

Room 1

Keynote session 1 (Advanced manufacturing I)

KS1-1 Keynote Speaker: Prof. Bernhard Karpuschewski
Application of coarse-grained grinding wheels for precision grinding of glassy carbon (OS06-04)
Bernhard Karpuschewski, Carsten Heinzel, Oltmann Riemer, Kai Rickens and Barnabas Adam

KS1-2 Keynote Speaker: Prof. Hitomi Yamaguchi
Polishing of Hardened Steel Components using Magnetic Abrasive Finishing (OS20-20)
Hiroyuki Matsumura, Julian Long and Hitomi Yamaguchi

KS1-3 Keynote Speaker: Prof. Erhan Budak
Experimentally backed simulation of textured CBN grinding wheels for enhanced performance (OS06-18)
Vahid Mousavi, Suzan Behrouzbaraghi and Erhan Budak

Feature session 1 (Laser machining)

FS1-1 Feature Speaker: Dr. Thomas Liebrich
Laser machining of optical elements (GS06-01)
Niklas Sass, Thomas Liebrich, Markus Stenzel, Rodolphe Catrin, Kabil Ramadani, David Bischof, Sven Lämmle and Oliver Fähnle

FS1-2 Feature Speaker: Dr. Reina Yoshizaki
Formation mechanism of Optical Waveguide in α -Quartz by Ultrashort Pulse Laser (OS10-03)
Reina Yoshizaki, Tomohiro Fukui, Yusuke Ito, Junya Hattori and Naohiko Sugita

FS1-3 Feature Speaker: Dr. Chieko Kuji
Notch effect in blanking of local heating with ultrashort pulsed laser for Fe-based amorphous alloys and its influence on soft magnetic properties (OS09-16)
Chieko Kuji, Tatsuya Fujii, Tsunehisa Suzuki and Masayoshi Mizutani

Feature session 6 (Additive manufacturing)

FS6-1 Feature Speaker: Dr. Atsushi Ezura
Laser-induced Wet Surface Treatment using Aluminum Nitrate Aqueous Solution for Improvement of Wear Resistance of Titanium Alloy (OS10-08)
Atsushi Ezura, Kazutoshi Katahira and Jun Komotori

FS6-2 Feature Speaker: Dr. Yunlong Tang
Additive Manufacturing of Multi-Scale Porous Gyroid Infill Structures with Tailored Hardness (OS01-05)
Yunlong Tang, Zifan Wang, Christopher Sutanto and Xinni Tian

FS6-3 Feature Speaker: Mr. Julien Dipéri
How does additive manufacturing combine with bio-inspiration for design innovation (GS02-01)
Julien Dipéri, David Hernandez-Aristizabal, Santiago Arroyave-Tobon and Jean-Marc Linares

FS6-4 Feature Speaker: Dr. Fatma Nur Dephoylu
A new porous biomedical implant production process development for Laser Powder Bed Fusion (L-PBF) Technology (OS23-09)
Fatma Nur Dephoylu, Evren Yasa, Özgür Poyraz and Feza Korkusuz