DRAFT AGENDA

Sunday 25 June 2017

Afternoon   Arrival/Hotel Check-in
Fairfax Hotel, 2100 Massachusetts Ave NW, Washington, DC

18:00    Welcome Dinner
Ezme, 2016 P St NW, Washington, DC

Monday 26 June 2017

8:00    Breakfast
The Optical Society, 2010 Massachusetts Ave, NW, Washington, DC

8:30    Welcome
Elizabeth Nolan, Deputy Executive Director/Chief Publishing Officer, OSA

8:45    Brief Incubator Overview & Goals
Hosts

SESSION 1: Talks on current research topics: Photochemical, Photothermal & Plasmonics

9:00    Metamaterial Enhanced Photothermal Forces for Phonon Lasing
Ertugrul Cubukcu, University of California, San Diego, United States

9:30    Responsive Polymer Nanocomposites with Optically Reconfigurable 3D Shapes
Ryan Hayward, University of Massachusetts Amherst, United States

10:00   Macroscopic Photonastic (Photomechanical) Effects in Hybrid Materials
Jeff Rack, University of New Mexico, United States
Monday 26 June 2017, continued

10:30   Coffee Break

11:00   Quantification and Modelling of Dynamic Effects in Molecular Crystals
        Pance Naumov, New York University, Abu Dhabi, United Arab Emirates

11:30   Design and Development of Negative Photochromic Systems
        Javier Read de Alaniz, University of California, Santa Barbara, United States

12:00   Brillouin Optomechanics in Microresonators
        Gaurav Bahl, University of Illinois at Urbana-Champaign, United States

12:30   Lunch, provided

13:30   Optomechanical Metasurfaces
        Eric Plum, University of Southampton, United Kingdom

14:00   Actuating with Light: A Continuum Perspective
        Kaushik Bhattacharya, California Institute of Technology, United States

14:30   Session Wrap-up & Moderated Discussion

15:00   Coffee Break


16:00   Multi-physics and Multi-scale modeling to Enable Photomechanical Machines
        Kaushik Dayal, Carnegie Mellon University, United States

16:30   Leveraging Multi-scale Modeling Capabilities to Drive Innovation in Photoresponsive Materials
        Michael Makowski, PPG Industries, United States

17:00   Charge Separation in Semiconductor Nanostructures for Opto-mechanics
        Jacob Khurgin, Johns Hopkins University, United States

17:30   Day 1 Wrap-up & Moderated Discussion

18:10   Networking Dinner
        Grillfish, 1200 New Hampshire Ave NW, Washington, DC
Tuesday 27 June 2018

8:00  Breakfast
      The Optical Society, 2010 Massachusetts Ave, NW

SESSION 3: Measurements & Laboratory Experiments

8:30  Photomechanical Effects in Materials, Composites, and Systems: Opportunities and Challenges
      Timothy White, US Air Force Research Laboratory, United States

9:00  NRL Perspectives on Optomechanical Materials and Applications
      Jason Myers, US Naval Research Laboratory, United States

9:30  Open Discussion: Photomechanical Material Classes
      • Is it possible to understand and measure the contribution of phonon energy in terms of figures of merit, as well as the understanding the physics behind that contribution?
      • Will this understanding lead to new materials and metamaterials?

10:30  Coffee Break

SESSION 4: Material Architectures, Applications & Potential Uses

11:00  Harnessing the Photomechanical Response of Dye-doped Polymers & Elastomers
      Mark Kuzyk, Washington State University, United States

11:30  Talk Title TBD
      Peter Morrison, US Office of Naval Research, United States

12:00  Lunch, provided

13:00  Open Discussion & Exchanges

14:00  Closing Remarks

14:20  Adjournment