



THE UNIVERSITY OF ARIZONA

Wyant College
of Optical Sciences

INDUSTRIAL AFFILIATES WORKSHOP

MONDAY, FEBRUARY 17, 2020

PROGRAM TIME	EVENT	LOCATION
1:00 - 3:00 p.m.	IA Corporate Showcase Set Up	Grand Ballroom, Student Union Memorial Center
3:00 - 6:00 p.m.	Industrial Affiliates Member Corporate Showcase	
6:00 - 7:30 p.m.	Dinner (students, faculty and IA members)	
7:30 - 9:00 p.m.	Showcase - Break-Down and Pack-Up Please have address labels affixed to all items being shipped. Wyant College of Optical Sciences staff and volunteers will ensure your items are transported back to the OSC mail-room and mailed out in the morning.	



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INDUSTRIAL AFFILIATES WORKSHOP

TUESDAY, FEBRUARY 18, 2020

PROGRAM TIME	EVENT	LOCATION
7:45 - 8:45 a.m.	Welcome Breakfast	8th Floor Breakout Area
8:45 - 9:00 a.m.	Group Photo	3rd Floor Lobby
9:00 - 9:15 a.m.	Workshop Welcome	Meinel 307
9:17 - 9:57 a.m.	Keynote Speaker: Jed Hancock, Space Dynamics Lab	
10:00 - 10:20 a.m.	Meredith Kupinski, Associate Research Professor of Optical Sciences "Evaluating the Utility of Mueller Matrix Imaging for Diffuse Material Classification"	
10:22 - 10:35 a.m.	Khalid Omer, Ph.D. Student (Advisor: Meredith Kupinski) "Pre-CNN Compression for High-Dimensional Low Sample Size Imaging"	
10:35 - 10:50 a.m.	Break	
10:50 - 10:59 a.m.	Tom Hausken Ph.D., Senior Advisor OSA "OSA Industry Report"	
11:00 - 11:20 a.m.	Mahmoud Fallahi, Professor of Optical Sciences "Vertical External Cavity Lasers for On-Demand Wavelengths and Beams Generation"	
11:21 - 11:33 a.m.	Jason Meyer, Ph.D. Student (Advisor: Mahmoud Fallahi) "Passively Mode Locked VECSEL Cavity Optimization for Ultrafast, High Peak Power Second Harmonic Generation"	
11:34 - 11:46 a.m.	Reagan Weeks, Ph.D. Student (Advisor: Jason Jones) "Dual Frequency Comb Spectroscopy for Time-Resolved Measurements and Characterization of Laser-Induced Plasmas"	
11:47 - 11:59 a.m.	Walk to Dan Dunlap Stadium Club	
12:00 - 1:00 p.m.	Lunch (students, faculty and IA members) Dan Dunlap Stadium Club	
1:20 - 1:40 p.m.	Hong Hua, Professor of Optical Sciences "eSight Low Vision System"	
1:41 - 2:01 p.m.	Lloyd LaComb, Research Professor of Optical Sciences "Augmented Reality Glasses with 70 deg Field of View Based on Holographic Technology"	





INDUSTRIAL AFFILIATES WORKSHOP

TUESDAY, FEBRUARY 18, 2020, cont'd

PROGRAM TIME	EVENT	LOCATION
2:02 - 2:14 p.m.	Yukun Qin, Ph.D. Student (Advisor: Khanh Kieu) "Watt-Level All-Fiber Optical Parametric Chirped-Pulse Source for Multiphoton Microscopy"	
2:15 - 2:27 p.m.	Stephanie Arouh, Ph.D. Student (Advisor: Bob Norwood) "Photonic Devices Using Sol-Gel Method for Telecommunication Applications"	
2:28 - 2:40 p.m.	Owen Anderson, M.S. Student (Advisor: Lars Furenlid) "Calibration Robot for Complex Gamma Ray Detector Geometries"	
2:40 - 3:00 p.m.	Break	3rd Floor Lobby
3:00 - 3:12 p.m.	Rantaj Singh, B.S. Student (Advisor: Nik Anderson) "Linear Motion System for Ground Viewing Radiometers"	
3:14 - 3:26 p.m.	Juliana Richter, Ph.D. Student (Advisor: Michael Hart) "Remote Mechanical Vibration Detection with HTI"	
3:28 - 3:40 p.m.	Zichan Wang, M.S. Student (Advisor: Tom Milster) "Improving the Field Performance of MODE Lenses"	
3:42 - 3:54 p.m.	Alexander Lin, Ph.D. Student (Advisor: Matthew Kupinski) "A Real Time Adaptive Strategy for Gamma-Ray Imaging Systems"	
3:55 - 4:15 p.m.	Miroslav Kolesik, Associate Professor of Optical Sciences "Computational Optical Physics at the Wyant College of Optical Sciences"	
4:17 - 4:29 p.m.	Shu Yang, Ph.D. Student (Advisor: Amit Ashok) "Passive Indirect Imaging"	
4:30 - 4:42 p.m.	Garrett Richards, Ph.D. Student (Advisor: Lars Furenlid) "Comparing Silicon Photomultipliers with Photomultiplier Tubes in a Hybrid Gamma Camera"	
4:45 - 5:00 p.m.	Student "Rapid Fire" Presentations - 5 minutes each Ryker Eads, Ph.D. Student (Advisor: Roger Angel) "6.5-m Wide Field Cassegrain Telescope with Atmospheric Dispersion Correction" Benjamin Chrysler, Ph.D. Student (Advisor: Raymond Kostuk) "Volume Holographic Elements and Their Applications in Solar Energy"	
5:00 - 5:20 p.m.	Jen Garcia, CGMP, Senior Events Coordinator & Amber R. Soergel, Senior Academic Advisor Affiliate Input Needed! -- Strategic Plan for Future Workshops & Events	
5:30 - 7:00 p.m.	Student Poster Session Poster Sessions (look for details in your agenda packet) Refreshments provided.	3rd Floor Lobby





INDUSTRIAL AFFILIATES WORKSHOP

WEDNESDAY, FEBRUARY 19, 2020

PROGRAM TIME	EVENT	LOCATION
8:00 - 9:00 a.m. 9:00 a.m. - 12:00 p.m.	Continental Breakfast Tours: Open Labs (schedule will be provided)	3rd Floor Lobby
9:00 - 9:20 a.m.	D.K. Kang, Assistant Professor of Optical Sciences "Low-Cost Microscopy Technologies for Disease Diagnosis in Low-Resource Settings"	
9:21 - 9:41 a.m.	Jose Sasian, Professor of Optical Sciences "Confocal System Design with Freeform Surfaces"	
9:42 - 9:54 a.m.	Zhihan Hong, Ph.D. Student (Advisor: Rongguang Liang) "3D Printing Optics"	
9:55 - 10:15 a.m.	Luca Caucci, Assistant Research Professor of Optical Sciences "An Introduction to Photon Processing"	
10:16 - 10:28 a.m.	Micaehla May, M.S. Student (Advisor: Lars Furenlid) "Design and Fabrication of Multi-Pinhole Colimators for Brain Imaging on Clinical and Preclinical SPECT"	
10:29 - 10:40 a.m.	Break	3rd Floor Lobby
10:40 - 11:40 a.m.	Wrap-Up Session - Academic Programs R. John Koshel, Associate Dean, Undergraduate Academic Affairs Brian P. Anderson, Associate Dean, Graduate Academic Affairs	Meinel 307
12:00 p.m.	Farewell Pizza Party Lunch	3rd Floor Lobby

Thank you for joining us!

