

National Academy of Engineering Regional Meeting at The University of Arizona
Innovations in High Contrast, High Resolution Imaging Technologies
Wednesday, March 30, 2022
Registration Required by Monday, March 21st. [Click here to RSVP](#)

This meeting will explore the latest advances in high contrast, high resolution imaging technologies enabling unprecedented breakthroughs in scientific exploration, ranging from new coronagraphs and techniques for exoplanet discovery to deep tissue in-vivo brain imaging.

For NAE members and speakers, the morning will include a special lab tour. Following the NAE Business Meeting, there will be a lunch for NAE members and speakers, with the open Scientific Meeting starting at 1:00 pm.

NAE MEMBER BUSINESS MEETING

Wyant College of Optical Sciences, 1630 E. University Blvd., Tucson, AZ 85721

8:30 – 9:00 am	NAE Member Registration	Meinel Bldg - 3 rd Floor Lobby
9:00 – 10:00 am	Special Tour for NAE Members & Executive Team	Private Lab Tour
10:15 – 11:45 am	NAE Member Business Meeting	Meinel Bldg - Conf. Rm 821
11:45 am – 12:30 pm	NAE Member and Speaker's Lunch	Meinel Bldg - Breakout Rm 829

SCIENTIFIC MEETING – PUBLIC
INNOVATIONS IN HIGH CONTRAST, HIGH RESOLUTION IMAGING TECHNOLOGIES

Kuiper Building – Auditorium 308, 1629 E. University Blvd., Tucson, AZ 85721

1:00 – 1:10 pm	Welcome John L. Anderson, President, National Academy of Engineering
1:10 – 1:20 pm	Program Introduction Thomas L. Koch, Dean and Professor, Wyant College of Optical Sciences, University of Arizona

Session 1: Advances in Imaging for Life Sciences
Session 2: Astronomy & Exoplanets

1:20 – 2:00 pm Keynote <i>"High-speed Optical Imaging of Biology at the Speed of Light"</i> Elizabeth M.C. Hillman Herbert and Florence Irving Professor, Zuckerman Mind Brain Behavior Institute, Departments of Biomedical engineering and Radiology, Columbia University	3:20 – 4:00 pm Keynote <i>"A Challenge for 21st Century Telescopes: Finding and Characterizing Earth 2.0"</i> Charles A. Beichman Executive Director, NASA ExoPlanet Science Institute, California Institute of Technology
2:00 – 2:20 pm <i>"Multiscale Optical and Acoustic Imaging Technologies to Characterize Disease States from the Single Cell to the Organ."</i> Barbara Smith , Associate Professor, Biomedical Engineering, School of Biological and Health Systems Engineering, Arizona State University	4:00 – 4:20 pm <i>"Adaptive Optics & the Exoplanet Imaging Challenge"</i> Olivier Guyon , Astronomer, Steward Observatory; Professor, Wyant College of Optical Sciences, University of Arizona
2:20 – 2:40 pm <i>"Advanced Endoscopic Imaging for Early Cancer Detection"</i> Jennifer Barton , Thomas R. Brown Distinguished Professor, Biomedical Engineering; Professor, Wyant College of Optical Sciences; Director, BIO5 Institute, University of Arizona	4:20 – 4:40 pm <i>"Technology Demonstrations for Exoplanet Imaging with Space Coronagraphy"</i> Ewan S. Douglas , Assistant Professor, Astronomy; Assistant Astronomer, Steward Observatory, University of Arizona
2:40 – 3:00 pm <i>"Development of compact ultrafast fiber lasers for nonlinear optical imaging"</i> Khanh Kieu , Associate Professor, Wyant College of Optical Sciences, University of Arizona	4:40 – 5:00 pm <i>"Search for Life with Ground-based Telescopes"</i> Jared R. Males , Assistant Astronomer, Steward Observatory, University of Arizona
3:00 – 3:20 pm Break – Refreshments	5:00 – 6:00 pm Reception, Kuiper Building, 3rd Floor Atrium

For those unable to travel, we have established a non-interactive meeting webinar link: <https://arizona.zoom.us/j/83867757852>