

PROGRAM TE-RE-RD 2020 26.06.2020  
MICROSOFT TEAMS (ONLINE)

9:00-9:30 Opening Ceremony		ID#	tererd_	TERMAL EQUIPMENT							
9:30-11:30 Moderators: Iliya Iliev, Ion Oprea	16	1003		The efficiency analysis of the SH-25A ball drum mill when grinding industrial products of fossil fuels	Saule Kamarova	Saule Abildinova	Angel Terziev	Aliya Eleanova			
	18	1004		Condensing economizers for large scale steam boilers	Iliya Iliev	Angel Terziev	Hristo Beloev				
	93	1006		The amplitude influence on the thermal and hydraulic performances for a wavy air fin in a compact heat exchanger used in agriculture applications	Septimiu Albețel	Alexandru Rus	Eveline David	Vlad Marțian			
	26	1007		Pipelines Designing By Using Hydraulic Criteria Equations	Gencho Popov	Kliment Klimentov	Boris Kostov				
	33	1009		Numerical modeling of the thermal conduction process in water-air convector's fins	Zhivko Kolev	Seher Kadirova					
11:30-14:00 Moderators: Constantin Pana, Elena Pop	56	1010		The study of the spark ignition engine operation at fueling with n-butanol-gasoline blends	Cristian Sandu	Constantin Pană	Nicolae Negurescu	Alexandru Cernat	Cristian Nikolaos Nuțu	Rareș Georgescu	
	57	1011		Researches on biofuels gasification using the Lurgi process with homogeneous air inlet over the combustion space	Gheorghe Lăzăroiu	Lucian Mihăescu	Ionel Pișă	Gabriel Negreanu	Iulia Simion	Dana-Alexandra Ciupăgeanu	
	85	1015		Combustion Experiments On A Solid Fuel With Low Sulphur Content	Tudor Prisecaru	Adrian Adam	Lucian Mihăescu	Ionel Pișă	Elena Pop	Malina Prisecaru	Viorel Berbece
	82	1014		Application of waste oil purification technology on a heating installation of an industrial hall	Mihai Dragne	Elena Pop	Ionel Pișă				
	111	1013		Calculation of the main parameters involved in the combustion process of CH4-H2 mixtures at different proportions	Razvan Carlanescu	Marius Enache	Raluca Maier	Andreea Alcea	Raluca Condruz	Cristian Stoica	Madalina Ghilvacs
14:00-16:00 Moderators: Gabriel Negreanu, Ionut Cristian Scurtu	30	1008		Effects of CNG quantity on combustion characteristics and emissions of a dual fuelled automotive diesel engine	Silviu Rotaru	Constantin Pană	Nicolae Negurescu	Alexandru Cernat	Dinu Fuiurescu	Cristian Nikolaos Nuțu	
	14	1002		Researches on the delimitation between the water aeration and oxygenation processes	Rasha Cusma	Nicolae Băran	Nicolae Vlad Sima	Mihaela Petroșel	Remus Voicu	Mariana Mirela Stoican (Prisecaru)	Mihaela Constantin
	105	1017		Some design characteristics of micro steam turbines for agricultural biomass energy conversion	Gabriel Negreanu	Ion Oprea	Viorel Berbece				
	58	1012		Determination of hydraulic resistance of the aerothermopressor for gas turbine cyclic air cooling	Dmytro Konovalov	Halina Kobalava	Mykola Radchenko	Ionut-Cristian Scurtu	Roman Radchenko		
	19	1005		Consideration regarding the reduction of pollutions emissions by increasing energy efficiency in ship operations	Lucian Mihail Dumitrache	Nicolae Buzbuchi	Cătălin Faităr				
	13	1001		Seismic qualification by analysis of a nuclear class horizontal pressure vessel	Liviu-Constantin Stan	Ioan Călimănescu	Catalin Faitar				
	96	1016		Structural and Technological Features of an Installation for Recovery of End-of-life Automobile Tires	Violeta Rasheva	Georgi Komitov	Ivan Binev	Georgi Valtchev			

9:00-9:30 Opening Ceremony	ID#	tererd_	<b>RENEWABLE ENERGY</b>							
9:30-12:00 Moderators: Ion Oprea, Razvan Carlanescu,	5	2001	Analysis of rotors' critical mode of operation to be employed in the design of a wind generation control unit	Alina Fazylova	Gani Balbayev	Diana Ilieva	Madina Aliyarova			
	7	2002	Compressed air energy storage facility with water tank for thermal recovery	Iulian Vlăducă	Claudia Borzea	Dan Ionescu	Alexandra Țăranu	Răzvan Ciobanu	Vicențiu Ringheanu	Răzvan Nedelcu
	9	2003	Influence of four modern Flettner rotors, used as wind energy capturing system, on container ship stability	Mihail-Vlad Vasilescu	Ionut Voicu	Cornel Panait	Violeta-Vali Ciucur			
	17	2004	Influence of Flettner balloon, used as wind energy capturing system, on container ship stability	Mihail-Vlad Vasilescu	Dumitru Dinu					
	24	2005	Analysis of energy potential of biofuels obtained from camelina sativa	Madalina Ghilvac	Razvan Carlanescu	Elena Pop	Maria Paraschiv	Malina Prisecaru		
	29	2006	A combined approach for assessment the functionality of photovoltaic modules in realworld operation	Ivaylo Nedelchev	Hristo Zhivomirov					
	50	2007	Predictive maintenance of photovoltaic plants using multirotor drones with automatic recharging system of Li-Po batteries	Vasile Plesca	Cristian Purece					
12:00-14:30 Moderators: Angel Terziev, Gabriel Negreanu	55	2008	Researches on the development of an optical system for improving the efficiency of photovoltaic panels	Dana Rizescu	Ciprian Ion Rizescu	Cristian Gabriel Alionte				
	65	2009	Transforming Romanian school buildings in prosumers. An opportunity for increasing the energy efficiency in electrical networks and reducing the environmental impact of the power distribution sector	Mircea Scripcariu	Cristian Gheorghiu	Ioan-Sevastian Bitir-Istrate	Mihaela-Madalina Bonea			
	67	2010	Impact of pollutants in the energy sector on the environment and technologies for treating liquid and solid waste from power plants	Irina Alina Chera-Anghel	Loredana Popescu	Florentina Condrea				
	68	2011	Solar collectors network map: shape and time dynamics of stored thermal energy for different user loads	Camelia Stanciu	Dorin Stanciu	Claudia Ioniță	Diana-Maria Olaru			
	73	2012	IoT solution for monitoring indoor climate parameters in open space offices	Ioana Udrea	Viorel Ionut Gheorghe	Laurentiu Adrian Cartal	Despina Duminica	Silviu Petrache	Tudor Catalin Apostolescu	Valeru Friedemann Kraus
	74	2013	Solution for controlling a hydraulic motor using cloud data	Ioana Udrea	Viorel Ionut Gheorghe	Silviu Petrache	Alina Popescu-Cuta	Romeo Traian Popa		
	109	2014	Obtaining thermal energy from renewable sources in rural areas using a combined energy system	Liliana Dumitrescu	Corneliu Cristescu	Radu Rădoi	Ioan Pavel			
14:30-17:00 Moderators: Mariana Panaitescu, Gheorghe Lazaroiu	80	2015	Simulation analysis of thermal performance of the solar air/water collector by using computational fluid dynamics	Jafer Shandal	Qahtan A Abed	Dhafer M. Al-Shamkhee				
	95	2016	Energy and exergy analysis of a flat plate collector using collector test equations	Adina-Teodora Gheorghian	Tudor Prisecaru	Cristina Ciobanu				
	99	2017	Gas yield variation in wood biomass co-current air gasification process – continuous operation	Gabriela Ionescu	Raluca Nicoleta Tirtea	Cora Gheorghe-Bulmau	Cosmin Marculescu			
	100	2018	Process characterization and energy balance of air wood residues gasification using continuous operated pilot scale reactor	Cora Gheorghe-Bulmau	Raluca Nicoleta Tirtea	Gabriela Ionescu	Cosmin Marculescu			
	102	2019	The generation of a mathematical model of the biogas production process from organic municipal solid waste	Marzhan Temirbekova	Madina Aliyarova	Iliya Iliev	Aliya Yelemanova	Saule Sagintayeva		

9:00-9:30 Opening Ceremony	ID#	tererd										
			<b>RURAL DEVELOPMENT</b>									
9:30-12:00 Moderatori: Valentin Vladut, Nicoleta Ungureanu	10	3001	Intensity of soil erosion in Romania, predictions in time and space, European and indigenous	Petru Cardei	Raluca Sfiru	Vergil Muraru						
	11	3002	Soil moisture influence in the soil tillage operations	Petru Cardei	Raluca Sfiru	Sebastian Muraru	Paula Condruz					
	20	3003	Finite element 3D numerical simulation study of car braking systems and brake disc/drum – pad/shoe friction couple materials	George Ipate	Filip Ilie	Gheorghe Voicu	Andreea Catalina Cristescu					
	28	3004	Sorghum bicolor (L.) Moench. - Plant for the future in Moldavia agriculture (Romania) and for the human nutrition	Simona – Florina Isticioaia	Alexandra Leonte	Lorena - Diana Popa	Elena Troțuș	Livia Apostol	Valentin Vlăduț	Iulian Voicea	Gheorghe Matei	
	34	3005	Theoretical considerations on the factors influencing the processing of hemp stalks	Paul Găgeanu	Mihai Olan	Iuliana Găgeanu	Alexandru Zaica					
	35	3006	Research on the use of cylindrical cutting drums with blades in cascade for Miscanthus harvesting	Anișoara Păun	Gheorghe Stroescu	Valentin Vlăduț	Radu Popa	Vlad Popa				
	36	3007	Desorption of the Exotic Fruit Jujube (Ziziphus Jujube Mill) of Bulgarian Origin	Albena Durakova	Adelina Bogoeva	Velichka Yanakieva	Tzvetana Gogova	Kornelia Choroleeva				
	37	3008	Sorption Characteristics of Bulgarian Penny Buns (Boletus Edulis)	Albena Durakova	trims mail							
12:00-14:30 Moderatori: Sorin-Stefan Biris, Julian Voicea	39	3009	Structural, kinematic and kinetostatic analysis of a manure spreader equipped by a mobile	Lucretia Popa	Stefan-Iulian Moise	Victor Moise	Vasilica Stefan	Paula Tudor	Ioan Ganea-Christu			
	40	3010	Experimental Water Treatment Plant from Agrozootechnical Farm	Iulian Voicea	Ioana Corina Moga	Eugen MARIN	Dragos DUMITRU					
	41	3011	Determining the qualitative working indices for various forms of the active body of a rut soil compartmentation equipment	Marius Remus Oprescu	Sorin Stefan Biris	Iuliana Gageanu	Dragos Nicolae Dumitru					
	43	3012	Evaluation of carbon dioxide released by bread dough during proving stage	Adriana Istudor	Gheorghe Voicu	Gheorghe Muscalu	Paula Tudor					
	49	3013	Evaluation of hand transmitted chainsaw vibrations during wood cutting	Mihai Gabriel Matache	Gheorghe Voicu	Dragos Nicolae Dumitru						
	52	3014	The influence of environmental factors and heavy metals in the soil on plants' growth and development	Nicoleta Alexandra Vanghele	Mirabela Augustina Pruteanu	Ancuța Alexandra Petre	Andreea Matache	Dumitru Bogdan Mihalache				
	53	3015	Wastewater electrooxidation using stainless steel electrodes	Nicoleta Ungureanu	Valentin Vlăduț	trims mail						
	54	3016	Climate changes and methods to protect vegetable crops	Adriana Muscalu	Cătălina Tudora	Constantin Coța	Zoltan Gyorgy	Floarea Burnichi	Valentin Vlăduț			
14:30-16:00 Moderatori: Mihai Matache, Edmond Maican	60	3017	Study of the compression behaviour of grape seeds using the Finite Element Method	Carmen Vasilachi (Baltău)	Sorin-Stefan Biriș	George Ipate	Gabriel Gheorghe					
	61	3018	Study on the effects and changes of soil degradation under the influence of antibiotics	Ancuta Alexandra Petre	Nicoleta Alexandra Vanghele	Dragos Dumitru	Mariana Mădălina Stanciu	Dumitru Bogdan Mihalache	Andreea Matache	Iulia Andreea Grigore	Laurențiu Vladuțoiu	
	63	3019	Static and modal analysis of an deep soil loosening machine	Gabriel Gheorghe	Daniel Lates	Catalin Persu	Marinela Mateescu					
	71	3020	Mathematical modelling of the drying process of sugar beet pulp with macro and microelement additions in order to improve the feed quality	Elena Mihaela Nagy	Constantin Coța	Zoltan Gyorgy	Teodora Deac					
	110	3021	Research on methods, techniques and technologies of carbon sequestration in soil	Oana Diana Cristea	Valentin Vlăduț	Nicoleta Ungureanu	Diana Lorena Popa					
	76	3022	Theoretical research to accomplish a system of ecological heating a greenhouse for vegetables	Eugen Marin	Marinela Mateescu	Dragos Manea	Gabriel-Valentin Gheorghe	Andrei Dumitrascu	Carmen Vasilachi	Radu Popa	Vlad Popa	
16:00-17:30 Moderatori: Iulian Dutu, Iuliana Gageanu	81	3023	Sound power determination for centrifugal pumps used for local agricultural irrigation in Romania	Mihai Chijoiu	Georgiana Moiceanu	Gigel Paraschiv	Gheorghe Voicu	Andreea Matache				
	90	3024	An analysis of baffles designs for limiting impact on the directional response for a partially filled tank with agro-food liquids	Gabriela Milian	Sorin-Ștefan Biriș	George Ipate	trims mail					
	106	3025	Kinetostatic analysis of a scissor jack mechanism powered by a tetrad RRR-Ta-RRR	Victor Moise	Ileana Dugaescu	Lucretia Popa	Liviu Ungureanu	Ștefan-Iulian Moise				
	107	3026	Analysis of the process of green hemp stalks sequential harvesting	Anișoara Păun	Gheorghe Stroescu	Alexandru Zaica	Valentin Vlăduț	Radu Ciupercă	Constantin Bogdanof			
	108	3027	Experimental testing of a helical rotor for compost distribution	Vasilica Ștefan	Ladislau David	Radu Ciupercă	Ana Zaica	Ancuța Nedelcu	Albert Suvac			

9:00-9:30 Opening Ceremony	ID#	tererd_	<b>MISCELLANEOUS</b>					
	21	4001	Research of filtration and energy parameters of membrane bioreactors	<i>Nikolay Makisha</i>				
09:30-12:00 Moderators: Virgil Muraru, Gheorghe Voicu	23	4002	The remotely controlled underwater robot system	<i>Cristian Nita</i>	<i>Dumitru Deleanu</i>	<i>Ionut Voicu</i>		
	32	4003	Simulation regarding the forward part of underwater remotely operated vehicle designed for research in maritime and river districts	<i>Andra-Teodora Nedelcu</i>	<i>Cătălin Faităr</i>	<i>Nicolae Buzbuchi</i>	<i>Liviu-Constantin Stan</i>	<i>Mihail Lucian Dumitrache</i>
	38	4004	The strong connection between marine engineering and marine environmental education within a marine cluster	<i>Mirela Iuliana Sundri</i>	<i>Feiza Memet</i>	sent email		
	42	4005	Mathematical modelling and numerical simulation of linear electro-hydraulic servomechanism with stepper motor	<i>Vergil Muraru</i>	<i>Constantin Calinoiu</i>	<i>Sebastian Muraru</i>	<i>Ana Dulgheru</i>	
	46	4006	Finite element analysis of the compaction plate from a garbage truck	<i>Gheorghe Voicu</i>	<i>Mircea Lazea</i>	<i>Gabriel-Alexandru Constantin</i>	<i>Elena-Madalina Stefan</i>	<i>Mariana-Gabriela Munteanu</i>
	47	4007	Determination of granulometrical composition of the clinker by grinding in a ball mill to determine the specific consumption of additional energy	<i>Cristian Ciobanu</i>	<i>Gheorghe Voicu</i>	<i>Gabriel-Alexandru Constantin</i>	<i>George Ipate</i>	<i>Paula Tudor</i>
	66	4008	The smart transition of Power Transmission Network needed for the sustainable development of Bucharest City	<i>Mircea Scripcariu</i>	<i>Cristian Gheorghiu</i>	<i>Ion Tristiu</i>	<i>Alexandra-Gabriela Dobrica</i>	
	72	4009	Efficient phosphate removal by biological corrosion method	<i>Otga Ruzhitskaya</i>	trimis email			
12:00-14:30 Moderators: Mircea Scripcariu, Viorel Panaitescu	79	4010	Elimination of the biogenic pollution effects on aquatic environments	<i>Vladimir Sherbakov</i>	<i>Konstantin Chizhik</i>	<i>Tatyana Shchukina</i>	<i>Anastasiya Milyaeva</i>	
	84	4011	Development of thermal bridge numerical model, based on conjugate heat transfer and indoor and outdoor environment parameters	<i>Martin Ivanov</i>	<i>Sergey Mijorski</i>			
	112	4019	Determination of the minimum wind speed leading to the galloping of conductors	<i>Muratkali Zhamanbaev</i>	<i>Diana Ilieva</i>	<i>Rakhimash Abitaeva</i>	<i>Bulbul Ongar</i>	
	15	4013	The influence of the vitiated air from the treatment plants on the urban and rural development	<i>Fanel-Viorel Panaitescu</i>	<i>Mariana Panaitescu</i>	<i>Nicolae Ion</i>		
	12	4014	Assessment and risk prevention of air pollution in urban sites	<i>Mariana Panaitescu</i>	<i>Fanel-Viorel Panaitescu</i>	<i>Cornel Panait</i>	<i>Octavia Bardasu</i>	<i>Viorica-Ani Merla</i>
	89	4015	More on Smart Cultural Landscapes: technicalities of the planning processes	<i>Alexandru Calcatinge</i>	trimis email			
14:30-17:00 Moderators: Carmen Safta, Cristian Alionte	91	4016	Study of Sequencing Batch Reactor operation with an inflow of wastewater with low concentration of organic contaminations	<i>Elena Gogina</i>	trimis emal			
	92	4017	Mathematical Description of Sequencing Batch Reactor operation of treatment of wastewater with low concentration of organic contaminations	<i>Elena Gogina</i>	trimis emal			
	97	4018	Black sea marine litter pollution related to naval operations	<i>Valerian Novac</i>	<i>Luminița Moraru</i>	<i>Carmen Gasparotti</i>	<i>Eugen Rusu</i>	
	94	4020	Mechano-hydraulic pumping solutions for reduction off energy losses in agricultural mobile machinery	<i>Alexandru Hristea</i>	<i>Bogdan Tudor</i>	<i>Stefan Sefu</i>		
	86	4012	Dynamic behaviour of pneumatic actuators in open-loop controlled by proportional valves	<i>Valentin Nicolae Cococi</i>	<i>Carmen-Anca Safta</i>	<i>Constantin Călinoiu</i>		