



Spring 2013 Industrial Affiliates Workshop Agenda Tuesday, Wednesday and Thursday Feb. 19, 20 and 21

Tuesday, Feb. 19

5:30-8 p.m.

Corporate Showcase and Career Fair

- Student Research Poster Session
- Company Profiles and Products
- Student Participants from the College of Optical Sciences and the College of Engineering

Student Union
Memorial Center
South Ballroom

Wednesday, Feb. 20

7:45-8:45 a.m.

Industrial Affiliates Welcome Breakfast

Thomas L. Koch, Dean
Kaye Rowan, Director of Development

Eighth Floor

8:45-9 a.m.

Group Photo

Third Floor Lobby

9-9:15 a.m.

Workshop Overview

Carl F. Maes, Associate Dean of Academic Programs

Meinel 307

9:15-10 a.m.

Keynote Speaker

Jim Schwiegerling, Professor of Optical Sciences and Ophthalmology
"Seeing Up Close: Advances in Intraocular Lenses"

Meinel 307

10-10:15 a.m.

Break

Third Floor Lobby

10:15-11:15 a.m.

Senior Design Presentations

Meinel 307

10:15-10:30 a.m.

McCabe Bedell, James Magras and Austin Wilson, B.S. in OSE:
"Self-Administered Pneumatic Tonometer"

10:30-10:45 a.m.

Samuel Driscoll, B.S. in OSE:
"Automated Adhesive Dispensing System"

10:45-11 a.m.

Li Jiang, B.S. in M.E.E.; Dale Karas, B.S. in OSE; and Juan Vivieros, B.S. in S.Y.E.:
"Automated On-Slide Puddle Volume Measurement System"

11-11:15 a.m.

Kevin Duperret, B.S. in OSE:
"Alternative Fuel Conversion Kit for Small Gas-Powered Engines"

11:15-11:30 a.m.

Walk to Student Union Memorial Center

Meet in
Third Floor Lobby

11:30 a.m.-1:30 p.m.	Affiliate/Student Business Lunch and Industrial Affiliate Elevator Speeches	SUMC South Ballroom
1:30-1:40 p.m.	Walk Back to Meinel Building	
1:40-3 p.m.	Faculty and Student Presentations	Meinel 307
1:40-1:50 p.m.	José Sasián, Professor of Optical Sciences and Astronomy: “Polarization Aberration Fields in Imaging Systems”	
1:50-2 p.m.	Oscar Martinez, M.S. Student (Advised by José Sasián): “Color Correction in Optical Systems”	
2-2:10 p.m.	Matthew A. Kupinski, Professor: “An Introduction to Image Science”	
2:10-2:20 p.m.	Robert A. Norwood, Professor: “Hybrid Organic Photonics: From Silicon to Silica”	
2:20-2:30 p.m.	Roland Himmelhuber, Ph.D. Student (Advised by Nasser Peyghambarian and Robert A. Norwood): “Hybrid Silicon/Polymer Switches and Modulators”	
2:30-2:40 p.m.	Eustace L. Dereniak, Professor of Optical Sciences and Electrical and Computer Engineering: “After the Buzzer, Developing Imaging Spectrometers in the Sports Arena”	
2:40-2:50 p.m.	Nicholas Trail, Ph.D. Student (Advised by Eustace L. Dereniak): “In Situ Fringe Projector Development”	
2:50-3 p.m.	Justin Paul, Ph.D. Student (Advised by R. Jason Jones): "Spectroscopy of the 1S0-3P0 Clock Transition in Laser-Cooled Mercury; Who Needs a Clock This Accurate Anyway?"	
3-3:15 p.m.	Light Break	Third Floor Lobby
3:15-4 p.m.	“Job-Seeking 101” Session	Meinel 307
4-5 p.m.	Future Trends in Optics Education and Feedback/Open Discussion Forum	Meinel 307
	Jim H. Burge, Professor of Optical Sciences and Astronomy, and Ping Zhou, Metrologist: “Practical Optics Workshops”	
5-7:30 p.m.	Affiliate/Faculty/Student Mixer and Dinner	Third Floor Lobby

Thursday, Feb. 21

8-8:30 a.m.	Continental Breakfast	Third Floor Lobby
8:30-9 a.m.	Student Five-Minute Research Overviews	Meinel 307
8:30-8:35 a.m.	Abhinav Jha, Ph.D. Student (Advised by Matthew A. Kupinski): “Silicon Photomultipliers: Novel Photon-Counting Devices”	
8:35-8:40 a.m.	Laura Coyle, Ph.D. Student (Advised by Jim H. Burge): “Higher Order Calibration of CGH-Based Fizeau Interferometers”	
8:40-8:45 a.m.	Austin Wilson, B.S. in OSE Student: “Tear Film Interferometer”	
8:45-8:50 a.m.	Logan Graves, B.S. in OSE Student: "Autofluorescent Microscopy with UVC Excitation for Cell Structure Analysis"	
8:50-8:55 a.m.	Chen Li, M.S. Student (Advised by Robert A. Norwood): “Observation of Photonic Band Gaps in Diatoms”	

9-10 a.m.	Faculty and Student Presentations	Meinel 307
9-9:10 a.m.	Brittany Lynn, Ph.D. Student (Advised by Nasser Peyghambarian): “Fast Optical Switch for Data Communication Applications”	
9:10-9:20 a.m.	Amit Ashok, Professor of Optical Sciences and Electrical and Computer Engineering: “Computational Imaging and Sensing”	
9:20-9:30 a.m.	Ronan Kerviche, M.S. Student (Advised by Amit Ashok): “Extending Depth of Field via Computational Imaging”	
9:30-9:40 a.m.	Jim H. Burge, Professor of Optical Sciences and Astronomy: “Research Activities in the Large Optics Fabrication and Testing Group”	
9:40-9:50 a.m.	Jim H. Burge, Professor of Optical Sciences and Astronomy, and Todd Horne, Optomechanical Engineer: “Overview of the Optomechanics Laboratory”	
9:50-10 a.m.	Sara Lampen, Ph.D. Student (Advised by Jim H. Burge): “Application of the Sine Condition Test for Alignment of a Three-Mirror Anastigmat”	

10-10:45 a.m.	Guided Laboratory Tours Optomechanics Lab 3-D Holographic Display and Telepresence Lab CIAN Component Testbed and Nanophotonics Lab	Meet in Third Floor Lobby
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10:45-11 a.m.	Break	Third Floor Lobby
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11 a.m.-noon	Workshop Evaluation and Feedback Session	Meinel 307
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Noon-1 p.m.	Pizza Party Lunch and Farewell	Third Floor Lobby
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1 p.m.	Individual Company Interviews and End of Formal Workshop	
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