



**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

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- 16:15 Moderated Discussion  
*Discussion Moderator: Luca Sapienza*
- 17:30 Dinner  
La Tomate, 1701 Connecticut Ave NW

## Tuesday, 30 April 2019

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- 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**

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- 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