

Until further notice, all DGM events are offered via the Internet. In this way we want to prevent the exchange between science and industry from coming to a standstill. (https://www.dgm.de/en/coronavirus/)



LOGIN (/REGISTRATION-AND-PROCEEDINGS/REGISTRATION?)

TX_MANAGEMENT_BOOKING%5BSESSION%5D=LOGINPAGE&TX_MANAGEMENT_BOOKING%5BCONTROLLER%5D=LOGIN&CHASH=EBCBEE2C6F42AE7D39E79FB8DFBCB594

(/)

- THE SYMPOSIUM
- SCIENTIFIC PROGRAM**
- REGISTRATION AND PROCEEDINGS
- EXHIBITION & ADVERTISEMENT
- INFORMATION

Please note that the program is published in Central European Time (CET)

For Full Program Structure please click here

Tuesday (23.06.2020)

08:30

G: General Program

Admission and Technical Check-Up

General Program

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9413&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=0cc3874c6f757448f95

09:00

G: General Program

Opening Address

General Program

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9417&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=71cdcf9308afbaecdf8

09:20

PL: Plenary Lectures

Advanced femtosecond laser 3D micro/nanoprocessing

Dr. Koji Sugioka

Plenary Lecture

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9168&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=a8db5b010a6a01e90

10:00

B: Breaks

Short Break to change the virtual room

Break

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9392&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e09285e5b7d609ac70

10:10

Microfluidics

Session 01: Microfluidics I

Session starts at 10:10

Fabrication of the light-responsive microchannel inside hydrogel

Yo Nagano Kosuke Mizuguchi Hiroaki Onoe Mitsuihiro Terakawa

Lecture

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7827&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=aaed7b9cad804cb54

Tribological and mechanical properties

Session 03: Tribological and mechanical properties

Session starts at 10:10

Dry Laser Peening: Improving Fatigue Properties of Friction Stir-Welded/Laser-Welded 2024 Aluminum Alloys

Prof. Tomokazu Sano Takayuki Eimura Prof. Akio Hirose

Invited Lecture

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8870&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=49a90077d983668a59

10:30

Microfluidics

Session 01: Microfluidics I

Session starts at 10:10

Glass Microfluidic SERS Chip Fabricated by Hybrid Femtosecond Processing with Localized Analyte Aggregation Using Laser Performing Extremely Sensitive Sensing

Dr. Shi Bai Dr. Daniela Serien Dr. Kotaro Obata Prof. Dr. Koji Sugioka

Lecture

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7865&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=d8308d990f211a962d

10:50

Microfluidics

Session 01: Microfluidics I

Session starts at 10:10

Freeform microfluidic structures embedded in 3D laser printed centimeter-scale objects

Dr. Jian Xu Zijie Lin Xiaolong Li Peng Wang Dr. Wei Chu Prof. Ya Cheng

Lecture

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7898&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=471119d9c2cb492eb

Laser welding of glass

Session 05: Laser welding of glass I

Session starts at 10:50

Evaluation of Mechanical Strength at High Energy Conditions in Micro-joining of Glass by Picosecond Pulsed Laser

Zhiyong Ouyang Takumi Fujiwara Prof. Yasuhiro Okamoto Prof. Akira Okada

Lecture

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7704&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=830e8fac7b02a91ae

11:10

B: Breaks

Short Break with Q&A

Break

Search

reset

Date (-)

- Tuesday (23.06.2020)
- Wednesday (24.06.2020)
- Thursday (25.06.2020)
- Friday (26.06.2020)

Search search string

Slot Types (-)

- Lecture
- Invited Lecture
- Plenary Lecture
- General Program
- Break
- Poster

Events (-)

- B: Breaks
- G: General Program
- PL: Plenary Lectures
- PS: Poster Session
- Session 01: Microfluidics I
- Session 02: Microfluidics II
- Session 03: Tribological and mechanical properties
- Session 04: Tribological and mechanical properties II
- Session 05: Laser welding of glass I
- Session 06: Laser welding of glass II
- Session 07: Nano rods, nano particles and nano spheres
- Session 08: Optics and laser devices
- Session 09: Fundamentals / Laser - matter interaction
- Session 10: Special Session - Burst ablation I
- Session 11: Special Session - Burst ablation II
- Session 12: Special Session - Burst ablation III
- Session 13: Special Session - Burst ablation IV
- Session 14: Special Session - Burst ablation V

11:30	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9393&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=5eebed7e4f16e4e730)</p> <p>Microfluidics Session 02: Microfluidics II ● Session starts at 11:30 Lecture</p> <p>A high-throughput 3D microfluidic mixer in fused silica fabricated by femtosecond laser direct writing Prof. Ya Cheng Wenbo Li Prof. Dr. Wei Chu Peng Wang Jia Qi Dr. Min Wang Dr. Zhenhua Wang Dr. Lingling Qiao</p>	<ul style="list-style-type: none"> <input type="checkbox"/> ● Session 15: Special Session - LIFT I <input type="checkbox"/> ● Session 16: H2020 - Photonics <input type="checkbox"/> ● Session 17: Special Session - LIFT II <input type="checkbox"/> ● Session 18: LIPSS I <input type="checkbox"/> ● Session 19: LIPSS II <input type="checkbox"/> ● Session 20: Advanced Micromachining I <input type="checkbox"/> ● Session 21: Advanced Micromachining II <input type="checkbox"/> ● Session 22: Advanced Micromachining III <input type="checkbox"/> ● Session 23: Ceramic processing I <input type="checkbox"/> ● Session 24: Glass/ceramic processing <input type="checkbox"/> ● Session 25: Glass processing I <input type="checkbox"/> ● Session 26: Glass processing II <input type="checkbox"/> ● Session 27: Silicon processing <input type="checkbox"/> ● Session 28: Ceramic processing II <input type="checkbox"/> ● Session 29: Ceramic processing III <input type="checkbox"/> ● Session 30: Surface Treatment <input type="checkbox"/> ● Session 31: Biological applications I <input type="checkbox"/> ● Session 32: Biological applications II <input type="checkbox"/> ● Session 33: Biological applications III <input type="checkbox"/> ● Session 34: Drilling and Cutting <input type="checkbox"/> ● Session 35: Interference Patterning I <input type="checkbox"/> ● Session 36: Interference Patterning II <input type="checkbox"/> ● Session 37: Spatial beam shaping I <input type="checkbox"/> ● Session 38: Spatial beam shaping II <input type="checkbox"/> ● Session 39: Modelling <input type="checkbox"/> ● Session 40: Welding and bonding <input type="checkbox"/> ● Session 41: Electrical properties modification <input type="checkbox"/> ● Session 42: Polymer and organic materials processing I <input type="checkbox"/> ● Session 43: Polymer and organic materials processing II <input type="checkbox"/> ● Session 44: 3D micro/nano processing I <input type="checkbox"/> ● Session 45: 3D micro/nano processing II <input type="checkbox"/> ● Session 46: Wettability and Ice-adhesion <input type="checkbox"/> ● Session 47: Monitoring I <input type="checkbox"/> ● Session 48: Monitoring II <input type="checkbox"/> ● Session 49: Laser assisted deposition and growth
11:50	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8068&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=73fba106c02ad928af)</p> <p>Nano rods, nano particles and nano spheres Session 07: Nano rods, nano particles and nano spheres ● Session starts at 11:30 Lecture</p> <p>Cu-based microfabrication using green femtosecond laser reductive sintering of Cu2O nanospheres Prof. Dr. Mizue Mizoshiri Atsushi Tanokuchi Kien Vu Trung Nguyen</p>	
12:10	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7996&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=72f2e483157c12af4d)</p> <p>Microfluidics Session 02: Microfluidics II ● Session starts at 11:30 Lecture</p> <p>Integration of microfluidic and photonic components within transparent cyclic olefin copolymers by using fs laser Gian-Luca Roth Stefan Kefer Steffen Hessler Prof. Dr. Cemal Esen Prof. Dr. Ralf Hellmann</p>	
12:30	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8018&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=710483b191b2fed457)</p> <p>Nano rods, nano particles and nano spheres Session 07: Nano rods, nano particles and nano spheres ● Session starts at 11:30 Lecture</p> <p>Laser-affected structure and optical properties of semiconductor thin films with Ag nanoparticles Dr. Maksim Sergeev Viadislav Gresko Yaroslava Andreeva Pavel Variamov Dr. Elena Shirshneva-Vaschenko Lilia Sokura Prof. Dr. Vadim Veiko Prof. Francis Vocanson Prof. Dr. Tatiana Itina</p>	
12:30	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8043&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=75177f9aab590d5a4c)</p> <p>B: Breaks Break with Q&A and Virtual Exhibition Break</p>	
13:30	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9394&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=21f1b1a415d8c14cb8)</p> <p>PL: Plenary Lectures Plenary Lecture 10 kW-class ultrashort-pulse lasers for industrial applications Prof. Dr. Andreas Tünnermann</p>	
14:10	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9171&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=68a02734c17621984)</p> <p>B: Breaks Break Short Break to change the virtual room</p>	
14:20	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9395&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f74a2c89ad1ffc690c4)</p> <p>Laser welding of glass Session 06: Laser welding of glass II ● Session starts at 14:20 Lecture</p> <p>USP-glass welding in the filamentation regime Dr. Martin Kahle Dr. Dirk Nodop Paul Wiemuth Jan Rucker</p>	
14:40	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8047&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=050b4651275ed4645a)</p> <p>Optics and laser devices Session Session 08: Optics and laser devices ● Session starts at 14:20 Lecture</p> <p>Application of tunable acoustic gradient index lens for polychromatic cw-laser material processing Andreas Schkutow Prof. Dr. Thomas Frick Dr. Karsten Scholle Dr. Dennis Müller</p>	
14:40	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7877&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f052a86f9da195b56f)</p> <p>Optics and laser devices Session Session 08: Optics and laser devices ● Session starts at 14:20 Lecture</p> <p>Kilowatt-class ultrashort pulse laser with mJ pulse energy based on disk laser multipass amplifier Johanna Dominik Dr. Michael Scharun Dr. Dominik Bauer Dr. Alexander Killi Prof. Dr. Thomas Dekorsy</p>	
15:00	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7891&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e000346d1e257607d)</p> <p>Laser welding of glass Session 06: Laser welding of glass II ● Session starts at 14:20 Invited Lecture</p> <p>Ultrafast-laser-enabled Polishing, Micro-bonding and Waveguide Writing for Photonics Fabrication and Integration Prof. Jie Qiao Gong Chen Dr. Pankaj Sahoo Dr. Tao Feng</p>	
	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8150&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f51b0fc4397dcbaf7c5)</p> <p>Optics and laser devices Session Session 08: Optics and laser devices ● Session starts at 14:20 Lecture</p> <p>The LaserFIB – uniting high-resolution microscopy and massive material ablation Tobias Volkenandt Fabián Pérez-Willard Benjamin Tordoff</p>	

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7932&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=810f1aa0e8e2e96be2

15:20

Optics and laser devices Session
Session 08: Optics and laser devices
🕒 Session starts at 14:20

Lecture

High modulation bandwidth QCW fiber laser
Dr. Vid Agrež Prof. Dr. Rok Petkovšek Dr. Jaka Mur Dr. Jaka Petelin

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8174&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=66c9c0b1ce190da82

15:40

B: Breaks
Short Break with Q&A and Virtual Exhibition

Break

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9396&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=c08e44baf6370b5010

16:10

PL: Plenary Lectures
Meta-Manufacturing: Multiscale and Multifunctional Manufacturing at Digital Age
Prof. Dr. Nicholas Xuanlai Fang

Plenary Lecture

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8188&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=1085c57310c0d9483

16:50

B: Breaks
Short Break to change the virtual room

Break

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9397&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4790b93c9b4f8beae5

17:00

Tribological and mechanical properties
Session 04: Tribological and mechanical properties II
🕒 Session starts at 17:00

Lecture

Tuned micro cosmos for multi-macro value
Dr. Anna Buling Jörg Zerrer Benjamin Krupop

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7800&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f2115977594cdf04d1

Fundamentals / Laser - matter interaction
Session 09: Fundamentals / Laser - matter interaction
🕒 Session starts at 17:00

Lecture

USP Laser micro-machining in high fluence regime
Dr. Audrey Champion Dr. David Bruneel Dr. José A. Ramos-de-Campos Axel Kupisiewicz

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8001&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=feca788cb6bfdf0a1

17:20

Tribological and mechanical properties
Session 04: Tribological and mechanical properties II
🕒 Session starts at 17:00

Lecture

Tailoring friction and wear by laser microstructuring of automotive components
Dipl.-Ing. Thomas Kuntze Volker Franke Leon Streit George Patzold

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7820&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=514cc4a18e609b90

Fundamentals / Laser - matter interaction
Session 09: Fundamentals / Laser - matter interaction
🕒 Session starts at 17:00

Lecture

Single track ultra-short pulsed laser ablation on additive manufactured metallic surfaces
Simon Ruck Prof. Dr. David K Harrison Prof. Dr. Anjali De Silva Max-Jonathan Kleefoot Prof. Dr. Harald Riegel

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7936&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=b06d2899e0f93ba61f

17:40

B: Breaks
Q&A

Break

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9420&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=d35bc802f163c5b3c

18:00

G: General Program
Networking at Conference Networking Platform

General Program

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9398&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=244a2f8ee5be0d4e1

Wednesday (24.06.2020)

08:15

G: General Program
Admission and Technical Check-Up

General Program

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9414&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e0794386d2e6b6aa5

08:40

Special Session - Burst ablation
Session 10: Special Session - Burst ablation I
🕒 Session starts at 08:40

Lecture

Characterization of GHz burst mode femtosecond laser ablation
Dr. Kotaro Obata Dr. Francesc Caballero-Lucas Dr. Koji Sugioka

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8071&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=462c04706dedf7dce

LIPSS
Session 18: LIPSS I
🕒 Session starts at 08:40

Lecture

Pulse-by-Pulse Optical Observation of Growth of Laser-Induced Periodic Surface Structure at Oblique Incidence
Dr. Shigeki Matsuo Kyosuke Shibata

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8064&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=09230863ede132193

Ceramic processing
Session 23: Ceramic processing I

	<p>🕒 Session starts at 08:40 Lecture</p> <p>Anisotropic surface stress on yttria-stabilized zirconia ceramics with femtosecond-laser induced periodic surface structures</p> <p>Dr. Masayuki Kakehata Dr. Hidehiko Yashiro Dr. Ayako Oyane Dr. Atsuo Ito</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7855&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=64c32f6fee6336583b04)</p>
09:00	<p>Special Session - Burst ablation</p> <p>Session 10: Special Session - Burst ablation I</p> <p>🕒 Session starts at 08:40 Lecture</p> <p>Femtosecond Burst pulses influence to the internal modifications and chemical etching in the fused silica</p> <p>Dr. Valdemar Stankevicius Dr. Paulius Gečys Dr. Gediminas Račiukaitis</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7959&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=098232d9a84560604)</p> <p>LIPSS</p> <p>Session 18: LIPSS I</p> <p>🕒 Session starts at 08:40 Lecture</p> <p>Fabrication of 3D LIPSS Structure on 304 Stainless Steel Using a Liquid Lens</p> <p>Ph.D. Yi-Hsien Liu Prof. Chung-Wei Cheng Yu-Kai Tseng</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7737&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=a6fab1dee17f56bf979)</p> <p>Ceramic processing</p> <p>Session 23: Ceramic processing I</p> <p>🕒 Session starts at 08:40 Lecture</p> <p>Ultrafast laser drilling of ceramics: comprehensive survey of laser parameters and material properties</p> <p>Dr. Aiko Narazaki Dr. Hideyuki Takada Dr. Dai Yoshitomi Dr. Kenji Torizuka Prof. Yohei Kobayashi</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8059&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=1e85a6733bc90016d)</p>
09:20	<p>Special Session - Burst ablation</p> <p>Session 10: Special Session - Burst ablation I</p> <p>🕒 Session starts at 08:40 Lecture</p> <p>A dual process strategy to increase the ablation rate using GHz bursts</p> <p>Fabian Nyenhuis Dr. Andreas Michalowski Dr. Johannes L'hullier</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9029&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=5cb0b5c9bb399253bc)</p> <p>Ceramic processing</p> <p>Session 23: Ceramic processing I</p> <p>🕒 Session starts at 08:40 Lecture</p> <p>Additive processing of ceramic fiber composite structures using laser technology</p> <p>Stefan Polenz Dr. Willy Kunz Dr. Benjamin Braun Andrea Franke Dr. Elena López Prof. Dr. Christoph Leyens</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7729&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=75855c7d43393a576)</p>
09:40	<p>B: Breaks</p> <p>Short Break with Q&A</p> <p style="text-align: right;">Break</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9399&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=bf2bf084a71734f9)</p>
10:00	<p>Special Session - Burst ablation</p> <p>Session 11: Special Session - Burst ablation II</p> <p>🕒 Session starts at 10:00 Lecture</p> <p>Analysis of shielding and re-deposition effects during processing of metals with single and double pulses</p> <p>Daniel Förster Arham Amouye Foumani Sebastian Faas Ali Reza Niknam Rudolf Weber Thomas Graf</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8165&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=a9bae4bca1732eddc)</p> <p>Advanced Micromachining</p> <p>Session 20: Advanced Micromachining I</p> <p>🕒 Session starts at 10:00 Invited Lecture</p> <p>193 nm Laser Processing of Ceramic Matrix Composites (CMC)</p> <p>Ph.D. Hiroaki Oizumi Dr. Yasuhiro Kamba Dr. Takashi Onose Akira Suwa Masaki Arakawa Hironori Igarashi Dr. Taisuke Miura Dr. Koji Kakizaki Dr. Junichi Fujimoto Dr. Hakaru Mizoguchi</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8327&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=396a17a7c1e6e5d74)</p> <p>Glass/Ceramic processing</p> <p>Session 24: Glass/Ceramic processing</p> <p>🕒 Session starts at 10:00 Lecture</p> <p>Modeling of Transient Selective Laser Processing of Glass</p> <p>Reina Yoshizaki Dr. Yusuke Ito Naoyuki Miyamoto Shunya Yoshitake Chaoran Wei Junya Hattori Dr. Akihiko Shibata Ikuo Nagasawa Dr. Keisuke Nagato Prof. Dr. Naohiko Sugita</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8151&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=15167109e2a7540b5)</p>
10:20	<p>Special Session - Burst ablation</p> <p>Session 11: Special Session - Burst ablation II</p> <p>🕒 Session starts at 10:00 Lecture</p> <p>Novel biburst ultrafast laser ablation: burst-in-burst</p> <p>Andrius Žemaitis Mantas Gaidys Dr. Paulius Gečys Dr. Mindaugas Gedvilas</p> <p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7517&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=cb2ee661f97b5ec78f2)</p> <p>Glass/Ceramic processing</p> <p>Session 24: Glass/Ceramic processing</p> <p>🕒 Session starts at 10:00 Lecture</p> <p>Glass-ceramic crystalline 3D micro-/nano-structures: preparation to application</p> <p>Ph.D. Greta Merkininkaitė Edvinas Aleksandravičius Dr. Darius Gailevičius Dr. Mangirdas Malinauskas Prof. Simas Sakirzanovas</p>

10:40	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8138&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e56b6d8f8461513f70)</p> <p>Special Session - Burst ablation <i>Session 11: Special Session - Burst ablation II</i> 🕒 Session starts at 10:00 Lecture</p> <p>Investigations Concerning the Removal Rate and Surface Quality for Laser Machining with GHz Bursts in Milling Applications Prof. Dr. Beat Neuenschwander Stefan Remund Markus Gafner Michalina Chaja A. Umiezius S. Butkus</p>
11:00	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8026&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=082914d69c53d6bff4)</p> <p>Advanced Micromachining <i>Session 20: Advanced Micromachining I</i> 🕒 Session starts at 10:00 Lecture</p> <p>Dynamic laser beam deflection solutions for high speed processing Dr. Jan Hauptmann Peter Rauscher</p>
11:20	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8207&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=2a314e1d0a75ff6a00)</p> <p>B: Breaks Short Break with Q&A Break</p>
12:20	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9400&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=b8671d12265a00b8f2)</p> <p>PS: Poster Session Poster Session 01 Poster</p>
13:10	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9425&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=1af35af36b9dfcc6cfb5)</p> <p>B: Breaks Break with Q&A and Virtual Exhibition Break</p>
14:00	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9401&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e255caaf07bd857f)</p> <p>PS: Poster Session Poster Session 02 Poster</p>
14:10	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9426&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=b1b2b1a8ccb37378e1f)</p> <p>G: General Program Group picture in the discussion forum General Program</p>
14:30	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9418&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=c2f000c43e06511d5b)</p> <p>Special Session - Burst ablation <i>Session 12: Special Session - Burst ablation III</i> 🕒 Session starts at 14:10 Lecture</p> <p>Influence of pulse separation on the ablation volume during femtosecond laser ablation Jan Winter Maximilian Spellaugé Prof. Dr. Michael Schmidt Prof. Dr. Heinz Huber</p>
	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8161&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=9d2fb0764c0523db0d)</p> <p>LIPSS <i>Session 19: LIPSS II</i> 🕒 Session starts at 14:10 Lecture</p> <p>Micro-structuring of gold coated plates with LIPSS for localized plasmonic sensors Dipl.-Ing. Julien Dupuy Dr. Yves Hernandez Marc Lamblin Dr. Fabian Dortu Dr. Damien Bernier</p>
	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7677&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=86753def729563db7f)</p> <p>Glass processing <i>Session 25: Glass processing I</i> 🕒 Session starts at 14:10 Lecture</p> <p>Optimization of selective laser etching process for arbitrary shape 3D micro-structure fabrication Agne Butkute Tomas Baravykas Titas Titkunas Linas Jonusauskas Prof. Dr. Valdas Sirutkaitis</p>
	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7956&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=9dca7abd21f1174fab5)</p> <p>Special Session - Burst ablation <i>Session 12: Special Session - Burst ablation III</i> 🕒 Session starts at 14:10 Invited Lecture</p> <p>From science to applications: shielding effects and material re-deposition used for laser propulsion in space Sebastian Faas Daniel J. Förster Dr. Rudolf Weber Prof. Dr. Thomas Graf</p>
	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8169&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=26a649d8f44d2706e9)</p> <p>LIPSS <i>Session 19: LIPSS II</i> 🕒 Session starts at 14:10 Lecture</p> <p>A novel laser based sub-diffraction writing technique by a combination of STED and ESA Christoph Wenisch Sebastian Engel Dr. Stephan Gräf Prof. Dr. Frank Müller</p>
	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8173&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=78bd8a2a9cafaf2e09)</p> <p>Glass processing <i>Session 25: Glass processing I</i> 🕒 Session starts at 14:10 Lecture</p> <p>In-depth comparison of glass processing using laser-based and conventional methods Juozas Dudutis Jokūbas Pipiras Rokas Stonys Eimantas Daknys Dr. Gediminas Račiukaitis Dr. Paulius Gečys</p>
	<p>(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8036&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=28880109385ccd4805)</p>

14:50

LIPSS
 Session 19: LIPSS II
 ⌚ Session starts at 14:10 Lecture

LIPSS for metallic surface functionalization: the role of process parameters on surface chemical modifications
 Dr. Ainara Rodriguez Alejandro San Blas Dr. Aldara Pan Dr. Mikel Gomez-Aranzadi Dr. Isabel Ayerdi
 Dr. Santiago M. Olaizola

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7720&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=638731a9937c7a580)

Glass processing
 Session 25: Glass processing I
 ⌚ Session starts at 14:10 Lecture

Fs laser micro-machining in glass
 Dr. Audrey Champion Dr. David Bruneel Dr. José A. Ramos-de-Campos Axel Kupisiewicz

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=8014&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=6140d82f329597aa91)

Special Session - Burst ablation
 Session 12: Special Session - Burst ablation III
 ⌚ Session starts at 14:10 Lecture

Influence of pulse separation on the ablation mechanism of silicon: Spallation and phase explosion vs. melt ejection
 Maximilian Spellauge Dr. Matthias Domke Jan Winter Prof. Dr. Heinz P. Huber

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=8176&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=d6ae536cb22dc460f)

Glass processing
 Session 25: Glass processing I
 ⌚ Session starts at 14:10 Lecture

Direct and indirect glass texturing employing interference-based methods
 Sabri Alamri Paul A. Sürmann Prof. Dr. Andrés F. Lasagni Dr. Tim Kunze

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7910&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=1f529f3371b6b777c1)

Silicon processing
 Session 27: Silicon processing
 ⌚ Session starts at 15:10 Lecture

Efficient dicing of thin silicon wafers using a line focus
 Benjamin Bernard Seifert Christian Christoph Epple Yoshikawa Toshiyuki

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7967&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4fe18b47951346bf6e)

15:30

B: Breaks Break
Short Break with Q&A

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=9402&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=54530ebcf986b03a71)

15:50

Special Session - Burst ablation
 Session 13: Special Session - Burst ablation IV
 ⌚ Session starts at 15:50 Lecture

Influence of the burst-mode on the specific volume removal rate in Magnesium processing
 Dr. Andreas Oehler

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=8028&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=27ff8d4d9ddd5fcc7e)

Advanced Micromachining
 Session 21: Advanced Micromachining II
 ⌚ Session starts at 15:50 Lecture

Deep Drilling of Structural Timber with High Power Ultrashort Pulsed Laser Radiation
 Benedikt Borschlegel Dennis Haasler Dr. Johannes Finger Denis Grizmann Prof. Dr. Martin Trautz
 Arnold Gillner

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=8179&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=8eaded574fb81c744fe)

Glass processing
 Session 26: Glass processing II
 ⌚ Session starts at 15:50 Lecture

Figure correction of borosilicate glass substrates by nanosecond UV-laser irradiation
 Clemens Beckmann Dr. Jürgen Ihlemann

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7834&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=21145c01991f6d6f5cb)

Special Session - Burst ablation
 Session 13: Special Session - Burst ablation IV
 ⌚ Session starts at 15:50 Lecture

Quality and efficiency of GHz femtosecond processing
 Dr. Eric Audouard Guillaume Bonamis Dr. Konstantin Mishchik Eric Mottay Dr. Clemens Honninger
 Dr. John Lopez Dr. Inka Manek-honninger

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=8178&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e148e0b8f69f8d3879)

Advanced Micromachining
 Session 21: Advanced Micromachining II
 ⌚ Session starts at 15:50 Lecture

Enhanced joining surfaces by laser processing of fiber-reinforced plastic
 Jana Gebauer Prof. Dr. Andrés Fabian Lasagni Dr. Udo Klotzbach

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=8215&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4a7a2aeef5e5d221f)

Glass processing
 Session 26: Glass processing II
 ⌚ Session starts at 15:50 Lecture

UV laser micro processing of doped glass
 Dr. Jürgen Ihlemann Dr. Jörg Meinertz Dr. Maximilian Heinz Dr. Thomas Fricke-Begemann Dr. Manfred Dubiel

16:10

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7859&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=412151caa4bbec3d8e

16:30

Special Session - Burst ablation

Session 13: Special Session - Burst ablation IV

🕒 Session starts at 15:50

Lecture

Ablative microprocessing using 65 ps pulses – challenging the dead valley of ablation efficiency using bursts of pulses

Dr. Jaka Mur Jernej Jan Kočica Dr. Jaka Petelin Prof. Dr. Rok Petkovšek

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8182&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=c7bf6162492c95c316

Glass processing

Session 26: Glass processing II

🕒 Session starts at 15:50

Lecture

Ultrashort pulsed laser micromachining of glass using an interlaced laser beam scanning method

Dr. Krystian Włodarczyk Dr. Joerg Schille Lucas Naumann Dr. Ioannis Bitharas Dr. Amiel Lopes Dr. Prveen Bidare Stephen Dondieu Dr. Paul Blair Prof. Andrew Moore Prof. Udo Loeschner Prof. Duncan Hand Prof. M. Mercedes Maroto-Valer

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7995&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=afdc47ef0a5126a3bc

Ceramic processing

Session 28: Ceramic processing II

🕒 Session starts at 16:30

Lecture

Picosecond Laser Structuring for Low Temperature Cofired Ceramics – an Overview

Dipl.-Ing. Nam Gutzeit Alexander Schulz Michael Fischer Prof. Dr. Jens Müller

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7901&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=856b1e1c8fb9526de1

16:50

Special Session - Burst ablation

Session 13: Special Session - Burst ablation IV

🕒 Session starts at 15:50

Lecture

Influence of Pulse Bursts on Laser Matter Interactions

Ph.D. John Linden Dr. Yuval Berg Dr. Sharon Cohen Prof. Zvi Kotler Prof. Zeev Zalevsky

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7915&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=bd70012172b5f3328

Glass processing

Session 26: Glass processing II

🕒 Session starts at 15:50

Lecture

Picosecond laser ablation of borosilicate glass plates through the thin flowing water layer

Dr. Edgaras Markauskas Laimis Zubauskas Dr. Paulius Gečys

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8171&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=01229e72c2b5cd6615

17:10

B: Breaks

Short Break with Q&A and Virtual Exhibition

Break

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9403&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=eae2c6879522359d

17:40

Special Session - Burst ablation

Session 14: Special Session - Burst ablation V

🕒 Session starts at 17:40

Lecture

Micromachining applications combining near-THz and MHz bursts of ultra-short pulses

Dr. Jaka Mur Jernej Jan Kočica Luka Černe Dr. Jaka Petelin Dr. Vid Agrež Prof. Dr. Rok Petkovšek

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8183&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=275e66695d5058282

Ceramic processing

Session 29: Ceramic processing III

🕒 Session starts at 17:40

Lecture

Multi-Scale Laser Processing of Thin Oxide Films

Dr. Nicholas Charipar Raymond Auyeung Dr. Heungsoo Kim Kristin Charipar Dr. Alberto Pique

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8061&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4d20077f3e1cf2ab18

18:00

Special Session - Burst ablation

Session 14: Special Session - Burst ablation V

🕒 Session starts at 17:40

Invited Lecture

Femtosecond Laser Ablation in Burst Mode as a Function of Pulse Fluence and Intra-Burst Repetition Rate

Dr. Norman Hodgson Hortense Allegre Dr. Andrei Starodoumov Skip Bettencourt

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8153&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=86ae0f2a910c8d5ee6

Surface Treatment

Session 30: Surface Treatment

🕒 Session starts at 17:40

Lecture

High-rate laser processing for high-precision surface profiling and functionalization

Prof. Dr. Udo Loeschner Stefan Mauersberger Lutz Schneider Kristian Kujawa Dr. Joerg Schille

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8241&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=bc6833974ea141a1fb

18:20

Surface Treatment

Session 30: Surface Treatment

🕒 Session starts at 17:40

Lecture

Application of a femtosecond laser in large area microstructure preparation for FIB/SEM analysis

Julian Schurr Tim Schubert Dr. Stephan Hiller Tobias Volkenandt Dr. Timo Bernthaler Prof. Dr. Gerhard Schneider

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8046&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=42869bb49512c04f4a

18:40

B: Breaks

Q&A

Break

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9422&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=ea9c53a8c43836e163

18:50

G: General Program
Networking at Conference Networking Platform

General Program

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9404&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=3fbb2b974cd1b58981

Thursday (25.06.2020)

08:15

G: General Program
Admission and Technical Check-Up

General Program

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=9415&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=87af1d8e512b05c0e2

08:40

Special Session - LIFT
Session 15: Special Session - LIFT I
Session starts at 08:40

Invited Lecture

Printing method for long flight distance by Laser-Induced Forward Transfer
Ph.D. Hiroyuki Suhara Jun Aoto Muneaki Iwata

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7929&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=7217080f0b69d4476

Biological applications
Session 31: Biological applications I
Session starts at 08:40

Lecture

Hybrid Additive and Subtractive 3D Patterning of Protein Based on Femtosecond Laser Direct Write
Dr. Daniela Serien Prof. Dr. Koji Sugioaka

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7828&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=82d20ea6fc8797decd

Drilling and Cutting
Session 34: Drilling and Cutting
Session starts at 08:40

Lecture

Drilling of CFRP with reduced and non-directional heat-affected zone by using 3-kW CW single-mode fiber laser
Ph.D. Yuya Takubo Daisuke Sekine Junji Sato Keisuke Uchiyama Shinya Ikoma Yoshio Umeda

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7866&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=ba8bc11335892fa8bc

09:00

Biological applications
Session 31: Biological applications I
Session starts at 08:40

Lecture

Precision laser processing for medical applications
Ph.D. Jiaru Zhang Prof. Yingchun Guan

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7930&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4317b0c5ae28c0a3

Drilling and Cutting
Session 34: Drilling and Cutting
Session starts at 08:40

Lecture

Water Jet Guided Laser vs. Conventional Laser: Experimental Comparison of Surface Integrity for Different Aerospace Alloys
Erdem Bektas Aydemir Gunaydin Ozan Can Ozaner Demircan Canadinc Levent Subasi

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7741&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=5141e77bf05dbc545d

09:20

Special Session - LIFT
Session 15: Special Session - LIFT I
Session starts at 08:40

Lecture

On-demand Laser Printing of 2D materials and computational modelling of transfer enabling conditions
Prof. Dr. Ioanna Zergioti

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7796&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=0782e929ae48a0809

Biological applications
Session 31: Biological applications I
Session starts at 08:40

Lecture

High-Volume 2PP Structures as Ground Truth Phantoms for Diffusion Magnetic Resonance Imaging
Dipl.-Ing. Franziska Gantner Michael Woletz Benedikt Hager Dr. Siawoosh Mohammadi Dr. Zoltan Nagy Prof. Dr. Aleksandr Ovsianikov Prof. Dr. Christian Windischberger

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7903&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=86721b84ed0032373c

Drilling and Cutting
Session 34: Drilling and Cutting
Session starts at 08:40

Lecture

Ultrafast laser processing with non-diffracting beams for ablation and drilling of opaque materials
Dr.-Ing. Cyril Maucclair Dr. Dat Nguyen Dr. xxx Sedao Nicolas Faure Dr. Razvan Stoian

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=8055&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f0d11a1563e847dc15

09:40

Special Session - LIFT
Session 15: Special Session - LIFT I
Session starts at 08:40

Lecture

Fabrication of thin films as a drug delivery tool via Laser-Induced Forward Transfer
Agamemnon Kalaitzis Christina Kryou Dr. Chryssoula Chandrinou Marianna Orfanou Dr. Constantinos Tamvakopoulos Prof. Dr. Ioanna Zergioti

(/scientific-program/lecture-program/?

tx_dgmprogram_fullprogram%5Bsession%5D=7946&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=300e2d0465d443e7a

Drilling and Cutting
Session 34: Drilling and Cutting
Session starts at 08:40

Lecture

10:00

High throughput laser drilling with high power lasers using a two-dimensional polygon mirror scanner
Dr.-Ing. Florian Rößler Mathias Müller Prof. Dr. André Streek

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7883&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=cea5271f264619747a)

B: Breaks Break
Short Break with Q&A and Virtual Exhibition

10:30

Interference Patterning
Session 35: Interference Patterning I
🕒 Session starts at 10:30 Invited Lecture
Single-shot interference processing of ultrathin plates by femtosecond laser
Dr. Yuuki Uesugi Prof. Shunichi Sato Dr. Yuichi Kozawa Ryota Fukushima

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8117&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=113226372ad79f2ad7)

Spatial beam shaping
Session 37: Spatial beam shaping I
🕒 Session starts at 10:30 Lecture
Efficient ultra-short pulsed laser processing by dynamic SLM beam shaping for industrial use
Christian Lutz Gian-Luca Roth Dr. Stefan Rung Prof. Dr. Ralf Hellmann

10:50

H2020 - Photonics
Session 16: H2020 - Photonics
🕒 Session starts at 10:30 Lecture
In-situ Laser Interference Patterning for the production of regular arrays of Nanostructures (progress on the EU project 'Nanostencil')
Prof. Mark Hopkinson Dr. Santiago Olaizola Prof. Dr. Erkki Levänen Prof. Dr. Dayou Li Dr. Andreas Börner

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8288&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=7dc7ef41496373217a)

Spatial beam shaping
Session 37: Spatial beam shaping I
🕒 Session starts at 10:30 Lecture
Beam shaping and power handling of an SLM system for LIPSS texturation
Dipl.-Ing. Julien Dupuy Dr. Yves Hernandez Hendrik Von Horsten Marc Lamblin

11:10

H2020 - Photonics
Session 16: H2020 - Photonics
🕒 Session starts at 10:30 Lecture
H2020 EU Photonics: Laser surface engineering for new and enhanced functional performance with digitally enabled knowledge base (SHARK)
Dr. Tim Kunze Dr. Tian Long See

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8608&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=49632be9d67136999)

Interference Patterning
Session 35: Interference Patterning I
🕒 Session starts at 10:30 Lecture
Upscaling potential and industrial-suitability of scanner-based Direct Laser Interference Patterning
Dipl.-Ing. Aleksander Madelung Sabri Alamri Prof. Dr. Andres Lasagni Dr. Tim Kunze

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7810&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e78e97e901e632330)

Spatial beam shaping
Session 37: Spatial beam shaping I
🕒 Session starts at 10:30 Lecture
High power femtosecond shaped pulses
Dr. Eric Audouard Dr. Clemens Hönninger

11:30

H2020 - Photonics
Session 16: H2020 - Photonics
🕒 Session starts at 10:30 Lecture
Laser for Mass Production of Functionalised Metallic Surfaces (LASER4SURF)
Dr. Ainara Rodriguez David Bruneel Yves Hernandez Albert Torres Miguel Angel Muñoz-Marquez Marilys Blanchy Tomas Morlanes

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8280&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=80694c53e2194548)

Interference Patterning
Session 35: Interference Patterning I
🕒 Session starts at 10:30 Lecture
Involving material specific interaction in surface structuring of metallic materials by ultrashort pulsed Direct Laser Interference Patterning
Daniel Müller Gerard Cabestani Tobias Fox Prof. Frank Mücklich

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7950&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=dbd840ce7d9e2e9b0)

Spatial beam shaping
Session 37: Spatial beam shaping I
🕒 Session starts at 10:30 Lecture
Optimized focal intensity distributions with freeform optics for material processing
Dr. Ulrike Fuchs Dr. Henrike Wilms Dr. Stephan Gräf

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7860&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=2389e9121f05bf846f)

11:50

H2020 - Photonics
 Session 16: H2020 - Photonics
 ⌚ Session starts at 10:30 Lecture

High throughput Laser structuring with Multiscale Periodic feature sizes for Advanced Surface Functionalities (LAMPAS)

Prof. Dr.-Ing. **Andrés Fabián Lasagni** Dr. Dominik Bauer Dr. Thomas Kiedrowski Dr. Francesca Moglia
 Dr. Lars Penning Dr. Germán Vergara Ander Villate Dr. Jose Antonio Ramos de Campos Dr. Robert
 Baumann Nikolai Schröder Dr. Dirk Sutter Dr. David Bruneel Dr. Rooney De Loor Auri Auri Ripoll

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=8242&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=7a3a34a21cf6c8b69b

Interference Patterning
 Session 35: Interference Patterning I
 ⌚ Session starts at 10:30 Lecture

Impact of molten pool dynamics on resultant surface structures during direct laser interference patterning

Dr. Bogdan Voisiat Stephan Milles Prof. Dr. Andrés Fabián Lasagni

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7902&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=2fbd5315bef9f056f60b

Spatial beam shaping
 Session 37: Spatial beam shaping I
 ⌚ Session starts at 10:30 Lecture

Femtosecond high power laser micromachining using beam-splitting optics and top-hat intensity profile

Jérôme Patars Anne Henrotin Dr. David Bruneel Dr. José Antonio Ramos-de-Campos Dr. Ivan
 Gusachenko Dr. Clément Jacquard Gwenn Pallier

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7981&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=322b8fcb1afee7f308e

12:10

B: Breaks Break
Break with Q&A and Virtual Exhibition

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=9406&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=06d705d74a8151fca7

13:10

Interference Patterning
 Session 36: Interference Patterning II
 ⌚ Session starts at 13:10 Lecture

Design an asymmetrical three-beam LIL for fabricating micro- and nano- structures

Dr. Litong Dong Prof. Dr. ZuoBin Wang Prof. Dr. Dayou Li

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7573&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=84e34668facc92df1f

Modelling
 Session 39: Modelling
 ⌚ Session starts at 13:10 Lecture

Optimizing your Femtosecond Laser Processes using a Numerical Simulation based Decision Support Tool

Dr. Elise Chevallier Dr. Vincent Bruyère Dr. Gaëtan Bernard Dr. Patrick Namy

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7777&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=d763b397db017b2e5

13:30

Interference Patterning
 Session 36: Interference Patterning II
 ⌚ Session starts at 13:10 Lecture

In-situ pulsed laser interference patterning for quantum dot site control

Prof. Mark Hopkinson Yunran Wang Dr. Im Sik Han Dr. Chaoyuan Jin Dr. Santiago Olaizola Dr.
 Dayou Li Prof. Changsi Peng Dr. Andreas Börner Prof. Erkki Levanen

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7686&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=710946edf817409f15

13:50

Biological applications
 Session 32: Biological applications II
 ⌚ Session starts at 13:10 Lecture

Multiphoton polymerization as a tool for liver tissue engineering

Lisa Zeußel Dr. Sukhdeep Singh Jörg Hampl Frank Weise Carsten Ziebolz Prof. Dr. Andreas
 Schober

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7738&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=335efcf54c59fcc7b41

Interference Patterning
 Session 36: Interference Patterning II
 ⌚ Session starts at 13:10 Invited Lecture

Interference ablation by ultrashort laser pulses via diffractive beam management

Dr. Peter Simon Jan-Hendrik Klein-Wiele Dr. Andreas Blumenstein Dr. Jürgen Ihlemann

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7857&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=0823cfa4a9021d7eb2

Modelling
 Session 39: Modelling
 ⌚ Session starts at 13:10 Lecture

Predictive modelling of laser-induced functional surface textures through machine learning

Dipl.-Ing. Tobias Steege Gaëtan Bernard Sabri Alamri Frederic Schell Paul Darm Tim Kunze

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7853&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=7fa11dcc18a9d6194d

14:10

Biological applications
 Session 32: Biological applications II
 ⌚ Session starts at 13:10 Lecture

Femtosecond laser based smart procedures for the fabrication of polymeric lab on a chip devices

Udith Krishnan Vadakkum Vadukkal Dr. Annalisa Volpe Maria Serena Chiriaco Elisabetta Primicieri
 Giuseppe Maruccio Francesco Ferrara Dr. Antonio Ancona

(/scientific-program/lecture-program/?
 tx_dgmprogram_fullprogram%5Bsession%5D=7914&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=ff8354251b9999d55e

14:30

Modelling
 Session 39: Modelling
 ⌚ Session starts at 13:10 Lecture

Simulation of the tumor ECM using 2PP generated Scaffolds based on (D, L)-Lactide-ε-Caprolactone Copolymers

Dr. Nicole Hauptmann Johanna Ludolph Dr. Gerhard Hildebrand Prof. Dr. Klaus Liefeth

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8168&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4a80544dc005722b2b)

Biological applications
 Session 32: Biological applications II
 ⌚ Session starts at 13:10 Lecture

Medical device fabrication employing femtosecond 3D hybrid additive-subtractive micro-structuring

Linas Jonušauskas Dovilė Andrijev Tomas Baravykas Olga Kornyšova Agnė Butkutė Dr. Tomas Drevinskas Deividas Andriukaitis Henrikas Gričius Dr. Vilma Kaškonienė Titas Tičkūnas Dr. Mantas Stankevičius Prof. Dr. Audrius Maruška

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7962&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4e2c4f666313e57d13)

Interference Patterning
 Session 36: Interference Patterning II
 ⌚ Session starts at 13:10 Lecture

LIL system for pressurized environment processing

Tero Kumpulainen Amandeep Singh Nelli Palmu Arnold Ismailov Andreas Börner Hani Abou Hadba Jorma Vihinen Erkki Levänen

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7687&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=3b478b27ad38df2730)

Welding and bonding
 Session 40: Welding and bonding
 ⌚ Session starts at 14:30 Lecture

Project Ultraweld: Laser microwelding of dissimilar materials using industrial laser process tools

Dr. Dimitris Karnakis Dr. Etienne Pelletier Dr. Daniel Amalido del Cerro Riccardo Geremia David Grant

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7939&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=a1984703429f53b2cf)

14:50

B: Breaks
 Short Break with Q&A Break

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9407&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=a7eccc49d45c5e2105)

15:20

Special Session - LIFT
 Session 17: Special Session - LIFT II
 ⌚ Session starts at 15:20 Lecture

High speed soldering using laser printing for the assembly of electronic components

Dr. Marina Makrygianni Kostas Andritsos Dimitris Reppas Dr. Filimon Zacharatos Nikolaos Oikonomidis Dr. Christos Spandonidis Prof. Dr. Ioanna Zergioti

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7970&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=322e04e1084fbc510)

Biological applications
 Session 33: Biological applications III
 ⌚ Session starts at 15:20 Lecture

Laser texturation for improved osteointegration of Titanium implants

Dipl.-Ing. Marilys Blanchy Konstantin Sipos Dr. Aina Rodriguez Dr. Reine Bareille

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7626&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=5c139e7b0528389af2)

15:40

Special Session - LIFT
 Session 17: Special Session - LIFT II
 ⌚ Session starts at 15:20 Invited Lecture

Laser Direct-write of Screen-printable Pastes for Microelectronic Applications

Dr. Alberto Piqué Kristin Charjpar Dr. Heungsoo Kim Ray Auyeung Dr. Nicholas Charjpar

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8080&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=cd7c6bee89b354818)

Biological applications
 Session 33: Biological applications III
 ⌚ Session starts at 15:20 Lecture

Analysis of the fs-laser treatment influence on the bio-fouling properties of the stainless steel surface

Prof. Tomas Tamulevicius Mindaugas Juodenas Mantas Mikalkevicius Dr. Asta Tamuleviciene Vitoldas Kopustinskas Dr. Sarunas Meskinis Dr. Saulius Burinskas Prof. Dr. Sigita Tamulevicius

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7960&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e578d1660cb78cc4c8)

Electrical properties modification
 Session 41: Electrical properties modification
 ⌚ Session starts at 15:20 Lecture

Laser structuring of open cell metal foams for micro scale surface enlargement

Dr. Robert Baumann Thomas Rauscher Dr. Christian Immanuel Bernäcker Christoph Zwahr Dr. Lars Röntzsch Dr. Thomas Weißgärber Prof. Dr. Andrés Fabián Lasagni

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7728&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=2e5cca210b1009d742)

16:00

Biological applications
 Session 33: Biological applications III
 ⌚ Session starts at 15:20 Lecture

Texturing and replication of antibacterial surfaces for industrial applications

Ph.D. Laura Gemini Alexandra Bourtereau Marc Faucon Dr. Adrian Lutey Dr. Luca Romoli Dr. Rainer Kling

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7963&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f087cf0fdc1786ae5e)

Electrical properties modification
Session 41: *Electrical properties modification*
🕒 Session starts at 15:20 Lecture

Laser-Based Fabrication of ZnO/Graphene Hybrid Photodetectors
Kristin Charipar Dr. Heungsoo Kim Dr. Alberto Pique Dr. Nicholas Charipar

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8060&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=cf9555c66d712c8848)

16:20

Special Session - LIFT
Session 17: *Special Session - LIFT II*
🕒 Session starts at 15:20 Lecture

Jet-on-jet ejection phenomena during laser-induced forward transfer (LIFT) of silver nanoparticle inks
Justinas Mikšys Dr. Gari Arutinov Prof. Dr. Gert-willem Römer Dr. Matthias Feinaeugle

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8144&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=94fa5b540d21a48403)

Polymer and organic materials processing
Session 42: *Polymer and organic materials processing I*
🕒 Session starts at 16:20 Lecture

Light absorption enhancement in perovskite solar cells using microstructured polymers imprinted by roll-to-roll hot embossing
Dr. Marcos Soldera Dr. Qiong Wang Dr. Flavio Soldera Dr. Valentin Lang Dr. Antonio Abate Prof. Dr. Andrés Fabián Lasagni

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7682&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=fcd239465a1c15d41e)

16:40

B: Breaks
Short Break with Q&A Break

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9408&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=446e0cd5307991101b)

17:00

Polymer and organic materials processing
Session 43: *Polymer and organic materials processing II*
🕒 Session starts at 17:00 Lecture

Laser surface modification by an angle for electroless copper deposition on polymers.
Vytautas Vosylius

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8129&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=99e4120bd6f95b181c)

3D micro/nano processing
Session 44: *3D micro/nano processing I*
🕒 Session starts at 17:00 Lecture

Dimensionless enthalpy as characteristic factor for process control in laser powder bed fusion
Theresa Hanemann Christoph Seyfert Dr. Peter Holfelder Dr. Astrid Rota Prof. Dr. Martin Heilmair

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7912&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f1b996381542d8f8d)

Wettability and Ice-adhesion
Session 46: *Wettability and Ice-adhesion*
🕒 Session starts at 17:00 Lecture

Quantitative characterization method for assessing the self-cleaning effect on laser microstructured aluminium
Dipl.-Ing. Stephan Milles Dr. Marcos Soldera Prof. Dr. Andrés Fabián Lasagni

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7684&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=048078ef67bbe80102)

17:20

Polymer and organic materials processing
Session 43: *Polymer and organic materials processing II*
🕒 Session starts at 17:00 Lecture

Selective ultra-short-pulsed laser ablation for scribing of organic photovoltaics and decorative applications
Volker Franke Thomas Kuntze

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9236&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=f9cd8542c8677306d)

3D micro/nano processing
Session 44: *3D micro/nano processing I*
🕒 Session starts at 17:00 Lecture

3D Printing of Dense and Complex Cu Heat Sinks
Prof. Dr. Yongfeng Lu Loic Constantin Prof. Dr. Lisha Fan Zhipeng Wu Prof. Dr. Jean-Francois Silvain

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7731&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=26cd2f85a3d2495a0)

Wettability and Ice-adhesion
Session 46: *Wettability and Ice-adhesion*
🕒 Session starts at 17:00 Lecture

Interference-based microtexturing for anti-icing and de-icing of a Ti6Al4V NACA airfoil
Sabri Alamri Vittorio Vercillo Alfredo I. Aguilar-Morales Frederic Schell Prof. Dr. Andrés F. Lasagni Dr. Eimar Bonaccorso Dr. Tim Kunze

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7913&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=d5bb9c1947b7b12a2)

17:40

B: Breaks
Q&A Break

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9423&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=3eaa1022e32c3c9e70)

G: General Program
Networking at Conference Networking Platform General Program

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9409&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=2de9627e1e44157e30)

08:30

G: General Program
Admission and Technical Check-Up

General Program

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=9416&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=264214fac942c1aact

09:00

PL: Plenary Lectures
Ultrafast laser processing to innovate consumer electronics manufacturing
Prof. Dr. Jiyeon Choi

Plenary Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=9180&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=9636f15b70ed3ebfa

09:40

B: Breaks
Short Break to change the virtual room

Break

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=9410&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=2922b1d5bc65c6bb4f

09:50

Spatial beam shaping
Session 38: Spatial beam shaping II
🕒 Session starts at 09:50
Universal beam shaping technique for area processing of nanostructures in lattice II
Prof. Dr. Yoshiaki Nakata Taiyo Aoyama Yuki Kosaka Prof. Dr. Noriaki Miyayama Kazuhito Osawa

Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=8154&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=ac3753e8cbe758c2ea

3D micro/nano processing
Session 45: 3D micro/nano processing II
🕒 Session starts at 09:50
Fabrication of bioinspired structural colors by Two-Photon Polymerization
Gordon Zyla

Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=7972&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=7de3a0f643319597de

Monitoring
Session 47: Monitoring I
🕒 Session starts at 09:50
Rapid method using deep learning with multi-focus microphotographs to measure submicrometric structures
Riki Narukage George Okada Prof. Dr. Hiroshi Kawaguchi

Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=8191&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=94fe947dc7cce85d86

10:10

Spatial beam shaping
Session 38: Spatial beam shaping II
🕒 Session starts at 09:50
Ultrasonic laser shaping for advanced patterning
Dr. Marti Duocastella Dr. Alessandro Zunino Dr. Salvatore Surdo

Invited Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=8132&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=1cdc2b4b2fbdb79f

3D micro/nano processing
Session 45: 3D micro/nano processing II
🕒 Session starts at 09:50
Ultrafast laser written 3D – 3 Telescopes beam combiner for stellar interferometry applications
Dr. Ciro D'Amico Dr. Guodong Zhang Prof. Guanghua Cheng Dr. Guillermo Martin Dr. Razvan Stoian

Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=8033&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=84940be4036b54141f

Monitoring
Session 47: Monitoring I
🕒 Session starts at 09:50
Optical measurement of functional surface structures measured with super resolution
Matthias Liedmann Torsten Machleidt Max Schneider

Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=8155&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=5a4596ff3508d41bf9f

10:30

3D micro/nano processing
Session 45: 3D micro/nano processing II
🕒 Session starts at 09:50
Three Dimensional Writing of Material Functions by femtosecond laser: Science and Technology
Prof. Dr. Bertrand Poumellec Prof. Matthieu Lancry

Invited Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=9085&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=31052a432c7d003b4b

Monitoring
Session 47: Monitoring I
🕒 Session starts at 09:50
Digital approach for laser parameters optimization in femtosecond processing
Dr. Eric Audouard

Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=7921&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=be269a716fc2e1df82

10:50

Monitoring
Session 47: Monitoring I
🕒 Session starts at 09:50
Heat accumulation investigation in ultrashort pulse laser micromachining
Ph.D. Jiri Martan Lucie Prokesova Denys Moskal Bernardo Campos Ferreira de Faria Dr. Milan Honner

Lecture

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=7858&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=451700330bda17562b

11:10

B: Breaks
Short Break with Q&A

Break

(/scientific-program/lecture-program/?
tx_dgmprogram_fullprogram%5Bsession%5D=9412&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=ecd48833300c074e7

11:30

Advanced Micromachining
 Session 22: *Advanced Micromachining III*
 ⌚ Session starts at 11:30 Lecture

Laser-Induced Redistribution of Sn atoms in GeSn Solid solutions
 Dr. Pavels Onufrijevs Dr. Patrik Ščajev Prof. Dr. Arturs Medvids Prof. Dr. Mindaugas Andrelevicius
 Dr. Tadas Malinauskas Dr. Sandra Stanionytė Dr. Martynas Skapas Dr. Liga Grase Dr. Michael Oehme
 Prof. Dr. Joerg Schulze

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8112&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=0b5da095c1dc24b581...)

Monitoring
 Session 48: *Monitoring II*
 ⌚ Session starts at 11:30 Lecture

Monitoring the heat accumulation during fabrication of surface micropatterns on metallic surfaces using Direct Laser Interference Patterning
 Dipl.-Ing. Nikolai Schröder Dr. Germán Vergara Dr. Bogdan Voisat Prof. Dr. Andrés-Fabián Lasagni

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7742&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=c0185d4ba64c78beca...)

Laser assisted deposition and growth
 Session 49: *Laser assisted deposition and growth*
 ⌚ Session starts at 11:30 Lecture

Combination of nanosecond pulsed laser and Aerosol Assisted Chemical Vapor Deposition for ZnO growth
 Ph.D. Sergio Sanchez Martin

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7683&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=a62adb81704823ab6c...)

Advanced Micromachining
 Session 22: *Advanced Micromachining III*
 ⌚ Session starts at 11:30 Lecture

On the formation of nano and micro scale surface features induced by femtosecond filament laser ablation
 Dr. Joerg Schille Prof. Jose R. Chirinos Dr. Xianglei Mao Prof. Dr. Udo Loeschner Prof. Richard E. Russo Prof. Vassilia Zorba

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8277&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=e1e3becfe2109504e0...)

Monitoring
 Session 48: *Monitoring II*
 ⌚ Session starts at 11:30 Lecture

Process monitoring using photo-acoustic emission in Direct Laser Interference Patterning
 Dipl.-Ing. Tobias Steege Sabri Alamri Prof. Dr. Andrés Fabián Lasagni Dr. Tim Kunze

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7843&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=9cf7e9bfd558d4d059...)

Laser assisted deposition and growth
 Session 49: *Laser assisted deposition and growth*
 ⌚ Session starts at 11:30 Lecture

High-throughput Study of Metal-oxides Photoelectrodes: The Advantage of Lateral Inhomogeneity of PLD
 Dr. Ronen Gottesman Prof. Dr. Roel van de Krol

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7809&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=58b2057f11861a5b6c...)

Monitoring
 Session 48: *Monitoring II*
 ⌚ Session starts at 11:30 Lecture

Online pyrometry for weld seam localization in absorber-free laser transmission welding of transparent polymers
 Frederik Maiwald Stephan Englmaier Prof. Dr. Stefan Hierl

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=7852&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=d8c187af0942445ed...)

Laser assisted deposition and growth
 Session 49: *Laser assisted deposition and growth*
 ⌚ Session starts at 11:30 Lecture

Microfabrication of model Solid Oxide Fuel Cells for synchrotron-based operando studies
 Dr.-Ing. Catalina Jiménez

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8035&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=fe9761ae12365153bf...)

B: Breaks
Break with Q&A and Virtual Exhibition Break

12:30

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9411&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=40729e01baf1bad7b...)

PL: Plenary Lectures Plenary Lecture
Pan-European Photonics Innovation Support for Companies and Researchers: ongoing initiatives and future opportunities.
 Prof. Dr. Hugo Thienpont

13:20

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9424&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=93f90f3b332a570ea0...)

PL: Plenary Lectures Plenary Lecture
Laser-based microfabrication and metrology of laser-driven inertial fusion targets
 Prof. David Harding Sarah Fess Mark Bonino Robert Earley Dr. Craig Sangster Dr. Michael Campbell Prof. Yongfeng Lu Dr. Peixun Fan Dr. Xi Huang

14:00

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=8181&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=9286d2be700245881...)

G: General Program General Program
Award Ceremony & Closing Remarks

14:40

(/scientific-program/lecture-program/?tx_dgmprogram_fullprogram%5Bsession%5D=9419&tx_dgmprogram_fullprogram%5Baction%5D=show&tx_dgmprogram_fullprogram%5Bcontroller%5D=Session&cHash=4f28a8426dabbe2d9f...)

