

Thursday, January 15, 2026

"YOUNG SCIENTISTS" SESSION

Session Chair: *PhD, Eng. Monika CHOMIAK*
 PhD, Eng. Damian MARKUSZEWSKI

- 17:00 Daniel MASIK, Damian MARKUSZEWSKI: *Analysis of mechanical properties of electroplated 3D prints*
- 17:10 Jonasz HARTWICH, Sławomir DUDA, Sebastian SŁAWSKI: *Application of smart materials based on nitinol for structural diagnostics*
- 17:20 Ewelina CHMIELNICKA, Małgorzata SZYMICZEK: *Effect of poly(dimethylsiloxane) modification on electrical conductivity and physicomechanical properties*
- 17:30 Aleksander CZAJKA, Sylwester SAMBORSKI, Jakub RZECZKOWSKI: *Application of acoustic emission techniques and machine learning methods in damage evaluation*
- 17:40 Michał LELEŃ, Jerzy JÓZWIK: *Influence of kinetic energy on abrasive water jet cut surface quality in the context of interfacial delamination in multilayer hybrid structures*
- 17:50 Elīna VĪNDEDZE, Tatjana GLASKOVA-KUZMINA, Didzis DEJUS, Jānis JĀTNIĒKS, Maksims JURINOVŠ, Sergejs GAIDUKOVŠ: *Tensile, compressive, and flexural testing of fdm-printed ULTEM™ 9085: effects of printing orientation and testing rate via ISO and ASTM standards*
- 18:00 Mateusz MAŁYSIAK, Monika CHOMIAK, Adam SUCHANEK, Paweł BŁASZCZYK, Dominik LUBOJAŃSKI, Marta GRABOWSKA, Filip MIKA, Małgorzata SZYMICZEK: *Influence of waste-based organic additives on the mechanical and physical properties of polylactic acid composites*
- 18:10 Norbert KLĘK, Oliwia CUDNIK, Bartosz WOLNY, Filip ZYNEK, Jakub JONAK, Kuba ZORYCHTA, Szymon FLAK, Piotr JURECZKO, Małgorzata SZYMICZEK, Monika CHOMIAK: *Analysis of the impact of sandwich materials structures on the performance properties of multifunctional polymer composites*
- 18:20 Maciej LATO: *Analysis of the possibilities of using 3D printing in the manufacturing of grinding wheels*
- 18:30 Jakub JEDLIŃSKI, Damian MARKUSZEWSKI: *Research of electrically conductive 3D printing filament*
- 18:40 Piotr ZAGULSKI, Rafał CHATYS: *Influence of the polymerisation process on the strength prediction of polymer-based composites, taking into account technology and operating factors*
- 19:15 **Summary and closing of the session**