

FoNLO 2018 Program

All sessions take place in the Davis Auditorium. Coffee breaks will also take place in the Davis Auditorium. Lunch will take place in Palamountain 201 (adjacent to Davis). Registration will take place in Gannet Lobby.

Tuesday, June 19th

08:00-08:30 am	Registration and Morning Coffee
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Session 1

08:35-08:45 am	Welcome to FoNLO
08:50-10:00 am	Marlan Scully, " <i>From Black Holes to Black Mold.</i> " (Tutorial)
10:05-10:35 am	Coffee Break
10:40-11:00 am	Aleks Rebane, " <i>Absorption of light by resonant media: From linear response to self-induced transparency.</i> "
11:05-11:25 am	Hans-Peter Wagner, " <i>Z-scan measurements on thin PTCDA and Alq3 films using tightly focused and high repetition-rate laser pulses.</i> "
11:30-12:05 pm	Panel Discussion

12:10-12:55 pm	Lunch
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Session 2

01:00-01:40 pm	Mark Kuzyk, " <i>A grand tour of sum rules, size and limits.</i> " (Tutorial)
01:45-02:05 pm	Sean Mossman, " <i>Sum rule constrained proxy state for use in truncated hyperpolarizability calculations.</i> "
02:10-02:30 pm	Ethan Crowell, " <i>Using excited states and degeneracies to enhance the electric polarizability and first hyperpolarizability.</i> "
02:35-02:55 pm	Rick Lytel, " <i>Designing molecular materials for nonlinear optical devices.</i> "
03:00-03:30 pm	Coffee Break
03:35-03:55 pm	Richard Robinett, " <i>Exact results for infinite supersymmetric hierarchies of familiar 1D potentials on the half-line: Applications to quantum mechanical sum rules.</i> "
04:00-04:20 pm	Tim Atherton, " <i>Shape optimization and hyperpolarizability.</i> "
04:25-05:00 pm	Panel Discussion

Wednesday, June 20th

08:00-08:30 am	Morning Coffee
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Session 3

08:35-09:10 am	Martti Kauranen, " <i>Resonances and local fields in nonlinear metasurfaces.</i> " (Tutorial)
09:15-09:35 am	Rachel Grange, " <i>Metal-oxide nanostructures to enhance nonlinear optical signal for compact photonic devices.</i> "
09:40-10:00 am	Kenneth Knappenberger, " <i>Examining metal nanostructures using multi-dimensional femtosecond absorption spectroscopy.</i> "
10:05-10:35 am	Coffee Break
10:40-11:00 am	Juan Navea, " <i>Symmetry-breaking effects on vibrational spectroscopy of surface nitrates.</i> "
11:05-11:25 am	Ruchira Silva, " <i>Investigating the fate of photoexcited perovskites.</i> "
11:30-12:05 pm	Panel Discussion

12:10-12:55 pm	Lunch
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Session 4

01:00-01:40 pm	Stephen Rand, " <i>Magneto-electric phenomena at the molecular level.</i> " (Tutorial)
01:45-02:05 pm	Tuan Trinh, " <i>Generation of rotations in small molecules with magneto-electric nonlinearities.</i> "
02:10-02:30 pm	Hengky Chandrahilim, " <i>Micro-ring resonators for magneto-electric experimentation.</i> "
02:35-02:55 pm	Alexander Lou, " <i>Third order and Magneto-Electric response of Twisted Chromophores.</i> "
03:00-03:30 pm	Coffee Break
03:35-03:55 pm	Stefano Corni, " <i>Optical properties of molecules close to metal nanoparticles: simulations in the time domain.</i> "
04:00-04:20 pm	Ken Singer, " <i>Linear and nonlinear optics in organic cavity polaritons.</i> "
04:25-05:00 pm	Panel Discussion

06:30-8:00 pm	Conference Barbecue (at the Spa, on the first Floor of the Case Center) Jill Linz, " <i>Springing into the Universe.</i> "
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Thursday, June 21th

08:00-08:30 am	Morning Coffee
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Session 5

08:35-08:55 am	Elisabetta Collini, “ <i>Non Linear Optics: a new handle to quantum technologies.</i> ”
09:00-09:20 am	Anna Painelli, “ <i>From molecules to materials: spectral properties of dyes and aggregates.</i> ”
09:25-09:55 am	Ivan Biaggio, “ <i>From molecules to materials: in-situ poling during small-molecule self-assembly?</i> ”
10:05-10:35 am	Coffee Break
10:40-11:00 am	Koen Clays, “ <i>Functionalized carbon nanotubes as implementations of hybrid nanowires.</i> ”
11:05-11:25 am	Luis Gonzalez-Urbina, “ <i>Nonlinear Optical Properties of Colloidal Photonic Crystals.</i> ”
11:30-12:00 pm	Panel Discussion
12:05-12:15 pm	Closing Remarks