

# Vad händer inom **optiken** i Stockholm?

**Torsdagen den 26 november 17.30 – 18.30**

**KTH-AlbaNova University Center, Roslagstullsbacken 21,  
Föreläsningssal FA32, Plan: 3 (2-trappor ned från entré på Plan: 5)**

***“Modular high power diode laser systems with high brightness for a wide range of applications”, Ralf Koch, DirectPhotonics Industries GmbH, Berlin***

DirectPhotonics develops, manufactures, and sells ultra-high brightness direct diode laser solutions for use in micro and macro-material processing and other applications. The systems are based on single emitter diodes, which facilitate highest brightness, excellent reliability and simple cooling. The design of DirectPhotonics' laser systems is highly modular. Within each building block module various laser beam-combining technologies are employed. We offer lasers with optical output power levels from a few hundred Watts up to the kW-range, all with a beam parameter product of 7.5 mm \* mrad (free-space collimated or delivered via, e.g. a 100- $\mu$ m fiber with 0.15 NA). The building blocks are produced with various wavelengths, typically between 900 nm and 1060 nm. Another wavelength range 1450 - 1570 nm is of special importance for laser pumping, in particular with optional wavelength stabilization.

***“Laser fibers for fiber lasers and beam delivery optics”,  
Lars Norin, Acreo Swedish ICT, Fiber optics, Hudiksvall***

Acreo Fiberlab, part of Acreo's Fiber optics group, is working with specialty optical fibers in the whole field from research, development, production to sales. One of our key competences is rare-earth doped silica fibers, used as the active gain medium in fiber lasers. For example, we produce glass and fibers for Yb-doped high-power 1 $\mu$ m fiber lasers, Er-doped fibers for 1.5 $\mu$ m lasers/amplifiers, and Tm-doped fibers for fiber lasers in the 2 $\mu$ m range. Acreo Fiberlab also produces and sells passive large-core fibers for high-power delivery. These fibers typically have core diameters in the mm-range and can be used for delivery of laser light up to 20 kW (CW) in industrial applications. Deep understanding in glass chemistry and light-matter interaction paves the way for efficient lasers and minimal optical degradation in both active and passive fibers.

***följt av Optopub 19:00-20:30, ADOPT, Linné center i Modern Optik och Fotonik,  
bjuder alla som föranmält sig på mat och dryck.***

**Viktigt: Föranmälan för mat till <https://doodle.com/poll/i5qpue9av4babs69>**

**Senast Tisdag 24:e november före kl.14:00 !!!**

**Välkomna!**

*Lennart BM Svensson  
Gunnar Björk*

*Jens A Tellefsen, Jr  
Fredrik Laurell*

*Optopubarna samarrangeras av*