

Technical Program

Conf. 1: Advanced Lasers Technology and Application

Room: Conference Room C, L2, Etrong

Room: San Francisco Room, L3, Pullman Hotel

Conference Chairs:



Shibin Jiang
(Advalue Photonics, USA)



WANG Lijun
(Changchun institute of
Optics, Fine Mechanics
and Physics, CAS, China)



LIU Zejin
(National University of
Defense Technology,
China)

Excutive Chair:

ZHOU Pu (National University of Defense Technology, China), SHI Wei(Tianjin University, China)

Program Committee:

Keming Du(EdgeWave GmbH, Germany), Vijay Kancharla(IPG Photonics Corp, USA), Andrew Tian (Spectra-Physics, USA), Zhigang Zhao(University of Tokyo, Japan), QIN Guanshi (Jilin University, China), XIE Guoqiang (Shanghai Jiaotong University, China), WEI Zhiyi(Institute of Physics, Chinese Academy of Sciences, China), LI Wenxue(East China Normal University, China), WU Dong (University of Science and Technology of China, China), LUO ZhiChao (South China Normal University, China), ZHANG Jian(Shanghai Institute of Ceramics, Chinese Academy of Sciences, China) , HU Minglie(Tianjin University, China)

Afternoon 23 May		Room: Conference Room C, L2, Etrong
Session 1	Chair: Shibin Jiang (Advalue Photonics, USA)	
13:30-13:55	Micro processing of macro parts (MP ²) with ultra-short pulse lasers, Keming Du(EdgeWave GmbH, Germany) <i>Invited</i>	
13:55-14:20	Ultrafast fiber laser enabled high repetition rate VUV sources generation, Zhigang Zhao (University of Tokyo, Japan) <i>Invited</i>	
14:20-14:45	High-end laser cleaning technology and industrial development, YAO Jianquan (Tianjin University,	

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	China) <i>Invited</i>
14:45-15:10	The application prospect and development of ultra-fast laser processing technology in aviation industry, ZHANG Wei(AVIC Beijing Aviation Manufacturing Engineering Research Institute, China) <i>Invited</i>
15:10-15:35	Application of picosecond laser in remote laser ranging and its key technologies, HUANG Yutao (Institute of Optics and Electronics, Chinese Academy of Sciences, China) <i>Invited</i>
15:35-15:50	coffee/tea break
Session 2	Chair: SHI Wei(Tianjin University, China)
15:50-16:15	Research on high-performance single-frequency silica fiber laser and power scaling based on all fiber-based MOPA configuration, SHI Wei(Tianjin University, China) <i>Invited</i>
16:15-16:30	High power fiber lasers covering 1 to 2 μm , FENG Yan(Shanghai Institute of Optics and Fine Mechanics, CAS, China) <i>Invited</i>
16:30-16:55	Multi-band RF intensity modulated laser sources, YANG Suhui(Beijing Institute of Technology) <i>Invited</i>
16:55-17:20	All-solid fluorotellurite fibers for 10-W-level supercontinuum generation from 1 to 4 μm , QIN Guanshi (Jilin University, China) <i>Invited</i>
Morning 24 May	Room: San Francisco Room, L3, Pullman Hotel
Session 3	Chair: WEI Zhiyi(Institute of Physics, Chinese Academy of Sciences, China)
08:30-08:55	New progresses on high power femtosecond fiber laser, WEI Zhiyi(Institute of Physics, Chinese Academy of Sciences, China) <i>Invited</i>
08:55-09:20	Study and progress on ultraclean optical vortex generation from laser, XIE Guoqiang (Shanghai Jiaotong University, China) <i>Invited</i>
09:20-09:55	Photo darkening performance and radiation response in Yb^{3+} doped silica fiber, YU Chunlei (Shanghai Institute of Optics and Fine Mechanics, CAS, China) <i>Invited</i>
09:55-10:20	Femtosecond Optical Frequency Combs and Dual-comb Spectroscopy, LI Wenxue(East China Normal University, China) <i>Invited</i>
10:20-10:30	coffee/tea break
Session 4	Chair: XIE Guoqiang(Shanghai Jiaotong University, China)
10:30-10:55	Glass and Sapphire Drilling Using Fiber Lasers, Shibin Jiang (Advalue Photonics, USA) <i>Invited</i>
10:55-11:20	Advances in Fiber Laser Welding of Aluminum and Copper, Vijay Kancharla (IPG Photonics Corp, USA) <i>Invited</i>
11:20-11:45	Ultra-short pulsed lasers for advanced, industrial manufacturing, Andrew Tian (Spectra-Physics, USA) <i>Invited</i>
11:45-12:00	Theoretical investigation of mode competition in high-power fiber lasers and amplifiers at 1018nm, XIE Zhaoxin(Tianjin University, China) (OTA201801-011)
12:00-12:15	3.01kW average power all-fiber amplifier with 0.16nm narrow-linewidth single-mode beam quality, SHI Yi (Research Center of Laser Fusion, China Academy of Engineering Physics, China) (OTA201801-002)
Afternoon 24 May	
Session 5	Chair: ZHOU Pu(National University of Defense Technology, China)
13:30-13:55	Recent progress on RE:YAG composite laser ceramics, ZHANG Jian(Shanghai Institute of Ceramics, Chinese Academy of Sciences, China) <i>Invited</i>
13:55-14:20	Few cycle pulse generation from fiber femtosecond laser, HU Minglie(Tianjin University, China) <i>Invited</i>

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14:20-14:45	Recent advances in 2D materials-based multi-wavelength ultrafast lasers and phenomenon, GUO Bo(Harbin Engineering University, China) <i>Invited</i>
14:45-15:10	Exploring frequency down-conversion mid-infrared laser with flexible spectrum by pumping with novel fiber source, LI Xiao(National University of Defense Technology, China) <i>Invited</i>
15:10-15:25	coffee/tea break
Session 6	Chair: ZHANG Jian(Shanghai Institute of Ceramics, Chinese Academy of Sciences, China)
15:25-15:50	Soliton explosion dynamics in ultrafast fiber lasers, LUO Zhichao (South China Normal University, China) <i>Invited</i>
15:50-16:15	The application of picosecond laser in the processing field of thin film solar cell, WANG Zhihui (Beijing Laize Photonics Co., Ltd) <i>Invited</i>
16:15-16:40	Unified theory of the temporal-spectral dynamics in Ytterbium-doped fiber lasers, ZHOU Pu (National University of Defense Technology, China) <i>Invited</i>
16:40-16:55	Preliminary research on seed pulse-shaping of an all-fiber supercontinuum source, XU Zehua (National University of Defense Technology, China) (OTA201801-037)
16:55-17:10	Advances in Mechanism Research of Femtosecond Laser Filamentation Induced Hydrometeors Formation, GAO Taichang(National University of Defense Technology, China) (OTA201801-046)
17:10-17:25	Single-frequency fiber laser operating above 2 um based on cascaded single-mode-multimode-single-mode fiber structures and Sagnac loop, SHI Chaodu (Tianjin University, China) (OTA201801-034)