

## PASI on Frontiers in Imaging Science: Detailed program

| <b>Tuesday, June 7th</b> |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| 9:00 - 9:30              | Registration                                                                    |
| 9:30 - 10:00             | Opening                                                                         |
| 10:00 -11:00             | "Beyond Fourier Optics". <i>William Rhodes</i>                                  |
| 11:00 -11:30             | Coffee Break                                                                    |
| 11:30 -12:30             | "Beyond Fourier Optics". <i>William Rhodes</i>                                  |
| 12:30 - 2:00             | Lunch                                                                           |
| 2:00 - 3:00              | "The Fourier transform and fractional Fourier transform" <i>Yezid Torres</i>    |
| 3:00 - 4:00              | "Partial coherence and partial polarization in imaging". <i>Román Castañeda</i> |
| 4:00 - 4:30              | Coffee Break                                                                    |
| 4:30 - 5:30              | "Image Quality: Phase-Space Representations". <i>Jorge Ojeda- Castañeda</i>     |
| 6:00 - 7:30              | Cultural activity                                                               |

| <b>Wednesday, June 8<sup>th</sup></b> |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| 9:00 - 10:00                          | "Beyond Fourier Optics". <i>William Rhodes</i>                                  |
| 10:00 -11:00                          | "The Fourier transform and fractional Fourier transform" <i>Yezid Torres</i>    |
| 11:00 -11:30                          | Coffee Break                                                                    |
| 11:30 -12:30                          | "Computational imaging, computational photography" <i>Joseph Mait</i>           |
| 12:30 - 2:00                          | Lunch                                                                           |
| 2:00 - 3:00                           | "Surface plasmons and surface wave microscopy". <i>Hrvoje Petek</i>             |
| 3:00 - 4:00                           | "Partial coherence and partial polarization in imaging". <i>Román Castañeda</i> |
| 4:00 - 4:30                           | Coffee Break                                                                    |
| 4:30 - 5:30                           | "Image Quality: Phase-Space Representations". <i>Jorge Ojeda- Castañeda</i>     |

| <b>Thursday, June 9<sup>th</sup></b> |                                                                                    |
|--------------------------------------|------------------------------------------------------------------------------------|
| 9:00 - 10:00                         | "Image Quality: Phase-Space Representations". <i>Jorge Ojeda- Castañeda</i>        |
| 10:00- 11:00                         | "Surface plasmons and surface wave microscopy". <i>Hrvoje Petek</i>                |
| 11:00 -11:30                         | Coffee Break                                                                       |
| 11:30 -12:30                         | "Computational imaging, computational photography" <i>Joseph Mait</i>              |
| 12:30 - 2:00                         | Lunch                                                                              |
| 2:00 - 3:00                          | "Digital image processing, and digital holographic microscopy" <i>Yezid Torres</i> |
| 3:00 - 5:30                          | Poster Session                                                                     |

| <b>Friday, June 10<sup>th</sup></b> |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| 9:00 - 10:00                        | "Partial coherence and partial polarization in imaging". <i>Román Castañeda</i>    |
| 10:00 11:00                         | "Surface plasmons and surface wave microscopy". <i>Hrvoje Petek</i>                |
| 11:00 -11:30                        | Coffee Break                                                                       |
| 11:30 -12:30                        | "Image Quality: Phase-Space Representations". <i>Jorge Ojeda- Castañeda</i>        |
| 12:30 - 2:00                        | Lunch                                                                              |
| 2:00 - 3:00                         | "Computational imaging, computational photography" <i>Joseph Mait</i>              |
| 3:00 - 4:00                         | "Beyond Fourier Optics". <i>William Rhodes</i>                                     |
| 4:00 - 4:30                         | Coffee Break                                                                       |
| 4:30 - 5:30                         | "Digital image processing, and digital holographic microscopy" <i>Yezid Torres</i> |

| <b>Monday, June 13th</b> |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| 9:00 -10:00              | "Adaptive optics". <i>Curt Vogel</i>                                               |
| 10:00 -11:00             | "New developments in optical spatial filtering" <i>Silvia Ledesma</i>              |
| 11:00 -11:30             | Coffee Break                                                                       |
| 11:30 -12:30             | "Vortex lenses and their applications". <i>Grover Swartzlander</i>                 |
| 12:30 - 2:00             | Lunch                                                                              |
| 2:00 - 3:00              | "Diffractive optical elements and imaging". <i>Dennis Prather</i>                  |
| 3:00 - 4:00              | "Optical imaging and patterning beyond the diffraction limit". <i>Rajesh Menon</i> |
| 4:00 - 4:30              | Coffee Break                                                                       |
| 4:30 - 5:30              | "Lucky imaging, aperture masking, and Fourier telescoping". <i>William Rhodes</i>  |

| <b>Tuesday, June 14<sup>th</sup></b> |                                                                                    |
|--------------------------------------|------------------------------------------------------------------------------------|
| 9:00 -10:00                          | "Diffractive optical elements and imaging". <i>Dennis Prather</i>                  |
| 10:00 -11:00                         | "Adaptive optics". <i>Curt Vogel</i>                                               |
| 11:00 -11:30                         | Coffee Break                                                                       |
| 11:30 -12:30                         | "Vortex lenses and their applications". <i>Grover Swartzlander</i>                 |
| 12:30 - 2:00                         | Lunch                                                                              |
| 2:00 - 4:00                          | "Optical imaging and patterning beyond the diffraction limit". <i>Rajesh Menon</i> |
| 3:00 - 4:00                          | "New developments in optical spatial filtering" <i>Silvia Ledesma</i>              |
| 4:00 - 4:30                          | Coffee Break                                                                       |
| 4:30 - 5:30                          | "Lucky imaging, aperture masking, and Fourier telescoping". <i>William Rhodes</i>  |

| <b>Wednesday, June 15<sup>th</sup></b> |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| 9:00 -10:00                            | "Advances in optical microscopy". <i>Rafael Piestun</i>           |
| 10:00 -11:00                           | "Diffractive optical elements and imaging". <i>Dennis Prather</i> |
| 11:00 -11:30                           | Coffee Break                                                      |
| 11:30 -12:30                           | "Adaptive optics". <i>Curt Vogel</i>                              |
| 12:30 - 2:00                           | Lunch                                                             |
| 2 00 - 3:00                            | "Quantum imaging". <i>Angela Guzmán</i>                           |
| 3:00 - 5:30                            | Poster session                                                    |
| 6:00 - 7:30                            | Cultural activity                                                 |

| <b>Thursday, June 16th</b> |                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------|
| 9:00 -10:00                | "Lucky imaging, aperture masking, and Fourier telescoping". <i>William Rhodes</i> |
| 10:00 -11:00               | "Advances in optical microscopy". <i>Rafael Piestun</i>                           |
| 11:00 -11:30               | Coffee Break                                                                      |
| 11:30 -12:30               | "Adaptive optics". <i>Curt Vogel</i>                                              |
| 12:30 - 2:00               | Lunch                                                                             |
| 2:00 - 3:00                | "New developments in optical spatial filtering" <i>Silvia Ledesma</i>             |
| 3:00 – 4:00                | "Quantum imaging". <i>Angela Guzmán</i>                                           |
| 4:00 - 4:30                | Coffee Break                                                                      |
| 4:30 - 5:30                | "Vortex lenses and their applications". <i>Grover Swartzlander</i>                |

| <b>Friday, June 17<sup>th</sup></b> |                                                         |
|-------------------------------------|---------------------------------------------------------|
| 9:00 -10:00                         | "Quantum imaging". <i>Angela Guzmán</i>                 |
| 10:00 -11:00                        | "Advances in optical microscopy". <i>Rafael Piestun</i> |
| 11:00 -11:30                        | Coffee Break                                            |

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|--------------|------------------------------------------------------------------------------------|
| 11:30 -12:30 | "Optical imaging and patterning beyond the diffraction limit". <i>Rajesh Menon</i> |
| 12:30 - 2:00 | Lunch                                                                              |
| 2:00 - 4:00  | Evaluation and general discussion on future collaboration.                         |
| 4:00 - 4:30  | Coffee Break                                                                       |
| 4:30 - 5:30  | Closing Ceremony                                                                   |