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## Fall 2013 Industrial Affiliates Workshop Agenda

### Monday, Sept. 30

4-6 p.m.	<b>Corporate Showcase and Career Fair</b>	SUMC North Ballroom
6-7 p.m.	<b>Dinner</b>	

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### Tuesday, Oct. 1

7:30 a.m.	<b>Welcome Breakfast</b>	Meinel 8th Floor Breakout Area
8:30 a.m.	<b>Group Photo</b>	Meinel 3rd Floor Lobby
8:45 a.m.	<b>Workshop Overview</b>	Meinel 307
8:50 a.m.	<b>Keynote, Faculty and Student Presentations</b>	
8:50-9:15 a.m.	Charles M. Falco, Professor of Optical Sciences and Physics "The Science of Optics ~ The History of Art"	
9:15-9:30 a.m.	Jim H. Burge, Professor of Optical Sciences and Astronomy "Revolutionary Concepts for Freeform Aspheric Optics"	
9:30-9:45 a.m.	Tamer Elazhary, Ph.D. Student (Advised by Jim H. Burge) "Analytic Design of Optical Systems "	
9:45-10:00 a.m.	Alex Maldonado, Ph.D. Student (Advised by Jim H. Burge) "Increasing the Dynamic Range of Surface Metrology with Deflectometry"	
10:00-10:15 a.m.	Lee Johnson, B.S. in OSE "Freeform Maskless Lithography Fabrication of Diffractive Pupil on Spherical Surfaces for Astrometric Detection of Exoplanets"	
10:15 a.m.	<b>Refreshment Break</b>	Meinel 3rd Floor Lobby
10:30 a.m.	<b>Senior Design Presentations</b>	Meinel 307
10:30-10:45 a.m.	Sabrina Ball, B.S. in MEE, Alexander T. Rodack, B.S. in OSE "Feasibility Study & Demonstration of a Head-Up Display for an Aircraft"	
10:45-11:00 a.m.	James Upton, Wenten Yin, B.S. in OSE "High Energy Laser Beam Metrology Device"	
11:00-11:15 a.m.	Ashley Lancaster, Michael Portugal, Alexandra Schluntz, Patrick Thrasher, B.S. in OSE "Specular Black Baffle Design"	
11:15-11:30 a.m.	Oybek Kholiqov, Emylee Lendborg and Issa Tamer, B.S. in OSE "Application of Carbon Nanotubes for Stray Light Mitigation"	
11:30-11:45 a.m.	Jeff Noble, Chase Salsbury, Yufeng Yan, B.S. in OSE, Brandon Knight, B.S. in SIE "Camera System with On-Demand Polarimetric Filtering"	
12 p.m.	<b>Meet in 3rd Floor Lobby for Vans to Student Union Memorial Center</b>	
12:15 p.m.	<b>Lunch and Industrial Affiliate Elevator Speeches</b>	SUMC South Ballroom
1:30 p.m.	<b>Poster Presentations</b>	
2:30 p.m.	<b>Return to Meinel Building</b>	

2:45 p.m.	<b>Faculty and Student Presentations</b>	Meinel 307
2:45-3 p.m.	Stanley Pau, Associate Professor of Optical Sciences "Research in Chemical Sensors, Energy Conversion and Micro-optics"	
3-3:15 p.m.	Wei-Liang Hsu, Ph.D. Student (Advised by Stanley Pau) "Fabrication and Applications of Micropolarizer"	
3:15-3:30 p.m.	Roland Himmelhuber, Ph.D. Student (Advised by Nasser Peyghambarian and Robert A. Norwood) "Elionix ELS-7000 Electron Beam Lithography System"	
3:30-3:45 p.m.	Urs Utzinger, Interim Department Head, Biomedical Engineering	
3:45-4:00 p.m.	Hong Hua, Associate Professor of Optical Sciences, Electrical & Computer Engineering, Computer Science "Recent Development on Augmented Reality Displays"	
4:00-4:15 p.m.	Xinda Hu, Ph.D. Student (Advised by Hong Hua) "Freeform Optics Enabling an Optical See-through Multi-focal-plane Head-mounted Display"	
4:15 p.m.	<b>Refreshment Break</b>	Meinel 3rd Floor Lobby
4:30-5:15 p.m.	<b>Job-Seeking 101 Session</b>	Meinel 307
5:15-6:15 p.m.	<b>Mixer</b>	Meinel 3rd Floor Lobby

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## Wednesday, Oct. 2

8 a.m.	<b>Continental Breakfast</b>	Meinel 3rd Floor Lobby
8:30 a.m.	<b>Faculty and Student Presentations</b>	Meinel 307
8:30-8:55 a.m.	Garam Young, Alumna, Synopsys "High NA Aberrations"	
8:55-9 a.m.	Wai-Sze Tiffany Lam, Ph.D. Student (Advised by Russell Chipman) "Polarization Ray Tracing"	
9-9:05 a.m.	Stacey Sueoka, Ph.D. Student (Advised by Russell Chipman) "Advanced Technology Solar Telescope"	
9:05-9:10 a.m.	Christine Bradley, Ph.D. Student (Advised by Russell Chipman) "Polarization of the Sky"	
9:10-9:15 a.m.	Karlton Crabtree, Research Scientist "Imaging Polarimeter Experiments from High Altitude Aircraft"	
9:15-9:30 a.m.	Mahmoud Fallahi, Professor of Optical Sciences "Recent Developments in High-Power Vertical External Cavity Surface Emitting Lasers"	
9:30-9:45 a.m.	Michal Lukowski, Ph.D. Student (Advised by Mahmoud Fallahi) "Color Generation in Two-Chip VECSEL"	
9:45 a.m.	<b>Meet in 3rd Floor Lobby to Walk to Steward Observatory Mirror Laboratory</b>	
10 a.m.	<b>Mirror Lab Tour</b>	
10:45 a.m.	<b>Return to Meinel Building for Refreshments</b>	Meinel 3rd Floor Lobby
11 a.m.	<b>Student Presentations</b>	Meinel 307
11-11:10 a.m.	Benjamin Cromey, B.S. in OSE "Characterization of Photorefractive Polymers for 3D Holographic Displays"	
11:10-11:20 a.m.	Guillaume Butel, Ph.D. in OSE (Advised by Jim H. Burge) "Introducing Portable Deflectometry"	
11:20-11:30 a.m.	Sean Mcafferty, Ph.D. in OSE (Advised by Jim Schwiegerling) "True Accommodating Intraocular Lens; Prototype Testing and Modeling"	
11:30 a.m.	<b>Workshop Evaluation and Feedback Session</b>	Meinel 307
Noon	<b>Pizza Party Lunch and Farewell</b>	Meinel 3rd Floor Lobby
1 p.m.	<b>Individual Company Interviews and End of Formal Workshop</b>	