANT</b> <u>SARANGEREL KHAYANKHYARVAA</u> , Munkhtuya E. Department of New Renewable Energy, School of Power Engineering, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
<b>14:40-15:40</b>	<b>Coffee break and Poster session</b>
<b>15:40-16:00</b> ENG4416	<b>STUDY ON INSTALLING A SOLAR POWER PLANT AT A LANDFILL SITE IN MONGOLIA</b> Munkhtuya E, ZAGDKHOROL Bayasgalan. Department of Electrotechnique, School of Power Engineering, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia

16:00-16:20 ENG4417	<b>IMPROVING INDOOR CONFORT AND ENERGY EFFICIENCY THROUGH ARCHITECTURAL PLANNING IN SINGLE FAMILY HOUSE: A CASE STUDY OF ULAANBAATAR'S CLIMATE CONDITIONS</b> <u>BADRAKH BAYAR</u> , Tsovoudavaa G. Department of Architecture, School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
16:20-16:40 ENG4418	<b>THE IMPROVEMENT OF MICROCLIMATE DESIGN IN RESIDATIAL SUB DISTRICT USED BY THE COMPUTATIONAL FUID DYNAMIC</b> <u>LKHAGVAJAV NYAMSUREN</u> , Tsovoudavaa G. Department of Architecture, School of Civil Engineering and Architecture, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
16:40-17:00 ENG4419	<b>A STUDY ON THE PHASE-OUT OF HCFCs AND THE IMPLEMENTATION OF ENERGY-EFFICIENT AIR CONDITIONING SYSTEMS IN BUILDINGS</b> <u>ANGARAG NEMEKH</u> , Urantsetseg Ts. Department of Plumbing Engineering, Institute of Engineering, School of Ulaanbaatar, Mongolia
17:00-17:30	<b>DISCUSSION</b>

## POSTER SESSION:

Time	Room
14:40-15:40	12 <sup>th</sup> floor of building block 8

POS4101	<b>THE EFFECTS OF INTELLECTUAL ABILITY ON SOCIAL DEVELOPMENT, AND ITS EMPIRIC ANALYSIS</b> <u>NARANCHIMEG CHIMEDRAVDAN</u> ., Elbegjargal A., Eldev-Ochir E. Department of Fundamental Sciences, Mongolian University of Finance and Economics, Ulaanbaatar, Mongolia
POS4102	<b>USING AUTOMATED VALUATION MODELS FOR REAL ESTATE VALUATION</b> Enkhsuren Adilbish, Enkhtuya Bavuudorj, Bayartugs Tamjav, Zolzaya Dashdorj, <u>ANKHTUYA DORJGOTOV</u> , Mungunsukh Shirnen Department of Mathematics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4103	<b>GENERATING FUNCTION METHOD FOR CONSTRUCTING NEW ITERATIONS WITH P (P = 5, 6) ORDER OF CONVERGENCE</b> <u>ULZIIBAYAR VANDANDOO</u> , Zhanlav T. Mongolian University of Science and Technology, Mongolia
POS4104	<b>METHODOLOGIES FOR DETERMINING THE IMPACT OF SURFACE SUBSIDENCE AT THE INTERSECTION OF CAVE MINING</b> Baasansuren Sanjaasuren, Munkhgerel Tsegmid, <u>ARIUNGEREL JARGAL</u> Department of Mathematics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4105	<b>NONSTANDARD FINITE DIFFERENCE SCHEME FOR SIRS EPIDEMIC MODEL</b> <u>TUMURKHUYAG BADARCH</u> , Batgerel Balt Institute of Mathematics and Digital Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia.

POS4106	<b>MATHEMATICAL MODELS AND APPLICATIONS IN MINING</b> <u>TSATSRAL GALBAT</u> , Ariunaa Uriintsetseg Department of Mathematics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4201	<b>REMOVAL OF PT (IV) USING WHEAT BASED BIOSORBENT</b> <u>NYAMJARGAL LKHAMTOGMID</u> , Ganchimeg Yu., Burmaa G., Sukhbat S. Department of Chemical Engineering, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia.
POS4202	<b>FACTORS AFFECTING THE INOSINE-5'-MONOPHOSPHATE (5'-IMP) CONTENT IN MUSCLES OF MONGOLIAN SHEEP</b> <u>ERKIGUL BUKYEI</u> , Gerelt B, Buyanchimeg B., Enkhbat T. School of Engineer and Technology, Mongolian University of Life Sciences, Ulaanbaatar, Mongolia
POS4203	<b>MODELING THE IMPACT OF RECIRCULATING WATER ON MOLYBDENUM FLOTATION</b> <u>TSEELEI SUREN</u> , Odontuya G., Uyanga D., Khureldavaa O., Ichinnorov A., Sarangerel D., Oyuntsetseg D. Erdenet Institute of Technology, Branch of Mongolian University of Science and Technology, Orkhon, Mongolia
POS4204	<b>STUDY ON THE ADSORPTION ACTIVITY OF COMPOSITE MATERIALS FOR HEAVY METAL IONS</b> <u>ULZIIDELGER BYAMBASUREN</u> , Enkhtuya M., Munkhpurev B., Ganchimeg Yu., Naoki Kano Department of Chemical Engineering, School of Applied Sciences, Mongolian University Of Science And Technology, Ulaanbaatar, Mongolia
POS4205	<b>STUDY OF RAW MATERIALS FOR THERMAL INSULATION MATERIALS</b> <u>BAYARJARGAL SANDAGDORJ</u> , Dolgorjav R., and Saran G. Department of Chemical Engineering, School of Applied Sciences, Mongolian University Of Science And Technology, Ulaanbaatar, Mongolia
POS4206	<b>MODELING AND SIMULATION OF METHANOL PRODUCTION FROM SYNGAS</b> <u>ILCHGEREL DASH</u> , Ulziidelger B, Jargaldelger B, Nyam-Osor S. Department of Chemical Engineering, School of Applied Sciences, Mongolian University Of Science And Technology, Ulaanbaatar, Mongolia
POS4207	<b>INVESTIGATION ON THE REMOVAL OF ORGANIC POLLUTANTS FROM AQUEOUS SOLUTION</b> Sergelen E., Siqin Zhao, Ilchgerel D., Sukhbat S., <u>GANCHIMEG YUNDEN</u> Department of Chemical Engineering, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4208	<b>HYDROCHEMICAL CHARACTERISTICS AND UTILIZATION OF HOT SPRINGS IN ARKHANGAI PROVINCE</b> <u>ICHINNOROV AMARJARGAL</u> , Odontuya G., Oyuntsetseg D., Bolormaa O. Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia
POS4301	<b>THE CALCULATION OF GROUND STATES OF NOBLE GAS ATOMS USING QUANTUM FLUID DENSITY FUNCTIONAL APPROACH</b> <u>NARANCHIMEG DAVGIKHOROL</u> , Sukh O., Munkhsaikhan G. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia

POS4302	<b>ANALYSIS OF SYSTEM DYNAMICS MODEL FOR POLICY IMPACTS ON SOLID WASTE MANAGEMENT IN ULAANBAATAR CITY</b> <u>ELBEGJARGAL ARIYA</u> , Enkhtsolmon O., Genjiu Xu Department of Management Strategy, School of Management, Mongolian University of Science and Technology, Mongolia
POS4303	<b>THICKNESS IDENTIFICATION OF TWO-DIMENSIONAL MoS<sub>2</sub> LAYERS USING X-RAY POWDER DIFFRACTOMETER</b> <u>OTGONBAYAR DUGERJAV</u> , Munkhsaikhan G., Jargalan S., Gurbadam E., Odontuya B., Ganchimeg Yu., Jamiyanaa D., Battogtokh J., Batdemberel G. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4304	<b>STRUCTURAL PROPERTIES OF AL-DOPING OF Bi<sub>5</sub>Ti<sub>3</sub>FeO<sub>15</sub> THIN FILMS</b> <u>UYANGATUGS TSEDEEKHUU</u> , Ariunbayasgalan A., Munkhsaikhan G. Department of Physics, School of Applied Sciences, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4401	<b>EFFECTS OF DRYING AS A PRESERVATION TECHNIQUE ON THE QUALITY ATTRIBUTES AND NUTRIENT PROFILE OF MONGOLIAN PASTURE-RAISED SHEEP SPLEEN POWDER</b> Solongo G., <u>MAIZUL BANZRAGCH</u> ., Lkhagvasuren B., Odgerel U., Gantulga B., Tuyatsetseg J., Enkhtuya B., Tsolmonbaatar D. Department of Biotechnology and Nutrition, School of Food, Light Industry and Design, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4402	<b>ENGINEERING CALCULATIONS AND TECHNOLOGY OF LIFTING OPERATIONS OF SUNKEN VEHICLES FROM LAKE KHUVSGUL</b> <u>ULZIISAIKHAN PUREVSUREN</u> , Naidandorj R., Renchinvanjil Ya., Ayurzana B., Gankhulug Ts., Galbadrakh D., Ider G. Department of Mechanical Engineering, School of Mechanical Engineering and Transportation, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4403	<b>RESEARCH AND EXPERIMENT OF VIBRATING MIXER WITH INCLINED CYLINDER DRUM</b> <u>RENCHINVAANJIL YADAM</u> , <u>TSOLMONBAATAR DANJKHUU</u> . Department of Mechanics and Mechatronics, School of Mechanical Engineering and Transportation, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia
POS4404	<b>ENGINEERING CALCULATIONS AND TECHNOLOGY OF LIFTING OPERATIONS OF SUNKEN SUKHBAATAR VESSEL FROM LAKE KHUVSGUL</b> <u>ULZIISAIKHAN PUREVSUREN</u> ., Naidandorj R., Renchinvanjil Ya., Ayurzana B., Khenmedekh L., Gankhulug Ts., Galbadrakh D., Ider G., Khash-Ochir N. Department of Mechanical Engineering, School of Mechanical Engineering and Transportation, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia.
POS4405	<b>METHODOLOGICAL APPROACH TO THE DEVELOPMENT OF THE ELECTRIC POWER SYSTEM OF MONGOLIA, TAKING INTO ACCOUNT THE CURRENT TREND AND CHALLENGE</b> <u>BAT-ERDENE BAYAR</u> ., <u>BATMUNKH SEREETER</u> . Department of Electric Technique, School of Power Engineering, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia

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