EMERALD: European network for 3D printing of biomimetic mechatronic systems
EEA & Norway Grant - Contract No. 21-COP-0019

MULTIPLIER EVENT on Applied Research Teaching Methods for 3D printing in Bio-Mechatronics

(organized by the Technical University of Cluj-Napoca, Romania) –
b-dul Muncii 103-105, Cluj-Napoca – room: Aula Centenar
– Event agenda-
17th of February 2023

Session 1 - Higher Education institutions session	
8:30	**Registration of participants to the Multiplier Event**
9:00	**Opening and Welcome ceremony:**
	Rector prof. dr.eng. Vasile Topa (Technical University of Cluj-Napoca, Romania)
	Vice rector prof. dr.eng. Dan Mândru (Technical University of Cluj-Napoca, Romania)
	Dean - Faculty of Industrial Engineering, Robotics & Production Engineering – Prof. Corina Bîrleanu
	Head of manufacturing Engineering Department, Associate Prof. Adrian Trif
	City Hall Institution of Cluj-Napoca, Romania – Emilia Botezan, Head of International Relations Office
9:20	**25 years of success in the field of Additive Manufacturing for Medical Applications in Romania – prof. dr.eng. Nicolae Bâlc and prof. dr.eng. Petru Berce (Technical University of Cluj-Napoca, Romania)**
9:30	**EMERALD project overall presentation – progress, actions, KPIs, perspectives / details about the event – Associate Prof. Răzvan Păcurar (Technical University of Cluj-Napoca, Romania)**
9:40	**EMERALD– Applied Research Teaching Methods for 3D printing in Bio-Mechatronics**
	-e-toolkits for supporting people with amputated arms (Prof. Filippo Sanfilippo – University of Agder (Norway) – recorded presentation
9:45	**EMERALD– Applied Research Teaching Methods for 3D printing in Bio-Mechatronics**
	-e-toolkits for supporting people with amputated arms (Prof. Filip Gorski – Poznan University of Technology (Poland)
10:00	**EMERALD– Applied Research Teaching Methods for 3D printing in Bio-Mechatronics**
	- e-toolkits for supporting people with amputated arms (Associate Prof. Diana Băila – Politehnica University of Bucharest (Romania)
10:10	**EMERALD– Applied Research Teaching Methods for 3D printing in Bio-Mechatronics**
	- e-toolkits for supporting people with amputated arms (Branislav Rabara – BIZZCOM Slovakia)
10:20	**EuT+ and ERASMUS institutional projects - Ludmila Lutencu (International Relations Office – TUCN, Romania)**
10:30	**Norwegian grants project calls and opportunities – Ramona Demarcsek (coordinator – TUCN, Romania)**
10:40	**Coffee break**

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11:00	**3D printing of medical products and bioprinting – Polytechnic University of Cartagena – Spain** - **Roca Joaquin – Academic Coordinator of the Biomedical Engineering Program at ETSII** - **Ojados González Dolores – LIDITEB technical coordinator** - **Ibarra Berrocal Isidro - Senior Administrative Officer (Head of Administration)**
11:20	**Artificial intelligence for creative engineering and robotics** - **Prof. Stelian Brad (TUCN, Romania), president of the Cluj IT cluster and coordinator of the European Digital Innovation Hub DIH4Society**
11:35	**Additive manufacturing support advances of Biomaterials** **– prof. Popa Câtâlin – Dean of the Faculty of Materials and Environmental Engineering (TUCN, Romania)**
11:45	**Innovations in Medical Robotics - prof. Doina Pîslă – Head of Doctoral School (TUCN, Romania)**
12:00	**Coffee break**
	Session 2 – companies session – from evolution to revolution
12:15	**Vice rector Popescu Daniela – TUCN – opening the sessions organized with the companies**
12:25	**Admasys - (Markforged, Ultimaker, Formlabs, Minifactory, Evo-Tech, Artec, Shining - representatives in Romania) - company presentation**
12:35	**Nu Technologies (Stratasys / Materialise / Sisma - representatives in Romania) – company presentation**
12:45	**CAD Works (3D systems / HP / Markforged - representatives in Romania) - company presentation**
12:55	**Leykom (DWS Systems / Massivit / 3NTR / BCN3D / Ultimaker) – representatives in Romania)** **- company presentation**
13:05	**DMG Mori Romania – company presentation**
13:15	**Pro4D Form (envisionTEC bioplotters / Desktop Metal – representatives in Romania) – company presentation**
13:25	**Lunch break / press conference**
	Session 3 – demo room / companies exhibition / TUCN laboratories visit
14:30	**Visiting of TUCN laboratories** - **Demo room / companies exhibition – main hall, B-dul Muncii** - **National Centre of Innovative Manufacturing** - **Robotics and Mechatronics laboratories** - **CESTER**
	Session 4 – new project calls /constituting of the EMERALD Network / clusters / R&D agencies
15:30	**Premises of constituting the new EMERALD network for 3D printing in mechatronics** **Răzvan Păcurar (Technical University of Cluj-Napoca, Romania)**
15:35	**HORIZON EUROPE – Liliana POP (Knowledge & Technological Transfer Centre - Director–TUCN, Romania)**
15:50	**North West Regional Development Agency, Romania – Laviniu Chiş, INNO Platform Department &** **Cristian Otgon (Intelligent specialization Department)**
16:10	**Transylvania IT Cluster - Alexandru Roja (expert) – opportunities related to "Health"domain - new project calls**
16:30	**CREIC + new project calls and perspectives (City Hall Institution of Cluj-Napoca) - Oana Buzatu (cluster of Education) + Ion Petrovai (EIT Health & FreshBlood) + Răzvan Cherecheş (StartupCity Cluj-Napoca)**
16:40	**Q&A with partners comments and discussions on the possibility of joining different projects / consortium / EU Networks**
17:00	**Closing words / ending of Multiplier Event**

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