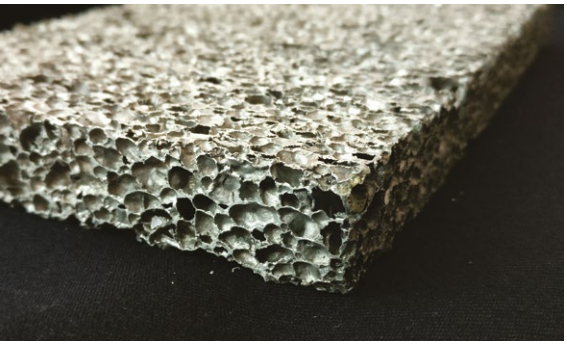
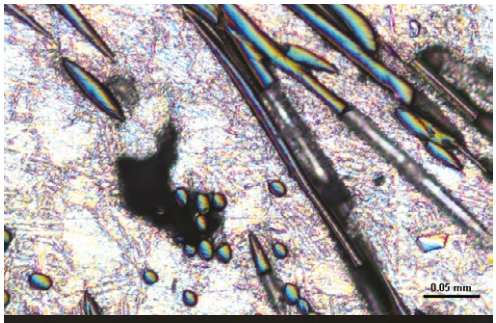
The main directions of research of Maritime University of Szczecin are areas of manufacturing, processing and recycling of castings from metal and polymer composite materials (including single polymer poliester composites) and the use of description methods (destructive and non-destructive) and identification of their structure (among others by using stereological and statistical methods).



Problems of structure defects of these materials (quality description while using management tools), their properties, superplasticity (of metals and their alloys and composites), joining methods (mainly welding or welding), and the production of metal-ceramic foams (Patent No. 211439 "Method of manufacturing construction elements from foamed metals") with thermal treatment together with research methodology.

Production of layered materials from metal-ceramic foams and glass-polymer laminates for special purposes in inland navigation.



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