

### Czech University of Life Sciences Prague

- Faculty of Forestry and Wood Sciences
- Faculty of Economics and Management
- Faculty of Agrobiology, Food and Natural Resources
- Faculty of Environmental Sciences
- Faculty of Tropical AgriSciences
- Faculty of Engineering
- Institute of Education and Communication

ČESKÁ ZEMĚDĚLSKÁ UNIVERZITA V PRAZE

ČESKÁ ZEMĚDĚLSKÁ UNIVERZITA V PRAZE FAKULTA LESNICKÁ A DŘEVAŘSKÁ

#### **FACULTY OF FORESTRY AND WOOD SCIENCES**

- 8 departments incl. 1 strong department focused on wood sciences: Dept. of Wood Processing and Biomaterials
- Around 190 employees
- Wood-based materials properties and their utilization, thermally modified wood
- Technical and technological parameters of wood machinery, construction and maintenance of woodcuts tools
- Design and production technology of wooden products and constructions
- Logging and transport technologies; impact on forest ecosystems; harvesting technology, skyline logging systems and forest roads

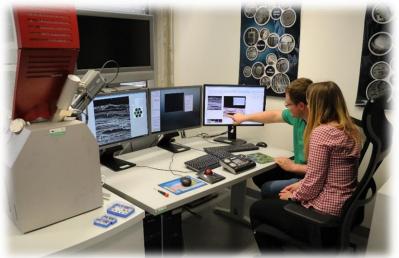


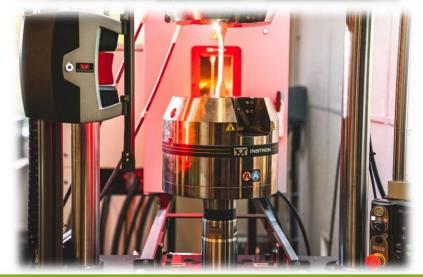


# ČESKÁ ZEMĚDĚLSKÁ UNIVERZITA V PRAZE

ČESKÁ ZEMĚDĚLSKÁ UNIVERZITA V PRAZE FAKULTA LESNICKÁ A DŘEVAŘSKÁ

- Genetics, Physiology, Entomology
- Forest Ecology
- Forest Management
- Forest Protection
- Forestry Economics
- Wood Processing and Biomaterials







#### **OUR LABORATORY CAPABILITIES**

- testing of wood, composites, coatings, adhesives
- destructive and non-destructive testing of physical and mechanical properties
- testing of fire properties (burning spread, burning rate, burned area etc.) of wood based materials
- microscopy (visible light, SEM, TEM, EDX, AFM, Raman microscopy)
- instrumental techniques (FTIR, DSC, GC-MS)
- natural and accelerated weathering/aging of surfaces (UV chamber, Xenotest, temperature cycling)
- modification of materials (surface treatment, thermal modification, vacuum-pressure impregnation)
- remote sensing (drones, UAV)
- CT scanner, digital shooting range



#### RESEARCH INFRASTRUCTURE

#### **HIGH-TECH PAVILION & WOOD SCIENCES PAVILION**



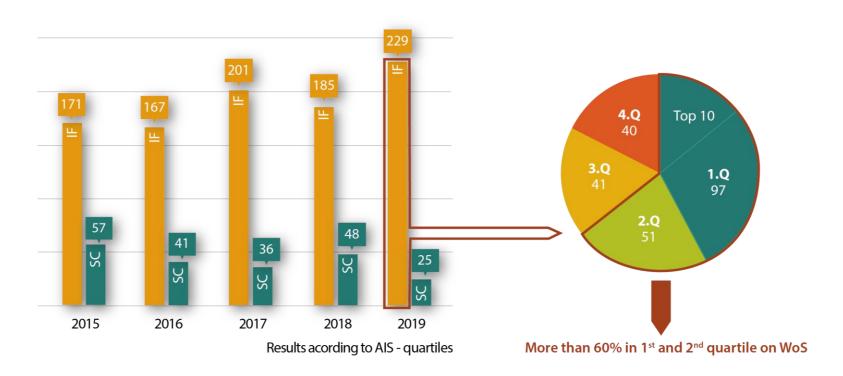


EQUIPMENT FOR SCIENTIFIC PURPOSES AND TEACHING WITHIN BACHELOR'S, MASTER'S AND DOCTORAL STUDY PROGRAMS

## ČESKÁ ZEMĚDĚLSKÁ LINIVERZITA V PRAZE

#### ČESKÁ ZEMĚDĚLSKÁ UNIVERZITA V PRAZE FAKULTA LESNICKÁ A DŘEVAŘSKÁ

#### **PUBLISHING ACTIVITIES**





#### **R&D PROJECTS**

### **EVA 4.0 STRATEGIC PROJECT (2018-2022)**

Programme 1: Organisms in relation to Global Change (GC)

Programme 2: Production and disturbation regimes of forest ecosystems

under GC and Industry 4.0

Programme 3: New bio-based materials and technologies with respect to GC

trends and the fourth industrial revolution





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#### **R&D PROJECTS**

DEVELOPMENT OF GLUING SYSTEMS FOR DECIDUOUS OAK WOOD FOR STRUCTURAL AND NON-STRUCTURAL APPLICATIONS IN EXTERIOR (TAČR) (2020-2022)

INFLUENCES OF METHYLXANTHINE-BASED BIOCIDES ON THE PROPERTIES OF WOOD FOR CONSTRUCTION PURPOSES (GAČR) (2019-2021)





**H2020 GREEN DEAL CALL** 

WE ARE STILL LOOKING FOR A PARTNER

Area: Industry for a clean and circular economy

**Topic:** Wood recycling and material utilization of recycled wood in the form of

a multi-stage cascade as a solution to future wood shortage

#### H2020

**Area:** Rural renaissance

**Topic: RESONATE** (Resilient forest value chance – enhancing resilience through

natural and social economic responses)









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#### Ing. Radek Rinn

First vice-dean, vice-dean for Strategy, Development and International Relation +420 602 298 240

rinn@fld.czu.cz





FAKULTA LESNICKÁ A DŘEVAŘSKÁ FLD CzuFld