



Delavnica - 3D tisk kovin – 28. okt. 2020 / Workshop - 3D metal print – Oct. 28th 2020

Program / Program

1. Uvodni nagovor / Introductory address

9:00 – 9:10: Mitjan Kalin, Dekan FS / Dean of FME

Miloš Šturm, Direktor SiEVA d.o.o. / Director of SiEVA Ltd.

2. Proizvajalca SLM 3D tiskalnikov / Manufacturers of SLM 3D printers

09:10 – 09:40 Aydın Yağmur (EOS)

Repeatability & Reliability of EOS Ti64 ELI on the EOS M 290

09:40 – 10:10 Florian Feucht (DMG MORI)

Industrialization of AM Holistic approach – DMG MORI process chain

3. RR primeri in problematika 3D tiska v okviru SiEVA 3D tisk konzorcija /

R&D examples and issues of 3D printing within the SiEVA 3D printing consortium

10:10 – 10:25 Boštjan Podlipec (SiEVA)

*2 leti delovanja SiEVA 3D LAB na Fakulteti za strojništvo,
2 years of 3D metal printing in SiEVA 3D LAB*

10:25 – 10:40 Jan Štucin

(HIDRIA)

*Primeri uporabe 3D kovinskega tiska v podjetju HIDRIA,
Use cases of 3D metal printing in company HIDRIA*

10:40 – 10:55 Gašper Sedej

(KOLEKTOR)

*Primeri uporabe 3D kovinskega tiska v podjetju KOLEKTOR
Use cases of 3D metal printing in company KOLEKTOR*

Odmor / Coffe brake 10:55 – 11:15 (20 min)

4. Raziskave in razvoj 3D tiska kovin na JRO in FS / R&D of 3D metal print at PRO and FME

11:15 – 11:30 Matjaž Godec

(IMT)

*Pregled raziskav na področju 3D tiska kovin na IMT
Review of 3D metal printing research at IMT*

11:30 – 11:45 Tadeja Kosec

(ZAG)

*Implementacija aditivnih tehnologij v stomatološki protetiki,
Implementation of additive technologies in prosthodontics*

11:45 – 12:00 Jernej Klemenc

(FS)

*Optimizacija notranjih podpornih struktur kot integralni del izdelka
za ciljno prenašanje obremenitev,
Optimization of internal support structures as an integral part of
the product for targeted load transfer*

12:00 – 12:15 Damijan Klobčar

(FS)

*Razvoj procesa 3D obločnega navarjanja in poobdelava
Wire Arc additive manufacturing: Process development and post
processing*

12:15 – 12:30 Edvard Govekar

(FS)

*Raziskave in razvoj anularne laserske direktne depozicije kovine
R&D of annular laser beam direct deposition of metal*

12:30 – 12:45 Franci Pušavec (FS) *Naknadne obdelave 3D tiskanih kovinskih površin*
Post processing of 3D printed metal surfaces

Odmor / Lunch brake 12:45 – 13:30 (45 min)

13:30 – 13:45 Nikolaj Mole (FS) *Numerično modeliranje procesa dodajanja materiala in karakterizacija mehanskega odziva tiskanih struktur*
Numerical modeling of the material addition process and characterization of the mechanical response of printed structures

13:45 – 14:00 Božidar Šarler (FS) *Numerična simulacija strjevanja na več merilih pri aditivnih tehnologijah*
Multiscale numerical simulation of solidification in additive technologies

14:00 – 14:15 Matija Jezeršek (FS) *Lasersko čiščenje 3D tiskanih odprtoceličnih struktur*
Laser cleaning of 3D printed open-cell structures

14:15 – 14:30 Mitjan Kalin (FS) *Tribologija in površinske lastnosti komponent izdelanih z aditivnimi tehnologijami*
Tribology and surface properties of components made with additive manufacturing

Zaključek delavnice / Workshop closure