



# JSPS

# EPSRC

Engineering and Physical Sciences  
Research Council

## **JSPS-EPSRC Collaborative Symposium Materials Science Pioneered by Structured Lights**

**The Royal Society, London**

**Friday 6 January, 2017**

09:30 Registration

09:50 Opening Remarks  
Professor Nobuo Ueno, Director, JSPS London

### **<<Session 1 Moderator: Professor Takashige Omatsu>>**

10:00 Time- and Space-Domain Structures of Optical Fields on Metal Nanostructures  
Professor Hiromi Okamoto (Institute for Molecular Science, Japan)

10:30 Designer EM fields: A New Paradigm for the Characterisation of Biomaterials  
Professor Malcolm Kadodwala (University of Glasgow, UK)

11:00 Infrared Ultrafast Plasmonics Boosts Nonlinear Light-matter Interactions  
Professor Satoshi Ashihara (University of Tokyo, Japan)

11:30 Novel Concepts in Nanostructured Photonic Biosensors  
Professor Thomas Krauss (University of York, UK)

### **<<Session 2 Moderator: Professor Malcolm Kadodwala >>**

12:00 Lunch

13:00 Angular Momentum Transfer from Photons to Plasmons  
Dr Kyosuke Sakai (Hokkaido University, Japan)

13:30 Biomimetic Computational Imaging  
Dr David Phillips (University of Glasgow, UK)

14:00 Coffee break

### **<<Session 3 Moderator: Dr Yoshihiko Arita, University of St Andrews>>**

14:30 Nanostructuring of Light Fields and Chemical Reactivity Profiles via Plasmonic Nanoantennas  
Professor Stefan Maier (Imperial College London, UK)

15:00 'Twisting lights' Establish Chiral Structured Materials  
Professor Takashige Omatsu (Chiba University, Japan)

15:30 Trapping in a Material World  
Professor Kishan Dholakia (University of St. Andrews, UK)

16:00 Closing Remarks  
Mr John Hand, Theme Lead for Physical Sciences, EPSRC  
Professor Takashige Omatsu (Chiba University, Japan)

Group Photo

17:00 Opening of Evening Reception  
Japan Embassy in the UK, Piccadilly London