INDUSTRIAL AFFILIATES SHOWCASE

MONDAY, OCTOBER 26, 2020

<table>
<thead>
<tr>
<th>PROGRAM TIME</th>
<th>EVENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM - 11:00 AM PDT</td>
<td>IA PARTNER LOGIN, DIGITAL SETUP &amp; TECHNICAL ASSISTANCE</td>
</tr>
<tr>
<td>9:00 AM - 12:00 PM MDT</td>
<td>Welcome &amp; Event Logistics</td>
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<tr>
<td>10:00 AM - 1:00 PM CDT</td>
<td>Thomas Koch, Dean of the Wyant College of Optical Sciences</td>
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<tr>
<td>11:00 AM - 2:00 PM EDT</td>
<td>Jen Garcia, Senior Events Coordinator</td>
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<tr>
<td>11:00 AM - 11:20 AM PDT</td>
<td>IA Partner Elevator Speeches</td>
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<tr>
<td>12:00 PM - 12:20 PM MDT</td>
<td>Speaker Lineup TBD, 90-second speeches</td>
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<tr>
<td>1:00 PM - 1:20 PM CDT</td>
<td>Virtual Corporate Showcase</td>
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<tr>
<td>2:00 PM - 2:20 PM EDT</td>
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<tr>
<td>11:20 AM - 12:40 PM PDT</td>
<td>Student and IA Partner Networking Event</td>
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<tr>
<td>12:20 PM - 1:40 PM MDT</td>
<td>Student club-led opportunity to casually converse with Wyant College students, faculty, staff</td>
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<tr>
<td>1:20 PM - 2:40 PM CDT</td>
<td></td>
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<tr>
<td>2:20 PM - 3:40 PM EDT</td>
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<tr>
<td>12:45 PM - 3:45 PM PDT</td>
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<tr>
<td>1:45 PM - 4:45 PM MDT</td>
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<tr>
<td>2:45 PM - 5:45 PM CDT</td>
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<tr>
<td>3:45 PM - 6:45 PM EDT</td>
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INDUSTRIAL AFFILIATES WORKSHOP

TUESDAY, OCTOBER 27, 2020

PROGRAM TIME

8:00AM-8:20AM PDT | 9:00AM-9:20 AM MDT
10:00AM-10:20AM CDT | 11:00AM-11:20AM EDT

8:20AM-9:00AM PDT | 9:20AM-10:00 AM MDT
10:20AM-11:00AM CDT | 11:20AM-12:00PM EDT

9:00AM-9:20AM PDT | 10:00AM-10:20AM MDT
11:00AM-11:20AM CDT | 12:00PM-12:20PM EDT

9:20AM-9:35AM PDT | 10:20AM-10:35AM MDT
11:20AM-11:35AM CDT | 12:20PM-12:35PM EDT

9:35AM-9:50AM PDT | 10:35AM-10:50AM MDT
11:35AM-11:50AM CDT | 12:35PM-12:50PM EDT

9:50AM-10:10AM PDT | 10:50AM-11:10AM MDT
11:50AM-12:10PM CDT | 12:50PM-1:10PM EDT

10:10AM-10:30AM PDT | 11:10AM-11:30AM MDT
12:10PM-12:30PM CDT | 1:10PM-1:30PM EDT

10:30AM-10:45AM PDT | 11:30AM-11:45AM MDT
12:30PM-12:45PM CDT | 1:30PM-1:45PM EDT

10:45AM-11:00AM PDT | 11:45AM-12:00PM MDT
12:45PM-1:00PM CDT | 1:45PM-2:00PM EDT

11:00AM-11:30AM PDT | 12:00PM-12:30PM MDT
1:00PM-1:30PM CDT | 2:00PM-2:30PM EDT

11:30AM-1:30PM PDT | 12:30PM-2:30PM MDT
1:30PM-3:30PM CDT | 2:30PM-4:30PM EDT

1:30PM PDT | 2:30PM MDT
3:30PM CDT | 4:30PM EDT

EVENT

Workshop Welcome & Event Logistics
Thomas Koch, Dean of the Wyant College of Optical Sciences | Welcome
Jen Garcia, Senior Events Coordinator | Event Logistics

Keynote Speaker: Dr. Nicholas J. Morley, St. Senior Scientist
High Power Photonics & Air Force Research Lab / RD
"Directed Energy: State-of-the-art and Future Challenges"

Faculty Research Presentation (Optical Engineering)
Brandon Chalifoux, Assistant Professor of Optical Sciences
"Ultralight Mirror Technology for Future Space Telescopes"

Student Research Presentation
Hyukmo Kang, Ph.D. Student
"LBT Cross-Dispersion Module Design and Development"

Student Research Presentation
Sean Ashley, Ph.D. Student
"Snapshot Imaging Spectrometer"

Break

Faculty Research Presentation (Optical Physics)
Dal Wilson, Assistant Professor of Optical Sciences
"Optomechanical Sensors at the Quantum Limit"

Student Research Presentation
Matthew Spotnitz, Ph.D. Student
"Theory of THz Spectroscopy of GaAs Microcavity Photon Laser"

Student Research Presentation
Jiahui Gu, Ph.D. Student
"Numerical Modeling of Random Quasi-Phase-Matched Frequency Conversion in Disordered Media"

Break

Student Poster Sessions & Lab Visits
See breakdown and links to attend on website

Student and IA Partner Networking Event
Student club-led opportunity to casually converse with Wyant College students, faculty, staff
### EVENT

**Faculty Research Presentation (Photonics)**  
Saikat Guha, Director, NSF Center for Quantum Networks, Associate Professor of Optical Sciences  
"The Quantum Internet"

**Student Research Presentation**  
Yi Xia, Ph.D. Student  
"Entangled Sensor Networks"

**Student Research Presentation**  
Jeffrey Melzer, Ph.D. Student  
"Automated 3D Assembly of Hundreds of Microscale and Nanoscale Building Blocks Using Optical Tweezers"

**Break**

**Faculty Research Presentation (Image Science)**  
Amit Ashok, Associate Professor of Optical Sciences  
"Novel X-Ray Security Screening System Design Exploration with Virtual T and E"

**Student Research Presentation**  
Shu Yang, Ph.D. Student  
"X-Ray System Virtual Test and Evaluation Framework"

**Student Research Presentation**  
Jingwei Zhao, M.S. Student  
"Deep Learning-Based Denoising of High-Speed Portable Confocal Microscopy Images"

**Break**

**Student Poster Sessions & Lab Visits**  
See breakdown and links to attend on website

**Academic Programs - Updates**  
Learning & Lab Modalities during COVID | Recruitment Efforts | Curriculum Changes, etc.

**IA Review / Assessment of OSC Research Presentations & Virtual Event Format**

**Closing Statement & Announcement of Spring IA Meeting Date**