

# The winner of the Thermo Fisher Scientific & ČSMS 2020 Grant

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Daria Drozdenko, Ph.D., Univerzita Karlova, MFF

Ms. Daria Drozdenko, Ph.D. at the Department of Physics of Materials at Charles University in Prague (a) is an internationally acknowledged expert in the field of Material Physics and Characterization. We are pleased to provide this letter of a strong recommendation in support of her application for a stipendium funded by ThermoFisher Scientific a CSMS.

We have followed her work over the last 8 years and have come to know her personally during many visits to our respective institutions as part of our collaborative research projects. During the course of a collaborative research project conducted between the Department of Physics of Materials and our Magnesium Innovation Centre at the Helmholtz-Zentrum Geesthacht she organized a technique for measuring the acoustic emission during mechanical testing of wrought magnesium alloys. Her special interest in combining this in-situ technique with other mechanism-revealing techniques, including electron microscopy and electron backscatter diffraction, helped to understand the deformation controlling mechanisms of single crystal magnesium as well as polycrystalline textured wrought magnesium alloys such as rolled sheets and extruded profiles. Her research on the analysis of the effect of alloying elements and texture on the mechanical properties of magnesium alloys has made significant contributions in the determination of the active deformation mechanisms. Her results have been summarized in joint publications in recognized international journals as well as in some very relevant contributions at international conferences that focused on the field of magnesium technology and materials characterization.