



Faculty of Engineering
Department of Mechanical Engineering

**5th INTERNATIONAL SCIENTIFIC CONFERENCE ON
ADVANCES IN MECHANICAL ENGINEERING
(ISCAME 2017)**

12-13 October, 2017 Debrecen, Hungary

CONFERENCE PROGRAMME

organized by

Department of Mechanical Engineering

Faculty of Engineering, University of Debrecen

and

Working Commission in Mechanical Engineering

Specialized Committee in Engineering

Regional Committee in Debrecen, Hungarian Academy of Sciences



INTERNATIONAL SCIENTIFIC CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING

12-13 October 2017, Debrecen, Hungary



Chair of ISCAME 2017

Tamás MANKOVITS, University of Debrecen, Hungary

Scientific Program Committee of ISCAME 2017

Ágnes BATTÁNÉ GINDERT-KELE, University of Debrecen, Hungary

Sándor BODZÁS, University of Debrecen, Hungary

Gábor BOHÁCS, Budapest University of Technology and Economics, Hungary

István BUDAI, University of Debrecen, Hungary

Levente CZÉGÉ, University of Debrecen, Hungary

Igor DRSTVENSEK, University of Maribor, Slovenia

Illés DUDÁS, University of Miskolc, Hungary

János Péter ERDÉLYI, University of Miskolc, Hungary

Lajos FAZEKAS, University of Debrecen, Hungary

Csaba GYENGE, Technical University of Cluj-Napoca, Romania

Sándor HAJDU, University of Debrecen, Hungary

György JUHÁSZ, University of Debrecen, Hungary

Gábor KALÁCSKA, Szent István University, Hungary

Ferenc KALMÁR, University of Debrecen, Hungary

Imre KOCSIS, University of Debrecen, Hungary

Ákos LAKATOS, University of Debrecen, Hungary

Stanislav LEGUTKO, Poznan University of Technology, Poland

Zoltán MAJOR, Johannes Kepler University Linz, Austria

Ljubica MILOVIC, University of Belgrade, Serbia

Imre Norbert ORBULOV, Budapest University of Technology and Economics, Hungary

Sándor PÁLINKÁS, University of Debrecen, Hungary

Tibor POÓS, Budapest University of Technology and Economics, Hungary

Milan RACKOV, University of Novi Sad, Serbia

Istvánné RÁTHY, Óbuda University, Hungary

Tamás SZABÓ, University of Miskolc, Hungary

Edit SZŰCS, University of Debrecen, Hungary

György THALMAIER, Technical University of Cluj-Napoca, Romania

Zsolt TIBA, University of Debrecen, Hungary

László TÓTH, University of Debrecen, Hungary

Matej VESENJAK, University of Maribor, Slovenia

László ZSIDAI, Szent István University, Hungary

Technical Assistance

Beáta KÖVÉR, University of Debrecen, Hungary

Tamás Antal VARGA, University of Debrecen, Hungary



INTERNATIONAL SCIENTIFIC CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING

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WELCOME MESSAGE

On behalf of the ISCAME Scientific and Organizing Committee I am pleased to welcome you to Debrecen for the 5th International Scientific Conference on Advances in Mechanical Engineering organized by the Department of Mechanical Engineering, Faculty of Engineering of the University of Debrecen.

The main goal of ISCAME is to yearly bring together engineers working on research, development and practical application in the field of mechanical engineering. Furthermore, the purpose of this Conference is to provide opportunities for scientists and engineers to meet and to discuss current research, new concepts and ideas and establish possibilities for future collaborations in all aspects of mechanical engineering.

I am pleased to inform you that 136 experts from higher education have registered for this year's conference from altogether 8 countries. In the framework of ISCAME 88 presentations will be given and 36 posters will be exhibited. The topic of this year ISCAME plenary session will be Materials Science. I am honored to announce that 4 internationally recognized Hungarian speakers (Prof. Zoltán KOLOZSVÁRY, Prof. Imre ORBULOV, Prof. Miklós TISZA, Prof. László TÓTH) of whom 3 were born in Debrecen will hold the interesting lectures.

We invite you to be an active participant in this Conference and to contribute to any topic of your scientific interest. We hope that the 5th International Scientific Conference on Advances in Mechanical Engineering will have an important impact on the research in all topics included in its programme.

It is also an honour for us to have a privilege to invite you to the 5th Mechanical Engineering Industrial Exhibition. The Faculty of Engineering of the University of Debrecen will host – parallel to ISCAME – the event, called “Industry Days in Debrecen” where 46 companies – 30 of which as partners of the Department of Mechanical Engineering – will exhibit. The list of our exhibiting partners can be found at the end of the programme booklet. This professional programme will surely benefit the visitors who want to get up-to-date knowledge with the latest technology.

We want to express our appreciation to all members of the committees involved in the preparation of this Conference and to all the staff who are managing the different aspects of the Conference and to all the contributing authors and participants who will create the real Conference. We hope that all of you feel awarded for your participation and contribution.

Yours Sincerely,

Tamás Mankovits
Chair of ISCAME, Head of Department
Department of Mechanical Engineering
Faculty of Engineering, University of Debrecen



INTERNATIONAL SCIENTIFIC CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING

12-13 October 2017, Debrecen, Hungary



TECHNICAL PROGRAMME

(Industry Days in Debrecen – including 5th ISCAME and 5th Mechanical Engineering Exhibition)

Thursday, 12th of October 2017 (2-4 Ótmető, Debrecen)

- 08:30 – 16:00 **ISCAME registration** – continuously (Main Hall)
- 09:00 – 16:00 **ISCAME poster exhibition and coffee** (ground floor, room 9.)
- 09:00 – 16:00 **Industry Days in Debrecen** (Building of the Faculty of Engineering)
- 09:30 – 12:00 **opening ceremony and talks of the Industry Days in Debrecen** (Aula and Lecture Hall U.0.02)
- 11:45 – 14:00 **lunch** (Restaurant, Fac. of Eng.) – for ISCAME participants
- 12:10 – 14:00 **reception** – for company representatives – entrance only with invitation card
- 13:00 – 14:30 **company presentations** (Lecture Hall U.0.01)
- 14:00 – 15:00 **ISCAME poster session 1** (ground floor, room 9.)
- 15:00 – 16:30 **ISCAME opening and plenary session** (Lecture Hall U.0.01.)
- 18:30 – 22:00 **ISCAME banquet** (Restaurant, Fac. of Eng.) –by pre-registration only, entrance only with invitation card

Friday, 13th of October 2017 (2-4 Ótmető, Debrecen)

- 08:30 – 14:00 **ISCAME registration** – continuously (Main Hall)
- 09:00 – 16:00 **ISCAME poster exhibition and coffee** (ground floor, room 9.)
- 09:00 – 10:00 **ISCAME poster session 2** (ground floor, room 9.)
- 09:00 – 12:00 **company presentations** (Lecture Hall U.0.01)
- 09:00 – 13:00 **Industry Days in Debrecen** (Building of the Faculty of Engineering)
- 10:00 – 12:30 **ISCAME sessions**
APPLIED AND THEORETICAL MECHANICS
MAINTENANCE AND CONDITION MONITORING
MANUFACTURING SCIENCE
MATERIALS SCIENCE AND TECHNOLOGY 1
- 11:30 – 14:00 **lunch** (Restaurant, Faculty of Engineering)
- 12:30 – 12:45 **ISCAME group photo** (meeting at the inner court)
- 13:00 – 16:30 **ISCAME sessions**
ENGINEERING PROCESSES AND OPTIMIZATION
FLUID MECHANICS
MACHINE AND PRODUCT DESIGN
MATERIALS SCIENCE AND TECHNOLOGY 2



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DETAILED PROGRAMME OF ISCAME 2017

Thursday, 12th of October 2017 (2-4 Ótemető, Debrecen)

- 08:30 – 16:00 **ISCAME registration** – continuously (Main Hall)
09:00 – 16:00 **ISCAME poster exhibition** (ground floor, room 9.)
11:45 – 14:00 **lunch** (Canteen, Faculty of Engineering)
14:00 – 15:00 **ISCAME poster session 1** (ground floor, room 9.)
- 15:00 – 16:30 **ISCAME opening and plenary session**
(ground floor, Lecture Hall U.0.01)
Chairman: **Tamás MANKOVITS PhD**, University of Debrecen, Hungary
- 15:00 – 15:10 **Tamás MANKOVITS**
Welcoming words
15:10 – 15:30 **László TÓTH**
Mechanical Testing - Response of a Self-organised System
15:30 – 15:50 **Zoltán KOLOZSVÁRY**
A few considerations on the state of the art and development trends in heat treatment and surface engineering
15:50 – 16:10 **Miklós TISZA**
Lightweight manufacturing of automotive parts
16:10 – 16:30 **Imre Norbert ORBULOV**
Special properties of metal matrix syntactic foams
- 18:30 – 22:00 **banquet** – by pre-registration only and entrance fee is charged
(Restaurant, Faculty of Engineering)



Faculty of Engineering, University of Debrecen



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Friday, 13th of October 2017 (2-4 Ótmető, Debrecen)

08:30 – 14:00 **ISCAME registration and coffee** – continuously (Main Hall)

09:00 – 16:00 **ISCAME poster exhibition** (ground floor, room 9.)

09:00 – 10:00 **ISCAME poster session 2** (ground floor, room 9.)

10:00 – 12:00 **Session APPLIED AND THEORETICAL MECHANICS**

(Robert Bosch Engineering Education and Development Laboratory, ground floor, room E.0.22)

Chairman: **Sándor HAJDU PhD**, University of Debrecen, Hungary

Co-chairman: **Dániel BURMEISTER PhD**, University of Miskolc, Hungary

Secretary: **Dávid HURI**, University of Debrecen, Hungary

10:00 – 10:15 **Hasan MUHANDES, Weal SALLOUM**

Simulating the bruising damage of olive fruit during drop

10:15 – 10:30 **Boris STOJIC, Nenad POZNANOVIC**

Experimental research of tractor tire response to quasistatic passage over the singular road obstacle

10:30 – 10:45 **Roland JANČO, Pavel ÉLESZTŐS, Ladislav ÉCSI**

Numerical solution of friction stir welding compared by experimental measurement

10:45 – 11:00 **Ladislav ÉCSI, Pavel ÉLESZTŐS, Roland JANČO**

An alternative to hyperelastic-based multiplicative plasticity models

11:00 – 11:15 **Veronika SZÜLE, Balázs PERE**

Solution of thermomechanical coupled problem using FEM

11:15 – 11:30 **Gusztáv Áron SZIKI, Attila SZÁNTÓ**

Recent developments in our simulation program for the dynamics modelling of electric driven cars

11:30 – 11:45 **Balázs TÓTH, Dániel BURMEISTER**

Three-field dual-mixed hp finite element model for axisymmetric shells

11:45 – 12:00 **Dávid HURI, Tamás MANKOVITS**

Finite element simulations in rubber design

10:00 – 12:15 **Session MAINTENANCE AND CONDITION MONITORING**

(Aventics Pneumatic Laboratory, ground floor, room E.0.21.)

Chairman: **László TÓTH DSc**, University of Debrecen, Hungary

Co-Chairman: **József Zoltán SZABÓ PhD**, Óbuda University, Hungary

Secretary: **Krisztián DEÁK**, University of Debrecen, Hungary

10:00 – 10:15 **László TÓTH**

Risk based approach in the welding fabrication - european efforts

10:15 – 10:30 **Luboslav STRAKA, Gabriel DITTRICH**

Improving reliability of technical systems

10:30 – 10:45 **Zsolt TIBA, Dániel FEKETE-SZÜCS, József MENYHÁRT**

Eliminating the positioning error of Gamma Knife; recommendations for the mechanical overhaul

10:45 – 11:00 **Krisztián DEÁK, Imre KOCSIS**

Condition monitoring by applying advanced diagnostics methods

11:00 – 11:15 **Aleksandar ALEKSIĆ, Dušan GORDIĆ, Vladimir VUKAŠINOVIĆ, Aleksandar NEŠOVIĆ**

Introduction of water management in food production plant: A case study margarine production facility

11:15 – 11:30 **Miklós Gergely SZENTESI, István LAKATOS**

Road traffic accidents caused by mechanical failures in Hungary between 2012 and 2017

11:30 – 11:45 **Tibor BUSZNYÁK, István LAKATOS**

Automotive engineering possibilities in combining global positioning and vehicle diagnostics

11:45 – 12:00 **Andor NAGY, István LAKATOS**

The development of the punctuality of railroad event recording in accident investigation

12:00 – 12:15 **János JUHÁSZ, Tamás BÁNYAI**

Logistic aspects of real time decisions in intelligent transportation systems



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- 10:00 – 12:30 **Session MANUFACTURING SCIENCE**
(Metallographic Laboratory, 1st floor, room E.1.20)
Chairman: **György HEGEDŰS PhD**, University of Miskolc, Hungary
Co-Chairman: **Sándor BODZÁS PhD**, University of Debrecen, Hungary
Secretary: **Péter BALSÁ**, University of Debrecen, Hungary
- 10:00 – 10:15 **Daniel LATES, Marius CĂȘVEAN, Flaviu CIOLOCA**
Application of the functions of a chatbot in the manufacturing process of a gear
- 10:15 – 10:30 **Sándor BODZÁS**
Comparative tooth contact analysis of x-zero gear drive in the function of the module changing
- 10:30 – 10:45 **László DUDÁS**
The effect of profile variation on contact properties in case of quasi globoid worm gearing
- 10:45 – 11:00 **György HEGEDŰS**
Generation of internal thread surfaces by solid tool body swept operations
- 11:00 – 11:15 **Jan ZAKOPČAN, Lubomir JAVOREK, Michal BACHRATÝ**
The influence of tool diameter and feed speed on feed force and torque moment during steel S233J0 drilling
- 11:15 – 11:30 **Jan ZAKOPČAN, Lubomir JAVOREK, Michal BACHRATÝ**
Dependence of the thrust force from the clearance angle and feed speed during drilling
- 11:30 – 11:45 **Szabolcs JÓNÁS, Miklós TISZA**
Clinching of DP600 steel sheets
- 11:45 – 12:00 **Antal FODOR**
3D printed polymer specimens of fatigue test examination basic on DMA tests
- 12:00 – 12:15 **Luboslav STRAKA, Gabriel DITTRICH**
Dielectric fluids applied during electrical discharge machining
- 12:15 – 12:30 **Shiraz Ahmed SIDDIQUI, Mária MAROSNÉ BERKES, Andrea SZILÁGYINÉ BÍRÓ**
Investigation of the tribological performance of wear resistant surface layers produced on automotive tool steel by duplex heat treatments
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- 10:00 – 12:15 **Session MATERIALS SCIENCE AND TECHNOLOGY 1**
(SMARTMAT Material Technology Laboratory, 4th floor, room E.4.14)
Chairman: **Branko SKORIC PhD**, University of Novi Sad, Serbia
Co-chairman: **Sándor PÁLINKÁS PhD**, University of Debrecen, Hungary
Secretary: **Gábor BALOGH**, University of Debrecen, Hungary
- 10:00 – 10:15 **Emilia SKOLEK, Szymon MARCINIAK, Adam ZYCH**
Glow discharge nitriding of nanobainitic steel
- 10:15 – 10:30 **Krzysztof CHMIELARZ, Szymon MARCINIAK**
Changes of structure and properties of the core of nanocrystalline steel X37CrMoV5-1 which occur during the process of nitriding
- 10:30 – 10:45 **Szymon MARCINIAK, Emilia SKOLEK, Adam GOŁASZEWSKI, Wiesław ŚWIĄTNICKI**
Thermal stability of carbide-free bainite in two nanocrystalline steels in the range of nitriding temperatures
- 10:45 – 11:00 **Branko SKORIC, Aleksandar MILETIC, Pal TEREK, Lazar KOVACEVIC, Dragan KUKURUZOVIC**
Hard coatings deposited by ion beam assisted deposition and modified with ion implantation
- 11:00 – 11:15 **András MOLNÁR, Zsolt CSABAY, Lajos FAZEKAS, Sándor PÁLINKÁS, Ágnes BATTÁNÉ GINDERT-KELE**
Thermal sprayed and laser remelted wear resistant NiCrBSi coatings
- 11:15 – 11:30 **Tamás BUBONYI, Péter BARKÓCZY, Gábor LÉNÁRTH**
Automated image analysis of the inhomogenities in the microstructure of aluminum castings
- 11:30 – 11:45 **Dániel PETHŐ, Márton BENKE, Valéria MERTINGER, Péter BARKÓCZY**
The effect of thickness reduction on the recrystallization processes of cold rolled 3104 deep draw Al sheets
- 11:45 – 12:00 **Balázs VARBAI, Yoni ADONYI, Kornél MÁJLINGER**
The effects of cooling rate on duplex stainless steel welds heat affected zones
- 12:00 – 12:15 **Adam GOŁASZEWSKI, Jerzy SZAWŁOWSKI, Wiesław ŚWIĄTNICKI**
Chemical composition influence on microstructure and properties of UFG-TRIP steel



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- 12:40 – 12:50 **ISCAME group photo** (meeting at the inner court)
- 11:45 – 13:00 **lunch** (Canteen, Faculty of Engineering)
- 13:00 – 16:15 **Session ENGINEERING PROCESSES AND OPTIMIZATION**
(Metallographic Laboratory, 1st floor, room E.1.20)
- Chairman: **Tibor POÓS PhD**, Budapest University of Technology and Economics, Hungary
Co-chairman: **Lajos GULYÁS PhD**, University of Debrecen, Hungary
Secretary: **József MENYHÁRT**, University of Debrecen, Hungary
- 13:00 – 13:15 **Péter LÁNG, Marton ÖRSI, László HÉGELY**
Comparison of batch and semi-continous distillation
- 13:15 – 13:30 **Gábor MODLA, Péter LÁNG**
Decrease of energy need of distillation with vapour recompression
- 13:30 – 13:45 **László HÉGELY, Kristóf SLEISZ**
Optimization of batch extractive distillation with different methods
- 13:45 – 14:00 **Lajos GULYÁS, István ÁRPÁD, György DEÁK**
A common interpretation of energy losses of flowing fluids in technical systems
- 14:00 – 14:15 **Tibor POÓS, Dániel HORVÁTH, Kornél TAMÁS**
Modeling of the movement of the granular material in a static equipment with discrete element method
- 14:15 – 14:30 **coffee break**
- 14:30 – 14:45 **Tibor POÓS, Evelin VARJU, Viktor SZABÓ**
Determination of medicinal plants' porosity
- 14:45 – 15:00 **Csongor BOLDIZSÁR**
Optimization of wood biomass gasification process
- 15:00 – 15:15 **Kinga TÓTH**
Examination of biomethane production
- 15:15 – 15:30 **Ádám SKRIBANEK, István BODNÁR, Patrik ISKI**
Optimizing an ininterruptible solar power system for inductive natured loads
- 15:30 – 15:45 **Sándor SZABÓ**
Research, development and optimisation of nuclear tomography
- 15:45 – 16:00 **Gábor BALOGH**
Recycling possibilities of end period nuclear fuel cells
- 16:00 – 16:15 **Viktor ERDÉLYI, László JÁNOSI**
Digital twin and shadow in Smart pork fatteners
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- 13:00 – 15:45 **Session FLUID MECHANICS**
(Robert Bosch Engineering Education and Development Laboratory, ground floor, room E.0.22)
- Chairman: **Ákos LAKATOS PhD**, Budapest University of Technology and Economics, Hungary
Co-chairman: **Mohamad BAHM PhD**, University of Miskolc, Hungary
Secretary: **Ferenc SZODRAI**, University of Debrecen, Hungary
- 13:00 – 13:15 **Ivan GRUJIĆ, Nadica STOJANOVIĆ, Jasna GLIŠOVIĆ, Aleksandar DAVINIĆ, Saša MILOJEVIĆ**
Modelling and aerodynamic simulation of the passenger vehicle
- 13:15 – 13:30 **Fanni KÁDÁR**
Phase space analysis of a pressure relief valve
- 13:30 – 13:45 **Mohamad BARHM, Gábor SZEPESI, Betti BOLLÓ**
Modelling and analysis of a gasoline engine exhaust gas systems
- 13:45 – 14:00 **Csanád KALMÁR, Ferenc HEGEDŰS, Dávid FELHŐS**
Transient simulations of gas dynamics with different numerical schemes
- 14:00 – 14:15 **Kálmán KLAPCSIK, Ferenc HEGEDŰS**
Modelling of non-spherical bubble shape oscillations in viscous liquid



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14:15 – 14:30 **coffee break**

14:30 – 14:45 **Péter Tamás NAGY, György PAÁL**

The effect of spanwise flexible coating on the boundary layer transition

14:45 – 15:00 **Péter Tamás NAGY, György PAÁL**

Plane jets excited by vortices

15:00 – 15:15 **András TOMOR, Erik ANTAL-JAKAB**

Experimental investigation of a finite length lateral system in a dividing-flow manifold

15:15 – 15:30 **András TOMOR, Bence MERVAY, Gergely KRISTÓF**

Continuous parametrization of hydraulic losses caused by diameter transition in cylindrical pipes

15:30 – 15:45 **Roland DÓCS, Anita JOBBIK**

Porous system modelling of hydrocarbon reservoirs using multi-capillary method

13:00 – 16:15 **Session MACHINE AND PRODUCT DESIGN**

(Aventics Pneumatic Laboratory, ground floor, room E.0.21.)

Chairman: **Levente CZÉGE PhD**, University of Debrecen, Hungary

Co-chairman: **Richard HNILICA PhD**, Technical University in Zvolen, Slovakia

Secretary: **Zsolt BÉKÉSI**, University of Debrecen, Hungary

13:00 – 13:15 **Milan RACKOV, Siniša KUZMANOVIĆ, Maja ČAVIĆ, Ivan KNEŽEVIĆ, Marko PENČIĆ**

Analysis of different concept ways of two-stage gear reducers design

13:15 – 13:30 **Levente CZÉGE**

Design of coupled planetary gear drives

13:30 – 13:45 **László DUDÁS, Pálma KAPITÁNY**

Combustion chamber and fuel mixture motion analysis of a new rotary engine

13:45 – 14:00 **Marko PENČIĆ, Maja ČAVIĆ, Milan RACKOV**

Design of the humanoid robot neck: State of the Art

14:00 – 14:15 **Péter UNGÁR, Tamás SZABÓ**

Designing of a balancing machine for a plastic rotor

14:15 – 14:30 **Miha FINZGAR, Primož PODRZAJ**

Feasibility of remote photoplethysmography for implementation in mobile robots

14:30 – 14:45 **coffee break**

14:45 – 15:00 **László RÓNAI, Viktor FÜVESI, Csaba VÖRÖS**

Designing of a water sampling unit

15:00 – 15:15 **Ladislav GULAN, Carmen SCHMIDTOVÁ, Gregor IZRAEL**

Effective designing of modular structures variants of mobile working machines

15:15 – 15:30 **Nadica STOJANOVIĆ, Ivan GRUJIĆ, Jasna GLIŠOVIĆ, Saša MILOJEVIĆ, Aleksandar DAVINIĆ**

Vanes shape optimization of ventaled disc brakes for heavy duty vehicles

15:30 – 15:45 **Zsolt BÉKÉSI, László JÁNOSI**

Cryogenic gas as a fuel for vehicles

15:45 – 16:00 **Michaela HNILICOVÁ, Jaroslav MATEJ, Miroslav DADO, Richard HNILICA**

Design of the supporting frame for the fire-fighting adapter using the shape generator

16:00 – 16:15 **Flóra HAJDU, Péter HORVÁTH**

Comparison of bathlift constructions

16:15 – 16:30 **Bishwambhar SENGUPTA, György FILEP**

Development of new radiosurgical device



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- 13:00 – 16:30 **Session MATERIALS SCIENCE AND TECHNOLOGY 2**
(SMARTMAT Material Technology Laboratory, 4th floor, room E.4.14)
- Chairman: **Valéria MERTINGER PhD**, University of Miskolc, Hungary
Co-chairman: **István BUDAI PhD**, University of Debrecen, Hungary
Secretary: **Tamás Antal VARGA**, University of Debrecen, Hungary
- 13:00 – 13:15 **László TÓTH**
Sensitivity of materials and engineering structures
- 13:15 – 13:30 **Máté SEPSI, Dávid ANGEL, Dávid CSEH, Ádám FILEP, Viktor KÁRPÁTI, Márton BENKE, Valéria MERTINGER**
Residual stress monitoring for machine industry
- 13:30 – 13:45 **György THALMAIER, Niculina SECHEL, Ioan VIDA-SIMITI**
Water leaching behaviour of carbamide space holder particles in TiAl foams
- 13:45 – 14:00 **Tamás MANKOVITS, Tamás Antal VARGA**
Image-based geometrical modelling of foam structures
- 14:00 – 14:15 **Haris RUDIANTO, Yang Sang SUN, Kim Yong JIN, Ivo DLOUHY**
Sintering behavior of dual composites Al-Si-SiC and Al-Si-Cu-Mg powder
- 14:15 – 14:30 **Liliana-Laura BADITA, Aurel ZAPCIU, Valentin GORNOAVA, Marian VOCUREK, Iulian Sorin MUNTEANU**
Nanostructured thin films used to improve the tribological properties in mechatronic actuating systems
- 14:30 – 14:45 **coffee break**
- 14:45 – 15:00 **Franc MAJDIĆ**
Research of carbon fibre hydraulic cylinder
- 15:00 – 15:15 **Ahmed Elmehdi BENCHABANE, Péter BARKÓCZY**
Effects of surface treating to the properties of railway contact wires
- 15:15 – 15:30 **Thomas AZANE, Péter BARKÓCZY**
Comparison of the production and properties of ACCC conductor to other HTLS conductors
- 15:30 – 15:45 **Arjun TALGOTRA, Máté SEPSI, Erzsébet NAGY, Márton BENKE, Valéria MERTINGER**
Thermomechanical treatment induced martensites in TWIP steels
- 15:45 – 16:00 **Darko LOVREC**
Ionic liquid as a novel, high performance hydraulic fluid – selection process
- 16:00 – 16:15 **Hayder AL-MALIKI, Gábor KALÁCSKA**
Surface characterization of polymer treated by atmospheric plasma
- 16:15 – 16:30 **Chukwuemeka Lucky IHEMAGUBA, Kálmán MAROSSY**
Application of thermally stimulated discharge current method for investigation of fine structure of polymeric materials



A group of ISCAME Participants in 2016



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ISCAME poster exhibition (ground floor, room 9.)

András SZEKERES, Md Tanweer RAZA

Thermo-Hygro Mechanics (THM) in Science Philosophy

Sándor HAJDU

LPV modelling of single-mast stacker cranes

Tamás ANTAL, Benedek KERÉKES

Novel drying techniques for the preservation of by-products of food industry

Ábel GÖNTÉR, Viktor TIHANYI

Design concept of a hybrid vehicle system considering redundancy requirements of highly automated vehicles

Judit SZALAI

The development of evaluation system qualifying the ITER diagnostic cable conduit the and satisfying the system requirements

Dávid KINCSES, Lajos MEZEI, Sándor HAJDU

Review of wheel dynamic models at vehicle development

Róbertné KOVÁCS, Gábor KESZTHELYI-SZABÓ, Péter SZENDRŐ

Optimization of operational parameters for a microwave pre-treating system

József MENYHÁRT, Róbert SZABOLCSI

Batteries operation parameter analysis with Fuzzy logic

Tibor POÓS, Evelin VARJU, Viktor SZABÓ

Introduction to freeze granulation technology

Kremena MARKOVA

How the user became authority

Tihomir DOVRAMADJIEV

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András GÁBORA, Attila MAGYARI, Lajos MEZEI, Krisztián József VESZELSZKI, Dániel NEMES, Dávid BALÁZS, Hunor Péter PÓTA

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József Zoltán SZABÓ, Péter BAKUCZ

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Alpár BELÉNYI, Gheorghe ACHIMAŞ

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Drakče TANASKOVIĆ, Branislav ĐORĐEVIĆ, Simon SEDMAK, Filip VUCETIC, Marko GAJIN

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Csaba NEMES, Sándor BODZÁS

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Dávid NEISZ, Gergő Zoltán GÉRESI, Sándor BODZÁS

Designing of drill clamping device for CNC turning machine

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Steel surface finishing with polishing belt

Péter BÖRÖCZ

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Nicolae JOLDEŞ, Gheorghe ACHIMAŞ, Csaba GYENGE, Anton Gheorghe POP-SZOVÁTI

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Péter CSAVAJDA

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Zoltán SZAKÁL, Tamás PATAKI, Attila KARI-HORVÁTH

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Luboš KAŠČÁK, Emil SPIŠÁK

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Franz MAJDIČ

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Darko LOVREC

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Krisztina ROMÁN, Gabriella ZSOLDOS

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INFORMATION TO CHAIRMEN, TO PRESENTERS AND TO VISITORS

Chairmen, Presenters and on-line registered Visitors are invited for lunches and coffees, but it is connected to registration at the registration desk at the Main Hall in the building of the Faculty of Engineering on the Conference days.

To Presenters:

- The official language of ISCAME is English;
- Show up to the session 10 minutes before the session begins;
- Each oral presentation will take 15 minutes including discussion;
- The files required for the presentation (PowerPoint or PDF) must be uploaded and tested in the computer placed in the room before the respective presentation session.

To Poster Presenters:

- The official language of ISCAME is English;
- The Poster Exhibiton will be opened on Thursday 12 October, 9:00 and can be visited until the end of the ISCAME (13 October, 16:00). It means from 9:00 onwards posters can be put on display (Location: Faculty of Engineering, ground floor, room 9.).
- Poster sessions are scheduled on 12 October, from 14:00-15:00 and 13 October, from 9:00-10:00. At this time anyone interested should be received in front of the posters;
- Posters will be displayed on vertical boards with maximum dimensions of 1000mm (width) x 2000mm (height), the recommended poster size is standard A0 with page orientation portrait.

To Chairmen:

- During the presentations enforce time limits strictly so that no author monopolizes someone else's time;
- One presentations are complete the remainder of the time can be used for informal discussion with the audience and session participants. It is your job to field questions from the audience.

In any case please contact:

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