Programme

Wednesday, 10. 09. 2008 at 18.00

17.30 – 19.30: **Registration of Participants at the Conference Reception Desk**

18.00: **Reception at the Municipality of Piran**

Thursday, 11. 09. 2008

9.30 – 9.45: MIRJAM JAN-BLAŽIČ
President, *Društvo livarjev Slovenije*
The Opening Address

Plenary Lectures

9.45 – 10.15: H.WOLFF, *Institut für Gießereitechnik GmbH, Duesseldorf,* (D):
Progress in Core Making and Moulding – Improved Economy and Ecology

10.15 – 10.45: J.ORKAS, *Helsinki University of Technology*, (FI):
Finnish Foundry Industry and Challenges of Global Casting Markets

10.45 – 11.15: J.TYBULCZUK, *Foundry Research Institute Krakow,* (PL):
Further Development of Foundry Enterprises under the Conditions of Globalisation and Competition

11.15 – 11.45: A.KRIŽMAN*, M.DEBELAK**, V.PIRIH**, M.JAN-BLAŽIČ***, *[*]Univerza v Mariboru, [**]Gospodarska zbornica Slovenije, ***Društvo livarjev Slovenije*, (SI):
Slovenian Foundry in 2007 and Foundry Technological Achievements

11.45 – 12.00: **Solemn Conferment of Title »Honorable President of the Slovenian Foundrymen Society« to Alojz Križman, Prof. PhD.**

12.00 – 12.15: **Break**

General Issues

12.15 – 12.35: P.SCHUMACHER, *Oesterreichischer Giessereiinstitut Leoben*, (A):
Nucleation Control for Cast Alloys

12.35 – 12.55: J.BAST*, A.KADAUW*, A.MALASCHKIN**, *TU Bergakademie Freiberg, **Georg Fischer AG Leipzig,* (D):
Optimitization of Moulding Parameters for Green Sand Compaction by Computer Simulation and a new Compaction Measuring Device

12.55 – 13.15: J.C.STURM, M.BODENBURG, *MAGMA GmbH* , (D):
Autonomous Casting Process Optimization: The next Generation of Virtual Tools to Improve Casting Design and Processes.

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13.15 – 13.35: R.DÖPP, *Technical University Clausthal,* (D):
Contribution to the Development of Cast Iron Diagrams

13.35 – 15.00: **Lunch Break**

Section A:
Cast Iron and Casting Technology

15.00-15.20 E.SUBAŠIĆ*, B.PUSTAL*, B.HALLSTEDT*, C.BARTELS**, W.SCHÄFER***, A. BÜHRIG-POLACZEK*, **RWTH Aachen University*, **Claas Guss GmbH, ***Magma Giessereitechnologie GmbH, (D):
Improvement of Porosity Prediction in High-Alloyed Nodular Irons Using Coupled Micro-Macro Modelling for Commercial Software Applications

15.20 – 15.40: F.UNKIĆ, Z.GLAVAŠ, K.TERZIĆ, *Faculty of Metallurgy, University of Zagreb,* (CRO):
Comparison of Cast Iron for Automotive Engine Thermo-mechanical Loaded Parts

15.40 – 16.00: H.RÖDTER, *Rio Tinto Iron & Titanium GmbH,* (D):
News about Risers and Feeding the Ductile Iron Castings

16.00 – 16.15: **Break**

16.15 – 16.35: O.SCHMITZ, *KOINS Co., Ltd. Sävedalen,* (SE):
The PourTECH™ System - State of Art Pouring Equipment

16.35 – 16.55: R.RADIŠA *, S.MARKOVIĆ**, J.PRISTAVEC***, V.KVRGIĆ*, S MANASIJEVIĆ*, *LOLA institut, Beograd, ***Fakulty of Technology and Metallurgi Belgrad* (Serbia), ****Exoterm-it,* (SI):
Use of CAE Techniques in Virtual Design of Metalcasting Technology - Savings in Serbian Foundries

16.55 – 17.15: I SUDEC, V.VELJAČA, *RC Metali. Virovitica,* (CRO):
Production Optimization of Ductile Casting EN-GJS-400-15 Related to Metalgraphic and Mechanical Properties

Section B: Non-ferrous alloys

15.00 – 15.20: P.MRVAR, M.PETRIČ, J.MEDVED, A.MAHMUTOVIČ, *Univerza v Ljubljani,* (SI):
Development of New Method for Determination of Susceptibility to Shrinkage of Al Alloys during Solidification

15.20 – 15.40: J.ROUČKA*, A.SLÁMA*, V.KANA*, J.MAKALOUŠ*, R.KOPLIK**, *VUT-FSI Brno, **MOOD international, Brno, (CZ):
Filtration of Aluminium Alloys

15.40 – 16.00: J.MEDVED, M.VONČINA, P.MRVAR, *Univerza v Ljubljani,* (SI):
The Influence on Atmosphere on the Corrosion of AlSi9Cu3 Alloy

16.00 – 16.15: **Break**

16.15 – 16.35: N.ROZMAN*, F.ZUPANIČ*, M.PETRIČ**, J.MEDVED** P.MRVAR**, **Univerza v Mariboru, **Univerza v Ljubljani,* (SI):
Die Casting of the Al-Mn-Be-Cu Alloy

16.35 – 16.55: P.HATALA*, J.HANJAL**, **Association of Hungarian Foundries, **FEFERRUM Ltd.,* (HU):
Connections between the Casting Production and the Alloy Production for the Casting Industry

16.55 – 17.15: M.CIGLAR, D.LORBER, Talum d.d. Kidričevo, (SI):
Development of the Casting Process for Casting Reader Casing on a Low-Pressure Die-casting Machine

Thursday, 11. 09. 2008 at 18.30

Trip by a boat along the Slovenian coast with a fish dinner. The boats »PORTOROŽ« and »LAHO« shall be anchored at the main pier in Portorož.

Friday, 12. 09. 2008

Section A:
Cast Iron and Casting Technology

9.00 – 9.20: K.WEISS*, C.HONSEL*, M.BAMBERGER**, U.WASMUTH***, M.HOFFMANN***, P.SCHAAF****, **RWP GmbH, **Technion, ***TU München, ****TU Göttingen,* (D):
Development of a Simulation Model to Ensure ADI Properties

9.20 – 9.40 T.ELBEL, J.HAMPL, *VSB – Technical university of Ostrava,* (CZ):
Effect of Chemical Composition on Pinholes Formation in Compacted Graphite Cast Iron

9.40-10.00 P.JELINEK, J.BEŇO, *VŠB – Technical University of Ostrava,* (CZ):
New Generation of Composite Bentonite Binding Agents

10.00-10.15 **Break**

10.15-10.35 S.KASTELIC*, P.MRVAR*, J.MEDVED*, M.SLOVAČEK**, **Univerza v Ljubljani, (SI), **Mecas Esi, Brno,* (PL):
Welding and Heat Teatment Simulation of Steel S355

10.35-10.55 M.HORAČEK, O.CHARVAT, V.SMRČKA, *Brno University of Technology*, (CZ):
"Rapid Wax Patterns" Obtained by RP and Silicone Mould Technologies

10.55-11.15 V.ILIJESKI, T.BARZOV, *MZT LEARNICA AD,* (MK):
Standardization of Technical-technological Parameters for Providing the Quality of Castings on the Savelli Automatic Moulding Line in MZT Learnica a.d. Skopje

11.15-11.30 **Break**

11.30-11.50 F.JEZERŠEK, *SIAPRO d.o.o. Cerkno,* (SI):
Cost Maintenance Optimization in Cast Iron Foundry

11.50-12.10 M.SPASOJEVIČ, *Cimos Titan d.o.o. Kamnik,* (SI):
Lining of Induction Holding Furnace for Cast Iron – Procedures and Materials

12.10 – 12.30: D.PIHURA *, D.NOVIĆ **, **Univerzitet u Zenici, Metalurški institut »Kemal Kapetanović«, **Energoinvest, Sarajevo,* (BiH):
Estimation of Importance of Some Influencing Parameters in Manufacturing Ductile Iron Castings

Section B:
Non-ferrous alloys

9.00 – 9.20: B.TONN, H. ZAK, O.ZAK, C.REEB, *TU Clausthal*, (D):
New Solutions for Cast Aluminium Alloys for Automotive Components

9.20 – 9.40 Z.BRODARAC*, P.MRVAR**, F.UNKIĆ*, J.MEDVED**, *University of Zagreb, (CRO), **Univerza v Ljubljani, (SI):
Influence on the Cooling Rate of the Microstructure Development of the AlMg9 Alloy

9.40 – 10.00 V.KRUTIŠ, M.KOVÁČ, *MECAS ESI s.r.o.,* (CZ):
ESI Group Casting Solution - Numerical Simulation as a Tool of Communication

10.00 – 10.20: **Break**

10.20 – 10.40: R.RUDOLF **, I.ANŽEL* , V.LAZIĆ***, D.STAMENKOVIĆ ***, **Univerza v Mariboru, **Zlatarna Celje d.d., (SI), ***Univerzitet u Beogradu,* (Serbia):
The Influence of Zn Addition on the High Noble Gold – Platinum Dental Alloys Microstructure Formation

10.40 – 11.00 M. TERČELJ, P. MRVAR, G. KUEGLER, M. FAZARINC, J. MEDVED, *Univerza v Ljubljani ,* (SI):
Hot Deformability of MgAl6Mn Foundry Alloy Solidified at Three Various Rates

11.00-11.20 A. GUSEL, Z. PUŠNIK, B. URNAUT, A. MIKLOŽIČ, *Mariborska Livarna Maribor d.d.,* (SI):
Use of Modern Methods in Optimizing Pressure Die Casting of Aluminium-

alloy Engine Bearer

11.20-11.40 **Break**

11.40-12.00 A. KRALY, M. PAPEŽ, *Aluminium Lend GmbH&Co KG,* (A):
Aluminium; Light Metal, Development to High-Tech Solutions

12.00-12.20 **S.KORES**, *Univerza v Ljubljani,* (SI):
Influence of Mg, Cu and Fe Addition on the Properties of Hypereutectic Al-Si Alloys

12.20-12.40 G. KLANČNIK, J. MEDVED, P. MRVAR, M. VONČINA, *Univerza v Ljubljani,* (SI):
The Influence of Recycling on the Solidification and Microstructure Development in AlSi9Cu3 Alloy

13.00 **The Closing of Conference and Lunch in Hotel Slovenia**

Posters

1. K.BAKO, BA.Co Ltd Budapest, (HU):
E-learning Portal of Technological Knowledge in Non-ferrous Casting production, CAE DS: Leonardo Project of the European Union

2. B.KARPE, B.MARKOLI, B.KOSEC, *Univerza v Ljubljani,* (SI):
Analysis of the Significant Physico-metallurgical Parameters for Joining the AlSi6Cu4 and AlCu5NiCo Aluminium Alloys by Casting and Diffusion

3. P.MRVAR, M.TERČELJ, G.KUGLER, J.MEDVED, *Univerza v Ljubljani*, (SI):
Hot Deformation of Foundry AlMg9Mn Alloy and its Influence on Obtained Properties

4. M.PETRIČ, P.MRVAR , J.MEDVED, M.VONČINA, B.MEGLIČ, *Univeza v Ljubljani*, (SI):
Mechanical Properties of Al-alloys Dependant on Die-casting Parameters

5. B.ŠENK, *Exoterm-it d.o.o.,* (SI):
The Meaning of Reach for Enterprise

6. P. MALINOWSKI*, University of Science and Technology Krakow*, (PL):
Casting Quality Improvement, Searching and Analysing Processes Acceleration and Better Data Exchange by Using Database for Foundry Engineers – Simulation DB system

7. I.SUDEC, V. VELJAČA, *RC Metal Virovitica*, (CRO):
Use of Simulation Program QUICKCAST for Solving Shrinkage Porosity Problems on EN-GJS-600-3 Casting