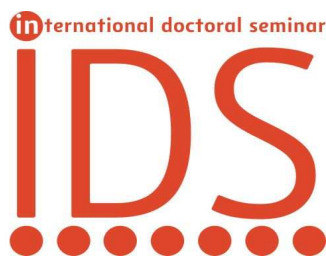


SECTIONS AND PROGRAMME



16 – 19, 2010 in Smolenice Castle

SECTION A

- ♣ Machine Production Technologies
- ♣ Materials Engineering

SECTION B

- ♣ Industrial Management and Quality Engineering
- ♣ Applied Information Technology and Automation in Industry
- ♣ Environmental and Safety Engineering
- ♣ Human Science in Technology

SECTION CHAIRS:

prof. Dr. József DANYI
prof. Ing. Jozef JANOVEC, DrSc.
doc. Ing. Martin KUSÝ, PhD.
doc. Ing. Milan MARÔNEK, CSc.
prof. Dr. Manuela NIETHAMMER
doc. PhDr. Eva ODLEROVÁ, PhD.
Dr. h.c. Dipl.-Finw. Rolf PFRENGLE
doc. Ing. Maroš SOLDÁN, PhD.
doc. Ing. Pavol TANUŠKA, PhD.
prof. Ing. Koloman ULRICH, PhD.
doc. Ing. Helena VIDOVÁ, PhD.
Dr. Ing. Krzysztof WITKOVSKI

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doc. Ing. Miloš Čambál, CSc.
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Ing. Peter Szabó, PhD.
Ing. Peter Halada
Bc. Beáta Vrbovská

SECTION A

16 MAY 2010 /SUNDAY/

17:00 – 19:00	ARRIVAL, ACCOMODATION, REGISTRATION
19:00	DINNER

17 May 2010 /Monday/

08:00 – 08:45	BREAKFAST
08:00 – 08:45	REGISTRATION OF PARTICIPANTS AND SUPERVISORS
09:00 – 09:30	OPENING CEREMONY – Doc. Ing. František Horňák, PhD.
09:45 – 12:15	PRESENTATIONS IN SECTIONS

SECTION A1 Chair: prof. Ing. Koloman ULRICH, PhD.

09:45 – 10:05	KERAK, P.: Intelligent clamping systems
10:05 – 10:25	VRTOCHOVÁ, T. – SCHWARZ, L.: Laser beam welding of superduplex stainless steel
10:25 – 10:45	LECHOVIČ, E. – PROVAZNÍK, M.: Using of lead-free solders in electrical and electronic devices for the automated industry

10:45 – 11:15 COFFEE BREAK

11:15 – 11:35	GROßMANN, Ch. – FÜSSEL, U. – ZSCHETZSCHE, J.: Increasing service life and tool life of spot welding electrodes
11:35 – 11:55	BUDAI, A. F. – ACHIMAŞ G. – LĂZĂRESCU, L.: Possibilities to enlarge the height of cave parts in hydro-mechanical deep-drawing processes
11:55 – 12:15	BAJČIČÁK, M. – VRABEC, J. – HANZEN, V.: Influencing the microstructure properties of ZnAl4Cu3 alloy by rotation speed at spin casting

12:20 – 13:20	LUNCH
13:20 – 16:10	PRESENTATIONS IN SECTIONS

SECTION A2 Chair: doc. Ing. Milan MARÔNEK, CSc.

13:20 – 13:40	GÖRÖG, A. – LAKOTA, S. – MALÍK, A.: Roundness measuring methods – measured results comparison
13:40 – 14:00	DENKERT, Ch. – KLEINERT, H. – FÜSSEL, U. – LIEBRECHT, F. – SCHÄFFLER, M.: Flow behaviour of adhesive seal materials on hybrid joins

- 14:00 – 14:20 LOHSE, M. – HERTEL, M. – ZÄHR, J. – SCHNICK, M. – FÜSSEL, U.: Numerical analyses of the influence of the process gas composition on the arc
- 14:20 – 14:40 JULA, F. C. – CĂREAN, A.: Study regarding seal thread processing
- 14:40 – 15:00 VLÁŠEK, M.: Dynamic future flexible manufacturing systems

15:00 – 15:30 COFFEE BREAK

- 15:30 – 15:50 KOVÁČ, P. – KRŠIAKOVÁ, L. – BÍLIK, J.: Verification of suitability of formed blanks to create forming limit diagram using numerical simulation
- 15:50 – 16:10 SIKETOVÁ, K. – KOVÁČ, M. – LÍŠKA, J. – POKORNÝ, P.: Cam strategies at milling of shaped surfaces

17:00 – 18:00 SATELLITE EVENT (AUTOCLUSTERS)

18:30 SOCIAL EVENT AND SEMINAR EVALUATION

18 May 2010 /Tuesday/

08:00 – 08:45 BREAKFAST

09:00 – 12:10 PRESENTATIONS IN SECTIONS

SECTION A1 Chair: prof. Ing. Jozef JANOVEC, DrSc.

- 09:00 – 09:20 KOZÁK, O.: Preparation and characterisation of the zns nanoparticles deposited on montmorillonite
- 09:20 – 09:40 REITERMAN, P.: Non-destructive measuring of concrete surface layer
- 09:40 – 10:00 DÜNCKELMEYER, M. – KREMPASZKY, C. – WERNER, E. – HEIN, G. - SCHÖRKHUBER, K.: Microstructure analysis of a banded work roll with comparison between damage appearance and thermo-mechanical considerations
- 10:00 – 10:20 URBÁNEK, M. – FOŘT, T. – FLORIDA, E.: Preparation of samples with diffraction grating for sem
- 10:20 – 10:40 ŠOMŠÁKOVÁ, Z. – HARNIČÁROVÁ, M.: Study of composite materials on the base of natural fillers (WPC)

10:40 – 11:10 COFFEE BREAK

SECTION A2 Chair: prof. Dr. József DANYI

- 11:10 – 11:30 MÁCA, P.: The influence of metakaolin on scaling resistance of concrete
- 11:30 – 11:50 JAHODOVA, V. – ROZEK, Z.: Potencial applications of dlc coatings – the review
- 11:50 – 12:10 DŽUBÁKOVÁ, I. – JEDINÁKOVÁ, J. – MIKITA, J.: Health and safety at work as part of technical production

12:20 – 13:20 **LUNCH**

13:20 – 16:30 **PRESENTATIONS IN SECTIONS**

SECTION A3 **Chair:** doc. Ing. Martin KUSÝ, PhD.

13:20 – 13:40 SZŮCS, A.: Study of non-isothermal mould filling

13:40 – 14:00 PUSTKOVÁ, P.: Effect of layer charge and dye loading on spectroscopic properties of cationic dye/montmorillonite complexes

14:00 – 14:20 BACHÁROVÁ, L. – HUČKO, B.: Stress analysis of intervertebral disc

14:20 – 14:40 DRIENOVSKÝ, M. – MARTINKOVIČ, M. – JANOVEC, J.: Analysis of microstructure and mechanical properties of selected binary and ternary lead-free bulk solders and soldered joints

14:40 – 15:10 **COFFEE BREAK**

15:10 – 15:30 ČERNIČKOVÁ, I. – PRIPUTEN, P. – ZEMANOVÁ, A. – ILLEKOVÁ, E. – JANIČKOVIČ, D. – ŠVEC, P. – KUSÝ, M. – ČAPLOVIČ, Ľ. – JANOVEC, J.: Characterization of phases in complex metallic alloy Al₆₈ Pd_{14,6} Co_{17,4}

15:30 – 15:50 ŠTEFÁNIKOVÁ, M. – MORAVČÍK, R.: Influence of the powder particle size on the microstructure of Cr-Mo-V tool steel compacts produced by hot isostatic pressing

15:50 – 16:10 BÁRTOVÁ, K. – DOMÁNKOVÁ, M. – JANOVEC, J.: Resistance to intergranular corrosion of aisi 316 and aisi 316l austenitic stainless steels

16:10 – 16:30 BALÁK, M.: Material properties of non-active reactor internals

17:30 **DINNER**

SECTION B

16 MAY 2010 /SUNDAY/

17:00 – 19:00 ARRIVAL, ACCOMODATION, REGISTRATION
19:00 DINNER

17 May 2010 /Monday/

08:00 – 08:45 BREAKFAST
08:00 – 08:45 REGISTRATION OF PARTICIPANTS AND SUPERVISORS
09:00 – 09:30 OPENING CEREMONY – Doc. Ing. František Horňák, PhD.
09:45 – 12:15 PRESENTATIONS IN SECTIONS

SECTION B1 Chair: Dr. Ing. Krzysztof WITKOWSKI

09:45 – 10:05 KRAVEC, D.: Suggestion of simulation software for palletization process
10:05 – 10:25 KUNZ, R.: Logistics in times of cracking frontiers
10:25 – 10:45 MARKOVÁ, P. – VIČÍKOVÁ, J. – HATJAR, K. – CIBULKA, V.: The workplace layout based on ergonomic principles in production logistics

10:45 – 11:15 COFFEE BREAK

SECTION B2 Chair: doc. Ing. Helena VIDOVÁ, PhD.

11:15 – 11:35 BEŇO, R. – KUSÝ, O. – HATJAR, K.: Anti crisis potential of ergonomics
11:35 – 11:55 BAŇASOVÁ, L. – HOLKOVÁ, A. – HRÚZOVÁ, Z.: Use of competency model within talent management
11:55 – 12:15 ŠKOLÁROVÁ, Z. – HOLKOVÁ, A.: Value of the education for career management in organization

12:20 – 13:20 LUNCH
13:20 – 16:30 PRESENTATIONS IN SECTIONS

SECTION B3 Chairs: Dr. h. c. Dipl.-Finw. Rolf PFRENGLE, prof. Dr. Manuela NIETHAMMER

13:20 – 13:40 VANČOVÁ, V.: Autoclusters
13:40 – 14:00 FRANK, C. Vocational orientation for engineering and natural sciences

- 14:00 – 14:20 GERGELOVÁ, E. – HRMO, R.: Motivation to achieving of high performance and to learning
- 14:20 – 14:40 BALAŽOVJECH, M.: Preparing of student teachers for pedagogical practise through microteaching method
- 14:40 – 15:00 UHRÁKOVÁ, E.: The role of ict in the academic dishonesty

15:00 – 15:30 COFFEE BREAK

SECTION B4 Chair: doc. PhDr. Eva ODLEROVÁ, PhD.

- 15:30 – 15:50 KVASNICA, O. – HRMO, R.: Students` Relationship to E-learning
- 15:50 – 16:10 KOŇUŠÍKOVÁ, M.: Controlled individual pupil's work in the subject of ecology in the secondary integrated school in Kysucké Nové Mesto
- 16:10 – 16:30 HARINGOVÁ, A. – PRIKKEL, K. Damping properties of fluid in endoprotheses of hip joint

17:00 – 18:00 SATELLITE EVENT (AUTOCLUSTERS)

18:30 SOCIAL EVENT AND SEMINAR EVALUATION

18 May 2010 /Tuesday/

08:00 – 08:45 BREAKFAST

09:00 – 12:10 PRESENTATIONS IN SECTIONS

SECTION B1 Chair: doc. Ing. Maroš SOLDÁN, PhD.

- 09:00 – 09:20 BLINOVÁ, L. – BOLEMAN, T. – MICHALÍKOVÁ, A.: Impact of ozone to the volatile organic compounds occurring in the secondary products of bioethanol production from lignocellulosic phytomass
- 09:20 – 09:40 NOVOTNÝ, M.: Effect of wall thickness on the burning rate of ethanol small pool fires
- 09:40 – 10:00 KOPÁČIKOVÁ, I. – KUPKOVÁ, V. – BOLEMAN, T.: Preliminary study of environmentally suitable technologies for waste processing with dangerous substances
- 10:00 – 10:20 BALOG, K. – HRUŠOVSKÝ, I.: Self-heating and self-ignition of solid materials
- 10:20 – 10:40 SCARAFILO, D.: Insight into the habitats of microorganisms, algae, fungi on surfaces of bulding materials
- 10:40 – 11:00 RAFA, A. – GYENGE, Cs.: The use of micro hydro turbines as an alternative power source for isolated mountain areas

11:00 – 11:30 COFFEE BREAK

SECTION B2 Chair: doc. Ing. Pavol TANUŠKA, PhD.

11:30 – 11:50 ZUŠČÍK, M. – HAVELKA, F. – MUSIL, M.: Continuous controlled damper which can work without commonly used sensors

11:50 – 12:10 VLKOVIČ, O. – ŠPENDLA, L. – TANUŠKA, P.: Effective stress testing

12:20 – 13:20 LUNCH

13:20 – 15:00 PRESENTATIONS IN SECTIONS

13:20 – 13:40 ZÁVACKÝ, P. – STRÉMY, M.: Genetic algorithms in combined discrete dynamic systems

13:40 – 14:00 HALENÁR, I.: Secure communications in industrial data networks

14:00 – 14:20 ŠIMON, M. – MICHALČONOK, G.: Network intrusion detection systems in the process control networks

14:20 – 14:40 HAVELKA, F. – ZUŠČÍK, M. – MUSIL, M.: Influence of controlling current on steady – state response amplitude in simulations of a quarter – car model with magnetorheological damper using the equivalent linearization method

14:40 – 15:00 KEBÍSEK, M.: Knowledge discovery in databases and data mining tools

15:00 – 15:20 HALUŠKA, T.: Integration of erp systems

17:30 DINNER