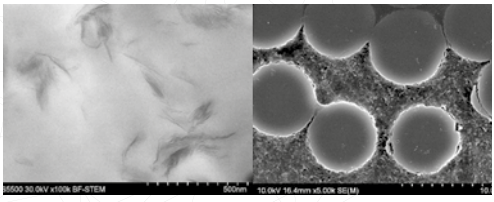
Faculty of Materials Science and Engineering, is the one of leading research & development centre in Poland in the area of materials science. We possesses high class equipment. Works are focused on links between microstructure and quality of materials used in different industry sectors e.g. aerospace, energy and medicine. A predominating group are functional composites based on polymer matrix e.g.:

- Electrically conductive nanocomposites
- GFRP, CFRP and MMC
- Magnetorheological elastomers
- Self healing composites
- Electroactive nanocomposites
- Icephobic and superhydrophobic materials
- design, fabrication and characterization of new materials
- non-destructive testing

Faculty was and still is involved in number of the European and National projects, e.g.: SARISTU, ELECTRICAL, PLATFORM, PHOBIC2ICE, IceSurfer.



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Institute of Aviation and Applied Mechanics (IAAM) has an expertise in design, stress analysis, manufacture (prototypes) and tests of CF/epoxy, GF/epoxy airframes of gliders and motor gliders, (7 completed projects), and other structural elements. Moreover, design and manufacture of the related tooling (models and composite moulds for VBO curing at T≤130°C). Substantiation of the strength of complete airframe up to ultimate loads can be run at 54°C. IAAM can also run basic tests for determination of mechanical material properties as well as, the critical values of the SERR for interlaminar Mode I, Mode II and Mixed-Mode I/II fracture

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