**02 #Подаци о Катедрама Одсека за ТМП (наставници и сарадници)**

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| **Chair** |
| The Chair of Primary Wood Processing |
| **Head of Chair** |
| Dr. Vladislav Zdravković, associate professor |
| **Chair Development** |
| The basis of the Chair of primary wood processing together with related subjects was established by the Decree of the Faculty of Agriculture in Belgrade of 21st September 1924, when a new subject *Elements of machines and installations for wood processing* was introduced to the curriculum, as well as the subject *Forest trade and industry*. According to the Law on Universities of 28th June 1930, the Agriculture and Forestry Faculty in Belgrade passed the 1932 Regulation that subjects taught at the Forestry department were: *Mechanical wood processing* and *Chemical wood technology*. The regulation of agricultural and forestry faculties in Belgrade and Zagreb of 30th May 1939 established the curriculum of Forestry departments with 39 subjects, when the following new subjects appear among others: *Fundamentals of general mechanical and electrical engineering* and *Forest mechanical engineering*. A new Forest-industrial Department was established with the 1945/46 curriculum. It had a curriculum of largely technical and technological orientation, and the subject *Mechanical wood processing* was taught in the fourth year of study.  In the1958 curriculum the Wood-industrial Department was divided into the Department of mechanical processing and the Department of chemical processing. Then the Forestry Department abolished the subject *Mechanical wood processing*, and the Department of mechanical wood processing introduced the subject *Primary mechanical wood processing*. Later on, at the Department of wood processing the subject *Primary mechanical wood processing*was divided into three subjects: *Wood processing in sawmills* and *Veneers* *and plywood*.  The teaching at the Chair was performed by prof. Dr. Milutin Knežević, the first Ph.D. in the field of wood processing, who successfully taught the subjects *Wood processing in sawmills*, *Technology of processing of wood*, *veneers and plywood* and *Wood processing machines.* Although he was a forestry engineer by education, he laid the foundations of Wood Processing at our Faculty, and we owe him gratitude for the establishment and development of the Wood-industrial department. The second generation of teachers at the Chair included prof. Dr. Nadežda Lukić-Simonović, prof. Dr. Momir Nikolić, prof. Dr. Mihailo Nikolić and Mr. Darinka Sisojević who laid the foundations of *Wood anatomy* from the aspect of wood technology.  In this period prof. Dr. Svetislav Vasiljević, prof. Dr. Jovan Pavić and prof. Dr. Mihailo Petrović provided significant help in the teaching of the subjects or related disciplines necessary for the Chair development. The third generation of teachers of the Chair included prof. Dr. Borislav Šoškić, prof. Dr. Branko Kolin and Assistant Professor Dr. Luka Glavaški. The fourth generation of teachers includes prof. Dr. Zdravko Popović, Full Professor and Dr. Vladislav Zdravković, Associate Professor. The fifth generation of teachers includes Dr. Goran Milić, Assoc. prof., Dr. Ranko Popadić, Assistant Professor Dr. Nebojsa Todorović Assistant Professor and Dr. Aleksandar Lovrić, Assistant Professor.  Until finding a permanent staff solution, generous help in the teaching of *Wood anatomy* in this period has been provided by prof. Dr. Dragica Vilotić from the Department of Forestry. |
| **Chair members** |
| Head of Chair: Dr. Vladislav Zdravković, Associate Prof.  Deputy Head of Chair: Dr. Goran Milić, Associate Prof.  Chair Secretary: Grad.eng. Goran Cvjetićanin  Other chair members:   1. Dr. Zdravko Popović, Full Professor 2. Dr. Nebojša Todorović, Assistant Professor 3. Dr. Ranko Popadić, Assistant Professor 4. Dr. Aleksandar Lovrić, Assistant Professor 5. Grad. eng. Marko Veizović, teaching associate   Chair members ‒ non-teaching staff:   1. Grad.eng. Bojana Stanković, laboratory technician 2. Eng. Predrag Stanković, laboratory technician |
| **Chair subjects** |
| **Undergraduate studies**  *Compulsory subjects*  Wood anatomy  Properties of wood  Technological wood properties  Wood processing in sawmills  Veneers and particle boards  *Elective subjects*  Engineering solid wood products  Technologies of wooden houses production  Fundamentals of mechanical wood processing  **Master studies**  *Compulsory subjects*  Wood science  *Elective subjects*  Properties and application of engineering solid wood products  Technical properties of construction wood  Modern wood products in construction  Modifications of wood  The quality of raw materials, veneer and veneer products  Wood drying  The quality of raw material and sawmill products  Planning and programming of saw mill production  Methods of construction using wood  Modeling and techniques of assembly of wooden constructions  **Doctoral studies**  Properties of wood  Non-destructive methods of wood properties testing  Rheology of wood  Theories of wood drying  Wood processing in sawmills  Veneers and particle boards  **Vocational studies**  *Compulsory subjects*  Anatomy and chemistry of wood  Properties of wood  Drying and steaming of wood  *Elective subjects*  Wood processing in sawmills  Veneers and particle boards |
| **Selected student papers / final papers/ master papers / dissertations/ field training** |
| Doctoral dissertations:  LOVRIĆ, Aleksandar. Mogućnost primene termički modifikovanog topolovog furnira u proizvodnji furnirskih ploča: Beograd: 2015. 151 list, ilustr.  TODOROVIĆ, Nebojša. Primena bliske infracrvene spektroskopije u predviđanju svojstava termički modifikovanog drveta bukve sa lažnom srčevinom. Beograd: 2012. 234 lista, ilustr., graf. prikazi.  MILIĆ, Goran. Mogućnost primene oscilatornog sušenja piljene građe bukve u konvencionalnim sušarama. Beograd: 2010. 115 lista, ilustr., graf. prikazi.  POPADIĆ, Ranko. Istraživanje uticaja prečnika i kvaliteta bukove oblovine na količinu glavnih i sporednih proizvoda u pilanskoj preradi drveta. Beograd: 2014. 177 lista, graf. prikazi.  ZDRAVKOVIĆ, Vladislav D.. Model upravljanja kvalitetom ljuštenog furnira uz primenu elemenata teorije pouzdanosti. Beograd: 1997. IX, II, 141 list, ilustr.  POPOVIĆ, Zdravko D.. Fenomen tečenja aksijalno pritisnutog jelovog lameliranog drveta pod konstantnim i promenljivim opterećenjem. Beograd: 1996. 187 listova, ilustr.  GLAVAŠKI, Luka. Stabilnost oblika i dimenzija i mogućnosti primene topolovih piljenih sortimenata izrađenih tehnikom utvrđenom za jelu i smrču. Beograd. 1995. 163 listova, graf. prikazi.  KOLIN, Branko. Uticaj temperature na pritisnu čvrstoću i graničnu higroskopnost drveta. Beograd: 1985. 2 sv.  ŠOŠKIĆ, Borislav. Istraživanje tehnoloških svojstava munike (*Pinus heldreichii - Christ*.) sa različitih staništa i mogućnosti njenog racionalnog iskorišćenja. Beograd: 1981. 316 listova, graf. prikazi.  NIKOLIĆ, Momir. Zavisnost fizičko-mehaničkih svojstava evroameričkih topola (*Populus robusta i Populus serotina*) i domaće crne topole od nekih spoljašnjih i unutrašnjih faktora. Beograd, 1974. (2), 252 listova, 36 slika, 50 tabela.  NIKOLIĆ, Mihailo. Fizičko-mehanička svojstva i ekonomičnost proizvodnje šperploča kombinovanih od bukovih i topolovih furnira u zavisnosti od nekih faktora. Beograd, 1971. (3), 209 str., 27 grafikona.  LUKIĆ SIMONOVIĆ, Nadežda. Uporedna istraživanja tehnoloških svojstava drveta *Picea omorika* *Panč*. i *Picea excelsa* Lin. u vezi sa uticajem staništa. Beograd, 1961. (4), 126 listova, 26 tabela.  KNEŽEVIĆ, Milutin. Raspored gaterskih testera (španung) pri maksimalnom kvantitativnom iskorišćenju. Beograd: 1952. (2), 72 str.  Master of Science theses:  LOVRIĆ, Aleksandar. Iskorišćenje jelove oblovine u zavisnosti od osnova piljenja. Beograd: 2007. X, 85 listova, ilustr., graf. prikazi.  TODOROVIĆ, Nebojša. Aksijalno utezanje drveta bukve (*Fagus moesiaca C.*), hrasta kitnjaka (*Quercus sessiliflora S.*) i smrče (*Picea excelsa L.*). Beograd: 2006. 85 listova, ilustr., graf. prikazi.  POPADIĆ, Ranko. Uticaj osnova primarnog piljenja na iskorišćenje bukove oblovine i sortimentnu strukturu rezane građe. Beograd: 2006. 82 lista, ilustr., graf. prikazi.  MILIĆ, Goran. Uticaj trajanja kondicioniranja pri sušenju na smanjenje naprezanja u drvetu bukve i hrasta. Beograd: 2006. XI, 66 lista, ilustr., graf. prikazi.  ZDRAVKOVIĆ, Vladislav D.. Uticaj oblika pritisne grede na kvalitet bukovog ljuštenog. Beograd: 1991. 138 listova, ilustr.  POPOVIĆ, Zdravko. Uticaj vlažnosti i temperature na modul elastičnosti i savitljivost bukovog drveta. Beograd: 1990. 137 listova, ilustr.  MAGLOV, Radoslav. Istraživanje nekih parametara proizvodnje ljuštenog furnira smrče kao osnovnog materijala za furnirske ploče. Beograd: 1987. 167 listova.  GLAVAŠKI, Luka. Istraživanje nekih fizičkih i mehaničkih svojstava drveta *Populus robusta*, *Populus ostie* i *Populus I-214* i mogućnosti njihove primene u pojedinim oblastima upotrebe. Beograd: 1982. (6), 117 listova.  KOLIN, Branko. Uticaj temperature na tačku zasićenosti žice važnijih domaćih vrsta drveća. Beograd: 1977. 109 listova, ilustr.  ŠOŠKIĆ, Borislav. Uticaj načina slaganja rezane građe pri parenju na fizička i mehanička svojstva bukovine posle parenja. Beograd: 1977. 105 lista, graf. prikazi.  VUČELJIĆ, Mojsije. Kvantitativno i kvalitativno iskorišćenje bukovih trupaca pri rezanju tračnim pilama trupčarama po različitim ravnima. Beograd: 1976. 153 lista.  NIKOLIĆ, Momir. Uticaj transportnih sredstava na uređenje stovarišta oblovine i rezane građe kod pilana za bukovinu. Beograd: 1971. (5) 202 listova, 17 slika, 94 tabele.  NIKOLIĆ, Mihailo. Debljina furnira kao uticajni faktor na fizička i mehanička svojstva bukove šperploče sa osvrtom na ekonomičnost proizvodnje pojedinih ploča. Beograd, 1969, (2), 96 listova, 7 grafikona.  Master papers:  PANTOVIĆ, Nemanja. Proizvodnja namenskog LVL-a za građevinsku stolariju. Beograd: 2016. 47 listova, prilozi, tabele.  GOLIĆ, Igor. Brzina i ravnomernost cirkulacije vazduha u konvencionalnim komornim sušarama za rezanu gradu : master rad. Beograd: 2011. 40 lista, ilustr.  Field study  Several days long field study in subjects of the Chair of primary wood processing takes place in the teaching bases Goč and Debeli Lug. |
| **Research/ Projects** |
| "Research of the possibility of complete industrial processing of the available quantities of wood in the Federal Republic of Yugoslavia". Federal project no. T.S.I. - 080 / 1-93 (1994-2000); Project leader: Borislav Šoškić.  "Improvement of equipment and technological procedures of artificial beech drying" (2001-2003) BTR.5.06.0511.B; Project leader Dr. Branko Kolin, full prof.  "Development of new products aimed at a better utilization of raw material and improvement of wood processing export in Serbia" (2005-2008) BTN-361005A; Project leader: Dr. Zdravko Popović, associate prof.  "Improvement of the technology of conventional wood drying in terms of quality and energy consumption" (2008-2010), TR-20026; Project leader: prof. Dr. Branko Kolin.  Clustering Knowledge, Innovation and Design in the SEE WOOD sector Project leader: Forestry Institute from Ljubljana - Slovenia Duration: 1st October 2012-31st December 2014.  Project: Innovation School Sprungbrett - International student project Project leader: University of Bern - Switzerland Duration: 2015-2018 |
| **Centers/ Laboratories** |
| Today, the Chair of primary wood processing has three laboratories established through the efforts of all generations of teachers throughout its development:  - Laboratory for testing wood properties, - Laboratory for sawmill wood processing, - Laboratory for hydrothermal wood processing.  Part of the teaching in the subject Wood anatomy is held in the Laboratory for Wood Anatomy, which belongs to the Department of Forestry.  The Laboratory for testing the properties of wood and wood products was established in 1989, within the Chair of primary wood processing, and for the needs of subjects of the Wood Processing Department: *Properties of wood*, *Veneers and particle boards* and *Chipoards, Fibre Boards and Wood-Plastic Masses*. In the past, the Faculty purchased an "Amsler" type machine for the testing of mechanical wood properties and in 1989 the machine for testing the mechanical wood properties TIRATEST 2300 was modernized with appropriate accessories. In addition to these devices, in the same year the Faculty purchased an air-chamber with a volume of 1 m3, several laboratory scales, an electronic scale, two laboratory ovens, personal computers with peripheral equipment, two binoculars and several optical microscopes. In the period from 1989 to 2000, this equipment secured high-quality work, both for the needs of students and users in wood processing industry. The laboratories investigated physical and mechanical properties of wood and products of primary wood processing.  Since 2000, the Laboratory started renewing and modernizing its equipment. In 2010, the machine type "AMSLER" was modernized and in 2013 the machine of "TIRATEST 2300" type. Both machines were automated and connected to computer equipment, so that in addition to the basic mechanical properties and rheological properties of wood can be measured with high accuracy. In addition to the properties of solid wood, these machines are used to determined the characteristics of wood-based panels, as well as the strength of different compounds in final wood processing products. The Laboratory has successfully cooperated with companies in wood industry and in this respect a large number of tests have been conducted that are mostly related to the determination of wood species, the quality of solid wood, the quality of veneer and plywood and the quality of the wooden floors, etc.  Three technical solutions were implemented in the laboratories of the Chair of primary wood processing:  - The machine for testing the mechanical properties of wood and wood products `` WT-4``, - The machine for testing the mechanical properties of wood and wood products `` WT-5U``, - PASS 1: Automatic flow kiln for finished packaging veneer drying (industrial prototype). |