

Skrócony Program konferencji HTRSE – 2018

Short Programme of HTRSE – 2018

2 września 2018 Niedziela; 2nd September, Sunday	
15:00 – 22:00	Rejestracja uczestników – Registration
18:00 – 20:00	<i>Kolacja – Supper</i>
3 września 2018 Poniedziałek; 3rd September, Monday	
od 8:30	Rejestracja uczestników – Registration
07:00 – 10:00	<i>Śniadanie – Breakfast</i>
09:00 – 09:30	Otwarcie konferencji – Opening ceremony
09:30 – 10:10	Sesja Plenarna 1 – Plenary session 1 (tłumaczenie symultaniczne)
10:10 – 11:30	Sesja I – Session I (tłumaczenie symultaniczne)
11:30 – 12:00	<i>Przerwa kawowa – Coffee break</i>
12:00 – 14:00	Sesja II – Session II (tłumaczenie symultaniczne)
14:00 – 15:00	<i>Obiad – Lunch</i>
15:00 – 17:00	Sesja Posterowa *) – Poster session *)
20:00	Uroczysta kolacja – Banquet
4 września 2018 Wtorek; 4th September, Tuesday	
07:00 – 10:00	<i>Śniadanie – Breakfast</i>
09:00 – 09:40	Sesja Plenarna 2 – Plenary session 2 (prezentacja w j. angielskim)
09:40 – 11:00	Sesja III – Session III (prezentacja w j. angielskim)
11:00 – 11:30	<i>Przerwa na kawę – Coffee break</i>
11:30 – 13:30	Sesja IV – Session IV (prezentacja w j. angielskim)
13:30 – 14:30	<i>Obiad – Lunch</i>
15:00 – 17:00	Wycieczka techniczna – Technical tour
19:00	Spotkanie towarzyskie – Social meeting
5 września 2018 Środa; 5th September, Wednesday	
07:00 – 10:00	<i>Śniadanie – Breakfast</i>
09:00 – 11:00	Sesja V – Session V (prezentacja w j. angielskim)
11:00 – 11:20	Zamknięcie obrad konferencji – Closure of the Conference
12:00 – 13:00	<i>Obiad – Lunch</i>
od 13:00	Wyjazd uczestników – Departure of participants

*) Postery prosimy wywiesić w godzinach przedpołudniowych w dniu prezentacji
 Posters, please place in the morning on the day of your presentation

Czas prezentacji referatu (sesja I – V) nie powinien przekroczyć 15 minut + 5 minut na dyskusję
 Time of presentation the paper (session I–V) cannot exceed 15 min + 5 min discussion

Wymiary posteru: 70 x 100 cm (B1)

Poster board: 70 x 100 cm (B1)

B1

3 września 2018 Poniedziałek; 3rd September, Monday

SESJA PLENARNA 1 – PLENARY SESSION 1 (tłumaczenie symultaniczne)

UTILIZATION OF HYDROGEN IN POWER ENGINEERING AND TRANSPORT – NEW DIRECTIONS OF RESEARCH

TADEUSZ CHMIELNIAK

SESJA I – SESSION I (tłumaczenie symultaniczne)

AN INVESTIGATION OF HEAT TRANSFER COEFFICIENT DURING REFRIGERANTS CONDENSATION IN VERTICAL PIPE MINICHANNELS

TADEUSZ BOHDAL, HENRYK CHARUN, MARCIN KRUZEL, MAŁGORZATA SIKORA

EXPERIMENTAL RESEARCH ON HYDRODYNAMIC INSTABILITIES DURING CONDENSATION OF PRO-ECOLOGICAL REFRIGERANT R1234YF IN TUBULAR MINICHANNELS

WALDEMAR KUCZYŃSKI, ALEKSANDER DENIS

RESEARCH ON FLOW BOILING HEAT TRANSFER FOR TWO SPATIAL ORIENTATIONS OF A MINICHANNEL WITH A SMOOTH HEATED SURFACE

KINGA STRĄK, MAGDALENA PIASECKA

THERMAL-HYDRAULIC ISSUES OF MINIJETS APPLICATION IN THE SHELL-AND-TUBE HEAT EXCHANGER

JAN WAJS, MICHAŁ BAJOR, DARIUSZ MIKIELEWICZ

SESJA II – SESSION II (tłumaczenie symultaniczne)

IMPACT OF KEY FACTORS ON EXPECTED DEVELOPMENT OF ONSHORE WIND ENERGY SECTOR IN POLAND AND DEVELOPMENT SCENARIOS

KAROL TUCKI, ANNA BĄCZYK, IZABELA WIELAWSKA, MAGDA TRZASKA

MATHEMATICAL MODEL OF FLAT PLATE SOLAR THERMAL COLLECTOR AND ITS VALIDATION

MICHAŁ WASIK, MARCIN A. BUGAJ, TOMASZ S. WIŚNIEWSKI, MACIEJ KLEIN, PATRYK CHAJA, SEBASTIAN BYKUĆ

IMPROVING THE ENERGY EFFICIENCY OF LIGHTING SYSTEMS BY THE USE OF SOLAR RADIATION

SŁAWOMIR SOWA

DESIGN OF THERMAL ENERGY STORAGE UNIT FOR COMPRESSED AIR ENERGY STORAGE SYSTEM

MACIEJ SZYBIAK, MACIEJ JAWORSKI

EXPERIMENTAL INVESTIGATION OF PCM THERMAL ENERGY STORAGE CHARGE AND DISCHARGE PROCESS WITH APERIODIC (RAMP) TEMPERATURE INPUTS

JAROSŁAW KARWACKI, ROMAN KWIDZIŃSKI

THERMODYNAMICS ASPECTS OF A RESONANT METHOD FOR DETECTION AND DESTRUCTION OF PATHOGENS

MARIAN TRELA, ROMAN KWIDZIŃSKI

SESJA POSTEROWA – POSTER SESSION

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CONDENSATION OF NOVEC 649 REFRIGERANT IN PIPE MINICHANNELS

TADEUSZ BOHDAL, HENRYK CHARUN, MAŁGORZATA SIKORA

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AN INVESTIGATION OF PRESSURE DROP DURING REFRIGERANTS CONDENSATION IN VERTICAL PIPE MINICHANNELS

TADEUSZ BOHDAL, MARIAN CZAPP, MARCIN KRUZEL, MAŁGORZATA SIKORA

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DEVELOPMENT OF THE EXPERIMENTAL STAND FOR INVESTIGATION OF HEATING AND DRYING PHENOMENA IN THE POROUS BUILDING MATERIALS WITH ONE SURFACE OF THE SAMPLE EXPOSED TO THE FLOWING AIR

ŁUKASZ CIEŚLIKIEWICZ, PIOTR ŁAPKA, MICHAŁ WASIK, MICHAŁ KUBIŚ, KAROL PIETRAK, TOMASZ S. WIŚNIEWSKI, PIOTR FURMAŃSKI, MIROŚLAW SEREDYŃSKI

P-04

EXPERIMENTAL INVESTIGATION OF TWO-PHASE THERMOSYPHON HEAT EXCHANGER CHARGED WITH ACETONE

JANUSZ T. CIEŚLIŃSKI, MACIEJ FABRYKIEWICZ

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AMPACITY OF POWER CABLES EXPOSED TO SOLAR RADIATION – RECOMMENDATIONS OF STANDARDS VS. CFD SIMULATIONS

STANISŁAW CZAPP, MARIAN CZAPP, SEWERYN SZULTKA, ADAM TOMASZEWSKI

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THE USE OF THE T-HISTORY METHOD TO ESTIMATE THERMAL CAPACITY AND LATENT HEAT FOR RT15 AND RT18 MATERIALS

PAULINA KAPICA, JAROSŁAW KARWACKI, SEBASTIAN BYKUĆ

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BOILING OF A REFRIGERANT OF LOW GWP ON THE SURFACE WITH COPPER MICROCHANNELS

ROBERT KANIOWSKI, ROBERT PASTUSZKO

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BUBBLE DEPARTURE DIAMETER DETERMINATION FOR POOL BOILING IN MICROCHANNELS

ROBERT KANIOWSKI, ROBERT PASTUSZKO, JOANNA KOWALCZYK, ŁUKASZ NOWAKOWSKI

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MODELING OF A TWO-PHASE ZONA OF THE CONDENSATION OF R1234A REFRIGERANT IN PIPE MINICHANNELS WITH PERIODIC DYNAMIC DISTURBANCES

WALDEMAR KUCZYŃSKI, ALEKSANDER DENIS

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POWER TO X – GREEN HYDROGEN FOR ELECTRICAL ENERGY AND FUEL FOR PRODUCTION AND PRODUCTS

JOCHEN LEHMANN, THOMAS LUSCHTINETZ, JOHANNES GULDEN

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DESIGNS OF PCM BASED HEAT EXCHANGERS CONSTRUCTIONS FOR THERMAL ENERGY STORAGE TANKS – STATE OF THE ART AND SELECTED DESIGN CASE STUDY

MARTA KUTA, DOMINIKA MATUSZEWSKA, TADEUSZ MICHAŁ WÓJCIK

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MULTI-OBJECTIVE OPTIMIZATION OF ORC GEOTHERMAL CONVERSION SYSTEM INTEGRATED WITH LIFE CYCLE ASSESSMENT

DOMINIKA MATUSZEWSKA, MARTA KUTA, JAN GÓRSKI

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RESEARCH ON BOILING HEAT TRANSFER DURING FC-72 FLOW IN A MINICHANNEL HEAT SINK

ARTUR PIASECKI, SYLWIA HOŻEJOWSKA, MAGDALENA PIASECKA

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PRECHAMBER SELECTION FOR A TWO STAGE TURBULENT JET IGNITION TYPE COMBUSTION SYSTEM IN THE ASPECT OF THE THERMODYNAMIC AND EMISSION INDICATORS

IRENEUSZ PIELECHA, KRZYSZTOF WISŁOCKI, WOJCIECH CIEŚLIK, ŁUKASZ FIEDKIEWICZ

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EXPERIMENTAL INVESTIGATION OF THERMAL BRIDGES IN BUILDING AT REAL CONDITIONS

ROBERT SMUSZ, MICHAŁ KORZENIOWSKI

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INITIAL TESTS OF THE PROTOTYPICAL MICRO-COGENERATION SYSTEM WITH A 100 KW BIOMASS-FIRED BOILER

KRZYSZTOF SORNEK, WOJCIECH GORYL, MARIUSZ FILIPOWICZ, KATARZYNA NIEĆ

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AGH SOLAR BOAT – AN INTRODUCTION TO INNOVATIVE WATER-BASED ELECTRO-MOBILITY TECHNOLOGY

KRZYSZTOF SORNEK, MONIKA WOLNY, MACIEJ BOROWICZ, BARTOSZ PIENIAŻEK, KAROLINA STUCHŁY, MONIKA JAWAŃSKA, KATARZYNA UNGEHEUER

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THE STUDY ON THE EFFICIENCY OF A PHOTOVOLTAIC CELL WITH A SYSTEM OF SUPERCAPACITORS AND BATTERIES

DARIUSZ STRĄK, KINGA STRĄK, MAGDALENA PIASECKA

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ANALYSIS OF THE ENERGY EFFICIENCY OF A SELECTED WIND POWER PLANT

KAROL TUCKI, ANNA BĄCZYK, IZABELA WIELAWSKA, MICHAŁ PIĄTKOWSKI

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PRELIMINARY RESEARCH ON MASS/HEAT TRANSFER IN MINI HEAT EXCHANGER

JOANNA WILK, SEBASTIAN GROSICKI, KRZYSZTOF KIEDRZYŃSKI

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INCREASE OF THE POWER OF THE POWER PLANT WITH ONE-SINGLE ACTUATOR ORC WITH A WET WORKING FLUID, SUPPLIED WITH WATER IN THE RELEVANT PROPORTIONS FROM THE LOWER AND THE MIDDLE TRIASSIC RESERVOIR

SŁAWOMIR WIŚNIEWSKI, GABRIELA SOŁTYSIK, WŁADYSŁAW NOWAK

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THE INFLUENCE OF DESORPTION TEMPERATURE ON THE THERMODYNAMIC EFFICIENCY OF THE ADSORPTION HEAT PUMP

KATARZYNA ZWARYCZ-MAKLES

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DUAL-FUEL COMBUSTION IN A TANGENTIAL PC-FIRED BOILER OF TYPE OP-230 – COMPUTATIONAL SIMULATIONS

PRZEMYSŁAW MOTYL, JAN ŁACH

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MULTI-OBJECTIVE ANALYSIS OF AN INFLUENCE OF A GEOTHERMAL BRINE MINERALIZATION ON AN OPTIMAL EVAPORATION TEMPERATURE IN ORC POWER PLANT

MARCIN JANKOWSKI, SŁAWOMIR WIŚNIEWSKI, ALEKSANDRA BORSUKIEWICZ

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INCREASING ELECTRICAL POWER OUTPUT AND FUEL EFFICIENCY OF GAS ENGINES IN INTEGRATED ENERGY SYSTEM BY ABSORPTION CHILLER SCAVENGE AIR COOLING

ANDRII RADCHENKO, ANDRII KONOVALOV, YEVHENII SMOLIANOI

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IMPROVING THE EFFICIENCY OF GAS ENGINE EXHAUST HEAT TRANSFORMATION BY TWO-STAGE EJECTOR-ABSORPTION CHILLERS

ANDRII RADCHENKO, ROMAN RADCHENKO, OLEKSIY OSTAPENKO, ARTEM GRYCH

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MATHEMATICAL MODELING OF THE POLLUTION PROCESSES ON THE LOW-TEMPERATURE SURFACES OF EXHAUST GAS BOILERS WITH COMBUSTION OF WATER-FUEL EMULSION

MYKOLA RADCHENKO, ROMAN RADCHENKO, VICTORIYA KORNIENKO, DMYTRO KONOVALOV

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ENHANCING PERFORMANCE OF AIR CONDITIONING SYSTEM IN CURRENT CLIMATIC CONDITIONS

MYKOLA RADCHENKO, EUGENIY TRUSHLIAKOV, SERHIY KANTOR, VENIAMIN TKACHENKO

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GAS TURBINE UNITE INLET AIR COOLING BY USING AN EXCESSIVE REFRIGERATION CAPACITY OF ABSORPTION-EJECTOR CHILLER IN BOOSTER AIR COOLER

ROMAN RADCHENKO, BOHDAN PORTNOI, SERHIY KANTOR, ANATOLII ZUBAREV

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EFFECT OF AIR PARAMETERS, OF WATER TEMPERATURE, AND OF NUMBER OF POOL OCCUPANTS ON MOISTURE GAINS

AGNIESZKA GARNYSZ-RACHTAN, ZBIGNIEW ZAPĄLOWICZ

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THE RANGE OF UTILIZATION OF ORC POWER PLANT IN POWER STATIONS FED WITH LOW AND MEDIUM THERMAL SOURCES

TOMASZ KUJAWA, WŁADYSŁAW NOWAK

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PRELIMINARY ANALYSIS AND EVALUATION OF THE EFFECTS OF ENERGY MODERNIZATION OF HEAT DISTRICT NETWORK

TOMASZ KUJAWA, ALEKSANDER A. STACHEL

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ANALYSIS OF POSSIBILITY USE OF WASTE HEAT FROM THE MARINE ENGINE IN THE ORC POWER PLANT

RADOMIR KACZMAREK, ALEKSANDER STACHEL

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PRELIMINARY ASSESSMENT OF EFFICIENCY OF THE ORC POWER PLANT SUPPLIED BY HOT WATER GAINED FROM THE HDR SYSTEM

RADOMIR KACZMAREK, ALEKSANDER A. STACHEL

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SIMPLIFIED METHODOLOGY TO ESTIMATE THE EMISSIVITY FOR ROOF COVERS

ZBIGNIEW ZAPAŁOWICZ

4 września 2018 Wtorek; 4th September, Tuesday

SESJA PLENARNA 2 – PLENARY SESSION 2 (prezentacja w j. angielskim)

LASER INTERACTION WITH SOLIDS

ROMAN DOMAŃSKI

SESJA III – SESSION III (prezentacja w j. angielskim)

THE POTENTIALS OF METHANOL AS ENERGY STORAGE FOR EXCESSIVE WINDPOWER IN NORTH GERMANY

JOHANNES GULDEN, ANDREAS SKLAROW, THOMAS LUSCHTINETZ

ANALYSIS OF THERMAL AND ELECTRICAL EFFICIENCY OF PHOTOVOLTAIC/ THERMAL – PV/T MODULES OPERATING IN MODERATE CLIMATE AT MICROSCALE

DOROTA CHWIEDUK, JAROSŁAW BIGORAJSKI

MATHEMATICAL MODELLING OF THE MINICHANNEL EVAPORATOR AND CONDENSER WORKING IN THE ORGANIC RANKINE CYCLE

WITOLD RYBIŃSKI, JAROSŁAW MIKIELEWICZ

LABVIEW BASED MEASUREMENTS AND CONTROL SYSTEM OF A MICRO-ORC INSTALLATION WITH SCROLL EXPANDER

ALBRECHT EICKE, SŁAWOMIR SMOLEN

SESJA IV – SESSION IV (prezentacja w j. angielskim)

THERMAL CALCULATION OF HEAT EXCHANGERS WITH SIMPLIFIED CONSIDERATION OF AXIAL WALL HEAT CONDUCTION

WILFRIED ROETZEL, CHAKKRIT NA RANONG

EXPERIMENTAL INVESTIGATION OF FORCED CONVECTION OF WATER/EG-AL₂O₃ NANOFLUIDS INSIDE HORIZONTAL TUBE

JANUSZ T. CIEŚLIŃSKI, PRZEMYSŁAW KOZAK

SELECTED THERMAL AND FLOW ISSUES IN A REVERSED THERMOSIPHON WITH A STEAM LIQUID LIFTER

MICHAŁ KLUGMANN, PAWEŁ DĄBROWSKI, DARIUSZ MIKIELEWICZ

THE EFFECT OF REDUCED PRESSURE ON CARBON DIOXIDE FLOW BOILING HEAT TRANSFER IN MINICHANNELS

DARIUSZ MIKIELEWICZ, BLANKA JAKUBOWSKA

NUMERICAL MODELLING OF AIR-COOLER USING SIMPLIFIED METHODS

KAMIL ŚMIERCIEW, JERZY GAGAN, DARIUSZ BUTRYMOWICZ

EXPERIMENTAL INVESTIGATION ON INFLUENCE OF MICROCAPSULES WITH PCM ON PROPYLENE GLYCOL RHEOLOGICAL PROPERTIES

KRZYSZTOF DUTKOWSKI, JACEK JAN FIUK

5 września 2018 Środa; 5th September, Wednesday

SESJA V – SESSION V (prezentacja w j. angielskim)

THE STUDY ON THE HEAT RECOVERY FROM AIR COMPRESSORS

MARIUSZ BRONISZEWSKI, SEBASTIAN WERLE

INVESTIGATIONS OF PROTOTYPE EJECTION REFRIGERATION SYSTEM DRIVEN BY LOW GRADE HEAT

DARIUSZ BUTRYMOWICZ, JERZY GAGAN, KAMIL ŚMIERCIEW, MICHAŁ ŁUKASZUK, ADAM DUDAR, ANDRZEJ PAWLUCZUK, ADAM ŁAPIŃSKI, ADAM KURYŁOWICZ

TECHNICAL PROBLEM OF COMPRESSION UNITS OF MECHANICAL VAPOUR RECOMPRESSION SYSTEM

WŁADYSŁAW KRYŁŁOWICZ, KRZYSZTOF KANTYKA, WŁODZIMIERZ SZEWCZYK, PAWEŁ PEŁCZYŃSKI

INNOVATIVE HEAT PIPES AND THERMOSYPHONS FOR RENEWABLE SOURCES OF ENERGY APPLICATION

LEONARD VASILIEV, ALEXANDER ZHURAVLYOV

NON-FOURIER EFFECTS IN THE THERMAL PROTECTION AGAINST HIGH-POWER ULTRA-FAST LASER PULSES

MARCIN LENARCZYK, ROMAN DOMAŃSKI

THE POSSIBILITY OF ACHIEVEMENT OF THE NZEB STATE OF A DETACHED HOUSE POWERED BY RENEWABLE ENERGY SOURCES IN POLAND

JACEK BISKUPSKI

