



INVITATION FOR PARTICIPATION  
AND CALL FOR PAPERS

PERMANENT COMMITTEE of KONES - European  
AGH UNIVERSITY of SCIENCE and TECHNOLOGY Krakow  
INSTITUTE of AVIATION (Aeronautics) Warszawa

37<sup>th</sup>  
INTERNATIONAL SCIENTIFIC  
CONGRESS ON POWERTRAIN  
AND TRANSPORT MEANS

**EUROPEAN KONES**

Krakow, POLAND  
September 4 - 7, 2011

# PROGRAMME



Co-Organisers:

JAPAN SME-ESD  
POLISH ACADEMY OF SCIENCES COMMITTEE OF TRANSPORT  
AIR FORCE INSTITUTE OF TECHNOLOGY  
POLISH SOCIETY OF MECHANICAL ENGINEERS  
SITPH POLISH ASSOCIATION OF METALLURGICAL ENGINEERS  
AND TECHNICIANS  
SOCIETY OF AUTOMOTIVE ENGINEERS  
SCIENCE SOCIETY PTMK POLAND



**FISITA PATRONAGE**



## **Dear European KONES CONGRESS 2011 Participant,**

The first KONES Congress was organised in Karpacz – Wrocław – Warsaw in 1975 making it the longest established international conference on powertrain and transport means in Poland, Central and East Europe. Since 1975 the KONES has been organised by a different university together with Institute of Aeronautics, Permanent Committee of KONES and mostly Polish Academy of Sciences every year. Since 1977 the KONES Congresses have been organised as the International KONES Congresses and since 2005, after the ascension of Poland to the European Union, as the International European Congresses, and to the World – together with Japan SME – ESD. The KONES is representing Poland to FISITA.

The Congress KONES 2011 topics also include the problems of research, design and development for the different kinds of vehicles with a especial attention on new generation of vehicles, reliability and durability, servicing and maintenance, recycle engineering, safety, environment protection, air pollution control, as well human and nature ecology, law and social aspects of environment protection, simulation and modeling. The objects of the Congress are the problems of land, sea and air vehicles with a particular regard on connection with power train, ecology, safety, simulation and modeling.

Moreover the authors' of KONES 2011 will present papers related to achievements in research, development and design of both compression-ignition and spark-ignition as well as other combustion engines (hybrids) with special attention to bio-fuels, ecology, injection and spray, fuel economy, combustion processes, mixture preparation, exhaust after treatment, particulates filters, thermodynamics and heat transfer, noise and acoustics, durability and reliability, new experimental methods, new materials (composite) and production technologies.

KONES events have made a massive contribution to advancing research into aspects of power systems and transport. KONES has become a prestigious forum for exchanging technical thought and a place where many pressing civilizational issues find their solutions. The KONES Congress has always been a catalyst for progress in contemporary science and can be considered a pioneer in relation to power systems and transport.

The 37<sup>th</sup> edition of EUROPEAN KONES Congress 2011 will be held first time in Krakow, royal capital of Poland. Place to which both education and business and history and hospitable people are welcomed. Welcome at the AGH University of Science and Technology in Krakow. Welcome warmly at the Faculty of Mechanical Engineering and Robotics AGH UST.

We wish All of You the profitable Event, and unforgettable stay in Krakow.

With best regards,

*Janusz KOWAL, KONES'2011 IC Chairman, v-ce President of European KONES 2011  
Janusz SZPÝTKO, KONES'2011 IC co-Chairman, v-ce President of European KONES 2011*

Krakow, September 4, 2011

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## ORGANIZING COMMITTEE OF THE CONGRESS address

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## CONGRESS FEE

Congress regular fee includes: admission to all the Congress sessions, the congress proceedings, lunches, accommodation at the student campus of AGH UST (3 nights from 4.09.2011), refreshment breaks, welcome reception, gala dinner, dinner. Regular registrants are entitled to upload up to one final papers. The student registration fee includes access to technical sessions, conference proceedings, coffee breaks, opening and closing receptions. Additional papers may be uploaded under a further payment of € 150 each/ 600 PLN. Regular fee without accommodation at the student campus is reduced of € 40 / 160 PLN.

Category	till 14/06/2011	from 15/6/2011
Regular	€ 500/ 2000 PLN	€ 550/ 2200 PLN
Students	€ 250/ 1000 PLN	€ 300/ 1200 PLN
Acc. person	€ 250/ 1000 PLN	€ 300/ 1200 PLN
Paper only	€ 225/ 900 PLN	€ 225/ 900 PLN

## European KONES 2011 Programme - GENERAL

### September 4, 2011

15.00 - 19.00, reception, AGH UST, ul. Reymonta, bld. U2 - first floor

18.30 - 21.00, welcome reception and dinner, Restauracja MALECON, Pl.  
Na Groblach 22, 31-101 Krakow (see *invitation*)

### September 5, 2011

08.00 - 18.00, reception, AGH UST, ul. Reymonta, bld. U2 - first floor

09.00 - 09.40, opening ceremony, AGH UST, bld. U2 auditorium

09.40 - 11.10, plenary session (K1), bld. U2 auditorium

11.10 - 11.40, tea and coffee break, bld. U2, first floor

11.40 - 13.00, plenary session (K2), bld. U2 auditorium

13.00 - 15.00, lunch, FZPiT KRAKUS, ul. Reymonta 15, 30-059 Krakow,  
2nd floor (*invitation*)

15.00 - 16.55, regular sessions: R1 (bld. U2 auditorium), R2 (bld. U2,  
r.205), R3 (bld. B2, r.123)

17.00 - 18.20, plenary session (K3), bld. U2 auditorium

19.00 - 22.00, invited gala dinner, Grande Grill i Cafe Wierzynek, Rynek  
Główny 15, 31-008 Krakow (see *invitation*)

### September 6, 2011

08.30 - 17.00, reception, AGH UST, ul. Reymonta, bld. U2 - first floor

09.00 - 11.20, technical visits, labs of AGH UST WIMiR

11.30 - 13.00, poster session, AGH UST bld. B2, 2nd floor

13.00 - 15.00, lunch, KRAKUS, ul. Reymonta 15, 2nd floor (*invitation*)

15.00 - 16.30, poster sessions, bld. B2, 2nd floor

15.00 - 17.30, cultural visit, Jagiellonian Museum, ul. Jagiellonska 15,  
Krakow (*free entrance*)

19.00 - 22.00, invited dinner, Oranżeria – Pergamin, Al. Focha 39-42  
(Błonie Krakowskie), 30-119 Krakow (see *invitation*)

### September 7, 2011

08.00 - 13.00, reception, AGH UST, ul. Reymonta, bld. U2 - first floor

08.30, 09.30 - bus departures from AGH UST - the front of bld.U2

09.00 - 11.00, technical visits, CUT & Polish Aviation Museum Cracow,  
Al. J. Pawła II 39, 30-969 Krakow

09.30 - 11.30, regular sessions, bld.U2 – R4 (auditorium), R5 ( r.205)

10.10, 11.00 - bus departures from CUT to AGH UST

12.00 - 13.00, closing ceremony, bld. U2 auditorium

13.00 - 15.00, lunch, KRAKUS, ul. Reymonta 15, 1nd floor (*invitation*)

## TECHNICAL VISITS

### September 6, 2011

09.00 - 11.15, technical visits, selected labs of AGH UST FME&R (1<sup>st</sup> group – labs from no 1 till no 7; 2<sup>nd</sup> group – labs from no 7 till no 1) - coordinated by Piotr Malcharek (meeting points: bld.B2 hall 1 st floor – group 1, group 2 – bld. D1, first floor)

1. 09.00 - 09.20, mine laboratory, bld. B2, hall, 1st floor, prof. dr hab. inż. Antoni Kalukiewicz, tel. +48 12 617 3051
2. 09.25 - 09.45, active vibration control laboratory, bld. B-2, hall, 1st floor, dr inż. Jarosław Konieczny, tel. +48 12 617 3032
3. 09.50 - 10.00, engine laboratory, bld. B2-B3, 0 floor, prof. dr hab. inż. Marek Brzezanski, tel. +48 12 617 3115
4. 10.05 – 10.15, heat pump testing laboratory, bld. B2-B3, 0 floor, dr inż. Tadeusz Pajak, mgr Krzysztof Szczotka, tel. +48 12 6173079
5. 10.15 - 10.30, strength and fatigue of materials and structures, bld. B2-B3, 0 floor, prof. dr hab. inż. Stanisław Wolny, tel. +48 12 617 30 57
6. 10.35 - 10.55, anechoic and aftersound chambers laboratory, bld. D1, 1<sup>st</sup> floor, dr inż. Tadeusz Kamisinski, tel. +48 12 617 3517
7. 11.00 - 11.20, microrobots laboratory, bld. D-1, r. 20, prof. dr hab inż. Tadasz Uhl, tel. +48 12 617 3116

### September 7, 2011

08.30 (1<sup>st</sup> group), 09.30 (2<sup>nd</sup> group) - bus departures from AGH UST - coordinated by Barbara Worsztynowicz, meeting point the front of bld. U2 AGH UST

09.00 - 11.00, technical visits, CUT & Polish Aviation Museum Cracow, Al. J. Pawła II 39, 30-969 Krakow;

1. Laboratories of Department of Combustion Engines at PK Cracow University of Technology: spark ignition engines, compression ignition engines, engine fuels, emission toxic components of exhaust
2. Polish Aviation Museum Cracow, exposition of aircraft piston engines and flow engines

10.10 (1<sup>st</sup> group), 11.00 (2<sup>nd</sup> group) - bus departures from PK CUT



## European KONES 2011 Programme – DETAILED

### September 5, 2011

08.00 - 18.00, reception, AGH UST, ul. Reymonta, bld. U2 - first floor

09.00 - 09.30, opening ceremony, AGH UST, bld. U2, auditorium

09.00 - 09.10, welcome address, Prof. dr hab. inż. Antoni Tajdus, Rector of the AGH UST

09.10 - 09.15, welcome address, Janusz Kowal, Dean of the FME&R AGH

09.15 - 09.20, welcome address, Antoni Jankowski, European KONES President

09.20 - 09.40, concert

09.40 - 11.10, plenary session (**K1**), bld. U2, auditorium, chair J.Szpytko

09.40 - 10.10, The supply chain management and operations as key to future competitiveness for research, development and manufacture of new vehicles, Galarza Julen; ML Group, Bilbao, *Spain* (ID 381)

10.10 - 10.40, Combustion characteristics for small diesel engine by using emulsified blend fuels of vegetable oil and light oil, Kawakami Tadashige; Hosei University, Tokyo, *Japan* (ID 324)

10.40 – 11.10, The Institute of Aviation Warsaw – unconventional way to success achievement, Wisniowski Witold; Institute of Aviation Warsaw, *Poland* (ID 396)

11.10 - 11.40, tea and coffee break, bld. U2, first floor

11.40 - 13.00, plenary session (**K2**), bld. U2, auditor., chair A. Jankowski

11.40 – 12.05, Multibody dynamic stability analysis of a diesel-hydraulic locomotive, Andi I. Mahyuddin, Aditya N. Febriartanto; Institut Teknologi Bandung, Bandung, *Indonesia*; Athur Akbar, Yunendar A. Handoko; Indonesia Rollingstock Industry, Madiun, *Indonesia* (ID 210)

12.05 – 12.30, The influence of intensity of charge air intercooling on diesel engine gas, Vladimir Hlavna, Andrej Kovalcik, Jozef Krakovsky, Robert Labuda; Univerzity of Zilina, Zilina, *Slovakia* (ID 236)

- 12.30 – 12.50, Engineering challenges on the Faculty of Mechanical Engineering and Robotics AGH UST example, Janusz Kowal; AGH University of Science and Technology, Krakow, *Poland* (ID 398)
- 12.50 – 13.00, General information about European Kones 2011 Congress, Janusz Szpytko
- 13.00 - 15.00, lunch, FZPiT KRAKUS, ul. Reymonta 15, 30-059 Kraków, 2nd floor (*invitation*)
- 15.00 - 16.55, regular sessions (**R1**), bld. U2: auditorium (1rd floor) - UNESCO Workshop, chairs: J. Lis, J.Szpytko
- 15.00 – 15.15, Exhaust gases measurement preparation, Emil Toporcer, Univerzity of Zilina, Zilina, *Slovakia* (ID 237)
- 15.15 – 15.30, Computer modeling of energy absorbing capability of bus superstructure for rollover safety, Indera Nurhadi, Rais Zain, Sandro Mihradi; Institut Teknologi Bandung, Bandung, *Indonesia*; Kyaw Soe Oo, Government Technical Institute, Mandalay, *Myanmar* (ID 208)
- 15.30 – 15.45, Suitable multi criteria decision analysis tool for selecting municipal solid waste treatment in the city of Bandung, Sigit Yoewono Martowibowo, Hendi Riyanto; Institut Teknologi Bandung, Bandung, *Indonesia* (ID 188)
- 15.45 – 16.00, Development of integrated product model for supporting production monitoring system on an automobile assembly industry, Raharno Sri, Martawirya Yatna Tuwana; Bandung Institute of Technology, Bandung, *Indonesia* (ID 232)
- 16.00 – 16.15, Dependability shaping approach of devices used in production process, Szpytko Janusz, Gliwinski Marcin, AGH UST, Krakow, *Poland* (ID 354, ID 386)
- 16.15 – 16.30, Development of industry-oriented master degree program in mechanical engineering at Institut Teknologi Bandung: lessons learned, Sigit Yoewono Martowibowo, Indra Nurhadi; Institut Teknologi Bandung, Bandung, *Indonesia* (182)
- 16.30 – 16.40, UNESCO AGH UST Chair, Janusz Szpytko, AGH UST, Krakow, *Poland*
- 16.40 – 16.55, discussion

15.00 - 16.55, regular sessions (**R2**), bld. U2: r.205 (3rd floor), chairs: M. Brzezanski, A. Kovalcik

- 15.00 – 15.15, Analysis of diagnostic utility of torque and rotational speed fluctuation of propulsion shaft of a vessel; Dereszewski Mirosław, Polanowski Stanisław, Charchalis Adam (ID 215)
- 15.15 – 15.30, emissions from marine engines versus IMO certification and requirements of TIER 3, Herdzik Jerzy (ID 159)
- 15.30 – 15.45, Diesel engines with respect to EURO 6 and BIN5/LEV II emission limits, Brzezanski Marek (ID 355)
- 15.45 – 16.00, Analysis of the engine fuels impact on carbon dioxide emissions, Worsztynowicz Barbara (ID 342)
- 16.00 – 16.15, LNG as a marine fuel - possibilities and problems, Herdzik Jerzy (ID 167)
- 16.15 – 16.30, Measurement of non used microbearing occurring in computer hdd seagate barracuda, Wierzcholski Krzysztof, Miszczak Andrzej, Khudoley Andrei (ID 171)
- 16.30 – 16.45, Measurement of non used microbearing grooved surfaces for computer ventilator XILENCE case fan, Wierzcholski Krzysztof, Miszczak Andrzej, Khudoley Andrei (ID 172)

15.00 - 16.55, regular sessions (**R3**), bld. B2: r.123 (2rd floor), chairs: M. Hryniewicz, W.Galor

- 15.00 - 15.20, Passing beam visibility distance - technical possibilities, legal requirements and road safety, Targosinski Tomasz (ID 274)
- 15.20 – 15.40, Assessment of visibility on pedestrian crossing - computational model, Tomczuk Piotr (ID 152)
- 15.40 – 16.00, Estimation of the intelligent camera computing power for the real-time image preprocessing; Szpytko Janusz, Hyla Paweł (ID 220)
- 16.00 – 16.20, Proposal of lighting requirements for lighting devices in adaptive front lighting system of tram's head lights, Stypulkowski Krzysztof (ID 272)
- 16.20 – 16.40, Finite element method in car compatibility phenomena, Lisiecki Marcin (ID 187)
- 16.40 – 17.00, Logical network design of microbearing system, Wierzcholski Krzysztof (ID 157)

- 17.00 - 18.20, plenary session (**K3**), bld. U2 auditorium, chair J. Zurek
- 17.00 – 17.20, The plane technical condition on-line monitoring approach based on the military training aircraft example, Szczepanik Ryszard; Air Force Institute of Technology, Warsaw, Poland (ID 397)
- 17.20 – 17.40, Effect of butanol blend on in-cylinder combustion process, Cinzia Tornatore; Istituto Motori – CNR, Napoli, *Italy* (ID 164, ID 165)
- 17.40 – 18.00, Detonation engines, Wolanski Piotr, Warsaw University of Technology, Warsaw, *Poland* (ID 344)
- 18.00 – 18.20, Automotive mechatronics: operational and practical issues, Bogdan T. Fijalkowski, Cracow University of Technology, Krakow, *Poland* (ID 399)
- 19.00 - 22.00, invited gala dinner, Grande Grill i Cafe Wierzynek, Rynek Gł. 15, 31-008 Kraków (see *invitation*)

### September 6, 2011

- 08.30 - 17.00, reception, AGH UST, ul. Reymonta, bld. U2 - first floor
- 09.00 - 11.20, technical visits, labs of AGH UST WIMiR (for details see page TECHNICAL VISITS)
- 11.30 - 13.00, poster session, AGH UST bld. B2, 2nd floor
- 11.30 - 13.00, poster sessions (**P1**, **P2**), bld. B2, r.101 (2rd floor), chairs: Z. Smalko, J. Zurek
- 11.30 – 12.05, poster sessions (**P1**), bld. B2, r.101 (2rd floor),
1. Lezanski Tomasz, Seczyk Janusz, Wolanski Piotr: RESEARCH OF FLAME PROPAGATION IN COMBUSTION SYSTEM WITH SEMI - OPEN COMBUSTION CHAMBER FOR GASOLINE SI ENGINES, ID 323 (P1)

2. Baranowski Pawel, Malachowski Jerzy: BLAST WAVE AND SUSPENSION SYSTEM INTERACTION - NUMERICAL APPROACH, ID 178 (P1)
3. Baszanowska Emilia, Otremba Zbigniew, Rohde Peter, Zielinski Oliver: ADOPTION OF THE TIME RESOLVED FLUORESCENCE TO OIL TYPE IDENTIFICATION, ID 239 (P1)
4. Bednarz Jaroslaw, Targosz Jan: FINITE ELEMENTS METHOD IN ANALYSIS OF PROPAGATION OF VIBRATIONS WAVE IN THE SOIL, ID 328 (P1)
5. Bieniek Andrzej: CONCEPTION OF CYLINDER PRESSURE BASED DIESEL INJECTION CONTROL SYSTEM, ID 337 (P1)
6. Bieniek Andrzej, Graba Mariusz, Lechowicz Andrzej: ADAPTIVE CONTROL OF EXHAUST GAS RECIRCULATION AT NONROAD VEHICLE DIESEL ENGINE, ID 150 (P1)
7. Bojar Piotr, Woropay Maciej, Migawa Klaudiusz, Szubartowski Miroslaw: ANALYSIS OF COSTS OF REPAIRS OF UNDESIRABLE EVENTS OCCURRING IN A MUNICIPAL BUS TRANSPORTATION SYSTEM, ID 347 (P1)
8. Bojar Piotr, Woropay Maciej, Migawa Klaudiusz, Szubartowski Miroslaw, Muślewski Łukasz: TRANSPORT RULES AND ASSESSMENT OF THREATS CONNECTED WITH TRANSPORT OF HAZARDOUS MATERIALS BY TRAIN, ID 350 (P1)
9. Borkowski Tadeusz, Kasyk Lech, Kowalak Przemyslaw: ASSESSMENT OF SHIP'S ENGINE EFFECTIVE POWER, FUEL CONSUMPTION AND EMISSION USING THE VESSEL SPEED, ID 212 (P1)
10. Borkowski Tadeusz, Kowalak Przemyslaw, Marcinek Marcin, Bonislowski Michal: COMBUSTION PRESSURE APPRAISALIN MARINE DIESEL ENGINE, ID 261 (P1)
11. Boruta Grzegorz, Imiolek Maciej, Jasinski Marcin: IDENTIFICATION OF COMPONENTS OF VIBRATION SIGNAL FROM THE HATZ 1B40 ENGINE, ID 298 (P1)
12. Budzik Grzegorz, Sobolak Mariusz, Kozik Bogdan, Sobolewski Bartłomiej: A DEMONSTRATIVE PROTOTYPE OF AERONAUTICAL DUAL - POWER PATH GEAR UNIT, ID 265 (P1)
13. Charchalis Adam, Czyż Stefan: ANALYSIS OF FIRE HAZARD AND SAFETY REQUIREMENTS OF A SEA VESSEL ENGINE ROOMS, ID 158 (P1)

14. Charchalis Adam, Czyż Stefan: ANALYSIS METHOD OF FIRE HAZARD OF FUEL OIL AND DIESEL OIL SYSTEMS IN SEA VESSELS ENGINE ROOMS, ID 168 (P1)
15. Chlus Karol, Krason Wiesław: DYNAMIC ANALYSIS OF RAILWAY PLATFORM CHASSIS MODEL, ID 222 (P1)
16. Chraplewska Natalia, Duda Kamil: ETHYL AND METHYL ESTERS PRODUCTION FIELD ESTERIFICATION PLANT, ID 275 (P1)

12.25 – 13.00, poster sessions (P2), bld. B2, r.101 (2rd floor)

1. Chraplewska Natalia, Duda Kamil, Meus Milosz: EVALUATION OF USAGE BROWN GAS GENERATOR FOR AIDED ADMISSION OF DIESEL ENGINE WITH FERMENTATIVE BIOGAS AND PRODUCER GAS, ID 273 (P2)
2. Coban Huseyin, Harrison David K., De Silva Anjali K. M.: A NOVEL TECHNIQUE FOR DRIVELINE ASSEMBLY APPLICATIONS, ID 383 (P2)
3. Cuper Dominika, Lutowicz Marek: INFLUENCE OF INDICATOR VALVE CHANNEL UNTIGHTENS AND LOSS OF PATENCY ON THE PARAMETERS VALUES IMAGE OBTAINED FROM INDICATOR DIAGRAM, ID 305 (P2)
4. Czaban Adam, Miszczak Andrzej: SURFACE TOPOGRAPHY OF NON-OPERATED SLIDE JOURNAL MICRO - BEARINGS, ID 233 (P2)
5. Czerwinski Jan, Stepień Zbigniew, Andersen Otto, Oleksiak Stanisław: INFLUENCES OF BIOCOMPONENTS (RME) ON REGENERATIONS OF DIESEL PARTICLE FILTERS, ID 349 (P2)
6. Domagała Mariusz, Lisowski Edward: IINTERACTION OF LIQUID MOTION ON MOBILE TANK STRUCTURE, ID 199 (P2)
7. Drogosz Piotr: TRAJECTORY OF THE APEX SEALS OF THE WANKEL ROTARY ENGINE, ID 200 (P2)
8. Drogosz Piotr: TRAJECTORY OF THE APEX SEALS OF THE WANKEL ROTARY ENGINE, ID 268 (P2)
9. Drogosz Piotr, Nitkiewicz Szymon, Pietak Andrzej: THE SELECTION OF STIRLING ENGINES APPLIED TO COGENERATION SYSTEMS, ID 271 (P2)
10. Dudzik Krzysztof: MECHANICAL PROPERTIES OF 5083, 5059 AND 7020 ALUMINIUM ALLOYS AND THEIR JOINTS WELDED BY MIG, ID 213 (P2)
11. Dyl Tomasz: THE BURNISHING STRENGTHEN SHAFTS NECK OF CENTRIFUGAL PUMPS, ID 247 (P2)

12. Filipczyk Jan, Kutrzyk - Nykiel Aleksandra: THE RELATION BETWEEN THE TECHNICAL STATE AND THE EXHAUST GASSES EMISSION FOR A GROUP OF PARTICULAR VEHICLE AGE ID 223 (P2)
13. Filipek Przemyslaw, Jedlinski Lukasz, Kaminski Tomasz: DESIGN OF ON-LINE DRIVER ASSISTANCE SATELITE OBSERVATION SYSTEM (SOS), ID 218 (P2)
14. Filipek Przemyslaw, Kaminski Tomasz: REMOTE CONTROLLED MOBILE INSPECTION ROBOT, ID 216 (P2)
15. Frycz Marcin, Miszczak Andrzej: DISTRIBUTION OF HYDRODYNAMIC PRESSURE IN THE INTERSPACE OF LATERAL SLIDING BEARINGS LUBRICATED BY FERROFLUID WITH DIFFERENT CONCENTRATIONS OF MAGNETIC PARTICLES, ID 234 (P2)
16. Frycz Marcin, Miszczak Andrzej: THE FRICTION FORCE AND FRICTION COEFFICIENT IN THE JOURNAL SLIDING BEARING FERROFLUID LUBRICATED WITH DIFFERENT CONCENTRATIONS OF MAGNETIC PARTICLES, ID 235 (P2)
17. Starosta Robert: TEXTURE OF SURFACE OF COATINGS OBTAINED USING THE Casto-Dyn 8000, TORCH, AFTER BURNISHING TREATMENT, ID 257 (P2)

11.30 - 13.00, poster sessions (**P3, P4**), bld. B2, r.119 (2rd floor), chairs:  
M. Woropay, E. Budny

11.30 – 12.05, poster sessions (**P3**), bld. B2, r.119 (2rd floor)

1. Galor Wieslaw, Galor Anna: OVERSIZE CARGO TRANSPORT IN THE POLISH PART OF SOUTH BALTIC REGION, ID 329 (P3)
2. Gis Wojciech, Zoltowski Andrzej, Bochenska Anna: PROPERTIES OF THE RAPESEED OIL METHYL ESTERS AND COMPARING THEM WITH THE DIESEL OIL PROPERTIES, ID 293 (P3)
3. Gis Wojciech, Zoltowski Andrzej, Taubert Slawomir: THE IMPACT OF ENGINE COOLING FAN CONFIGURATION ON THE EMISSION OF POLLUTANTS BY VEHICLE EXHAUST SYSTEMS IN CHASSIS DYNAMOMETER TESTS, ID 276 (P3)
4. Grzadzila Andrzej: SHIP IMPACT MODELING OF UNDERWATER EXPLOSION, ID 184 (P3)

5. Gut Zbigniew, Wolanski Piotr, Oleszczak Pawel: MONITORING OF COMBUSTION PROCESSES IN INDUSTRIAL BURNERS USING ELECTRICAL CAPACITANCE TOMOGRAPHY, ID 345 (P3)
6. Gutkowski Artur: INFLUENCE OF NUMBER OF STEP REACTIONS ON FLAME PARAMETERS UNDER QUENCHING CONDITIONS, ID 170 (P3)
7. Imiolek Maciej, Pietak Andrzej, Smieja Michal, Wierzbicki Slawomir: CHOICE OF A PILOT DOSE IN DUAL FUEL SELF-IGNITION ENGINE OF A GENERATOR, DEPENDING ON ITS LOAD, ID 326 (P3)
8. Iskra Antoni: REDUCTION OF VIBRATIONS GENERATED BY A VARIABLE TORQUE IN 5-CYLINDER IN-LINE ENGINES, ID 262 (P3)
9. Iskra Antoni, Babiak Maciej, Kaluzny Jaroslaw: RELATION OF MOTION RESISTANCE TORQUE AND FRICTION TORQUE IN THE FOUR STROKE ENGINE, ID 292 (P3)
10. Jankowska - Sieminska Barbara: SOME PROBLEMS PISTONS MADE FROM COMPOSITE MATERIALS WITH SMALL HYSTERESIS TO COMBUSTION ENGINES, ID 387 (P3)
11. Jankowski Antoni: REDUCTION EMISSION LEVEL OF HARMFUL COMPONENTS EXHAUST GASES BY MEANS OF CONTROL OF PARAMETERS INFLUENCING ON SPRAYING PROCESS OF BIOFUEL COMPONENTS FOR AIRCRAFT ENGINES, ID 388 (P3)
12. Jankowski Antoni, Slezak Marcin: SOME ASPECTS OF ON BOARD DIAGNOSTICS SYSTEMS (OBD) IN POLAND, ID 389 (P3)
13. Jastrzebski Grzegorz, Ulanowicz Leszek: EXPERIMENTAL METHOD OF DETERMINING CHARACTERISTICS OF POWER AND TORQUE ENGINE FOR LOW-POWER UNMANNED AERIAL VEHICLES, ID 231 (P3)
14. Jaskiewicz Marek, Ludwinek Krzysztof, Staszak Janusz, Suliga Tomasz: POSSIBILITIES OF GRAPHICAL ENVIRONMENT APPLICATION FOR DETERMINING PARAMETERS OF THE MECHANICAL SYSTEM, ID 315 (P3)
15. Juda Zdzislaw: ADVANCED BATTERIES AND SUPER-CAPACITORS FOR ELECTRIC VEHICLE PROPULSION SYSTEMS WITH KINETIC ENERGY RECOVERY, ID 321 (P3)
16. Kalina Piotr, Irzycki Andrzej, Snopkiewicz Krzysztof, Wodynski Piotr: INVESTIGATION OF BLADE PISTON COMPRESSOR, ID 153 (P3)



12.25 – 13.00, poster sessions (P4), bld. B2, r.119 (2rd floor)

1. Kaminski Tomasz, Kruszewski Mikołaj, Niezgoda Michał: RESEARCH STAND FOR TESTING THE ON-BOARD eCALL DEVICE, ID 202 (P4)
2. Kaminski Tomasz, Kruszewski Mikołaj, Niezgoda Michał, Gacparska – Stolek Joanna, Grzeszczyk Rafał: TELEMATIC SECURITY SYSTEM FOR CASH TRANSPORT VEHICLE, ID 203 (P4)
3. Kaminski Tomasz, Niezgoda Michał, Gacparska - Stolek Joanna, Grzeszczyk Rafał, Filipek Przemysław: ADVANCED CAR DRIVING SIMULATOR – AS 1200-6, ID 204 (P4)
4. Kaminski Tomasz, Ucinska Monika, Kaminska Ewa, Filipek Przemysław: EFFECT ANALYSIS ON THE IMPLEMENTATION OF AUTOMATIC EMERGENCY CALL SYSTEM eCALL, ID 205 (P4)
5. Knefel Tomasz: THE EVALUATION OF THE CHARACTERISTIC INJECTION TIMES OF A MULTIPLE FUEL DOSE, ID 317 (P4)
6. Kosiuczenko Krzysztof, Niezgoda Tadeusz, Barnat Wiesław, Panowicz Robert: NUMERICAL SIMULATION OF BLAST RESISTANT STEEL PLATE STRENGTHENED WITH COMPOSITE, ID 181 (P4)
7. Kosiuczenko Krzysztof, Niezgoda Tadeusz, Barnat Tadeusz, Panowicz Robert: NUMERICAL SIMULATION OF BLAST RESISTANT STEEL PLATE STRENGTHENED WITH COMPOSITE, ID 280 (P4)
8. Koszalka Grzegorz, Debski Hubert, Dziurka Marek, Kaczor Maciej: DESIGN OF A FRAME TO A SEMI LOW-LOADER, ID 307 (P4)
9. Kowalski Damian, Bieniek Andrzej, Bról Sebastian: IRREGULARITY OF ROTATIONAL SPEED OF DIESEL ENGINE WITH MODIFIED FUEL INJECTION SYSTEM, ID 339 (P4)
10. Kozik Bogdan: AN ANALYSIS OF CRITERION FOR CHOOSING CONSTRUCTIONAL SOLUTIONS FOR AERONAUTICAL MULTI - POWER PATH GEAR UNITS, ID 264 (P4)
11. Krasowski Paweł: VELOCITY DISTRIBUTION IN SLIDE JOURNAL BEARING GAP BY LAMINAR UNSTEADY LUBRICATION, ID 287 (P4)
12. Krasowski Paweł: PRESSURE AND VELOCITY DISTRIBUTION IN SLIDE JOURNAL BEARING LUBRICATED MICROPOLAR OIL, ID 289 (P4)

13. Kyziol Leslaw, Czapczyk Kazimierz: THE ANALYSIS OF THE PARAMETERS OF THE MATERIALS USED FOR ANTITERRORIST SAFETY SHIELDS IN MARINE VESSELS, ID 266 (P4)
14. Labuda Wojciech, Starosta Robert, Charchalis Adam: THE ANALYSIS OF THE INFLUENCE OF THE BURNISHING PROCESS ON CORROSION PROPERTIES OF STEEL APPLIED TO SEA WATER PUMP SHAFTS, ID 252 (P4)
15. Lisowski Edward, Czyzycki Wojciech: TRANSPORT AND STORAGE OF LNG IN CONTAINER TANKS, ID 226 (P4)
16. Lisowski Edward, Filo Grzegorz: PRESSURE CONTROL IN AIR CUSHIONS OF THE MOBILE PLATFORM, ID 224 (P4)

13.00 - 15.00, lunch, KRAKUS, ul. Reymonta 15, 2nd floor (*invitation*)

15.00 - 17.30, cultural visit, Jagiellonian Museum, ul. Jagiellonska 15, 31-010 Krakow (*free entrance*)

15.00 - 16.30, poster sessions, bld. B2, 2nd floor

15.00 - 16.30, poster sessions (**P5**, **P6**), bld. B2, r.101 (2nd floor), chairs: S. Radkowski, W. Grzesikiewicz

15.00 – 15.35, poster sessions (**P5**), bld. B2, r.101 (2nd floor)

1. Listewnik Karol, Polanowski Stanislaw, Dereszewski Miroslaw, Zukowski Jerzy: PRELIMINARY EVALUATION OF EFFECTIVE VIBRATION ANALYSIS FOR THE FAULT DIAGNOSIS OF NATURAL GAS ENGINE-DRIVEN COMPRESSOR, ID 254 (P5)
2. Lubas Janusz: TRIBOLOGICAL CHARACTERISTICS OF THE SURFACE LAYER OF STEEL MODIFIED WITH BORON UNDER MIXED FRICTION CONDITIONS, ID 163 (P5)
3. Lus Tomasz: VIBRO-ACOUSTIC METHODS IN MARINE DIESEL ENGINES DIAGNOSTICS, ID 267 (P5)
4. Lukjanow Slawomir, Tokarzewski Jerzy: METHODS OF INVESTIGATION OF ROAD VEHICLES IN CONTEXT OF IMMUNITY TO ELECTROMAGNETIC FIELD, ID 327 (P5)

5. Majerczyk Adam: TECHNICAL REQUIREMENTS AND METHODS OF TESTING RETROFIT LPG SYSTEMS FOR MOTOR VEHICLES, IN ACCORDANCE WITH THE UN / ECE 115 REGULATION, ID 299 (P5)
6. Makowski Michal, Knap Lech, Grzesikiewicz Wieslaw: VIBRATION INVESTIGATION OF VEHICLE EQUIPED WITH CONTROLLED PIEZOELECTRIC DAMPERS, ID 303 (P5)
7. Mamala Jaroslaw, Brol Sebastian, Bieniek Andrzej: THE SYSTEM FOR ESTIMATION PARAMETERS OF INTERNAL COMBUSTION ENGINE IN THE ROAD TEST, ID 338 (P5)
8. Marciniak Adam, Budzik Grzegorz, Dziubek Tomasz: AUTOMATED MEASUREMENT OF BEVEL GEARS OF THE AIRCRAFT GEARBOX USING GOM, ID 263 (P5)
9. Marczuk Andrzej, Misztal Wojciech: OPTIMUM PLANNING OF CONNECTIONS BETWEEN SUPPLIERS AND RECEIVERS UNDER CIRCUMSTANCES OF DEMAND - SUPPLY IMBALANCE AND EXISTING RESTRAINTS, ID 296 (P5)
10. Marczuk Andrzej, Misztal Wojciech: EVALUATING THE EFFICIENCY OF CONTINUOUS HANDLING MEANS, ID 297 (P5)
11. Mazurkiewicz Lukasz, Malachowski Jerzy: I-BEAM STRUCTURE UNDER BLAST LOADING – EULERIAN MESH DENSITY STUDY, ID 177 (P5)
12. Miedzinska Danuta, Niezgoda Tadeusz: NUMERICAL CALCULATIONS OF RVE DIMENSIONS FOR TWO - PHASE MATERIAL, ID 219 (P5)
13. Mlynarczyk Andrzej: THE INFLUENCE OF OIL REFILLING STRATEGY ON THE AMOUNT OF OIL IN TRUNK PISTON MARINE DIESEL ENGINE LUBRICATING SYSTEM, ID 214 (P5)
14. Molenda Justyna, Barylski Adam: DETERMINING THE CONDITIONS FOR TEMPERATURE MEASUREMENTS DURING FLAT LAPPING, ID 207 (P5)
15. Muslewski Lukasz, Bojar Piotr, Szubartowski Miroslaw: ANALYSIS OF INTERMODE CONNECTIONS IN TERMS OF TRANSPORT SYSTEM DEVELOPMENT IN POLAND, ID 346 (P5)
16. Muslewski Lukasz, Woropay Maciej, Neubauer Andrzej, Szubartowski Miroslaw: METHOD FOR ASSESSMENT OF TRANSPORT MEANS FAILURES REPAIRS, ID 309 (P5)

15.55 – 16.30, poster sessions (P6), bld. B2, r.101 (2rd floor)

1. Myskow Jaroslaw, Borkowski Tadeusz, Bludszweit Mark, Froehlingsdorf Werner: MARINE ENGINE EXHAUST GAS EMISSION AFTER TREATMENT SYSTEM CONCEPT, ID 211 (P6)
2. Nowacki Gabriel: POLISH RESEARCHES ON ELECTRONIC TOLL COLLECTION, ID 149 (P6)
3. Nowakowski Mirosław: FLIGHT TESTS OF UPGRADED HELICOPTERS, ID 306 (P6)
4. Otremba Zbigniew, Baszanowska Emilia, Toczek Henryk, Rohde Peter: SPECTROFLUORYMETRY IN APPLICATION TO OIL – IN - WATER EMULSION CHARACTERIZATION, ID 190 (P6)
5. Otremba Zbigniew, Toczek Henryk: OPTICAL PROPERTIES OF FUELS AND LUBRICANTS VS. AQUATIC ENVIRONMENT PROTECTION ISSUES, ID 278 (P6)
6. Pajak Michal: TYPES OF THE STATE SPACE OF COMPLEX TECHNICAL SYSTEMS, ID 173 (P6)
7. Panowicz Robert, Sybilski Kamil, Kolodziejczyk Damian, Niezgoda Tadeusz, Barnat Wieslaw: NUMERICAL ANALYSIS OF EFFECTS OF IED SIDE EXPLOSION ON CREW OF LIGHTARMoured WHEELED VEHICLE, ID 230 (P6)
8. Panowicz Robert, Sybilski Kamil, Kolodziejczyk Damian, Niezgoda Tadeusz, Barnat Wieslaw: NUMERICAL - EXPERIMENTAL RESEARCH ON DYNAMIC RESPONSE OF RPG MISSILE INITIATIVE SYSTEM ON DYNAMIC INTERACTION, ID 244 (P6)
9. Parczewski Krzysztof: EXPLORATION OF THE SHOCK - ABSORBER DAMAGE INFLUENCE ON THE STEERABILITY AND STABILITY OF THE CAR MOTION, ID 288 (P6)
10. Perkowski Witold, Irzycki Andrzej, Snopkiewicz Krzysztof, Grudzien Lukasz, Kawalec Michal: STUDY ON KEROSENE ATOMIZATION PROCESS UNDER A HIGH SPEED AIR STREAM, ID 189 (P6)
11. Pietraszek Jacek, Lisowski Edward: IDENTIFICATION OF VIRTUAL COMPUTATIONAL OBJECT'S PROPERTIES BY USING OF SCREENING DESIGNS, ID 246 (P6)
12. Pietraszek Jacek, Lisowski Edward: IDENTIFICATION OF VIRTUAL COMPUTATIONAL OBJECT'S PROPERTIES BY USING OF SCREENING DESIGNS, ID 248 (P6)

13. Pietak Andrzej, Imiolek Maciej, Imiolek Anna: CONCEPT OF A MULTI-FUEL, LOW-POWER GENERATOR WITH A SELF - IGNITION, COMMON RAIL GAS ENGINE, ID 270 (P6)
14. Pietak Andrzej, Radkowski Stanislaw: BIOFUELS - OPPORTUNITIES AND CHALLENGES, ID 340 (P6)
15. Pietak Andrzej, Radkowski Stanislaw: METHANE – A FUEL FOR AGRICULTURE, ID 341 (P6)
16. Pojawa Bogdan, Holdowska Malgorzata: DETERMINATION OF OPERATING CHARACTERISTICS OF NAVAL GAS TURBINES LM2500, ID 301 (P6)

15.00 - 16.30, poster sessions (**P7, P8**), bld. B2, r.119 (2rd floor), chairs:  
T. Niezgodna, A. Niewczas

15.00 – 15.35, poster sessions (**P7**), bld. B2, r.119 (2rd floor)

1. Polanowski Stanislaw, Pawletko Rafal: ACQUISITION OF DIAGNOSTIC INFORMATION FROM THE INDICATOR DIAGRAMS OF MARINE ENGINES USING THE ELECTRONIC INDICATORS, ID 227 (P7)
2. Polanowski Stanislaw, Pawletko Rafal: INFLUENCE OF TDC DETERMINATION METHODS ON MEAN INDICATED PRESSURE ERRORS IN MARINE DIESEL ENGINES, ID 242 (P7)
3. Prajowski Konrad: POSSIBILITIES OF CHANGES OF PARAMETERS OF THE DRIVER TOENGINE FIAT 1.3 JTD PERFORMANCES, ID 169 (P7)
4. Rapinski Jacek, Smieja Michal: PSEUDOLITE AUGMENTED NAVIGATION FOR AUTOMOTIVE APPLICATION, ID 325 (P7)
5. Roslanowski Janusz, Charchalis Adam: OPERATION OF DIESEL ENGINE IN DIRECT SHIP PROPULSION, ID 192 (P7)
6. Rostek Ewa, Biernat Krzysztof: THERMOGRAVIMETRIC BIOMASS-TO-LIQUID PROCESSES, ID 175 (P7)
7. Rudz Kamila: EMULSIFIED FUELS OF MACHINE ORIGIN IN SEAWATER – A CONTRIBUTE TO REMOTE DETECTION, ID 198 (P7)
8. Rychter Marcin: FUNCTIONING OF DIGITAL TACHOGRAPH SYSTEM IN THE LIGHT OF THE LEVEL OF IT IMPLEMENTATION AND INTRODUCTION DIGITAL TACHOGRAPH THE SECOND GENERATION, ID 193 (P7)

9. Sendyka Bronislaw, Mitianiec Wladyslaw, Noga Marcin: SIMULATION OF EXHAUST GASES COMPONENTS FORMATION IN ENGINE WORKING WITH COMBUSTION INITIATION FROM IGNITION DOSE OF FUEL, ID 351 (P7)
10. Sendyka Bronislaw, Mitianiec Wladyslaw, Noga Marcin: SIMULATION OF WORK OF AN ENGINE WORKING WITH COMBUSTION INITIATION FROM IGNITION DOSE OF FUEL, ID 352 (P7)
11. Sendyka Bronislaw, Noga Marcin: TEST BED STUDIES OF AN ENGINE WITH COMBUSTION INITIATION FROM IGNITION DOSE OF FUEL, ID 353 (P7)
12. Serdecki Wojciech, Krzymien Piotr: DEPENDENCE OF PISTON RING PARAMETERS DETERMINATION ACCURACY ON THE METHOD OF CALCULATION, ID 217 (P7)
13. Siczek Krzysztof: THE MAGNETICALLY LOADED NONCONTACT COUPLE BETWEEN VALVE TIP AND SURFACE OF CAM FOLLOWER OR ROCKER ARM, ID 155 (P7)
14. Sitnik Lech, Magdziak – Toklowicz Monika, Wrobel Radoslaw: COMPARATIVE ANALYSIS OF THE VIBRATIONS OF A DIFFRENT KIND OF ENGINE MOUNTED IN THE SAME NEW MOTOR VEHICLES, ID 332 (P7)
15. Skorupka Zbigniew, Kajka Rafal, Kowalski Wojciech: ARMOURED VEHICLES BRAKES TESTS, ID 282 (P7)
16. Stanik Zbigniew, Warczek Jan: APPLICATION OF VIBRATION SIGNALS IN THE DIAGNOSIS OF COMBUSTION ENGINES – EXPLOITATION PRACTICES, ID 300 (P7)
17. Jankowski Antoni, Slezak Marcin, ON BOARD DIAGNOSTICS (OBD) RESEARCH IN CONDITIONS OF CHASSIS DYNAMOMETER AND ROAD TESTS, ID 400 (P7)

15.55 – 16.30, poster sessions (**P8**), bld. B2, r.119 (2rd floor)

1. Smalko Zbigniew: INTRODUCTION TO THE THEORY OF HAZARDS, ID 390 (P8)
2. Stepień Zbigniew, Dybich Kornel, Przybek Marek: INFLUENCE OF RME CONTENTS IN DIESEL FUELS ON CETANE NUMBER DETERMINATION QUALITY, ID 160 (P8)
3. Sliwa Romana Ewa, Budzik Grzegorz, Bernaczek Jacek, Dziubek Tomasz: THE RAPID PROTOTYPING OF AIRCRAFT WHEEL

- HUB MODEL WITH THE USE OF TECHNIQUES JS, SLA, FDM, ID 251 (P8)
4. Smieja Michał, Rapinski Jacek: PROSPECTS FOR THE DEVELOPMENT OF AUTOMOTIVE NETWORKS BASED ON ETHERNET, ID 258 (P8)
  5. Świątoniowski Andrzej, Gregorczyk Ryszard, Rabiasz Stanisław: APPLICATION OF FINITE ELEMENT METHOD IN PRODUCTION OF COLLAR-HEAD SCREW IN SUSPENSION ARM OF MOTOR CAR VEHICLE, ID 314 (P8)
  6. Tkaczyk Marcin, Kazmierczak Andrzej, Kazmierczak Łukasz, Gorniak Aleksander: FIELD OF PRESSURE IN ZONE CONTACT ELEMENTS ASSEMBLY PRC STATIONARY QUANTIFICATION, ID 320 (P8)
  7. Tokarczyk Ewa, Ucińska Monika, Niezgoda Michał: THE ROLE AND TASKS OF PSYCHOLOGISTS WITHIN A SYSTEM OF PREVENTIVE MEASURES AIMED AT THE ROAD TRAFFIC SAFETY, ID 206 (P8)
  8. Tutaj Józef: SIMULATION OF AUTOMOTIVE AC-DC MACROCOMMUTATOR GENERATORS, ID 154 (P8)
  9. Ulanowicz Leszek: EFFECT OF DYNAMIC PROPERTIES ATTRIBUTABLE TO HYDRAULIC LINES ONTO OPERATION OF AVIONIC HYDRAULIC DRIVE SYSTEM, ID 221 (P8)
  10. Ustrzycki Adam, Kuszewski Hubert: COMPARATIVE STUDY OF FUEL INJECTION AT COMMON RAIL SYSTEM USING DIFFERENT TYPES OF FUEL, ID 348 (P8)
  11. Wierzbicki Sławomir: EFFECT OF THE PARAMETERS OF PILOT DOSE INJECTION IN A DUAL FUEL DIESEL ENGINE ON THE COMBUSTION PROCESS, ID 269 (P8)
  12. Wiercholski Krzysztof: SUMMATION EQUATION TOOLS FOR SLIDE MICROBEARING SYSTEMS WEAR PROGNOSIS, ID 156 (P8)
  13. Wirkowski Paweł: MODELLING RESEARCH OF THE CHARACTERISTICS OF GASTURBINE AXIAL COMPRESSOR WITH CHANGEABLE FLOW PASSAGE GEOMETRY, ID 195 (P8)
  14. Witkowski Kazimierz: RESEARCH ON POSSIBLE SUPPLYING SHIP DIESEL ENGINES WITH ALTERNATIVE FUELS, ID 166 (P8)
  15. Woropay Maciej, Migawa Klaudiusz, Bojar Piotr, Szubartowski Mirosław: AVAILABILITY OF A TECHNICAL OBJECT DETERMINED IN A FINITE TIME INTERVAL, ID 318 (P8)

16. Woropay Maciej, Migawa Klaudiusz, Bojar Piotr, Szubartowski Mirosław: METHOD FOR ASSESSMENT OF RISKS CONNECTED WITH TECHNICAL OBJECT FUNCTIONING ON THE BASIS OF MARKOV MODEL OF OPERATION PROCESS, ID 343 (P8)
17. Wozniak Danuta A., Rumian Stanisław, Szpytko Janusz: TRANSPORT DEVICE OPERATOR STRESS FEATURES ANALYSIS, ID 385 (P8)
18. Antoni Jankowski: INFLUENCE OF CHOSEN PARAMETERS OF WATER FUEL MICROEMULSION ON COMBUSTION PROCESSES, EMISSION LEVEL OF NITROGEN OXIDES AND FUEL CONSUMPTION OF CI ENGINE, ID 401 (P8)

19.00 - 22.00, invited dinner, Oranżeria – Pergamin, Al. Focha 39-42 (Blonie Krakowskie), 30-119 Krakow (see *invitation*)

### **September 7, 2011**

08.00 - 13.00, reception, AGH UST, ul. Reymonta, bld. U2 - first floor

08.30, 09.30 - bus departures from AGH UST - the front of bld.U2

09.00 - 11.00, technical visits, CUT & Polish Aviation Museum Cracow, Al. J. Pawła II 39, 30-969 Krakow (for details see page TECHNICAL VISITS)

10.10, 11.00 - bus departures from CUT to AGH UST

09.30 - 11.30, regular sessions (**R4**), bld. U2: auditorium (1rd floor), chairs: T.Niezgoda, M. Ucinska, J. Smoczek

09.30 – 09.45, Influence of number of step reactions on flame parameters under quenching conditions, Gutkowski Artur (ID 302)

09.45 – 10.00, An integrated system of conscious enterprise resource management, Tekielak Mateusz, Szpytko Janusz (ID 382)

10.00 – 10.15, Model - based engineering - simulations based design of the suspension of city bus, Kowarska Izabela, Skarbek Jarosław, Kuczek Krystian, Uhl Tadeusz, (ID 330)

10.15 – 10.30, Mathematical model of the hydraulic valve timing system, Mitianiec Wladyslaw, Bac Jaroslaw (ID 196)



- 10.30 – 10.45, Effective methods for drivers research with use of a driving simulator, Niezgoda Michal, Kaminski Tomasz, Ucinska Monika, Kruszewski Mikolaj (ID 201)
- 10.45 – 11.00, Influence of TDC determination methods on mean indicated pressure errors in marine diesel engines, Rafal Pawletko, Stanislaw Polanowski (ID 242)
- 11.00 – 11.15, Self-learning genetic fuzzy predictor of exploitation system operating time, Smoczek Jaroslaw, Szpytko Janusz (ID 194, ID 391)
- 11.15 – 11.30, discussion

09.30 - 11.30, regular sessions (**R5**), bld. U2: r.205 (3rd floor), chairs:  
A. Miszczak, M. Woropay

- 09.30 – 09.45, Production of coatings with use of gas detonation. Engine parts production and regeneration applications, Babul Tomasz, Oleszczak Pawel, ID 249
- 09.45 – 10.00, The initial research on air flow's dynamic impact on a ship model of 888 project type, Mironiuk Waldemar (ID 191)
- 10.00 – 10.15, Aspects of combustion process in a high pressure direct fuel injection two-stroke engine, Mitianiec Wladyslaw (ID 197)
- 10.15 – 10.30, Control problems in a turbocharged spark-ignition engine, Mitianiec Wladyslaw, Rodak Lukasz (ID 174)
- 10.30 – 10.45, Numerical analysis of an influence of ceramic plate surrounding by metal components in a ballistic panel , Sebastian Stanislawek, Andrzej Morka, Tadeusz Niezgoda (ID 392)
- 10.45 – 11.00, A novel internal combustion engine without crankshaft and connecting rod mechanisms, Bogdan Fijalkowski (ID 176)
- 11.00 – 11.15, Thermodynamic aspects of combustion in gasoline engines fitted with a multiple fuel injection, Wislocki Krzysztof, Pielecha Ireneusz, Maslennikov Dmytro, Czajka Jakub (ID 313)
- 11.15 – 11.30, The influence of joning method of AW-7020 aluminium alloy on corrosion properties, Krzysztof Dudzik (ID 393)
- 11.30 – 11.45, discussion

12.00 - 13.00, closing ceremony, bld. U2 auditorium

13.00 - 15.00, lunch, KRAKUS, ul. Reymonta 15, 1nd floor (*invitation*)

## **AUTHOR INDEX**

surname and name, paper ID, session type: K – plenary session, R – regular session, P – poster session

Akbar Athur, ID 210 (K2)  
Andersen Otto, ID 349 (P2)  
Babiak Maciej, ID 292 (P3)  
Babul Tomasz, ID 249 (R5)  
Bac Jaroslaw, ID 196 (R4)  
Baranowski Pawel, ID 178 (P1)  
Barnat Wieslaw, ID 181 (P4), ID 230 (P6), ID 244 (P6)  
Barnat Tadeusz, ID 280 (P4)  
Barylski Adam, ID 207 (P5)  
Baszanowska Emilia, ID 190 (P6), ID 239 (P1)  
Bednarz Jaroslaw, ID 328 (P1)  
Bernaczek Jacek, ID 251 (P8)  
Bieniek Andrzej, ID 150 (P1), ID 337 (P1), ID 338 (P5), ID 339 (P4)  
Biernat Krzysztof, ID 175 (P7)  
Bludszweit Mark, ID 211 (P6)  
Bochenska Anna, ID 293 (P3)  
Bojar Piotr, ID 318 (P8), ID 343 (P8), ID 346 (P5), ID 347 (P1), ID 350 (P1)  
Bonislawski Michal, ID 261 (P1)  
Borkowski Tadeusz, ID 211 (P6), ID 212 (P1), ID 261 (P1)  
Boruta Grzegorz, ID 298 (P1)  
Brol Sebastian, ID 338 (P5), ID 339 (P4)  
Brzezanski Marek, ID 355 (R2)  
Budzik Grzegorz, ID 251 (P8), ID 263 (P5), ID 265 (P1)  
Charchalis Adam, ID 158 (P1), ID 168 (P1), ID 192 (P7), ID 215 (R2), ID 252 (P4)  
Chlus Karol, ID 222 (P1)  
Chraplewska Natalia, ID 273 (P2), ID 275 (P1)  
Coban Huseyin, ID 383 (P2)  
Corcione Felice E., ID 164 (K3), ID 165 (K3)  
Cuper Dominika, ID 305 (P2)  
Czaban Adam, ID 233 (P2), ID 243 (P5)  
Czajka Jakub, ID 313 (R5)  
Czapczyk Kazimierz, ID 266 (P4)  
Czerwinski Jan, ID 349 (P2)  
Czyz Stefan, ID 158 (P1), ID 168 (P1)  
Czyzycki Wojciech, ID 226 (P4)

Dereszewski Mirosław, ID 215 (R2), ID 254 (P5)  
De Silva Anjali K. M., ID 383 (P2)  
Debski Hubert, ID 307 (P4)  
Domagała Mariusz, ID 199 (P2)  
Drogosz Piotr, ID 200 (P2), ID 268 (P2), ID 271 (P2)  
Duda Kamil, ID 273 (P2), ID 275 (P1)  
Dudzik Krzysztof, ID 213 (P2), ID 393 (R5)  
Dybich Kornel, ID 160 (P8)  
Dyl Tomasz, ID 247 (P2)  
Dziubek Tomasz, ID 251 (P8), ID 263 (P5)  
Dziurka Marek, ID 307 (P4)  
Febriartanto Aditya N., ID 210 (K2)  
Fijałkowski Bogdan T., ID 399 (K3), ID 176 (R5)  
Filipczyk Jan, ID 223 (P2)  
Filipek Przemysław, ID 204 (P4), ID 205 (P4), ID 216 (P2), ID 218 (P2)  
Filo Grzegorz, ID 224 (P4)  
Froehlingsdorf Werner, ID 211 (P6)  
Frycz Marcin, ID 234 (P2), ID 235 (P2)  
Gacparska - Stolek Joanna, ID 203 (P4), ID 204 (P4)  
Galarza Julen, ID 381 (K1)  
Galor Anna, ID 329 (P3)  
Galor Wiesław, ID 329 (P3)  
Gis Wojciech, ID 276 (P3), ID 293 (P3)  
Gliwinski Marcin, ID 354 (R1); ID 386 (R1)  
Gorniak Aleksander, ID 320 (P8)  
Graba Mariusz, ID 150 (P1)  
Gregorczyk Ryszard, ID 314 (P8)  
Grudzien Łukasz, ID 189 (P6)  
Grzędziela Andrzej, ID 184 (P3)  
Grzesikiewicz Wiesław, ID 303 (P5)  
Grzeszczyk Rafał, ID 203 (P4), ID 204 (P4)  
Gut Zbigniew, ID 345 (P3)  
Gutkowski Artur, ID 170 (P3), ID 302 (R4)  
Handoko Yunendar A., ID 210 (K2)  
Harrison David K., ID 383 (P2)  
Herdzik Jerzy, ID 159 (R2), ID 167 (R2)  
Hlavna Vladimír, ID 236 (K2)  
Holdowska Małgorzata, ID 301 (P6)  
Hyla Paweł, ID 220 (R3)  
Imiołek Anna, ID 270 (P6)  
Imiołek Maciej, ID 270 (P6), ID 298 (P1), ID 326 (P3)

Irzycki Andrzej, ID 153 (P3), ID 189 (P6)  
Iskra Antoni, ID 262 (P3), ID 292 (P3)  
Jankowska - Sieminska Barbara, ID 387 (P3)  
Jankowski Antoni, ID 388 (P3), ID 389 (P3), ID 400 (P7), ID 401 (P8)  
Jasinski Marcin, ID 298 (P1)  
Jastrzebski Grzegorz, ID 231 (P3)  
Jaskiewicz Marek, ID 315 (P3)  
Jedlinski Lukasz, ID 218 (P2)  
Juda Zdzislaw, ID 321 (P3)  
Kaczor Maciej, ID 307 (P4)  
Kajka Rafal, ID 282 (P7)  
Kalina Piotr, ID 153 (P3)  
Kaluzny Jaroslaw, ID 292 (P3)  
Kaminska Ewa, ID 205 (P4)  
Kaminski Tomasz, ID 201 (R4), ID 202 (P4), ID 203 (P4), ID 204 (P4), ID 205 (P4), ID 216 (P2), ID 218 (P2)  
Kasyk Lech, ID 212 (P1)  
Kawakami Tadashige, ID 324, K1  
Kawalec Michal, ID 189 (P6)  
Kazmierczak Andrzej, ID 320 (P8)  
Kazmierczak Lukasz, ID 320 (P8)  
Khudoley Andrei, ID 171 (R2), ID 172 (R2)  
Knap Lech, ID 303 (P5)  
Knefel Tomasz, ID 317 (P4)  
Kolodziejczyk Damian, ID 230 (P6), ID 244 (P6)  
Kosiuczenko Krzysztof, ID 181 (P4), ID 280 (P4)  
Koszalka Grzegorz, ID 307 (P4)  
Kowalcik Andrej, ID 236 (K2)  
Kowal Janusz, ID 398 (K2)  
Kowalak Przemyslaw, ID 212 (P1), ID 261 (P1)  
Kowalski Damian, ID 339 (P4)  
Kowalski Wojciech, ID 282 (P7)  
Kowarska Izabela, ID 330 (R4)  
Kozik Bogdan, ID 264 (P4), ID 265 (P1)  
Krakovsky Jozef, ID 236 (K2)  
Krason Wieslaw, ID 222 (P1)  
Krasowski Pawel, ID 287 (P4), ID 289 (P4)  
Kruszewski Mikolaj, ID 201 (R4), ID 202 (P4), ID 203 (P4)  
Krzymien Piotr, ID 217 (P7)  
Kuczek Krystian, ID 330 (R4)  
Kuszewski Hubert, ID 348 (P8)

Kutrzyk-Nykiel Aleksandra, ID 223 (P2)  
Kyaw Soe Oo, ID 208 (R1)  
Kyziol Leslaw, ID 266 (P4)  
Labuda Robert, ID 236 (K2)  
Labuda Wojciech, ID 252(P4)  
Lechowicz Andrzej, ID 150 (P1)  
Lezanski Tomasz, ID 323 (P1)  
Lisiecki Marcin, ID 187 (R3)  
Lisowski Edward, ID 199 (P2), ID 224 (P4), ID 226 (P4), ID 246 (P6), ID 248 (P6)  
Listewnik Karol, ID 254 (P5)  
Lubas Janusz, ID 163 (P5)  
Ludwinek Krzysztof, ID 315  
Lus Tomasz, ID 267 (P5)  
Lutowicz Marek, ID 305 (P2)  
Lukjanow Slawomir, ID 327 (P5)  
Magdziak-Toklowicz Monika, ID 332 (P7)  
Mahyuddin Andi I., ID 210 (K2)  
Majerczyk Adam, ID 299 (P5)  
Makowski Michal, ID 303 (P5)  
Malachowski Jerzy, ID 177 (P5), ID 178 (P1)  
Mamala Jaroslaw, ID 338 (P5)  
Marchitto Luca, ID 164 (K3), ID 165 (K3)  
Marcinek Marcin, ID 261 (P1)  
Marciniec Adam, ID 263 (P5)  
Marczuk Andrzej, ID 296 (P5), ID 297 (P5)  
Martawirya Yatna Tuwana, ID 232 (R1)  
Maslennikov Dmytro, ID 313 (R5)  
Mazurkiewicz Lukasz, ID 177 (P5)  
Mazzei Alfredo, ID 164 (K3), ID 165 (K3)  
Merola Simona S., ID 164 (K3), ID 165 (K3)  
Meus Milosza, ID 273 (P2)  
Miedzinska Danuta, ID 219 (P5)  
Migawa Klaudiusz, ID 318 (P8), ID 343 (P8), ID 347 (P1), ID 350 (P1)  
Mihradi Sandro, ID 208, R1  
Mironiuk Waldemar, ID 191(R5)  
Miszczak Andrzej, ID 171 (R2), ID 172 (R2), ID 233 (P2), ID 234 (P2), ID 235 (P2), ID 243 (P5)  
Misztal Wojciech, ID 296 (P5), ID 297 (P5)  
Mitianiec Wladyslaw, ID 174 (R5), ID 196 (R4), ID 197 (R5), ID 351 (P7), ID352 (P7)

Mlynarczak Andrzej, ID 214 (P5)  
Molenda Justyna, ID 207 (P5)  
Morka Andrzej, ID 392 (R5)  
Muslewski Lukasz, ID 309 (P5), ID 346 (P5), ID 350 (P1)  
Myskow Jaroslaw, ID 211 (P6)  
Neubauer Andrzej, ID 309 (P5)  
Niezgoda Tadeusz, ID 181 (P4), ID 201 (R4), ID 230 (P6), ID 244 (P6), ID 280 (P2), ID 392 (R5)  
Niezgoda Michal, ID 202 (P4), ID 203 (P4), ID 204 (P4), ID 206 (P8), ID 219 (P5)  
Nitkiewicz Szymon, ID 271 (P2)  
Noga Marcin, ID 351 (P7), ID 352 (P7), ID 353 (P7)  
Nowacki Gabriel, ID 149 (P6)  
Nowakowski Miroslaw, ID 306 (P6)  
Nurhadi Indera, ID 182 (R1); ID 208, R1  
Oleksiak Stanislaw, ID 349 (P2)  
Oleszczak Pawel, ID 249 (R5), ID 345 (P3)  
Otremba Zbigniew, ID 190 (P6), ID 239 (P1), ID 278 (P6)  
Pajak Michał, ID 173 (P6)  
Panowicz Robert, ID 181 (P4), ID 230 (P6), ID 244 (P6), ID 280 (P4)  
Parczewski Krzysztof, ID 288 (P6)  
Pawletko Rafal, ID 227 (P7), ID 242 (P7), ID 242 (R4)  
Perkowski Witold, ID 189 (P6)  
Pielecha Ireneusz, ID 313 (R5)  
Pietraszek Jacek, ID 246 (P6), ID 248 (P6)  
Pietak Andrzej, ID 270 (P6), ID 271 (P2), ID 326 (P3), ID 340 (P6), ID 341 (P6)  
Pojawa Bogdan, ID 301 (P6)  
Polanowski Stanislaw, ID 215 (R2), ID 227 (P7), ID 242 (P7), ID 254 (P5), ID 242 (R4)  
Prajwowski Konrad, ID 169 (P7)  
Przybek Marek, ID 160 (P8)  
Rabiasz Stanislaw, ID 314 (P8)  
Radkowski Stanislaw, ID 340 (P6), ID 341 (P6)  
Raharno Sri, ID 232 (R1)  
Rapinski Jacek, ID 258 (P8), ID 325 (P7)  
Riyanto Hendi, ID 188, R1  
Rodak Lukasz, ID 174 (R5)  
Rohde Peter, ID 190 (P6), ID 239 (P1)  
Roslanowski Janusz, ID 192 (P7)  
Rostek Ewa, ID 175 (P7)

Rudz Kamila, ID 198 (P7)  
Rumian Stanislaw, ID 385 (P8)  
Rychter Marcin, ID 193 (P7)  
Sendyka Bronislaw, ID 351 (P7), ID 352 (P7), ID 353 (P7)  
Serdecki Wojciech, ID 217 (P7)  
Seczyk Janusz, ID 323 (P1)  
Siczek Krzysztof, ID 155 (P7)  
Sitnik Lech, ID 332 (P7)  
Skarbek Jaroslaw, ID 330 (R4)  
Skorupka Zbigniew, ID 282 (P7)  
Slezak Marcin, ID 389 (P3), ID 400 (P7)  
Smalko Zbigniew, ID 390 (P8)  
Smoczek Jaroslaw, ID 194 (R4), ID 391 (R4)  
Snopkiewicz Krzysztof, ID 153 (P3), ID 189 (P6)  
Sobolak Mariusz, ID 265 (P1)  
Sobolewski Bartlomiej, ID 265 (P1)  
Stanik Zbigniew, ID 300 (P7)  
Starosta Robert, ID 252 (P4), ID 257 (P2)  
Staszak Janusz, ID 315 (P3)  
Stepien Zigniew, ID 160 (P8), ID 349 (P2)  
Stypulkowski Krzysztof, ID 272 (R3)  
Suliga Tomasz, ID 315 (P3)  
Sybilski Kamil, ID 230 (P6), ID 244 (P6)  
Szczepanik Ryszard, ID 397, K3  
Szpytko Janusz, ID 194 (R4), ID 220 (R3), ID 354 (R1); ID 382 (R4), ID 385 (P8), ID 386 (R1), ID 391 (R4)  
Szubartowski Miroslaw, ID 309 (P5), ID 318 (P8), ID 343 (P8), ID 346 (P5), ID 347 (P1), ID 350 (P1)  
Sliwa Romana Ewa, ID 251 (P8)  
Smieja Michał, ID 258 (P8), ID 325 (P7), ID 326 (P3)  
Swiatoniewski Andrzej, ID 314 (P8)  
Targosinski Tomasz, ID 274 (R3)  
Targosz Jan, ID 328 (P1)  
Taubert Slawomir, ID 276 (P3)  
Tekielak Mateusz, ID 382 (R4)  
Tkaczyk Marcin, ID 320 (P8)  
Toczek Henryk, ID 190 (P6), ID 278 (P6)  
Tokarczyk Ewa, ID 206 (P8)  
Tokarzewski Jerzy, ID 327 (P5)  
Tomczuk Piotr, ID 152 (R3)  
Toporcer Emil, ID 237 (R1)

Tornatore Cinzia, ID 164 (K3), ID 165 (K3)  
Tutaj Jozef, ID 154 (P8)  
Ucinska Monika, ID 201 (R4), ID 205 (P4), ID 206 (P8)  
Uhl Tadeusz, ID 330 (R4)  
Ulanowicz Leszek, ID 221 (P8), ID 231 (P3)  
Ustrzycki Adam, ID 348 (P8)  
Valentino Gerardo, ID 164 (K3), ID 165 (K3)  
Warczek Jan, ID 300 (P7)  
Wierzbicki Slawomir, ID 269 (P8), ID 326 (P3)  
Wierzcholski Krzysztof, ID 156 (P8), ID 157 (R3), ID 171 (R2), ID 172 (R2)  
Wirkowski Pawel, ID 195 (P8)  
Wislocki Krzysztof, ID 313 (R5)  
Wisniowski Witold, ID 396 (K1)  
Witkowski Kazimierz, ID 166 (P8)  
Wodynski Piotr, ID 153 (P3)  
Wolanski Piotr, ID 323 (P1), ID 344 (K3), ID 345 (P3)  
Woropay Maciej, ID 309 (P5), ID 318 (P8), ID 343 (P8), ID 347 (P1), ID 350 (P1)  
Worsztynowicz Barbara, ID 342 (R2)  
Wozniak Danuta A., ID 385 (P8)  
Wrobel Radoslaw, ID 332 (P7)  
Yoewono Sigit, ID 182 (R1); ID 188 (R1)  
Zain Rais, ID 208 (R1)  
Zielinski Oliver, ID 239 (P1)  
Zukowski Jerzy, ID 254 (P5)  
Zoltowski Andrzej, ID 276 (P3), ID 293 (P3)

Jankowski Antoni, Slezak Marcin, ON BOARD DIAGNOSTICS (OBD) RESEARCH IN CONDITIONS OF CHASSIS DYNAMOMETER AND ROAD TESTS, ID 400 (P7)



## ACCOMMODATION



**Hotel Olimp, DS. 1**, hostel, 3 star type hotel (included to the conference fee and rooms booked for Kones2011 participants as their request)

AGH UST Student Campus; address: Ul. Rostafinskiego 9, 30-072 Krakow (now open from March 1, 2011 after general reconstruction). Easy to reach from airport Krakow-Balice, railways station, bus station via bus, tram or taxi. Hotel situation map:

[http://home.agh.edu.pl/~amst/index\\_en.php?menu=plan](http://home.agh.edu.pl/~amst/index_en.php?menu=plan).

Free internet, free parking, free kitchen annex including washing machine, refrigerator, and others. At the student AGH UST campus you are invited to the swimming pools and fitness center complex (2 min walking distance), for more details see: <http://www.basen.agh.edu.pl/>.



The Campus is located in a quiet part of the town surrounded by beautiful greenery. Several buses and trams operating between the Campus and the city centre make it extremely easy to reach both the Cracow's historic district and the recreation grounds. The housing estate of 17 dormitories covers the area of 16 ha.

With the accommodation for 8,000 people, the AGH UST Campus offers the largest number of rooms in the southern Poland. Every year the residence halls become more and more attractive. A part of the Campus is designed to host tourists. The following facilities are available within the Campus area: bank, supermarket, post office, football pitch, tennis courts, students clubs and car park. In addition, there is an open swimming pool of the Wisla sports club, at a distance of 500 m.

**Other hotels in Kraków** (not included to the conference fee):

Hotel POLONEZ, 15 Reymonta Street, 30-059 Kraków, tel. +48 (12) 292 82 94/95, fax +48 (12) 631 87 31, <http://www.hotelpolonez.pl/>

(please book your rooms personally with code KONES 2011 asking for special price no later than August 30, 2011)

For others hotel for your personal chose please visit the:  
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**European Kones 2011 reception: AGH UST, ul. Reymonta, bld. U2 - first floor, from September 4-7, 2011**



**RECEPTION**

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Krakow, August 2011



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**37th**  
**INTERNATIONAL SCIENTIFIC**  
**CONGRESS ON POWERTRAIN**  
**AND TRANSPORT MEANS**  
**EUROPEAN KONES 2011**  
4 – 7 September 2011, Krakow, Poland

AGH University of Science and Technology by Stanislaw Staszic in Krakow  
Faculty of Mechanical Engineering and Robotics  
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