



THE UNIVERSITY OF ARIZONA COLLEGE OF OPTICAL SCIENCES

INDUSTRIAL AFFILIATES WORKSHOP

MONDAY, FEBRUARY 25, 2019

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 Affiliate Partner Member Corporate Showcase	
6:00 - 7:30 p.m.	Dinner	
7:30 - 9:00 p.m.	Showcase - Break-Down and Pack-Up Please have address labels affixed to all items being shipped. 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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TUESDAY, FEBRUARY 26, 2019

PROGRAM TIME	EVENT	LOCATION
7:45 a.m.	Welcome Breakfast	8th Floor Breakout Area
8:45 a.m.	Group Photo	3rd Floor Lobby
9:00 a.m.	Workshop Welcome	Meinel 307
9:10 a.m.	Industrial Affiliates Partner Presentation - Ball Aerospace David Chaney - "JWST Mirror Manufacturing and Test" Koby Smith - "JWST Telescope Level Assembly and Testing" Laura Coyle - "JWST Commissioning Plans"	
9:55 a.m. 9:55 - 10:15 a.m.	OSC Research Presentations Felipe Guzman, Associate Professor of Optical Sciences "Optomechanical Inertial Sensors"	
10:15 - 10:27 a.m.	Alexander Rodack, Ph.D. Student (Advisor: Jared Males) "Estimating and Correcting NCPA in Extreme-AO Coronagraphic Systems in Real-time"	
10:27 - 10:39 a.m.	Charlotte Guthery, Ph.D. Student (Advisor: Michael Hart) "Theory and Development of a Hybrid Wave-front Sensor"	
10:39 a.m.	Break	
11:00 a.m. 11:00 - 11:20 a.m.	OSC Research Presentations (cont.) Linran Fan, Assistant Professor of Optical Sciences "Quantum Optics Systems on Chip"	Meinel 307
11:20 - 11:32 a.m.	Farhad Akhoundi, Ph.D. Student (Advisor: Nasser Peyghambarian) "Nanostructure Modification Using Femtosecond Laser"	
11:32 - 11:44 a.m.	Mohan Xu, Ph.D. Student (Advisor: Hong Hua) "Co-axial Depth Map Sensor with an Extended Depth Range"	
12:00 p.m.	Lunch	Student Union South Ballroom
1:20 p.m. 1:20 - 1:40 p.m.	OSC Research Presentations (cont.) Harry Barrett, Regents' Professor of Optical Sciences "Image Science and Precision Cancer Therapy"	Meinel 307



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TUESDAY, FEBRUARY 26, 2019, cont'd

PROGRAM TIME	EVENT	LOCATION
1:40 p.m. 1:40 - 1:52 p.m.	OSC Research Presentations (cont.) Zhen (Andy) Xiong, Ph.D. Student, (Advisor: Euan McLeod) "Biomedical Sensing using Lens-free Microscopy"	Meinel 307
1:52 - 2:04 p.m.	Cheng Gong, M.S. Student (Advisor: Dongkyun Kang) "Low-cost, High-speed Confocal Microscope for Imaging Human Skin in Vivo"	
2:04 - 2:16 p.m.	Matthew Noyes, M.S. Student (Advisor: Michael Hart) "Orbital Mechanics and Viability of Satellite Laser Guide Stars"	
2:16 - 2:28 p.m.	Alex Lin, Ph.D. Student (Advisor: Matthew Kupinski) "Point Spread Function Modeling for Gamma-Ray Imaging Systems"	
2:28 - 2:40 p.m.	Travis Sawyer, Ph.D. Student (Advisor: Jennifer Barton) "In Vivo Multiphoton Imaging of an Ovarian Cancer Mouse Model"	
2:40 p.m.	Break	3rd Floor Lobby
3:10 p.m. 3:10 - 3:30 p.m.	OSC Research Presentations (cont.) Dal Wilson, Assistant Professor of Optical Sciences "Ultra-high-Q Nanomechanical Resonators in the Spotlight"	Meinel 307
3:30 - 3:42 p.m.	Daniel Hemmer, Ph.D. Student (Advisor: Poul Jessen) "Metrology Below the Standard Quantum Limit"	
3:42 - 4:02 p.m.	Logan Richardson, Post-doctoral Researcher (Supervisor: Felipe Guzman) "Quantum-optomechanical and atom interferometry"	
4:02 - 4:52 p.m.	Student "Rapid Fire" Presentations A variety of student research presentations - 5 minutes each	
4:52 p.m.	Review of OSC Research Presentations	Meinel 307
5:30 p.m.	Student Poster Session Poster Sessions (look for details in your agenda packet) Refreshments provided.	3rd Floor Lobby



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WEDNESDAY, FEBRUARY 27, 2019

PROGRAM TIME	EVENT	LOCATION
8:00 a.m. 9:00 a.m.	Continental Breakfast Tours: Open Labs (schedule will be provided)	3rd Floor Lobby
9:00 a.m. 9:00 - 9:12 a.m.	OSC Research Presentations Isaac Trumper, Ph.D. Student (Advisor: Dae Wook Kim) "Optical Design with Freeform Elements; a Parametric Fitness Function for Selecting a Surface"	Meinel 307
9:12 - 9:24 a.m.	Michael Grace, Ph.D. Student (Advisor: Saikat Guha) "Resolving Beyond the Rayleigh Limit with Limited Prior Information"	
9:24 - 9:36 a.m.	Joshua Rodriguez, M.S. Student (Advisor: Yuzuru Takashima) "High-speed LIDAR by Multi-order Laser Beam Steering with Digital Micro Mirror Device"	
9:36 - 9:48 a.m.	Jingwei Wu, Ph.D. Student (Advisor: Xiushan Zhu) "High power 976-nm fiber amplifier"	
9:48 a.m.	Break	3rd Floor Lobby
10:30 a.m.	Breakout Session in Optical Sciences Academic Program R. John Koshel, Associate Dean of Academics, College of Optical Sciences "Updates: OSC Recruiting; Winter School and REU; Curriculum changes; Quantum information; Opto-mechanics degree options and classes; and more."	Meinel 307
12:00 p.m.	Farewell Pizza Party Lunch	3rd Floor Lobby

Thank you for joining us!



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