



PURDUE QUANTUM CENTER

# INTERNATIONAL WORKSHOP

## PURDUE QUANTUM CENTER KICKOFF

### QUANTUM CONTROL OF LIGHT AND MATTER

**Purdue University, West Lafayette, IN, USA**  
**October 14-15, 2015**

#### **Workshop Co-Chairs: Vlad Shalaev and Chris Greene**

The International Workshop on Quantum Control of Light and Matter will serve as an inauguration of the Purdue Quantum Center. This kickoff workshop will bring together an illustrious group of scientists specializing in diverse areas of Quantum Physics. The primary goal of the workshop is to brainstorm future directions of the field which will have a profound impact on society in the years to come. Our invited speakers will cover areas of Quantum Information & Computing, Quantum Nanophotonics & Metamaterials, as well as Quantum Atomic and Molecular Optics and Atom-like Solid State Systems. We hope that you will join us for this one-of-a-kind symposium!

#### **Tentative List of Speakers and Session Chairs**

**Harry Atwater** (Caltech, USA)

**Dmitry Basov** (UC San Diego, USA)

**Raymond Beausoleil** (HP Labs, USA)

**Oliver Benson** (Humboldt Univ., Germany)

**Robert Boyd** (Univ. of Ottawa, Canada)

**Sergey Bozhevolnyi** (Univ. of Southern Denmark)

**Mark Brongersma** (Stanford Univ., USA)

**Demetrios Christodoulides** (Univ. of Central Florida, USA)

**Eugene Demler** (Harvard Univ., USA)

**John Doyle** (Harvard Univ., USA)

**Nader Engheta** (UPenn, USA)

**Henry Everitt** (Dept. of the Army RDMR-WDS, USA)

**Alexander Gaeta** (Cornell Univ., USA)

**Javier García de Abajo** (ICFO, Spain)

**Richard Hammond** (ARO, USA)

**Philip Hemmer** (Texas A&M Univ., USA)

**Fedor Jelezko** (Univ. Ulm, Germany)

**Jeff Kimble** (Caltech, USA)

**Michal Lipson** (Cornell Univ., USA)

**Seth Lloyd** (MIT, USA)

**Marko Lončar** (Harvard Univ., USA)

**Mikhail Lukin** (Harvard Univ., USA)

**Chris Monroe** (Univ. of Maryland, USA)

**Jeremy O'Brien** (Univ. of Bristol, UK)

**Ian Osborne** (Science, UK)

**Eugene Polzik** (Univ. of Copenhagen, Denmark)

**Gernot Pomrenke** (AFOSR, USA)

**Fabio Pulizzi** (Nature Nanotechnology, UK)

**Peter Reynolds** (ARO, USA)

**Marlan Scully** (Texas A&M Univ., USA)

**Mordechai Segev** (Technion, Israel)

**Michael Shlesinger** (ONR, USA)

**Augustine Urbas** (AFRL, USA)

**Liesbeth Venema** (Nature, UK)

**Vladan Vuletic** (MIT, USA)

**Jörg Wrachtrup** (Univ. Stuttgart, Germany)

**Susanne Yelin** (UConn/Harvard Univ., USA)

**Xiang Zhang** (UC Berkeley, USA)

**Nikolay Zheludev** (Univ. of Southampton, UK)



for questions email Simeon Bogdanov: sbogdan@purdue.edu