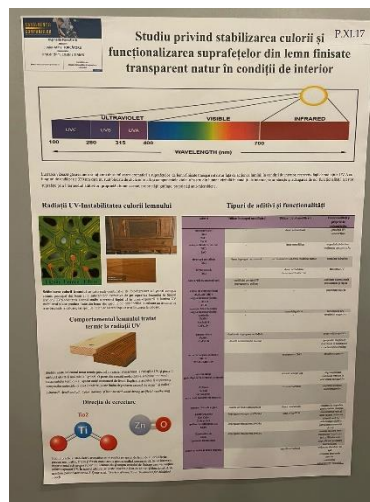


## EVENT AFCO 2022 - GRADUATES IN FRONT OF THE COMPANIES

On May 10, the AFCO 2022 (Graduates in Front of the Companies) event took place at the *Sergiu T. Chiriacescu* Hall. At the present edition, the graduates and doctoral students presented their projects results obtained during the academic year 2021-2022.



At the 4th section, "Silviculture and Forest Engineering, Furniture Design and Wood Engineering, Construction", from a total of 33 projects, 10 were registered by students from the Faculty of Furniture Design and Wood Engineering. On the 11th section dedicated to PhD students two projects were registered.



The projects registered on the 4<sup>th</sup> section "Silviculture and Forest Engineering, Furniture Design and Wood Engineering, Construction" by students from Faculty of Furniture Design and Wood Engineering are presented below:

- 1 - Optimization of a wood particle exhaust plant. Student: Constantinescu George Cristian. Coordinator: Lecturer dr.eng. Bogdan Bedelean
- 2 - Holiday home with wooden structure, located in Cluj County. Student: Scripeț Cristian. Coordinator: Lecturer dr.eng. Cosmin Spîrchez
- 3 - Wooden pergola with innovative fixing system. Student: Ursachi Andrei. Coordinator: Assoc.dr.eng. Mariana Domnica Stanciu

- 4 - House on a light wooden structure with a traditional aspect and passive certification. Student: Porumboiu Mihai Alexandru. Coordinator: Assoc.dr.eng. Mariana Domnica Stanciu
- 5 - Innovative design of electric guitar: wood - epoxy resin. Student: Stan Timian. Coordinator: Assoc.dr.eng. Mariana Domnica Stanciu
- 6 - Designing and performing a baby cot, with curved elements. Student: Aleseei Ovidiu. Coordinator: Assoc.dr.eng. Mariana Domnica Stanciu
- 7 - Furniture design for persons with visually impaired. Student: Mihnea Molnar-Varlam. Coordinator: Assoc.dr.eng. Alin Olărescu
- 8 - Furniture proposal for the living room arrangement. Student: Pupezescu Alexandru. Coordinator: Assoc.dr.eng. Alin Olărescu
- 9 - Wall structures and floors for wooden houses. Student: Ștefan Titu Dragoș. Coordinator: Assoc.dr.eng. Alin Olărescu
- 10 - Traditional finishing materials vs. Modern Investigation Techniques: Investigating the Light Resistance of Shellac Finished Wood Surfaces. Student: Ștefan Titu Dragoș. Coordinator: Prof.dr. Maria Cristina Timar

The jury members followed with interest the students' projects, and after a careful analysis, they decided to award the first prize to Stan Timian for "Innovative design of the electric guitar: wood - epoxy resin" work.



On the 11th section dedicated to PhD students, were registered twenty projects. Two projects were developed by PhD students from the Faculty of Furniture Design and Wood Engineering:

- 1 - Possibilities for transposition on the furniture of some traditional motifs from textile heritage from Tara Bârsei and surroundings. Author: PhD student Petrașcu (Lungu) Antonela Cristina. Coordinator: Prof.dr.eng. Camelia Coșereanu
  - 2 - Study on colour stabilisation and functionalisation of naturally finished wood surfaces in natural conditions. Author: PhD student Torcătoru Mihai Junior. Coordinator: Prof.dr. Maria Cristina Timar
- After the PhD students presents their work, the jury decided to award the project developed by Petrașcu (Lungu) Antonela Cristina.



**POSSIBILITĂȚI DE TRANSPUNERE LA MOBILIER A UNOR MOTIVE TRADIȚIONALE DIN PATRIMONIUL TEXTIL DIN ȚARA BĂRSEI ȘI ÎMPREJURIMI**

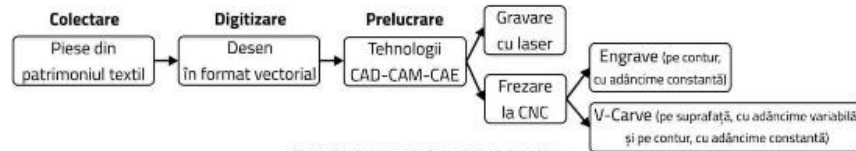


Fig. 1. Valorizarea motivelor tradiționale la mobilier



Fig. 2a. Digitizarea în format vectorial cu ajutorul programului CorelDraw



Fig. 2b. Fișier DXF care poate fi preluat de orice tip de mașină-unelte cu comandă numerică



Fig. 3. Model original



Fig. 4. Model digitizat



Fig. 5. Desen contur complet, pentru CNC

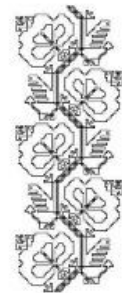


Fig. 6a. Separare desen borco, pentru laser

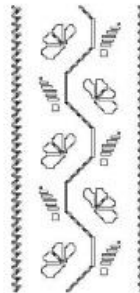


Fig. 6b. Separare desen galben, pentru laser



Fig. 7. Gravare cu laser (gaz de asistare azot) pe lemn de paltin, cu P=30W și 15W pentru cele două culori



Fig. 8. Frezare la CNC prin metoda Engrave ( $v=15.000\text{rot}/\text{min}$ ,  $u=6\text{mm}/\text{min}$ ,  $h=3\text{mm}$ )  
a. Pe lemn de paltin natur



b. Pe lemn de lârce natur, urmată de colorare



c. Pe lemn de paltin colorat, urmată de lăcuire



Fig. 9. Frezare la CNC prin metoda V-Carve ( $v=15.000\text{rot}/\text{min}$ ,  $u=6\text{mm}/\text{min}$ ,  $h=1-3\text{mm}$ )  
a. Pe lemn de paltin natur



b. Pe lemn de paltin natur, urmată de colorare



c. Pe lemn de paltin colorat, urmată de lăcuire

**Model:** Motiu vegetal cusut „în cruce” pe mâneca unei ii din comuna Bran, colecta IE-Vie. Compoziția ornamentală, supusă legilor simetriei și alternanței, conține motivul frunzei de trifoi, „urda apei” și acele de brad. Trifoiul sugerează magia numărului trei, care protejează în general viața umană, iar cel cu patru foi este considerat aducător de noroc. Apolo curgătoare însoțită de traversare, o încercare și reprezintă astfel trecerea, curgerea vieții și a timpului. Bradul poate fi asimilat cu arborele vieții, coloana vertebrală a lumii.

Edited by:  
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