AGENDA

Sunday, 28 April 2019

Afternoon  Arrival/Hotel Check-in
Fairfax at Embassy Row, 2100 Massachusetts Ave NW

18:00   Welcome Dinner
Leziz, 2016 P St NW

Monday, 29 April 2019

8:00    Breakfast
OSA Headquarters, 2010 Massachusetts Ave, NW

9:00    Welcome
Elizabeth Rogan, CEO, OSA

9:15    Program Overview and Goals
Alexandra Olaya-Castro, University College London, United Kingdom
Luca Sapienza, University of Southampton, United Kingdom
Greg Engel, University of Chicago, United States

9:30    Opportunities and Questions for Quantum Biophotonics:
A Spectroscopist’s Perspective
Graham Fleming, University of Berkeley, United States

10:00   Structure-Function-Motion-Quantum
Alex Chin, Institut des NanoSciences de Paris, France

10:30   Coffee Break
Monday, 29 April 2019, continued

Session 1

11:00 Quantum Coherence in Photosynthetic Reaction Centers
   
   *Elisabet Romero, ICIQ, Spain*

11:15 Recent Developments on Transfer Phenomena in Biological Systems: An Open Quantum System Approach
   
   *Susana Huelga, Ulm University, Germany*

11:30 Photosynthetic Charge Transfer & Coherence
   
   *Rienk van Grondelle, VU University, The Netherlands*

11:45 Controlling Exciton Dynamics with DNA-chromophore Assemblies
   
   *Gabriela Schlau-Cohen, MIT, United States*

12:00 Strong Vibrational Coupling in Open System Dynamics & Thermodynamics
   
   *Ahsan Nazir, University of Manchester, United Kingdom*

12:15 Moderated Discussion
   
   *Discussion Moderator: Alexandra Olaya-Castro*

13:00 Lunch, provided

Session 2

14:30 Coherent Interaction with Single Molecules
   
   *Niek van Hulst, ICFO, Spain*

14:45 Understanding the Quantum Efficiency of Light Harvesting Photosynthetic Systems One Photon at a Time
   
   *Brigitta Whaley, University of California – Berkeley, United States*

15:00 Electron Transfer in Single-Molecule Transistors
   
   *Jan Mol, Queen Mary University, United Kingdom*

15:30 Coffee Break

15:45 Exploiting Photonic Entanglement in Quantum Spectroscopy
   
   *Frank Schlawin, University of Oxford, United Kingdom*

16:00 Two Photon Effects in Molecules with Quantum Light
   
   *Ted Goodson, University of Michigan, United States*
Monday, 29 April 2019, continued

16:15 Moderated Discussion  
*Discussion Moderator: Luca Sapienza*

17:30 Dinner  
La Tomate, 1701 Connecticut Ave NW

Tuesday, 30 April 2019

8:00 Breakfast  
OSA Headquarters, 2010 Massachusetts Ave, NW

**Session 3**

9:00 Supramolecular Building Blocks: How Delocalised Excitons Confine Light at Nanoscale  
*Sara Nuñez-Sanchez, University of Vigo, Spain*

9:15 How Much Information Can We Extract from a Single Fluorophore?  
*Alex Liddle, National Institute of Standards and Technology, United States*

9:30 Interaction Between Quantum Light & Matter: An Experimental Approach  
*Mayerlin Nuñez, Universidad de Los Andes, Colombia*

9:45 Energy Transfer Enhanced by Coherent Delocalization: Antennas, Reaction Centres and Organic Solar Cells  
*Ivan Kassal, University of Sydney, Australia*

10:00 Moderated Discussion  
*Discussion Moderator: Greg Engel*

10:45 Coffee Break

**Session 4**

11:15 Nanophotonic Tools for Quantum (and Bio) Photonics  
*Marcelo Davanco, National Institute of Standards and Technology, United States*

11:30 Sensing of Single Molecules with Optoplasmonic Resonators  
*Frank Vollmer, University of Exeter, United Kingdom*
Tuesday, 30 April 2019, continued

11:45   Scanning Probe Microscopy Techniques for the Characterization of Energy-relevant and Biological Materials
        Santiago Solares, The George Washington University, United States

12:00   Moderated Discussion
        Discussion Moderator: Luca Sapienza

12:45   Lunch, provided

13:45   Final Discussions: Key questions to move our understanding forward:
        What experiments do we need?
        What theory do we need?
        What technologies can be derived from this research?

15:15   Adjourn