

Prof. Dr. Fatih MENGELOĞLU

Kahramanmaraş Sutcuimam University (KSU)
Faculty of Forestry, Department of Forest Industry Engineering
fmengelo@ksu.edu.tr

- We are group of scientists from two different universities (KSÜ and Karadeniz Technical University) and Industry (Kastamonu Integrated (KEAS)) and interested in collaboration for Era-Net project.
- Experienced on projects funded by both national and internationally
- Working on various fields of wood science;
 - Thermoset based wood composites (Fiberboard, particleboard, plywood, OSB, etc.)
 - Thermoplastic based wood composites (Synthetic and Biodegradable based polymers)
 - Pulp and paper making
 - Wood protection
 - Heat treatment of wood
 - Densification of wood
 - Wood pellets

- **The tests/experiments given below are performed in our laboratories.**

- Physical and mechanical property testing of composites
- Compression, injection and extrusion process
- Test for wood decay
- Wood modification (thermal modification and acetylation)
- Impregnation (full and empty cell methods)
- Quality control tests for treated wood (penetration depth, retention, fixation etc.,)
- Wood structure inspections using non-destructive tools (resistograph, micro hammer, acoustic tomography etc.,)
- Mycelium materials (packaging, boards etc.,)
- Culture fungi growth (i.e., *Pleutorus ostreatus*)

- **The tests/experiments given below are performed in our laboratories.**

- Chemical Analysis and Fiber Morphological Properties
- Mechanical and Chemical Pulping and Testing
- Pulp Bleaching
- Recycling
- Antimicrobial Papermaking
- Papermaking and Testing

In addition to pulping, bleaching, and recycling, we have potentials in papermaking with two sheet formers: British Handsheet Former and Rapid Kothen Paper Machine. We have a pretty good equipment to determine the physical and optical properties.