**PROGRAMME**

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| Wednesday, 16. 09. 2015 |

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| 16.30-19.00: | Registration of participants at the Conference reception desk |
| 17.30: | Bus transfer from Hotel Slovenija to Piran |
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| 18.00: | Reception at the Municipality of Piran |

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| Thursday, 17. 09. 2015Hall Cristoforo Colombo |

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| 9.30-9.45: | MIRJAM JAN-BLAŽIČPresident, *Društvo livarjev Slovenije***The Opening Address**  |

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| Thursday, 17. 09. 2015 Hall Cristoforo ColomboPlenary Lectures |

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9.45-10.15: M. SCHUMACHER, *Bundesverband der Deutschen Gießerei-Industrie,*

 *Düsseldorf* (D): **Status and challenges of German and European Foundries**

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10.15-10.45: R. BÄHR, S. SCHARF, M. LIEPE, E. RIEDEL, *Otto – von – Guericke –
 University Magdeburg, Institute of Manufacturing Technology and Quality
 Management* (D): **Primary Shaping – The Additive Manufacturing
 Process**

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10.45-11.15: A. KRIŽMAN1 , M. DEBELAK2 , M. JAN-BLAŽIČ3, P. MRVAR4, *1Univerza*

 *v Mariboru,2Gospodarska zbornica Slovenije,3Društvo livarjev Slovenije,
 4Univerza v Ljubljani, Naravoslovnotehniška fakulteta* (SLO): **Slovenian
 Foundry in the Year 2014 and its integration into the development
 strategy of the metallurgy in Slovenia 2015-2025**

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11.15-11.30: **Break**

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11.30-12.00: P. SCHUMACHER1,2, K. TUCAN2, P. HOFER2, *1Chair of Casting Research,
 University of Leoben, Leoben, 2Austrian Foundry Research Institute, Leoben,* (A): **Aspects of modern production methods of integrated high pressure die castings**

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12.00-12.30: M. TOPIĆ1, K. TSCHIGGERL1, M. RAUTER2, K. DOSCHEK2, H.
 BIEDERMANN1, H. RAUPENSTRAUCH2, *1Chair of Economic and Business*

 *Management, Montanuniversitaet Leoben, 2Chair of Thermal Processing
 Technology, Montanuniversitaet Leoben* (A): **Foundry products and their
 added value in life cycle assessments**

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12.30-13.00: I. RIPOSAN1, V. UTA1, I.C. STEFAN1, M.C. FIRICAN1, S. STAN1, R.L.

 NARO2, D.C. WILLIAMS2, *1Politehnica University of Bucharest, Bucharest*

(RO), *2Asi International, Ltd, Cleveland, Ohio* (USA): **Cast Iron Inoculation
 Enhancing – Solution for Critical Production Conditions**

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13.00-15.00: **Lunch Break**

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15.00-15.30: K. WEISS, *RWP GmbH, Roetgen* (D)**: Calculation of Micro Matrix for**

 **Aluminium Silicon Alloys**

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15.30-16.00: B. KALKUNTE1, V.KOLDA2, *1Calcom* *ESI SA* (CH), *2Mecas ESI* (CZ):
 **Casting simulation applied successfully to die castings in industries**

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16.00-16.15: **Break**

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16.15-16.45: R. SQUATRITO, I. TODARO, L. TOMESANI, *Centro Interdipartimentale di
 Ricerca Industriale Meccanica Avanzata e Materiali* (I): **How research can**

 **support European foundries to increase their competitiveness: some**

 **examples of success from the Italian Motor Valley**

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16.45-17.15: P. MRVAR1 , M. PETRIČ1 , J. MEDVED1, M. KOMPREJ1, A. KRIŽMAN2 ,
 *1Univerza v Ljubljani, Naravoslovnotehniška fakulteta ,2Univerza v Mariboru* (SLO)*:* **Production of reference samples**

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|  **Thursday evening, 17. 09. 2015** |

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| 18.00 : Dinner on board of boats Portorož and Laho and a boat ride along Slovenian coast  |
| 21:30: Afterwards gathering on the terrace of hotel Riviera |
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| **Friday, 18. 09. 2015Section A Hall: Robert ScottCast iron and casting technology** |

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* + - 1. A. NOFAL1, M. AHMED1, L. REIZIG2, A.-H. HUSSEIN3, *1Central Metallurgical R & D Institute (CMRDI), Cairo, 2Fraunhofer Institute- IWT, Freiburg* (D), *Faculty of Engineering, Cairo University* (EG): **Machinability of Austempered Ductile Iron (ADI) as related to**

 **Microstructure and Strain Hardening Behaviour**

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9.20-9.40: R. DOEPP, *Technical University Clausthal* (D): **Contribution to ductility of cast Fe-C-SI-X-materials**

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9.40-10.00: B. BAUER 1, I. MIHALIC -POKOPEC1, P. MRVAR2 , *1* *Fakulteta za strojništvo in brodogradnjo, Univerza v Zagrebu* (CRO)*,2* *Univerza v Ljubljani, Naravoslovnotehniška fakulteta* (SLO) : **Influence of cooling rate and addition of Ce and Bi on graphite morphology in spheroidal graphite iron**

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10.00-10.15: **Brake**

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10.15-10.35: I. DUGIĆ, *Linnaeus University, Faculty of Technology, Department of*

 *Mechanical Engineering, V*ä*x*jö*, Sweeden* (S): **Effect of cooling rate on the casting defects of high chromium white cast iron for the impellers**

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10.35-10.55: M. ACARER1, M.ÖZDEMIR1, H. AHLATCI2, Y.TÜREN2, Y.SUN2, *1Selcuk University, Metallurgy-Materials Engineering Department, Konya, 2Karabuk University, Metallurgy-Materials Engineering Department, Karabuk* (TR): **Characterization of Co Base Superalloy Produced by Investment Casting**

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10.55-11.15: P. WEISS, P. BANSZERUS, C. CREMER, A. BÜHRIG-POLACZEK,
 *Gießerei-Institut der RWTH Aachen* (D): **Copper and Aluminium in High Silicon Ductile Iron**

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11.15-11.30: **Brake**

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11.30-11.50: D. SOJER1, M. BRUNČKO2,1, Ž. ERMAN1, I. ANŽEL2, *1Magneti Ljubljana*

 *d.d., Ljubljana, Slovenia, 2University of Maribor, Faculty of Mechanical*

 *Engineering,Maribor,Slovenia* (SLO): **Centrifugal atomization of Nd-Fe-B
 flakes used for production of permanent magnets**

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11.50-12.10: Č. MIKYŠKA, *Livar d.d., Ivančna Gorica* (SLO): **Effect of different covers
 for “sandwich” method**

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12.10-12.30: U. KLANČNIK1, J. HABJAN1, M. DROBNE1, P. MRVAR2, J. MEDVED2, *1Valji, d.o.o., Slovenija, 2Univerza v Ljubljani, Naravoslovnotehniška fakulteta, Slovenija* (SLO): **Characterization of a modified indefinite chill cast iron working layer in rolls**

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12.30-12.45: **Brake**

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12.45-13.05: J. KUNIČ1, M. FLETER2, 1*FerroČrtalič d.o.o.* (SLO)*, 2Ervin Amasteel* (UK): **The use of abrasives in foundry industry**

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13.05-13.25: D. ŽIVKOVIĆ1, D. MANASIJEVIĆ1, D. MINIĆ2, N.TALIJAN3, V.
 ĆOSOVIĆ3, A. KOSTOV5, *1University of Belgrade, Technical Faculty in Bor, 2Univeristy of Priština, Faculty of Technical Sciences, Kosovska Mitrovica, 3University of Belgrade, Institute of Chemistry,Technology and Metallurgy, 4Institute for Mining and Metallurgy, Bor* (SRB): **Survey on some potential ecological metallic materials with application in electronics**

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13.25-13.45: D. MUJAGIĆ1, D. PIHURA2, D. NOVIĆ3, *1University Zenica, Metallurgical institute “K. Kapetanović”, Zenica*, *2Ljevari BIH”, Zenica, 3Energoinvest, Sarajevo* (BIH): **Bringing pilot plant knowledge to foundry platform**

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| **Friday, 18. 09. 2015Section BHall: Roald AmundsenNon-ferrous alloys** |

9.00-9.20: J. MEDVED1, S. KORES1,P. MRVAR1, M. VONČINA1, A. KRIŽMAN2
 1*Univerza v Ljubljani, Naravoslovnotehniška fakulteta,2Univerza v Mariboru* (SLO): **Influence of Zr addition on Al alloys properties**

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9.20-9.40: T. MUHIČ, A. MEGUSAR, *LTH Castings d.o.o., Ljubljana, Škofja Loka* (SLO):**Tightness testing of liquid cooler housings for electronics with helium in air atmosphere**

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9.40-10.00: W.K. KRAJEWSKI1, J. BURAŚ1, G. PIWOWARSKI1, P.K. KRAJEWSKI1, A.L. GREER2, K. FAERBER3, P. SCHUMACHER3, *1AGH University of Science and Technology, Faculty of Foundry Engineering, Krakow,* (PL), *2University of Cambridge, Department of Materials Science and Metallurgy, Cambridge,* (UK), *3University of Leoben, Department of Metallurgy, Leoben* (A): **Processing of molten aluminium-zinc based cast alloys**

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10.00-10.15: **Brake**

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10.15-10.35: B. MARKOLI, B. LESKOVAR, I. NAGLIČ , *Univerza v Ljubljani,
 Naravoslovotehniška fakulteta* (SLO): **Development of high-strength
 quasicrystalline Al-based alloys via casting into permanent mould**

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10.35-10.55: F. ZUPANIČ1, T. BONČINA1, C. GSPAN2, *1 University of Maribor, Faculty of Mechanical Engineering* (SLO), *2* [*Institut für Elektronenmikroskopie und Nanoanalytik*](https://online.tugraz.at/tug_online/webnav.navigate_to?corg=3390&cperson_nr=52512)*, Graz* (A): **Precipitates in an aluminium quasicrystalline alloy**

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10.55-11.15: Z. ZOVKO BRODARAC1, J. KALINIĆ2, V. ŠUICA1, *1University of Zagreb, Faculty of Metallurgy, Sisak* (CRO)*, 2Jajce Alloy Wheels Ltd, Jajce* (BIH):**Solidification sequence of AlSi11 alloy**

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11.15-11.30: **Brake**

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* + - 1. R. RUDOLF 1,2 , *1University of Maribor,Faculty of mechanical Engineering,2Zlatarna Celje* (SLO): **Gold nanoparticles –Properties, Synthesis and Application**

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11.50-12.10: N. M. TALIJAN1, V. R. ĆOSOVIĆ1, A. R. ĆOSOVIĆ2, D. T. ŽIVKOVIĆ3,
 *1University of Belgrade, Institute of Chemistry, Technology and Metallurgy, 2Institute for Technology of Nuclear and Other Mineral Raw Materials, 3 University of Belgrade Technical Faculty in Bor* (SRB)*:* **Innovative approach on improvement of metal oxide dispersion and structure dependent properties of Cd free silver/metal oxide electrical contact materials**

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12.10-12.30: M. PETRIČ1, J. MEDVED1, S. KASTELIC2, A. KRIŽMAN3,P. MRVAR1,
 *1Univerza v Ljubljani, Naravoslovnotehniška fakulteta, 2TC Livarstvo Ljubljana, 3Univerza v Mariboru* (SLO): **Measurement of dimensional changes of AlSi alloys during solidification**

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12.30-12.45: **Brake**

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12.45-13.05: J. PRISTAVEC1, H. ROCKMANN2, *1EXOTERM-IT d.o.o., Kranj* (SLO), *2MAGMA GmbH, Aachen* (D): **Finding causes of crack occurrence at
 automotive wheels with the use of numerical simulation of the complete production cycle**

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13.05-13.25: U. GAUERMANN, *Electronic GmbH, Neuhausen* (D): **Cost reduction by
 using process data systems**

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13.25-13.45: S. MULLER*,* H. PRIES, K. DILGER, *Braunschweig University of
 Technology, Braunschweig* (D): **Prediction of thermal fatigue life for
 aluminium die casting moulds by experimental and computational methods**

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| **Poster presentations** |

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1. G. TIMELLI, A. GUGLIELMI, D. CALIARI, *University of Padova, Department of Management and Engineering, Vicenza* (I): **Effects of process parameters on the microstructure and casting defects of a LPDC engine block**

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1. D. CALIARI, G. TIMELLI, *University of Padova, Department of Management and Engineering, Vicenza* (I): **Characterization of anodic oxide film formed on HPDC components**

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1. M. ZEYVELI, Y. TÜREN, *Karabuk University, Faculty of Technology, Department of Mechatronic Engineering* (TR): **Investigation of the effects of cooling rate and cutting parameters on the machinability of the ecobrass**

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1. Y. SUN, S. YILMAZ, H. KOÇAK, M. ACARER, H. AHLATCI, Y. TUREN, *Departments of Metallurgical and Materials Engineering, Engineering Faculty, Karabuk University* (TR): **Effect of Aging Heat Treatment on Mechanical Properties of Cupro NSS Alloys Produced by Casting**

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1. M. ÜNAL, H. A. GÖREN, E. KOC, *Karabuk University, Technology Faculty, Karabuk* (TR): **An investigation on cooling rates as a function of Si content of AZ91 magnesium alloy**

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1. Y. TUREN, M. M. YILDIRIM, M ACARER, H. AHLATCI, Y. SUN, M. UNAL, *Karabuk University, Engineerung Faculty, Department of Metallurgical and Materials Egineering, Karabuk* (TR): **The effect of silicon content on microstructure and mechanical properties of lead-free brass casting alloys**

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1. H. AHLATCI, H. CUG, H. ZENGIN, Y. TUREN, Y. SUN, M. ACARER, *Karabuk University,* *Engineerung Faculty, Department of Metallurgical and Materials Egineering, Karabuk* (TR): **The effect of manganese content on wear properties of AS41 magnesium casting alloys**

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1. M. ACARER, G. ARICI, F. AYDIN, M. UYANER, M. COLAK, R.KAYIKCI, *Selcuk
University, Technology Faculty, Konya* (TR): **Production of 3Cr-3W Steel by
 Investment Casting**

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1. A. MAHMUTOVIĆ1 , S. KASTELIC1, P. MRVAR2, A. KRIŽMAN 3, *1TC Livarstvo Ljubljana,2Univerza v Ljubljani, Naravoslovnotehniška fakulteta, 3Univerza v Mariboru* (SLO): **Novelties in the numerical simulations of casting process**

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1. M. VONČINA1 , V TUBIN2, P. MRVAR1, J. MEDVED1 , 1*Univerza v Ljubljani, Naravoslovnotehniška fakulteta, 2Talum, Tovarna aluminija d.d. Kidričevo* (SLO): **Bonding of AA 1170 and AA 6060 alloys**

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1. A.KRIŽAJ1, M.SVETLIN1, A.MAHMUTOVIĆ2, P.MRVAR3, *1Livarna Titan d.o.o., 2TC Livarstvo d.o.o., 3Univerza v Ljubljani, Naravoslovnotehniška fakulteta* (SLO): **Master of casting of connection heads from white malleable cast iron**

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