



Workshop on 3D Printing: INNO3D Project Multiplier Event

12 March 2021, 11:00 EET
online

11:00 – 11:10

Research vice-rector - Prof. dr. Carmen Buzea

Transilvania University of Braşov

INNO3D at Transilvania University - Prof.dr.eng., dr. marketing Angela REPANOVICI

Transilvania University of Braşov

11:15 - 11:30

Problem Based Learning. How to create align pins in the 3D printing part

Speakers: **Santiago Ferrandiz / Octavio Fenollar**, Polytechnical University of Valencia, Spain

Description of the presentation:

Objectives: Explain how to select the 3D printing part and apply the creation and alignment pins.

Problem definition: Some people ask us about the following 3D print part. Create alignment pins and generate g-code. No material specification

11:30 – 11:45

An introduction to the 3D Printing Support Service for Innovative Citizens (INNO3D) project

Speakers: **Jerald Cavanagh**, Institute Librarian, INNO3D Project Leader, Limerick Institute of Technology; **Padraig Kirby**, Research Development and Innovation Project Officer, INNO3D Project Coordinator, Limerick Institute of Technology.

Description of the presentation: This presentation will outline the *3D Printing Support Service for Innovative Citizens* (INNO3D) project, which aims to develop tools to train Librarians in using 3D printing to have the skills to teach library users to use 3D Printing effectively. The project which also has partners from Romania, Greece, Slovakia, Spain and Portugal will enhance the quality and relevance of knowledge and skills of librarians to teach people in the area of 3D Printing leading to the reshaping and re-imagining of library services in EU countries.

11:45 – 12:00

Digital Fluency - the FCT FabLab Role

Speakers: **José Moura, Ana Alves Pereira, Ana Roxo, Maria Rosário Duarte and Filipe Silvestre**, Biblioteca, FCT NOVA, Campus de Caparica, Portugal

Description of the presentation:

The FCT FABLAB mission is to facilitate and promote access to a wide range of knowledge resources, providing users with a modern and comfortable environment, stimulating study/research/applications, and human contact. The facility is viewed as a major resource for students of all degrees, as well as teachers and researchers (academics) and the general public (Community). Libraries have traditionally been spaces for access and share of information and resources, representing the cutting-edge of new technologies, and 3D printers became a popular item among librarians and align with the mission to teach 21st-century skills with a significant impact in many different areas and fields, such as scientific research, architecture, art, manufacturing, engineering, healthcare and much more.

The Digital Literacy Program and Projects underway will be outlined, aiming to provide the users with the information and skills oriented for problem-solving. The FCT FABLAB is associated with FCT NOVA Library.

12:00 - 12:50

3D Printing Basics

Speaker: **Filipe Silvestre**, Biblioteca, FCT NOVA, Campus de Caparica, Portugal

Description of the presentation:

3D Printing and the different technologies related.

How FDM 3D Printers work.

Tinkercad and the basics of 3D modelling.

Software to be used: Tinkercad (Free software)

Requirements: Just sign-up at <https://www.tinkercad.com/>

13:00 – 13:15

INNO3D - Questionnaires on 3D printing services and competencies in Academic Libraries

Speakers: **Maria Rosário Duarte, Ana Alves Pereira, Ana Roxo, Filipe Silvestre, José Moura**, Biblioteca, FCT NOVA, Campus de Caparica, Portugal

Description of the presentation:

Questionnaires are part of the international project INNO3D “3D printing support service for innovative citizens”, under the Erasmus + program, and aims to examine 3D printing services in academic libraries in each of the partner countries. This output will reflect the state of the art of making 3D technology available in libraries. The research and analysis of results are expected to lead to the elaboration of a standardized EU consensually accepted standard competencies framework on 3D printing, supported by concrete scientific evidence, and to the development of guidelines in the training of librarians. The questionnaires intend to target Library Directors, as well as staff members. The Portuguese Partner (FCT NOVA) output was to assigned and analyze the situation on 3D printing education in each UE partner institution and Libraries.

13:15 - 13:30

The INNO3D Project Impact at the Central Library of Polytechnic University Timisoara

Romania

Speakers: **Agneta-Elisabeta Lovasz**, Central Library of the Polytechnic University of Timisoara; **Anca Draghici**, Polytechnic University of Timisoara; **Carmen Sticlaru**, Polytechnic University of Timisoara; **Simona Bursasiu**, Central Library of the Polytechnic University of Timisoara

Description of the presentation:

The Central Library of the Polytechnic University of Timisoara (UPT), Romania is honoured to be partner of the “3D Printing Support Service for Innovative Citizens INNO3D” project (grant no. 2019-1-IE02 KA203-000693INNO3D). Our intervention is related to the knowledge and experience share. Thus, we shall present the library involvement and contributions in the context of the project implementation and the connection with the libraries network of Romania. The presentation structure will focus on three points:

1. The general presentation of the Central Library of the Polytechnic University of Timisoara, Romania (brief description of the infrastructure and the services provided to the users before and after the pandemic);
2. The librarians’ skills developments in the field of 3D printing and the products that have been designed and produce in 2020;
3. Description of the new 3D printing service offer by the library with the support of specialists and experts of the university.

13:30 – 14:00

Q&A, Remarks