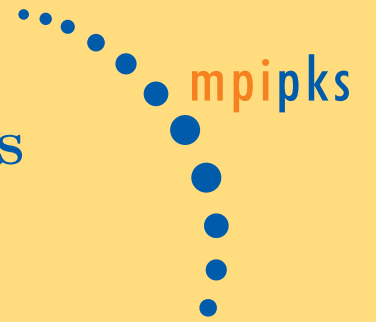




International Workshop on

# Ordered and Non-Ordered Superstructures of Nanosized Objects: Preparation, Properties, Applications, and Modeling



09 - 13 July 2012

*Scientific coordination*

**Alexander Eychmüller**  
Technische Universität Dresden  
Dresden, Germany

**Alexander Govorov**  
Ohio University  
Athens, USA

**Dmitri Talapin**  
The University of Chicago  
Chicago, USA

*Organisation*

**Claudia Pönisch**

This workshop aims to stimulate interaction and information exchange among experts working on nanocrystals with emphasis on optical properties of coupled quantum dots and nanoparticles. With this we pick up a hot topic within the current research on nanocrystals and quantum dots. The problem of coupled nanoparticles will be tackled both experimentally and theoretically. The focus will be on the coupling effects between semiconductor-semiconductor, semiconductor-metal, and metal-metal nanocrystals. The interactions represent many-body effects and can occur via tunneling, Coulomb interaction, photon and energy transfer, quantum entanglement, etc. From the side of applications, the interactions between nanocrystal building blocks are the key elements of knowledge necessary to build modern nano-devices. It is envisaged that exchange of ideas is fostered and new collaborations between experimentalists and theoreticians are promoted.

## *List of invited speakers*

A. Bittner (San Sebastián)  
S. L. Brook (Detroit)  
G. Bryant (Gaithersburg)  
H. V. Demir (Ankara)  
A. Efros (Washington)  
V. Fomin (Dresden)  
D. R. Gamelin (Seattle)  
O. Gang (Upton)  
M. Gao (Beijing)  
S. Gaponenko (Minsk)  
Y. Gun'ko (Dublin)  
N. J. Halas (Houston)  
P. Hawrylak (Ottawa)  
A. Holleitner (Garching)  
C. R. Kagan (Philadelphia)

M. G. Kanatzidis (Evanston)  
V. Klimov (Los Alamos)  
N. Kotov (Ann Arbor)  
T. Liedl (München)  
E. Lifshitz (Haifa)  
S. Mackowski (Torun)  
L. Manna (Genova)  
G. Markovich (Tel Aviv)  
H. Mattoussi (Tallahassee)  
A. Meijerink (Utrecht)  
O. Millo (Jerusalem)  
P. Mulvaney (Melbourne)  
C. B. Murray (Philadelphia)  
P. Nordlander (Houston)  
D. J. Norris (Zürich)

M. Ouyang (College Park)  
W. Parak (Marburg)  
M.-P. Pileni (Paris)  
Y. Rakovich (San Sebastián)  
A. Rogach (Hong Kong)  
D. R. Rolison (Washington)  
G. Seifert (Dresden)  
F. D. Stefani (Buenos Aires)  
Z. Tang (Beijing)  
S. Ulloa (Athens)  
D. Wang (Beijing)  
H. Weller (Hamburg)  
I. Willner (Jerusalem)  
U. Woggon (Berlin)

**Applications** for participation and poster contributions are welcome and should be made by using the application form on the event's web page (please see URL below). The number of attendees is limited. The **registration fee** for the event is **120 €** and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute for the Physics of Complex Systems. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

**Deadline for registration is 31 March 2012.**

### **For further information please contact:**

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