**POSVET – Materiali v krožnem gospodarstvu /**

**Materials in a circular economy**



Duration: 9.00 – 13.50

Moderators: Strategic Council for Metallurgy

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| 9:00 – 9:10 | **INTRODUCTORY**: presiding members of the Strategic Council for Metallurgy |
| 9:10 – 9:50 | Effect of the fourth industrial revolution on materials science and surface engineering - Kolozsvary Zoltan, plenary speaker |
| 9:50 – 10:10 | Non-Metallic Inclusions in Steel: A Metallurgist's Perspective - Jaka Burja, IMT |
| 10:10 – 10:25 | Slag processing and steelmaking waste management - Mojca Loncnar, SIJ Acroni |
| 10:25 – 10:40 | Beneficial use of waste heat for the purposes of district heating and sanitary hot water in Ravne na Koroškem - Kristijan Plesnik, SIJ Metal Ravne |
| 10:40 – 11:00 | Aluminium, material for lighter future – Jožef Medved, NTF OMM |
| 11:00 – 11:15 | Optical Emission Spectrometry (OES) data-driven on-line prediction of the amount of non-metallic inclusions in wrought aluminium alloys -  Varužan Kevorkijan, IMPOL |
| 11:15 – 11:30 | Circular economy as a partnership with the customer - Stanislav Kores, TALUM |
| 11:30 – 12:00 | **COFFEE BREAK** |
| 12:00 – 12:20 | Metallurgy of hot-working - Kugler, NTF OMM |
| 12:20 – 12:40 | Wear mechanisms and wear resistance of forming tools - Bojan Podgornik, IMT |
| 12:40 – 12:55 | Lightweight design in automotive industry based on metal material - Vili Malnarič, TPV |
| 12:55 – 13:15 | Reflections on Modelling - Igor Belič, IMT |
| 13:15 – 13:30 | Evolutionary methods in Slovenian steel industry – case studies - Miha Kovačič, Štore Steel |
| 13:30 – 13:50 | Are polymer-based materials compatible with circular economy principles? -Andrej Kržan, KI |
| 13:50 – 15:00 | **LUNCH** |