

PROGRAMME / PROGRAM

66th IFC Portoroz 2026 / 66. IFC Portorož 2026

Wednesday / Sreda, 16/09/2026

- 16.30 – 19.30** **Registration of participants at the Conference reception desk /**
Prijava udeležencev na recepciji konference
- 17.30** **Bus transfer from Hotel Slovenia to Piran /** Avtobusni prevoz od
Hotela Slovenije do Pirana
- 18.00** **Reception in the garden of the Cultural Center Georgios – in the**
church of St. George – With a greeting from the representative of
the Municipality of Piran / Sprejem na vrtu Kulturnega centra Georgios
pri cerkvi sv. Jurija s pozdravnim nagovorom predstavnika županstva
Občine Piran

Thursday / Četrtek, 17/09/2026

- 7.30 – further / dalje** **Registration of participants at the Conference reception desk /**
Prijava udeležencev na recepciji konference

Thursday / Četrtek, 17/09/2026

Hall/Hala

Plenary lectures / Plenarna predavanja

Cristoforo Colombo

- 9.30 – 9.45** MIRJAM JAN-BLAŽIČ,
President of the Slovenian Foundrymen Society / Predsednica Društva
livarjev Slovenije
The Opening Address / Uvodni nagovor
- 9.45 – 10.15** ► P. HOFER-HAUSER¹, J. LI¹, ¹Montanuniversität Leoben (AT): **New
perspectives in Mg-die casting /** Nove perspektive pri tlačnem litju Mg
- 10.15 – 10.45** ► D. MOLNÁR, University of Miskolc (HU): **Development of cast iron
materials for automotive brake systems /** Razvoj sive litine za
avtomobilske zavorne sisteme
- 10.45 – 11.15** ► P. MRVAR¹, M. PETRIČ¹, H. PALKOWSKI² AND S. KASTELIC^{3,1},
¹Department of Materials and Metallurgy, University of Ljubljana (SI),
²Institute of Metallurgy, Clausthal University of Technology (D), ³TC
Livarstvo d.o.o. (SI): **Possibilities of casting techniques for
production of composed as-cast foams for biodegradable
applications /** Možnosti livarskih tehnik za izdelavo sestavljenih litih
biorazgradljivih kovinskih pen za biorazgradljive aplikacije

► Invited Lecture / Vabljeno predavanje

11.15 – 11.45	Break / Odmor
11.45 – 12.15	► P. LARSEN, DISA Industries A/S (DK): The power of aluminium in green sand for a sustainable future / Moč aluminija v bentonitni peščeni mešanici za trajnostno prihodnost
12.15 – 12.45	B. GOLUH ¹ , U. PEVNIK ¹ , ¹ HIPROJECT d.o.o. (SI): Humanoid robotics – the next step in industrial automation / Humanoidna robotika – naslednji korak v industrijski avtomatizaciji
12.45 – 13.15	► V. HORENBURG ¹ , T. LUDWIG ¹ , M. INDRIYATI ¹ , P. ÅSHOLT ¹ , ¹ Hydro Aluminium (NO): Aluminum foundry alloys for structural castings with higher post-consumer scrap content / Aluminijeve livarske zlitine za konstrukcijske ulitke z višjo vsebnostjo sekundarnih surovin
13.15 – 15.00	Lunch Break / Kosilo
15.00 – 15.30	► I. RIPOSAN ^{1*} , S. STAN ¹ , I. STAN ¹ , D. ANCA ¹ , E. STEFAN ¹ , M. CHISAMERA ¹ , ¹ National University of Science and Technology POLITEHNICA Bucharest (RO): Ferritic high-Si ductile cast irons – performance materials with spheroidal graphite morphology affectation / Feritne nodularne litine z visoko vsebnostjo silicija – visokozmogljivi materiali z nadzorovano morfologijo kroglastega grafita
15.30 – 16.00	► A. DELIĆ ¹ , A. ZULIĆ ¹ , ¹ AMA TEC d.o.o. Tuzla (BiH): Production of tubes by centrifugal casting / Izdelava cevi s centrifugalnim litjem
16.00 – 16.15	Break / Odmor
16.15 – 16.45	► L. FERNANDES GOMES ¹ , M. HAESCHE ¹ , D. LEHMHUS ¹ , J. CLAUSEN ¹ , C. PILLE ¹ , D. DITTRICH ² , L. ULLMANN ² , R. DREXLER ² , A. JAHN ² , C. KRETZER ³ , G. SCHOLZ ³ , F. SUKOWSKI ³ , ¹ Department of Casting Technology, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM (D), ² Department of Joining, Fraunhofer Institute for Material and Beam Technology IWS (D), ³ Development Center for X-Ray Technology, Fraunhofer Institute for Integrated Circuits IIS (D): From casting challenges to advanced joining technique: a combined approach using locally optimized die strategy and dynamic laser beam oscillation welding of AISi10MnMg HPDC joints / Od izzivov pri litju do naprednega spajanja: kombinirani pristop z lokalno optimizirano strategijo tlačnega litja in dinamičnim laserskim varjenjem z oscilacijo žarka za spoje zlitine AISi10MnMg
16.45 – 17.15	► R. RUDOLF ^{1,2,3} , P. MAJERIČ ^{1,2,3} , ¹ Faculty of Mechanical Engineering, University of Maribor (SI), ² Jožef Stefan Institute (SI), ³ Zlatarna Celje d.o.o. (SI): Development of a new dental alloy pd-Ag for porcelain technique and the certification process according to MDR / Razvoj nove dentalne zlitine Pd-Ag za porcelansko tehniko in postopek certifikacije po uredbi MDR

Thursday Evening / Četrtek večer, 17/09/2026

19.30 Foundrymen's night on the coastline opposite Hotel Slovenija /
Livarski večer na obali nasproti Hotela Slovenija

Friday / Petek, 18/09/2026

Hall/Hala

SECTION / SEKCIJA A

Amerigo Vespucci

Cast Iron, Foundry Techniques and Technology /

Železove litine, livarske tehnike in tehnologije

9.00 – 9.20 ► M. J. CASTRO-ROMÁN¹, L.F. DE SANTIAGO-MÉNDEZ¹, P. M. FLORES-MORALES¹, M. HERRERA-TREJO¹, ¹Cinvestav Unidad Saltillo (MX): **Quantify Graphite Flake Branching in Grey Cast Iron /** Določanje razvejanosti grafitnih lamel v sivi litini

9.20 – 9.40 ► R. P. JUNG¹, J. NIEMINEN¹, J. PARTINEN¹, S. VON WALDOW², ¹Resand Oy (FIN), ²Resand Deutschland GmbH (D): **Successful thermal-mechanical sand reclamation of complex and oxidation sensitive foundry sands – experiences and perspectives /** Uspešna termomehanska regeneracija kompleksnih in na oksidacijo občutljivih livarskih peskov – izkušnje in perspektive

9.40 – 10.00 M. REBITZER, FRENZELIT GMBH (D): **Frenzelit offers solutions like isoplan GREENLINE, that will help to make your foundry process that little bit greener /** Frenzelit ponuja rešitve, kot je isoplan GREENLINE, ki prispevajo k bolj trajnostnim livarskim procesom

10.00 – 10.30 Break / Odmor

10.30 – 10.50 ► I. VASKOVA¹, O. KOŽEJ¹, P. DELIMANOVÁ², ¹Technical University of Kosice (SK), ²Pavol Jozef Šafárik University of Kosice (SK): **Development trends in foundry moulding and core mixtures /** Razvojni trendi na področju formarskih in jedrnih peščenih mešanic

10.50 – 11.10 G. DEMASI, TREBI SRL (IT): **Artificial intelligence in industrial production system: practical value beyond the hype /** Umetna inteligenca v industrijskih proizvodnih sistemih – praktična vrednost onkraj navdušenja

11.10 – 11.30 C. VAN ETTINGER (NL): **Measurement reliability and real-time analysis of austenite liquidus- and eutectic undercooling in hypoeutectic cast iron /** Zanesljivost meritev in analiza podhladitve avstenitnega likvidusa ter evtektika v hipoevtektični litini v realnem času

11.30 – 11.45 Break / Odmor

► Invited Lecture / Vabljen predavatelj

11.45 – 12.05	G. KLANČNIK ¹ , V. VENGUST ² , F. FILIPIČ ² , L. KRAJNC ¹ , M. KOLEŽNIK ¹ , ¹ Pro Labor d.o.o. (SI), ² Štore Steel d.o.o. (SI): Control over steel melt quality of high Sulphur melts as a pre-condition for billet casting – an example of mat.no.1.2312, using highly fluid slag / Spremljanje kakovosti jeklene taline z visokim dodanim žveplom kot predpogoj za kontrolo notranje kakovosti gredic – primer izdelave jekla mat.no.1.2312 z uporabo fluidne žlindre
12.05 – 12.25	S. KRUMM ¹ , J. SCHEURELL ¹ , ¹ BINDUR GMBH (D): Low-emission organic core binders – a solution to the challenges of today and tomorrow / Nizkoemisijška organska veziva za jedra – rešitev za današnje in prihodnje izzive
12.25 – 12.45	C. CRETU, Jodovit Srl (IT): Process materials as enablers of sustainable foundry operations: approaches for emission reduction, workplace safety and process efficiency / Procesni materiali kot ključni dejavnik trajnostnega livarstva: pristopi k zmanjševanju emisij, izboljšanju varnosti pri delu in povečanju učinkovitosti procesov
13.00	Conclusion of the Conference with Lunch / Zaključek konference s kosilom

Friday / Petek, 18/09/2026

SECTION / SEKCIJA B:

Non-ferrous Alloys / Neželezove zlitine

Hall/Hala

Cristoforo Colombo

9.00 – 9.20	M. BODENBURG ¹ , E. HEPP ¹ , ¹ MAGMA Gießereitechnologie GmbH (D): Quality-optimized and cost-effective manufacturing of components using semi-solid processes / Kakovostno optimizirana in stroškovno učinkovita izdelava komponent s postopki litja v testastem stanju
9.20 – 9.40	S. FRITSCH ¹ , J. URŠIČ ² , ¹ YIZUMI d.d. (CH), ² JUCOM d.o.o. (SI): Competitive die casting through sino-european innovation – the strategic edge / Konkurenčno tlačno litje s kitajsko-evropskimi inovacijami – strateška prednost
9.40 – 10.00	► M. PETRIČ ¹ , A. MAHMUTOVIĆ ² , S. KASTELIC ¹ , N. TROBEC ¹ , P. MRVAR ¹ , ¹ Faculty of natural Sciences and Engineering, University of Ljubljana (SI), ² TC Livarstvo (SI): Casting process design of prototype casting of throttle body / Načrtovanje tehnologije litja prototipnega ulitka ohišja dušilne lopute za vbrizgavanje goriva
10.00 – 10.30	Break / Odmor
10.30 – 10.50	► Z. ZOVKO BRODARAC ¹ , F. KOZINA ¹ , M. PAPEŠ ² , S. LAZIĆ ³ , ¹ University of Zagreb Faculty of Metallurgy, Sisak (CRO), ² Ministry of Finance, Customs Administration, Customs Office Sisak, Sisak, (CRO), ³ CIAL Ltd Sisak (CRO): Crossover potential of a recycled aluminium

De-OX alloy / Potencial za širšo uporabo reciklirane De-OX aluminijeve zlitine

10.50 – 11.10 ► R. CHELARIU^{1,2}, N. CIMPOESU^{1,2}, B. ISTRATE¹, R. CIMPOESU^{1,2}, LIVIU ANDRUSCA¹, ¹Gheorghe Asachi Technical University of Iasi (RO), ²Romanian Foundry Technical Association (RO): **As-cast biodegradable Zn-based alloys for temporary biomedical implants: processing, microstructure, properties** / Lite biorazgradljive cinkove zlitine za začasne biomedicinske vsadke: izdelava, mikrostruktura in lastnosti

11.10 – 11.30 E. ZANINELLI, RS Robot Service SRL (IT): **How a robotic automation can help your metal finishing operations?** / Kako lahko robotska avtomatizacija pomaga pri končni obdelavi kovin

11.30 – 11.45 **Break / Odmor**

11.45 – 12.05 M. FASSINA, Gefond S.r.l. (IT): **Gefond S.R.L. greencasting temperature control units** / Gefond S.R.L. greencasting enote za nadzor temperature

12.05 – 12.25 J. VOLKERT, promeos GmbH (D): **HEATELLIGENCE®: controlling heat as a critical process variable in metallurgical operations** / HEATELLIGENCE®: nadzor toplote kot kritične procesne spremenljivke pri metalurških procesih

12.25 – 12.45 L. MAZZONI, PIQ2 (IT): **Expert system and dual phase simulation-based engineering of a Zinc die casting mould remake – a real case** / Ekspertni sistem in simulacijsko podprto načrtovanje z dvofazno simulacijo pri predelavi tlačnega orodja za ulivanje cinkovih zlitin – praktični primer

13.00 **Conclusion of the Conference with Lunch / Zaključek konference s kosilom**

Friday / Petek, 18/09/2026

Hall/Hala

SECTION C / SEKCIJA C:

Vasco da Gama

**Master's or doctoral students or researchers /
Magistrski ali doktorski študenti oziroma raziskovalci**

9.00 – 9.20 N. BIRÓ¹, G. GYARMATI¹, D. MOLNÁR¹, GY. FEGYVERNEKI¹, ¹University of Miskolc, (HU): **Capabilities of thermal analysis of Al-Si alloys** / Zmožnosti termične analize Al-Si zlitin

9.20 – 9.40 N. K. CERAJ¹, P. MRVAR², R. ŠTURM¹, ¹University of Ljubljana, Faculty of mechanical engineering (SI), ²University of Ljubljana, Faculty of natural sciences and engineering (SI): **Master control of internal stresses and deformations on "pipe part" casting made of gray cast iron with lamellar graphite** / Celovito obvladovanje notranjih napetosti in deformacij na ulitku »del cevi« iz sive litine z lamelnim grafitom

► Invited Lecture / Vabljeno predavanje

9.40 – 10.00 L. KRESNIK¹, M. SVETEC^{2,3}, R. RUDOLF^{1,2,4}, ¹Faculty of Mechanical Engineering, University of Maribor (SI), ²Jožef Stefan Institute (SI), ³Faculty of Natural Sciences and Mathematics, University of Maribor (SI), ⁴Zlatarna Celje d.o.o. (SI): **Advanced technologies for manufacturing electronic components based on nanomaterials / Napredne tehnologije za izdelavo elektronskih komponent na osnovi nanomaterialov**

10.00 – 10.30 Break / Odmor

10.30 – 10.50 V. NYESTE¹, D. MOLNÁR¹, V. MERTINGER¹, University of Miskolc (HU): **The influence of local squeezing on the microstructure and properties of hypoeutectic and eutectic Al-Si alloys / Vpliv lokalnega stiskanja na mikrostrukturo in lastnosti nadevtektskih in evtektskih Al-Si zlitin**

10.50 – 11.10 L. HOČURŠČAK¹, T. VUHERER¹, D. KLOBČAR², T. BONČINA¹, F. ZUPANIČ¹, ¹University of Maribor (SI), ²University of Ljubljana (SI): **Friction-stir processing of twin-roll cast Al-Mn-Cu alloy / Obdelava dvovaljno ulite Al-Mn-Cu zlitine s trenjem in mešanjem**

11.10 – 10.25 Break / Odmor

11.25 – 11.45 K. I. BODNÁR¹, Á. SUHAJ¹, M. TOKÁR¹, Á. KAZUP¹, T. MIKÓ¹, T. MENDE¹, A. BÁRDOS¹, ¹University of Miskolc (HU): **Influence of elevated pressure on the microstructure and electrical conductivity of commercial-purity aluminum / Vpliv povišanega tlaka na mikrostrukturo in električno prevodnost tehnično čistega aluminija**

11.45 – 12.05 B. JANC¹, P. MRVAR¹, V. JOVIČIĆ², ¹University of Ljubljana, Faculty of Natural Sciences and Engineering (SI), ²University of Ljubljana, Faculty of Civil and Geodetic Engineering (SI): **Comprehensive analysis of TBM disc cutter wear in rock tunnel excavation and new opportunities for the foundry industry / Celovita analiza obrabe kotalnih diskov TBM pri izkopavanju predorov v kamninah ter nove priložnosti za livarsko industrijo**

13.00 Conclusion of the Conference with Lunch / Zaključek konference s kosilom

Thursday / Četrtek, 17/09/2026

Timetable of Poster Presentations / Urnik posterskih predstavitev

HALL / HALA: James Cook,

In Front of the Poster Place / Pred panojem za posterje

11.45 – 12.00 M. VONČINA¹, M. STEINACHER², M. KROPEC², J. MEDVED¹, ¹University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Materials and Metallurgy (SI), ²IMPOL 2000 D. D. (SI):

► Invited Lecture / Vabljeno predavanje

Optimizing homogenization parameters for enhanced formability of EN AW-7020 Aluminium alloy / Optimizacija homogenizacijskih parametrov za izboljšano preoblikovalnost aluminijeve zlitine EN AW-7020

12.00 – 12.15

T. DREVENŠEK², M. VONČINA¹, J. MEDVED¹, M. PETRIČ¹, S. KORES², ¹University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Materials and Metallurgy (SI), ²TALUM d.d. (SI): **Effect of recycled alloy content on grain reffinig, modification and mechanical properties of Aluminium alloy AlSi7Mg / Vpliv deleža krožne litine na učinek udrobnjevanja, modificiranja in mehanske lastnosti aluminijeve zlitine AlSi7Mg**

13.00

Conclusion of the Conference with Lunch / Zaključek konference s kosilom