

## **Transferkolleg 2008 - Industrial Photonics**

In the last couple of years, new and more effective laser beam technologies have appeared in development laboratories worldwide and have opened up new opportunities for all photonic manufacturing fields. Both research institutes and companies in Switzerland benefit from an excellent worldwide reputation and have recently led significant research efforts in many areas of Industrial Photonics. During the last years, new Photonics Swiss companies were successfully started, mostly in the domain of sensing and telecommunications, but also in the field of laser-based manufacturing.

Switzerland is excellently positioned to play a leading role in the future Industrial Photonics across the full range of

- Photonic manufacturing (sources, processes, production)
- Photonic sensing (sources and detectors)
- Photonic lighting (LEDs and OLEDs)
- Photonic energy (photovoltaics)
- Optical communication (data and telecom)

Industrial Photonics stretches among various markets and across the full vertical range of companies and we solicit the submission of high risk projects in this field. Interdisciplinary and early stage projects will be favoured.

### **Project team**

- Dr. Hans-Rudolf Zeller (President)
- Dr. Gabriel Dumitru (Swisslasernet)
- Prof. Oreste Ghisalba (Novartis Pharma AG)
- Dr. Christoph Harder (Swisslasernet)
- Dr. Karl Knop (ex CSEM)
- Prof. Hans Melchior (ETH Zürich)
- Prof. Klaus Ragaller (ex ABB)