



VIII International Conference of PhD Students  
in celebration of 2018 Steelworker's Day



9:00-10:00

REGISTRATION

OPENING SESSION

10:00-10:10	<i>Welcome speeches</i>	dr hab. inż. Rafał Dańko, prof. AGH, prof. dr hab. inż. Marek Przybylski
10:10-10:40	<i>Spheroidal Graphite Ductile Cast Irons draft standard, a modern approach</i>	Franco Zanardi – President & CEO of Zanardi Fonderie
10:40-11:10	<i>Modelling and simulation of foundry processes</i>	dr hab. inż. Janusz Lelito, prof. AGH,

SESSION 1 PRESENTATIONS

11:20-11:35	<i>Characterization and application of galinstan alloy as a replacement for mercury</i>	Katarzyna Jedlińska Justyna Ubysz Bogusław Baś
11:35-11:50	<i>Crystallization kinetics of Mg<sub>72</sub>Zn<sub>24</sub>Ca<sub>4</sub> bulk metallic glass</i>	Bartosz Opitek Janusz Lelito
11:50-12:05	<i>Improving of operational reliability by means of using of substructurally strengthened pipes</i>	Gruzevich Andrii
12:05-12:20	<i>Biodegradable magnesium alloys for applications in medicine</i>	Andrzej Fijołek Jagoda Ryba Halina Krawiec Łukasz Rogal Janusz Lelito
12:20-12:35	<i>Recycling of waste zinc sludges with the use of pyrometallurgical technologies</i>	Wojciech Kaśa Tomasz Wojtal
12:35-12:50	<i>Anodic dissolution of cobalt as method receiving nanoparticles</i>	Anna Waliczek Maria Starowicz
12:50-13:05	<i>Automatization of Foundry Industry: An Industry 4.0 initiative</i>	Yashesh Pandya Józef Suchy
13:05-13:20	<i>Influence of the heat treatment on corrosion resistance of Ti-6Al-4V alloy in artificial saliva</i>	Jagoda Ryba Halina Krawiec
13:20-13:35	<i>The effect of polymer modification on selected properties of natural calcium bentonite</i>	Sylvia Cukrowicz Beata Grabowska

<b>13:35-13:50</b>	<i>Heating surfaces of supercritical pressure units Improving of operational reliability by means of using of substructurally strengthened pipes.</i>	<b>Gruzevich Andrey Dmitry Derecha</b>
<b>13:50-14:05</b>	<i>The newtonian thermal Derivative express analysis gray iron using the method of recognizing of the cooling curve shape</i>	<b>Sirenko Ekaterina Eduard V. Zakharczenko Andriy Burbelko</b>

#### 14:00-15:45 LUNCH BREAK

#### SESSION 2 POSTERS

<b>15:45-15:55</b>	<i>Samaria Doped Ceria matrix for Molten Carbonate Fuel Cells bulk metallic Glass</i>	<b>Robert Baron Tomasz Wejrzanowski</b>
<b>15:55-16:05</b>	<i>Recycling of waste zinc sludges with the use of pyrometallurgical technologies</i>	<b>Wojciech Katsa Tomasz Wojtal</b>
<b>16:05-16:15</b>	<i>Elaboration of the technology of tin and antimony recovery – stage one</i>	<b>Bogusław Basiura Adam Bydątek</b>
<b>16:15-16:35</b>	<i>Optimization of 'slag splashing' process</i>	<b>Viktor Sinelnikov Dorota Kalisz Michał Szucki Ruslan Kuzemko</b>
<b>16:35-16:45</b>	<i>Fourier Thermal Analysis of Exothermic Materials for Foundry Engineering</i>	<b>Tomasz Wiktor Andriy Burbelko</b>
<b>16:45-16:55</b>	<i>Effect of non-isothermal ageing on microstructure and physical properties in supersaturated Ag-Cu<sub>7,5</sub> alloy</i>	<b>Krystian Sokołowski Grzegorz Włoch Anna Wicher Marcel Zambrzycki</b>
<b>16:55-17:05</b>	<i>Additive manufacturing in foundry engineering – a review, role and perspective</i>	<b>Adrianna Kania Jagoda Ryba Katarzyna Berent</b>

#### CLOSING SESSION

<b>17:20-17:30</b>	<i>Announcement of the winners of the competition for the best presentation and poster; handing out prizes</i>
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