



**CHISHINAU**

**EM-2016**

**PROGRAMME**

**OF THE 3<sup>RD</sup> INTERNATIONAL CONFERENCE  
“ENERGY OF MOLDOVA – 2016: REGIONAL  
ASPECTS OF DEVELOPMENT”**



**Organized by**  
**ACADEMY OF SCIENCES OF MOLDOVA**  
**INSTITUTE OF POWER ENGINEERING OF ASM**

# EM-2016



**3<sup>RD</sup> INTERNATIONAL CONFERENCE  
“ENERGY OF MOLDOVA – 2016:  
REGIONAL ASPECTS OF  
DEVELOPMENT”**

## Conference Program

**September 29 – October 01,  
Chisinau, Republic of Moldova**

## PROGRAM COMMITTEE

**DUCA Gheorghe** – acad., President of Academy of Sciences of Moldova  
Chair)

**TÎRȘU Mihai** – dr., director of IPE of ASM (co-Chair)

**BERZAN Vladimir** – dr.hab., deputy director on scientific issues of IPE of  
ASM (co-Chair)

**POSTOLATI Vitalie** – acad., Chief of lab at IPE of ASM (co-Chair)

**CALMÂC Octavian** – Deputy Prime Minister, Minister of Economy of  
Republic Moldova

**TRIBOI Valeriu** – Deputy Minister of Economy of Republic Moldova

**TIGHINEANU Ion** – acad., Deputy Prime President of Academy of Sciences  
of Moldova

**TIMCIUC Iacob** – Director of State Energy Inspectorate

**ANDRONATII Nicolae** – acad., consultant, IPE of ASM

**HĂBĂȘESCU Ion** – acad., Agricultural Machinery Institute MECAGRO

**BOSTAN Ion** – academician, Technical University of Moldova

**BOSTAN Viorel** – dr.hab, rector of Technical University of Moldova

**POGORA Victor** – conf.univ., Dean of Energetics and Electrical Engineering  
Faculty of TUM

**CIMPOEȘ Gheorghe** – acad., rector of State Agrarian University of Moldova

**CERNEI Mihail** – dr.conf., Economic Sciences Faculty, SUM

**BALAN Gheorghe** – dr.ing., General Executive director of CNR-CME

**GOLOVANOV Nicolae** - prof, dr. ing., University POLITEHNICA of  
Bucharest

**SPIVAK Victor** - prof., dr. hab., Ukraine Technical National University (KPI)

**KIRILENKO Alexandr** – director of IPE, Ukraine NTU (KPI)

**STRATAN Mihail** – General director of Energy Efficiency Agency

**CRESTIN Octavian** – director of Energy Efficiency Fund

**COJOCARU Igor** – director of ISDII, Republic of Moldova

**DIMOV Ghenadie** – general director of Î.S. “Moldelectrica”

**ENI Veaceslav** – director of Termoelectrica S.A.

**CIOBANU Sergiu** – general director of ANRE, Moldova

**GALAGAN Ion** – director of CET – Nord, Moldova

**Jose Lius Gomes Pascual** - country manager, Î.C.S. “RED UNION FENOSA”

**DIDILICA Mihail** – director of S.A. RED-Nord, Moldova

**CAZACU Iacob** – Deputy President of Moldovagaz S.A. Council

**ȘEREMET Mihail** – general director of RED-Nord Vest S.A.

**COTRUȚĂ Victor** – „Energie și biomasă în Moldova” project Manager

**POSTORONCA Sveatoslav** – scientific secretary of IPE of ASM

### **ORGANIZING COMMITTEE**

**TÎRȘU Mihai** – dr., director of IPE of ASM (co-Chair)

**BERZAN Vladimir** – dr.hab., deputy director on scientific issues of IPE of ASM (co-Chair)

**POSTOLATI Vitalie** – acad., chief of lab at IPE of ASM (co-Chair)

**POSTORONCA Sveatoslav** – scientific secretary of IPE of ASM (scientific secretary of conference)

**ANISIMOV Vladimir** – chief of lab at IPE of ASM

**BURCIU Vitalie** – dr., chief of lab at IPE of ASM

**BÎCOVA Elena** – dr., leading researcher at IPE of ASM

**CEREMPEI Valerian** - dr.hab., director of AMI MECAGRO

**COMENDANT Ion** - dr., leading researcher at IPE of ASM

**ERHAN Teodor** – dr. hab., head of „Electrotehnica” Department of SAUM

**LEU Vasile** – ANRE, Republic of Moldova

**ȘIT Mihail** – dr., leading researcher at IPE of ASM

**TIMOFTE Natalia** - MS, scientific researcher at IPE of ASM

**TONU Valentin** – Moldovagaz S.A.

**MORARU Larisa** – scientific researcher at IPE of ASM

**TURCUMAN Lilia** – scientific researcher at IPE of ASM

**CIBOTARU Tudor** – Head of Technical Department, State Energy Inspectorate

**COTRUȚĂ Victor** – „Energie și biomasă în Moldova” project Manager

**ZAIȚEV Dmitrii** – dr., chief of lab at IPE of ASM

**ZASTAVNEȚCHI Veaceslav** - General deputy director, main Dispatcher, Î.S. „MOLDELECTRICA”.

**UZUN Mihail** – scientific researcher at IPE of ASM

**SPEIAN Aurel** – scientific researcher at IPE of ASM

**GOLUB Irina** – scientific researcher at IPE of ASM

## CONFERENCE SECTIONS

P – Plenary section

A – Efficiency and Energy Security

B – Sustainable development of energy sector

C – Renewable energy sources and environment protection

### **Conference address:**

**Chisinau, Stefan cel Mare si Sfanta avenue, 1 “Blue” hall.**

## CONFERENCE AGENDA

<b>Thursday, September 29</b>	
8:00-9:30	Participants registration
9:30-10:30	Opening Ceremony of EM-2016
10:30-11:00	<i>Coffee break</i>
11:00-12:30	Plenary Session
12:30-13:40	<i>Lunch</i>
13:40-15:40	<b>Section A. Efficiency and Energy Security (Part 1)</b>
15:40-16:00	<i>Coffee break</i>
16:00-17:40	<b>Section A. Efficiency and Energy Security (Part 2)</b>
19:00	<b>Festive dinner - CRIZANTEMA</b>
<b>Friday, September 30</b>	
8:00-9:00	<b>Posters Session</b>
9:00-10:30	<b>Section B. Sustainable development of energy sector (Part 1)</b>
10:30-10:50	<i>Coffee break</i>
10:50-12:40	<b>Section B. Sustainable development of energy sector (Part 2)</b>
12:40-14:00	<i>Lunch</i>
14:00-15:30	<b>Section C. Renewable energy sources and environment protection (Part 1)</b>
15:30-15:50	<i>Coffee break</i>
15:50-17:40	<b>Section C. Renewable energy sources and environment protection (Part 2)</b>
19:00	<b>Trip to the famous Milestii Mici wine cellars (optional)</b>
<b>Saturday, October 01</b>	
10:00-19:00	<b>Free agenda to celebrate wine festival day which is celebrated annually in Moldova on 01 and 02 October.</b>

## PROGRAM OF CONFERENCE

<b>Thursday - 29.09.2016</b>		
8.00-9.30	Participants registration	
9.30-10.30	Opening ceremony of EM-2016 Deputy Prime President of Academy of Moldova <b>TIGHINEANU Ion</b> , academician	
9.30-9.40	<b>TIGHINEANU Ion</b> , academician, Deputy Prime President of Academy of Sciences of Moldova	
9.40-9.50	<b>Valeriu TRIBOI</b> , Deputy Prime Minister, Minister of Economy of Republic Moldova	
9.50-10.00	<b>IANCU Iulian</b> , President of CNR-CME, Romania	
10.00-10.10	<b>Jose Lius Gomes Pascual</b> , country manager Î.C.S. “RED UNION FENOSA”, Moldova	
10.10-10.20	<b>BALAN Gheorghe</b> –dr.ing., General Executive director of CNR-CME	
10.20-10.30	<b>BOSTAN Viorel</b> , rector of Technical University of Moldova	
10.30-11.00	<i>Coffee break</i>	
11.00-12.30	Plenary Session <b>Chair – TRIBOI Valeriu</b> , Deputy Minister of Economy Member - <b>IANCU Iulian</b> , President of CNR – CME Member - <b>BERZAN Vladimir</b> , IPE ASM Member - <b>BALAN Gheorghe</b> , CNR-CME Member - <b>SANDULESCU Alexandru</b> , High counselor of EU for energy polices	
11.00-11.15	Valeriu TRIBOI, <b>Deputy Minister of Economy</b>	P
11.15-11.30	Anca POPESCU, Daniela BURNETE, Marian DOBRIN, <b>Posibilitățile de creștere a siguranței în alimentarea cu energie în republica Moldova</b> , ISPE, Romania	P
11.30-11.45	Daniela BOLBORICI, Oana ZACHIA, Gheorghe LĂZĂROIU, <b>Synchronous interconnection of Ukrainian and Moldovan power systems to the continental European ENTSO-E power system</b> , UPB	P
11.45-12.00	Vitaly POSTOLATY, Vladimir BERZAN, <b>Operation mode of power system of Republic of Moldova, interconnected with Romanian system</b> . IPE of ASM	P
12.00-12.15	Stratan Mihail, “ <b>Aspects on energy efficiency and development of renewable energy sources in Moldova</b> / general director of Energy Efficiency Agency	P

12.15-12.30	<b>Renewable Energy in Italy and mode of its promotion /</b> COMPANIA FLY REN	P
12.30-13.40	<i>Lunch</i>	
13.40-15.40	<b>Section A. Energy Efficiency and Security</b> <b>Chair - TIMCIUC Iacob, SEI</b> Member - <b>BĂDILEANU Marina</b> , CEIS, Romania Member - <b>STRATAN Alexandru</b> , INCE ASM Member - <b>BICOVA Elena</b> , IPE ASM Member - <b>NEGURĂ Călin</b> , ME	
13.40-13.50	Marina BĂDILEANU <sup>1</sup> , Svetlana CIUMAC <sup>2</sup> , <b>Sustainable Development of heat supply system.</b> <sup>1</sup> CEIS, INCE “Costin C. Kirițescu”, Romanian Academy, <sup>2</sup> ICJP of ASM	A
13.50-14.10	Elena Bykova, Vladimir Berzan, <b>Methodological approaches to short-term energy balance</b> , IPE ASM	A
	Elena BYKOVA, Mihail GRODETSKIY, <b>Development programme mid-term prediction in the composition of soft for analysis and monitoring of energy security</b> , IPE ASM	A
	Elena BYKOVA, <b>Conceptual terms and monitoring system energy security.</b> IPE of ASM	A
14.10-14.20	Vitaly POSTOLATY <sup>1</sup> , Elena BYKOVA <sup>1</sup> , Viktor SUSLOV <sup>1</sup> , Yuri SHAKARYAN <sup>2</sup> , Larisa TIMASHOVA <sup>2</sup> , Svetlana KAREVA <sup>2</sup> , <b>The parameters of the controlled selfcompensating compact transmission power lines.</b> <sup>1</sup> IPE ASM, <sup>2</sup> SEC Electric Power JSC FGC UES of Russia	A
14.20-14.30	Ion COMENDANT, <b>The opportunities to promote cogeneration power plant in the Republic of Moldova.</b> IPE ASM	A
14.30-14.40	Alexandru SĂNDULESCU <sup>1</sup> , Alexandrina ROBU <sup>2</sup> , <b>Financing investments for interconexions of electrical energy and gases between Romania and Republic of Moldova.</b> <sup>1</sup> High counselor of EU for energy polices, <sup>2</sup> Patronal Association in Energy Domain	A
14.50-15.00	Alexandru STRATAN, Corina GRIBINCEA, <b>Managerial tools to ensure energy efficiency in the food industry.</b> The National Institute for Economic Research of the Academy of Sciences of Moldova	A
15.00-15.10	Calin NEGURA <sup>1</sup> , Mihail STRATAN <sup>2</sup> , Valentin ARION <sup>3</sup> , <b>Increase of energy efficiency – an important condition for sustainable development of country.</b> <sup>1</sup> Ministry of Economy of the Republic of Moldova, <sup>2</sup> AEE, <sup>3</sup> TUM	A

15.10-15.20	Mihail POISIK, <b>Macroeconomical indicators of the country and the trends of the energy sector.</b> National Institute of Economic Research of ASM	A
15.20-15.30	Vitaly Postolaty, Mihail Grodetsky, Elena Bykova, <b>Approach to modeling the coordinated management of economic sectors.</b> IPE ASM	A
15.30-15.40	Sergiu CODREANU, <b>Activity indicators of ICS RED Union Fenosa S.A. in progress,</b> Î.C.S. “RED UNION FENOSA”, Moldova	
15.40-16.00	<i>Coffee break</i>	
16.00-17.40	<b>Section A. Energy Efficiency and Security</b> <b>Chair - INDRE Gheorghe, CNR-CME</b> Member - <b>TONU Valentin, Moldovagaz S.A.</b> Member - <b>IGNAT Ioan, ROMGAZ Medias</b> Member - <b>HLIEVA Olga, ANIA, Odessa</b> Member - <b>PENTIUC Radu, Suceava</b>	
16.00-16.10	Valentin TONU, <b>Regarding the harmonization of national standards from the oil and gas sector with the European and international ones.</b> SA „Moldovagaz”	A
16.10-16.20	Gheorghe INDRE, Virgil MUSHATESCU, <b>Considerations on TRANSELECTRICA’S experience in extreme weather risks management.</b> Romanian National Committee of World Energy Council	A
16.20-16.30	Gheorghe INDRE, <b>Aspects on the strategy of smart grid in NCTEE TRANSELECTRICA SA.</b> NRC – WEC	A
16.30-16.40	Radu Dumitru PENTIUC, Ovidiu-Chipryan UNGUREAN, Adryan GRAUR, Cezar-Dumitru POPA <b>Power system for short-term prognosis for eligible consumers of electricity.</b> Faculty of Electrical Engineering and Computer Science, University “Ștefan cel Mare”, Suceava, România	A
16.40-16.50	Vasile RUGINĂ, <b>Energy efficiency indicators considerations.</b> INCDE ICEMENERG Bucharest	A
16.50-17.00	Sergey MOROZ, Olga HLIYEVA, Vitaliy ZHELEZNY, Nikolay LUKIANOV, <b>Experimental investigation of the influence of fullerenes additives to the working fluid isobutene /compressor oil on refrigeration system performance.</b> The Department of Thermal Physics and Applied Ecology, Institute of Refrigeration, Cryogenic Technologies and Eco Energetic, Odessa National Academy of Food Technologies	A



17.00-17.10	Ioan IGNAT. <b>Înmagazinarea gazelor naturale.</b> ROMGAZ Medias	A
17.10-17.20	Vladimir BERZAN, Vitalie POSTOLATI, Elena BICOVA, <b>Some aspects of energy supply problem of Moldova,</b> IPE ASM	A
17.20-17.40	<b>Conclusions</b>	
19.00	<b>FESTIVE DINNER. PLACE - CRIZANTEMA</b>	

### Friday – 30.09.2016

<b>8.00-9.00</b>	<b>Posters Session</b>	
8.00-9.00	Aurel SPEIAN, Sveatoslav POSTORONCA, <b>LED billboards with increased display characteristics of light information and reduced power consumption.</b> IPE ASM	PS
8.00-9.00	Valentina TSILIBINA, <b>Belarus and Moldova: comparative analysis of energy efficiency of economy.</b> The Institute of Economics of the National Academy of Sciences of Belarus	PS
8.00-9.00	Mariana DUMITRESCU, <b>Methods of assessment the reliability of operation for automatic systems of reserve switch.</b> Faculty of Automatics, Computers, Electrical Engineering and Electronics	PS
8.00-9.00	A.B. BALAMETOV, E.D. HALILOV, T.M. ISAYEVA, <b>Operative modelling of a transmission line regime based on current regime parameters.</b> Azerbaijan Research and Design Institute of Energetic	PS
8.00-9.00	Igor KOLESNIC, Vladimir ANISIMOV, <b>Research considering the errors when determining the value of the current between the elements of the fixtures in reinforced concrete produces.</b> IPE ASM	PS
8.00-9.00	Igor KOLESNIK, <b>Reducing to one parameter in the formula to determine the errors of the values of electrical measure's calculation.</b> IPE ASM	PS
8.00-9.00	Igor COLESNIC, Vladimir BERZAN, Vladimir ANISIMOV, Vladimir LOCOSHIN, <b>Electrochemical method for finding the places predisposed to corrosion in the fixtures of reinforced concrete.</b> IPE ASM	PS
8.00-9.00	Valeriu BOSNEAGA, Victor SUSLOV, <b>Modelling of asymmetric modes of three-phase three legs phase shifting transformers.</b> IPE ASM	PS

8.00-9.00	A. T., ORLOV, V.G., MAKSIMCHUK, V.M. SPIVAK, S.K., MESHANINOV, A.V. L'DOVSKAYA, <b>The review of physical transformers to create toxicity biosensors.</b> Dneprodzerzhinsk state technical university	PS
8.00-9.00	Filip GOVOROV, Vladlen GOVOROV, Tatiana ROMANOVA, <b>The control of fluxes of electric power in the networks by means of phase-switching booster transformers.</b> Kharkiv National University of Municipal Economy named after A.N. Beketov	PS
8.00-9.00	Gregory RIABOKON <sup>1</sup> , Joseph MYSAK <sup>2</sup> , <b>The experience of steam turbine k-200-130 lhz reconstruction with substitution of a low pressure cylinder.</b> <sup>1</sup> Join stock company «LVIVORGRES», <sup>2</sup> NU «Lviv Polytechnic»	PS
8.00-9.00	Boris BONDARENKO, Boris ILIENKO, <b>Fundamental research and innovation elaborations of the Institute of gas of the national Academy of sciences of Ukraine.</b> Institute of gas of NAS of Ukraine	PS
8.00-9.00	Mariana DUMITRESCU, <b>The overall analysis of the performance of electric power systems using hybrid intelligent techniques.</b> Faculty of Automatics, Computers, Electrical Engineering and Electronics, University “Dunarea de Jos Galati”, Galati, Romania	PS
8.00-9.00	Valery BOSHNYAGA, Victor SUSLOV, <b>Asynchronous flexible interconnection of two power systems of ac based on the controlled L and C elements.</b> IPE ASM	PS
8.00-9.00	Vitalie BURCIU <sup>1</sup> , Mihai TÎRȘU <sup>1</sup> , Mihail ȘIT <sup>1</sup> , Andrei BURCIU <sup>2</sup> , <b>High-altitude solar station for energy production.</b> <sup>1</sup> Institute of Power Engineering Academy of Sciences of Moldova, <sup>2</sup> „Visburg” SRL	PS
8.00-9.00	Tatiana POSPELOVA, Vladimir CUZIMICHI, <b>National factors of regional development of renewable energy.</b> Engineering and consulting company „ENECA”	PS
8.00-9.00	Vladimir ERMURATSCHII <sup>1</sup> , Nicolai EREMENKOV <sup>2</sup> , Cristina EFREMOV <sup>2</sup> , <b>Parametric study on the characteristics of a seismic base isolated building with air solar heating system.</b> <sup>1</sup> IPE ASM, <sup>2</sup> S.A. “GRADIENT-CO	PS
8.00-9.00	Vladimir ERMURATSCHII <sup>1</sup> , Nicolai EREMENKOV <sup>2</sup> , Cristina EFREMOV <sup>2</sup> , <b>Calculation of economically optimal heat transfer coefficient for fencing elements of buildings with renewable energy (re) heat supply.</b> <sup>1</sup> IPE ASM, <sup>2</sup> S.A. “GRADIENT-CO”	PS

8.00-9.00	Mihai TIRSHU, Vladimir BERZAN, Vladimir ANISIMOV, Sveatoslav POSTORONCA, <b>The method for storage of the energy generated by renewable sources.</b> IPE ASM	PS
8.00-9.00	Iurie ERMURACHI, Vladimir BERZAN, <b>Innovative solutions power electronic converters for energy,</b> IPE ASM	PS
8.00-9.00	Natalia Al. KOLESNYCHENKO, Irina L. BOSKOVA, <b>Energy efficiency of high-intensity processes of microwave processing of materials.</b> The Department of power engineering and pipeline transport energy carriers, Institute of Refrigeration, Cryogenic Technologies and Eco Energetic, Odessa National Academy of Food Technologies	PS
8.00-9.00	Liudmyla DAVYDENKO, Nina DAVYDENKO, <b>Integration of procedures of benchmarking and energy efficiency control in energy management system of municipal water supply enterprise.</b> Lutsk National Technical University	PS
8.00-9.00	Alexsandr DOROSHENKO, Alfiia ANTONOVA, Konstantin LUDNICKIY, <b>Solar multi-stage refrigeration systems. New developments and analysis of possibilities.</b> Odessa national academy of food technologies	PS
8.00-9.00	Yurii DEMIYNENKO, Nikolay GOGOL, <b>The expediency of the heat pumps use for greenhouses heating.</b> V.S. Martynovskiy Educational & Scientific Institute of Cold, Cryotechnologies and Environmental Energy Odessa National Academy of Food Technologies, Odessa, Ukraine	PS
8.00-9.00	Valery EVIEV, Igor ILIŠHKIN, Sergey SHAPOSHNIKOV, Svetlana HULHACIEVA, <b>Solar-wind energy complexes for creation of local engineering infrastructure of remote industrial and rural objectives in the Republic of Kalmykia, Russian Federation.</b> State university of Kalmykia B.B. Gorodovicov	PS
8.00-9.00	Yulia DAUS <sup>1</sup> , Valery KHARCHENKO <sup>2</sup> , Igor YUDAEV <sup>3</sup> . <b>Analysis of solar potential on the territory of the Rostov region of the Russian Federation.</b> <sup>1,2</sup> Azov-Black Sea Engineering Institute - branch of FSBEI HE "Don GAU", <sup>3</sup> FSBSI "All-Russian Institute for Electrification of Agriculture"	PS

8.00-9.00	Sergei YAKOVCHIK, Mikalai KAPUSTIN, <b>Implementation of biogas technologies in the agricultural industry of the Republic of Belarus.</b> Republican Unitary Enterprise «Scientific and Production Center for Mechanization of Agriculture under the National Academy of Sciences of Belarus»	PS
8.00-9.00	Natalya VOLGUSHEVA, Irina BOSHKOVA, <b>Definition of rational parameters of microwave grain drying.</b> The Department of power engineering and pipeline transport energy carriers Institute of Refrigeration, Cryogenic Technologies and Eco Energetic Odessa National Academy of Food Technologies	PS
8.00-9.00	Irina L. BOSHKOVA , Antonina V. SOLODKAYA, <b>Investigation of heat exchange efficiency in the heat exchanger waste heat recovery with granular nozzle.</b> The Department of power engineering and pipeline transport energy carriers Institute of Refrigeration, Cryogenic Technologies and Eco Energetic	PS
8.00-9.00	Ilie TIMOFTE <sup>1</sup> , Boris CARPOV <sup>2</sup> , <b>OEL 400kV Smardan - Vulcaneshti as an alternative of electric power connection between the Republic of Moldova and Romania.</b> <sup>1</sup> IPE ASM	PS
8.00-9.00	Lev KALININ, Dmitry ZAITSEV, Mihai TIRSHU, Irina GOLUB, <b>Capabilities for improving the control strategy of direct frequency conversion by using the phase-shifting transformer with power electronic switching equipment.</b> Institute of Power Engineering of the Academy of Sciences of Moldova	PS
8.00-9.00	Grigory FEDORCENCO, Sergey FEDORCENCO, <b>Classification of states of power system.</b> Transnistrien state university, Tiraspol city	PS
8.00-9.00	Mihail GUZUN, Igor COJOCARU, <b>Energy management standardized approaches.</b> Information Society Development Institute (IDSI)	PS
8.00-9.00	Vitaly POSTOLATY, Alexandru SUVOROV, Vladimir ANISIMOV, <b>Stand for research of the layouts of the devices for junction of the energy systems of alternating current.</b> Institute of Power Engineering of Academy of Sciences of Moldova	PS

8.00-9.00	Vitaly POSTOLATY, Irina GOLUB, <b>Comparison of the results of calculating capacity allocation and natural power according to various methods.</b> Institute of Power Engineering of the Academy of Sciences of Moldova	PS
8.00-9.00	Viktor SUSLOV, Vitaly POSTOLATY, <b>Ecological characteristics of compact controlled self-compensating alternating current power transmission lines.</b> Institute of Power Engineering of the Academy of Sciences of Moldova	PS
8.00-9.00	Valentin OLESCHUK, Vladimir ERMURATSKII, <b>Cascaded inverters with synchronized modulation for transformer-based photovoltaic installation.</b> Institute of Power Engineering of the Academy of Sciences of Moldova	PS
8.00-9.00	Mihail SIT, Vitalie BURCIU, Anatoly Juravliov, <b>Carbon dioxide heat pumps for agriculture, food industry and district heating.</b> Institute of Power Engineering of the Academy of Sciences of Moldova	PS
8.00-9.00	Grigory FEDORCENCO, <b>Assessment of energy security of the region.</b> Transnistrien state university, Tiraspol city	PS
8.00-9.00	Volconovici L., Cușnir M., Volconovici A., Slipenki V., Daicu A., Volconovici O., Arion S., Rusu N. / <b>Efectele tehnologice și economice în sistemele de creștere a animalelor.</b> Universitatea agrară de stat din Moldova, Ministerul agriculturii și industriei alimentare, colegiul tehnologic din Chișinău	PS
8.00-9.00	ȘAPOVALOV V., VOLCONOVICI L., <b>Cercetarea convertorului de măsurare a curentului în calitate de semnal de repornire de avarie a motorului asincron,</b> Universitatea agrară de Stat a Moldovei	PS
8.00-9.00	Volconovici L., Cușnir M., Volconovici A., Slipeniki V., Daicu A., Volconovici O., Chiriac I., Popa A. <b>Metode de imitare pentru determinarea eficienței sistemelor biotehnice</b> / Universitatea agrară de stat din Moldova, Ministerul agriculturii și industriei alimentare	PS
9.00-10.30	<b>Section B. Sustainable development of Energy sector</b> <b>Chair - POSTOLATII Vitalie, IPE ASM</b> Member - <b>VASILEVICI Serghei, IPE NAS Belarusi</b> Member - <b>CERNEI Mihail, SUM</b> Member - <b>HĂBĂȘESCU Ion, MECAGRO</b> Member - <b>ERHAN Tudor, SAUM</b>	

9.00-9.10	Elena BYKOVA, Maria CINIC, Larisa MORARU, <b>Monitoring of some economic security indicators.</b> IPE ASM	B
9.10-9.20	Sergey VASILEVICH <sup>1</sup> , Mihail MALKO <sup>1</sup> , Vladimir BOGACH <sup>1</sup> , Dmitriy DEGTEROV <sup>1</sup> , Andrey Asadchy <sup>1</sup> , Sofia GUSAKOVA <sup>2</sup> , <b>Research dedicated to the procedure of obtaining of wooden coal using the pyrolysis under pressure.</b> <sup>1</sup> Institute of Power Engineering of the National Academy of Sciences of Belarus, Minsk, Belarus, <sup>2</sup> State University of Belarus, Minsk, Republic of Belarus	B
9.20-9.30	Ion HABAȘĂECU, Iuri MOLOTCOV, <b>Reglarea temperaturii gazelor de cuptor la uscarea materiei prime vegetale mărunțite.</b> Institutul de tehnică agricolă „Mecagro”	B
9.30-9.40	Corina CHELMENCIUC, Valentin ARION, <b>Economic assessment of integrated cogeneration technologies in industrial instalations.</b> Technical University of Moldova	B
9.40-9.50	Mihail CHERNEI <sup>1</sup> , Vasile LEU <sup>2</sup> , <b>Actuality municipal heat zoning.</b> <sup>1</sup> State University of Moldova, <sup>2</sup> National Agency for Energy Regulation, Republic of Moldova	B
9.50-10.00	Vladimir BERZAN, Vitaly POSTOLATY, Vladimir BABICH, <b>Comparative analysis of the operation of CHPs with different capacity of heat and electricity generating.</b> IPE ASM	B
10.00-10.10	Valentin OLESCHUK, Vladimir ERMURATSKII, <b>Hybrid synchronized control of PWM converters of six-phase system with two DC sources.</b> IPE ASM	B
10.10-10.20	Fiodor ERHAN, Dinu VOINESCO, <b>Factorii de influență asupra fiabilității utilajului electroenergetic din rețelele de distribuție.</b> Universitatea Agrară de Stat din Moldova	B
10.20-10.30	Fiodor ERHAN, <b>Algorithm for optimization of a reliability of distribution systems considering the random factors.</b> State Agrarian University of Moldova	B
10.30-10.50	<i>Coffee break</i>	

10.50-12.40	<b>Section B. Sustainable development of Energy sector</b> <b>Chair - ADĂSCĂLIȚEI Adrian A.</b> , UT “Gh. Asachi”, Iași Member - <b>LEU Vasile</b> , ANRE Member - <b>GOLOVANOV Nicolae</b> , UPB, România Member - <b>ADAM Adrian A.</b> , INCDE ICEMENERG Member - <b>TEREȘCO Oleg</b> , Moscova, FR	
10.50-11.00	Sergiu CIOBANU, Vasile LEU, <b>The situation of heat supply service in centralized system of republic Moldova.</b> National Agency for Energy Regulation, Republic of Moldova	B
11.00-11.10	Adrian ADĂSCĂLIȚEI <sup>1</sup> , Alexander EMANUEL <sup>2</sup> , Petru TODOS <sup>3</sup> , Nicolae GOLOVANOV <sup>4</sup> <b>Contemporary topics on electric power components definitions.</b> <sup>1</sup> Department of Electrotechnics, Technical University “Gh. Asachi”, Iași, România, <sup>2</sup> Electrical and Computer Engineering Dept., Worcester Polytechnic Institute, MA, USA, <sup>3</sup> Technical University of Moldova, Chisinau, Republic of Moldova, <sup>4</sup> POLITEHNICA University, Bucharest, România	B
11.10-11.20	Cornelia NEAGU, Cristian SIMA, <b>The role of coal in the future Romanian energy mix.</b> Center of Industry and Services Economy of the National Institute of Economic Research "Costin C. Kiritescu", Romanian Academy	B
11.20-11.30	Oana CEAKI <sup>1</sup> , Vasile LEU <sup>2</sup> , <b>Propagation of harmonic disturbances in power grid.</b> <sup>1</sup> Power Engineering Faculty, University Politehnica of Bucharest, <sup>2</sup> ANRE, Republic of Moldova	B
11.30-11.40	Virgil MUSHATESCU <sup>1</sup> , Cristian PODASHCA <sup>2</sup> , Ioana OPRISH <sup>3</sup> , <b>State support for Promotion of electrical energy produced in high efficiency cogeneration in Romania.</b> 1National Romania Committee of the World Energy Council, 2National Authority for Regulation in Energy, 3Politechnical University of Bucharest	B
11.40-11.50	Adrian Andrei ADAM, Vasile RUGINĂ, <b>Actual problems for scientific research in the energy field in Romania.</b> INCDE ICEMENERG Bucharest	B
11.50-12.00	Ionut PURICA, <b>Hazard risks and their impact on critical infrastructures. Case analysis.</b> AOSR–IPE-INCE-Romanian Academy	B
12.00-12.10	Oleg TERESHCO, <b>Market methods to control the reliability of electric energy supply the end consumers.</b> PE ”Corporate Center for education and scientific EES”, Moscow city, RF	B

12.10-12.20	C. TOADER <sup>1</sup> , N. GOLOVANOV <sup>1</sup> , R. PORUMB <sup>1</sup> , I. TRISHTIU <sup>1</sup> , C. BULAC <sup>1</sup> , AI. MANDISH <sup>1</sup> , M. TIRSHU <sup>2</sup> , <b>Assessing losses of power and electrical energy in unbalanced medium voltage distribution networks.</b> <sup>1</sup> University Polytechnics of Bucharest, <sup>2</sup> Institute of Power Engineering of Academy of Sciences of Moldova	B
12.20-12.30	Mihai CHIORSAC <sup>1</sup> , Lilia TURCUMAN <sup>2</sup> , Natalia TURTURICA <sup>2</sup> , <b>Calculation of electrical quantities for relay protection of multiphase power lines.</b> <sup>1</sup> Technical University of Moldova, <sup>2</sup> Institute of Power Engineering of the Academy of Sciences of Moldova	B
12.30-12.40	Roman BANTASH, <b>Methodology of determination of energy intensity in the processing and agricultural production.</b> State Agricultural University of Moldova	B
12.40-14.00	<i>Lunch</i>	
14.00-15.30	<b>Section C. Renewable Energy Sources and Environment Chair - CÂRLEA Filip</b> , Academia Română Member - <b>DUMBRAVĂ Virgil</b> , UPB, România Member - <b>SAVCENCO Vitalii</b> , UNBŞM, Ukraina Member - <b>HLIEVA Olga</b> , ANIA, Ukraina Member - <b>BENIUGA Oana</b> , UT „Gheorghe Asachi”, Iaşi	
14.00-14.10	Filip CARLEA <sup>1</sup> , Violeta Mihaela DINCA <sup>2</sup> , <b>Emerging technologies for useful renewables energy sources.</b> <sup>1</sup> National Institute of Economic Research “Costin C. Kirişescu” Centre for Promotion of Renewable Energies and Energy Efficiency, <sup>2</sup> UNESCO Department for Business Administration, in foreign languages University of Economics	B
14.10-14.20	Oana BENIUGA, Razvan BENIUGA, <b>Wind farms’ grid connection and protection requirements for sustainable development.</b> Technical University “Gheorghe Asachi” of Iasi, Electrical Engineering Faculty, Power Systems Department	B
14.20-14.30	Virgil DUMBRAVA, George Cristian LAZAROIU, Gabriel BAZACLIU, Mihaela TELICEANU, <b>Stochastic optimization of power system operation in presence of renewable energy sources</b> , University POLITEHNICA of Bucharest	B
14.30-14.40	Aurel GUTSU, Corina GUTSU-CHETRUSHCA, <b>Energy complex adaptation to climate change in Republic of Moldova.</b> Technical University of Moldova	B



14.40-14.50	Vitaliy Savchenko, Alexander Sinyavsky, Evgeniy Antipov, <b>Energy efficient electrotechnology of growing plants in the greenhouse with photoelectric converter.</b> National University of Life and Environmental Sciences of Ukraine	B
14.50-15.00	Sergey VASILEVICH, Mikhail MALKO, Nicolay SHEVCHIK, <b>Use of biomass in the Republic of Belarus. Status and prospects of development.</b> Institute of Power Engineering of the National Academy of Sciences of Belarus, Minsk, Republic of Belarus	B
15.00-15.10	Olga KHLIYEVA, Sergey RYABIKIN, Vitaliy ZHELEZNY, Tatyana GORDEYCHUK, <b>Experimental investigation of the convective heat transfer coefficient of coolants with Al<sub>2</sub>O<sub>3</sub> nanoparticle additives.</b> The Department of Thermal Physics and Applied Ecology, Institute of Refrigeration, Cryogenic Technologies and Eco Energetic, Odessa National Academy of Food Technologies	B
15.10-15.20	N. Cheremisin <sup>1</sup> , A. Miroshnyk <sup>1</sup> , V. Cherkashyna <sup>2</sup> , <b>Monitoring the operation factors of overhead transmission lines and environment for controlling the work of electrical networks distribution.</b> <sup>1</sup> Kharkov National Technical University of Agriculture by Petrj Vasylenko (KNTUA), Kharkov, Ukraine <sup>2</sup> National Technical University "Kharkov Polytechnic Institute" (NTU "KPI"), Kharkov, Ukraine	B
15.20-15.30	<b>Tatiana SAU, Tatiana CERNEI</b> , Patenting in energy sector in the Republic of Moldova. <b>State Agency on Intellectual Property</b>	B
15.30-15.50	<i>Coffee break</i>	
15.50-17.40	<b>Section C. Renewable Energy Sources and Environment Chair - CEREMPEI Valerian, MECAGRO</b> Member - <b>POSTOLATI Vitalie, IPE ASM</b> Member - <b>BÎCOVA Elena, IPE ASM</b> Member - <b>COTRUȚĂ Victor, "Energie și biomasă"</b> Member - <b>LEAH Tatiana, AGEPI</b>	
15.50-16.00	Ion HEBESHESKU, Yuri MOLOTKOV, <b>Drying crushed plant raw in the aerodynamical dryer.</b> Institute of Agricultural Technics "Mecagro"	C
16.00-16.10	Olga CAPITAN, <b>Gaseous fuels potential assessment for Moldova.</b> Technical University of Moldova	C
16.10-16.20	Tamara LEAH, <b>Biomass - renewable and ecological energy source for agriculture of Moldova.</b> "Nicolae Dimo" Institute of Soil Science, Agrochemistry and Soil Protection	C

16.20-16.30	Valerian CEREMPEI, Viktor RAICOV, Igor PASAT, <b>Research and testing exploitation of chopper twig TC – 1,7.</b> Institute of Agricultural Technics "Mecagro	C
16.30-16.40	Victor RAICOV, <b>Research of diametric fans for aspiration systems of combines of harvesting crops with sever straight.</b> Institute of Agricultural Technique «Mecagro»	C
16.40-16.50	Denis RUSCHIH, <b>Determination of the thermotechnology parameters of heat exchangers changed within supply system modified diesel, engines on biofuel.</b> Institute of Agricultural Technique «Mecagro»	C
16.50-17.00	Oleg CHEALBASH, Eugene KUZNETSOV, <b>Solar photovoltaic and thermocollectory stations on mobile platforms (tracking system), placed on a limited area.</b> Institute of Mathematics and Computer Science, Academy of Sciences of Moldova	C
17.00-17.10	Elena BYKOVA <sup>1</sup> , Tatiana KIRILLOVA <sup>1</sup> , Marius TARANU <sup>2</sup> , <b>Greenhouse gas emissions trends of small combustion in Moldova.</b> <sup>1</sup> Institute of Energy of the Academy of Sciences of Moldova, <sup>2</sup> Climate Change Office	C
17.10-17.20	Vitaly POSTOLATY, Vladimir BABICHI, <b>The use of physical methods for assessing and calculating the total efficiency of fuel use, evaluation of cost allocation and determine the cost of the production of heat and electricity by cogeneration.</b> IPE ASM	C
17.20-17.40	<b>Closing session of EM-2016</b>	
19.00	<b>Trip to the famous Milestii Mici wine cellars (optional)</b>	

**Saturday – 01.10.2016**

9.00-19	<b>Free agenda to celebrate wine festival day which is celebrated annually in Moldova on 01 and 02 October</b>
---------	--

3<sup>rd</sup> International conference “Energy of Moldova  
– 2016: regional aspects of development”

CONFERENCE SPONSORS:



World Energy Council

CONSEIL MONDIAL DE L'ENERGIE

ROMANIAN NATIONAL COMMITTEE



gasNatural  
fenosa



ENERGIE  
ȘI BIOMASĂ

Resurse energetice alternative pentru Moldova



Inspectoratul Energetic de Stat



MOLDOVAGAZ



Agenția pentru eficiență energetică



3<sup>rd</sup> International conference “Energy of Moldova  
– 2016: regional aspects of development”

## EM-2016

September 29 – October 01, Chisinau, Republic of Moldova

### CONFERENCE AGENDA

Thursday, September 29	
8:00-9:30	Participants registration
9:30-10:30	Opening Ceremony of EM-2016
10:30-11:00	<i>Coffee break</i>
11:00-12:30	Plenary Session
12:30-13:40	<i>Lunch</i>
13:40-15:40	<b>Section A. Efficiency and Energy Security (Part 1)</b>
15:40-16:00	<i>Coffee break</i>
16:00-17:40	<b>Section A. Efficiency and Energy Security (Part 2)</b>
19:00	<b>Festive dinner - CRIZANTEMA</b>
Friday, September 30	
8:00-9:00	<b>Posters Session</b>
9:00-10:30	<b>Section B. Sustainable development of energy sector (Part 1)</b>
10:30-10:50	<i>Coffee break</i>
10:50-12:40	<b>Section B. Sustainable development of energy sector (Part 2)</b>
12:40-14:00	<i>Lunch</i>
14:00-15:30	<b>Section C. Renewable energy sources and environment protection (Part 1)</b>
15:30-15:50	<i>Coffee break</i>
15:50-17:40	<b>Section C. Renewable energy sources and environment protection (Part 2)</b>
19:00	<b>Trip to the famous Milestii Mici wine cellars (optional)</b>
Saturday, October 01	
10:00-19:00	<b>Free agenda to celebrate wine festival day which is celebrated annually in Moldova on 01 and 02 October.</b>