

Quantum Plasmonics Incubator Meeting

21-23 August 2013

OSA Headquarters • 2010 Massachusetts Ave. NW • Washington, DC, USA

HOSTED BY:

Garnett W. Bryant, *National Institute of Standards and Technology,
Quantum Measurement Division and Joint Quantum Institute, USA*
Joachim Krenn, *Institute of Physics, Karl-Franzens-University, Austria*
Edo Waks, *Department of Electrical and Computer Engineering and the
Joint Quantum Institute, University of Maryland, USA*

AGENDA

21 August 2013

18:00 Welcome Dinner
[Ezmè](#), 2016 P Street, NW, Washington, DC

22 August 2013

8:00 Breakfast [provided]
P Street Conference Room, OSA Headquarters

8:30 Opening Remarks
Elizabeth A. Rogan, OSA CEO
**Garnett W. Bryant, National Institute of Standards and Technology, Quantum
Measurement Division and Joint Quantum Institute**

Session 1 Quantum plasmonics

8:45 Single NVs and Metallic Nanowires
Jorg Wrachtrup, Universität of Stuttgart, Germany

9:15 Quantum Plasmonic Information Science
Ben Lawrie, Oak Ridge National Laboratory, United States

9:45 Quantum Nonlinear Plasmonics
Darrick Chang, The Institute of Photonic Sciences, Spain

10:15 General Discussion

10:30 Coffee Break

11:00 Quantum Plasmonics of Nanoclusters
Jennifer Dionne, Stanford University, United States

11:30 Quantum Plasmonics of Dimers
Peter Nordlander, Rice University, United States

Agenda

12:00 General Discussion

12:15 Lunch [provided]

Session 2 Light Matter Coupling, Antennas

13:45 Coupled Plasmonic Metal Nanoparticles and quantum Dots: Prospects of Quantum Phenomena
Matt Pelton, University of Maryland, United States

14:15 Assembling Quantum Dots and Plasmonic Nanowires
Joachim Krenn, Karl-Franzens-University, Austria

14:45 General Discussion

15:00 Coffee Break

Session 3 Theoretical issues

15:30 Quantum Emitter/Plasmonic Hybrids
Stephen Hughes, Queens University, Canada

16:00 Quantum Mechanical Modeling
George Schatz, Northwestern University, United States

16:30 Quantized Plasmons: Waveguides, Nanostructures and Metamaterials
Mark Tame, Imperial College, England

17:00 General Discussion

18:00 Dinner
[Al Tiramisu](#), 2014 P St NW, Washington, DC

23 August 2013

8:15 Breakfast [provided]
P Street Conference Room, OSA Headquarters

Session 4 Devices and Novel Measurements

8:45 Single Photon Routing with Nanowires
Ulrik Andersen, Technical University of Denmark, Denmark

9:15 Plasmons, gain and spasers
Mikhail Noginov, Norfolk State University, United States

9:45 Plasmon Lasers and Anomalous Scaling of Nano Cavity
Xiang Zhang, University of California, Berkeley, United States

Agenda

- 10:15 General Discussion
- 10:30 Coffee Break
- 11:00 Can we measure an electronic wavefunction?
Charles Bamber, National Research Council, Canada
- 11:30 Ultrafast
Christoph Lienau, University Oldenburg, Germany
- 12:00 General Discussion
- 12:15 Lunch [provided]
- Session 5 Prospects
- 13:30 Lattice Plasmon Nanolasers
Teri Odom, Northwestern University, United States
- 14:00 Single Plasmon Detectors, Integrating Structures
Val Zwiller, Delft University of Technology, Netherlands
- 14:30 Closing Discussion