



55. Internationales Wissenschaftliches Kolloquium 2017

Engineering for a Changing World

11. bis 15. September 2017

Reihe 1.4

Optics

for Illumination, Imaging and Metrology

14. September 2017

Fakultät für Maschinenbau
Fachgebiete Technische Optik und Lichttechnik

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Session 1.4 Optics for Illumination, Imaging and Metrology

Time: Thursday, 14.09.2017

Location: Humboldtbau | Lecture Room 010

Chairman: St. Sinzinger (D-Ilmenau)

9:00 a.m.	X. Cao, St. Sinzinger (D-Ilmenau)
Removal of optical aberrations caused by illumination system in Fourier ptychography	
9:20 a.m.	H. Lietz, J. Eberhardt (D-Weingarten)
Introduction to Fourier Ptychographic Imaging for 3D ToF cameras	
9:40 a.m.	D. Karthaus, O. Sandfuchs (D-Lippstadt), St. Sinzinger (D-Ilmenau)
Transmission Volume Holograms for LED Illumination	
10:20 - 10:40 a.m. Coffee break and Visits of Expositions	
10:40 a.m.	C. Menke (D-Oberkochen)
Optical Design with Orthogonal Freeform Representations	
11:00 a.m.	A. Hofmann (D-München)
Optical Design for Manufacturing for Freeform Optics	
11:20 a.m.	K. Bredemeier (D-Ilmenau)
Photometric data for the development of lighting components	
11:40 a.m.	N. Fernkorn (D-Goslar)
Challenges for lighting manufacturers at optical design for luminaires	
12:00 noon – 1:30 p.m. Lunch and Visits of Expositions	
12:00 noon – 1:30 p.m. Poster Session Foyer Humboldtbau	



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Time: Thursday, 14.09.2017

Location: Humboldtbau | Lecture Room 210

Chairman: C. Vandahl (D-Ilmenau)

1:30 p.m.	LightTec GmbH (D-München)
Presentation of Light Simulation Software LightTools and Lucidshape	
2:50 - 3:10 p.m. Coffee break	
2:50 p.m.	LightTec GmbH (D-München)
Presentation of Light Simulation Software LightTools and Lucidshape	
4:30 p.m. End of Presentation	

