

**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

– Preliminary agenda-

17<sup>th</sup> 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
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
11:00	3D printing of medical products and bioprinting – University of Cartagena – Spain - Roca Joaquin – Academic Coordinator of the Biomedical Engineering Program at ETSII UPCT - Ojados González Dolores – LIDITEB technical coordinator - Ibarra Berrocal Isidro - Senior Administrative Officer (Head of Administration) - UPCT

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	Biomaterials trends and challenges – prof. Popa Cătălin – Dean of the Faculty of Materials and Environmental Engineering (TUCN, Romania)
11:45	Innovations in Medical Robotics - prof. Doina Pişlă – Head of Doctoral School (TUCN, Romania)
12:00	Coffee break
<b>Session 2 – companies session – from evolution to revolution</b>	
12:15	Vice rector Popescu Daniela – TUCN – opening the sessions organized with the companies
12:25	Admasys - (Markforged / Formlabs - 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	symme 3D (the biggest Romanian startup 3D printing company in Romania) - company presentation
13:15	DMG Mori Romania – company presentation
13:25	Pro4D Form (envisionTEC bioplotters / Desktop Metal – representatives in Romania) – company presentation
13:35	Lunch break / press conference
<b>Session 3 – demo room / companies exhibition / TUCN laboratories visit</b>	
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
<b>Session 4 – project opportunities /constituting of the EMERALD Network / clusters/ NGO / R &amp;D agencies session</b>	
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 open calls – prof. Ovidiu Nemeş (director - Research –TUCN, Romania)
15:50	North West Regional Development Agency, Romania – Lavinia Chiş, INNO Platform Department & Cristian Otgon (Intelligent specialization Department)
16:10	Bianca Muntean – Transylvania IT Cluster - opportunities related to “Health” domain - new project calls
16:30	Oana Buzatu + Mirela Botezan – CREIC + new project calls and perspectives (City Hall Institution of Cluj-Napoca, Romania)
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