

**Workshop organized in
Japan-Czech bilateral joint research project (JSPS)
Silicon Nanocrystals -Fundamental Physics, Plasmonic Nano-composites,
Biomedical Applications**

November 4, 2015

Takikawa Memorial Hall, Kobe University

Organization:

1. Japan-Czech bilateral joint research project (JSPS)
2. Smart materials team in organization of advanced science and technology, Kobe University.

Program

10:00 Welcome address (Minoru Fujii)

10:05 Minoru Fujii, *Kobe University, "All-Inorganic colloidal silicon nanocrystals"*

10:25 Hiroshi Sugimoto, *Kobe University, "Boron-Silicon-Phosphorus-based nanocrystals"*

10:45 Jan Valenta, *Department of Chemical Physics and Optics, Charles University in Prague, "Luminescence quantum yield and absorption cross section of B,P codoped SiNCs compared to other SiNCs"*

11:15 Takashi Kanno, *Kobe University, "Surface functionalization of silicon nanocrystals"*

11:35 – 13:10 Lunch break

13:10 Anna Fucikova, *Department of Chemical Physics and Optics, Charles University in Prague, "Characterization of silicon nanoparticles"*

13:40 Hiroshi Sugimoto, *Kobe University, "Metal/silicon-nanocrystal-coupled system I –radiative rate engineering"*

14:10 Asuka Inoue, *Kobe University, "Metal/silicon-nanocrystal-coupled system II –excitation efficiency enhancement"*

14:30 – 14:50 Break

14:50 Lucie Ostrovská, *Faculty of Medicine, Charles University in Prague, "Silicon nanoparticles in cell biology: From the primary challenges to the present findings"*

15:20 Shinya Kano, *Kobe University, "Single-electron tunneling via nanocrystals"*

15:45 Hui Lin, *Kobe University, "Reversible emission variation behavior of gold, silver clusters stabilized in zeolites and BSA"*

16:10 Kenji Imakita, *Kobe University, "Nano-imprinting of phase-separated porous silica for photonics applications"*

16:35 Kanna Aoki, *Kobe University, "Magnetic assembly of plasmonic nanostructures"*

17:00 Closing remark (Minoru Fujii)