



**2nd Spring Course**  
**Semiconducting**  
**Nanoparticles:**  
***Processing and Applications***

**28th & 29th of May**  
**2009 Duisburg, Germany**

**Program**

Wednesday, 27th of May 2009

**Internal Meeting of Research Training Group Nanotronics  
(not open to public)**

| time  | speaker             | title  | chair    |
|-------|---------------------|--|----------|
| 08:30 | Christoph Rier      | <i>Detectors and Photovoltaic Cells from Nanoparticles</i>   | Jäger    |
| 09:15 | Katja Neshataeva    | <i>Optoelectronic Emitting Devices Based on Nanoparticles</i>  | Bacher   |
| 10:00 |                     | <i>coffee break / poster session</i>   |          |
| 10:30 | Andreas Gondorf     | <i>Electronic and Optical Properties of Semiconducting Nanomaterials</i>   | Lorke    |
| 11:15 | Ahmed Khalil        | <i>Colloidal Chemistry of Nanocrystalline Particles for Films</i>  | Winterer |
| 12:00 |                     | <i>lunch break</i>   |          |
| 13:00 | Moazzam Ali         | <i>Synthesis and Characterization of nanocrystalline Powders</i>   | Winterer |
| 13:45 | Anoop Gupta         | <i>Synthesis and Functionalization of Silicon Nanoparticles</i>  | Wiggers  |
| 14:30 |                     | <i>coffee break / poster session</i>   |          |
| 15:00 | Matias Zilly        | <i>Theory of Mesoscopic Conductivity of Nanoparticle Aggregates</i>  | Wolf     |
| 15:45 | Sanjeev Nayak       | <i>Electronic Structure and Properties of Nanoparticles</i>  | Entel    |
| 17:00 |                     | <i>coffee break / poster session</i>   |          |
| 17:30 |                     | <i>Resume, Strategic discussions and Conclusions</i>   | Winterer |
| 19:00 |                     | <i>snack</i>   |          |
| 20:00 | Culture in Duisburg | <i>12. PHILHARMONISCHES KONZERT "Der Ring ohne Worte". Orchestermusik aus "Der Ring des Nibelungen" von Richard Wagner<br/>Dirigent: Jonathan Darlington</i> |          |

Thursday, 28th of May 2009

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| time  | speaker                              | title  | chair    |
|-------|--------------------------------------|--|----------|
| 08:15 |                                      | <i>Welcome</i>   | Winterer |
| 08:30 | Philippe Guyot-Sionnest<br>U Chicago | <i>Colloidal quantum dots:<br/>Optical and electronic<br/>properties</i>   | Winterer |
| 10:00 |                                      | <i>coffee break / poster session</i>   |          |
| 10:30 | Arved Hübler<br>TU Chemnitz          | <i>Printing of Electronics</i>   | Wiggers  |
| 12:00 |                                      | <i>lunch break</i>   |          |
| 13:00 | Thomas Anthopoulos<br>ICL            | <i>Solution processible high-<br/>performance transistors for<br/>micro- and optoelectronic<br/>applications</i> | Kümmell  |
| 14:30 |                                      | <i>coffee break / poster session</i>   |          |
| 15:30 | Vladimir Bulovic<br>MIT              | <i>Quantum Dot Light Emitting<br/>Devices</i>  | Bacher   |
| 17:00 |                                      | <i>informal lab tour</i>   |          |
| 19:00 |                                      | <i>Informal dinner</i>   |          |

Friday, 29th of May 2009

**Spring Course**

| time  | speaker                                | title  | chair |
|-------|--|--|-------|
| 08:30 | Supriyo Datta<br>Purdue U              | <i>Mesoscopic Transport</i>  | Wolf  |
| 10:00 |  | <i>coffee break / poster session</i>   |       |
| 10:30 | Hideo Hosono<br>Tokyo I.<br>Technology | <i>p-type conducting oxide and<br/>oxychalcogenides: material<br/>designing and applications</i> | Lorke |
| 12:00 |  | <i>lunch break</i>   |       |
| 13:00 | Michael Grätzel<br>EPFL Lausanne       | <i>Dye Sensitized Photovoltaic<br/>Cells</i>   | Jäger |
| 14:30 |  | <i>coffee break / poster session</i>   |       |
| 15:30 | Arno Schindlmayr<br>U Paderborn        | <i>GW-DFT</i>  | Entel |
| 17:00 |  | <i>informal lab tour</i>   |       |
| 19:00 |  | <i>Conference Dinner</i>   |       |