

Vad händer inom **optiken** i Stockholm?

Torsdagen den 30 januari 17.30 – 18.30

**PhotonicSweden / ACREO-Kista, Isafjordsgatan 22, Electrum,
Hiss B, Plan 6, Acreo konferensrum Knuth, Obs! Nya lokaler!!!**

**“Long wavelength lasers and Si photonics – new opportunities for an old
workhorse” Ph.D. Carl Junesand, KTH & Epiclarus AB**

Abstract: For over fifty years, various compound semiconductors have contributed to the field of photonics. One of these, InP, has together with its related materials recently found novel areas of applications: quantum cascade lasers (QCLs), a new kind of long wavelength lasers ideal for e. g. gas sensing, and silicon photonics. The latter holds promise of unifying photonics and electronics, a holy grail to chip makers and opto-companies alike This talk will focus on how Epiclarus, a start-up company based on research at KTH, is contributing to these new fields of applications using patented technology and a special form of epitaxy called hydride vapor phase epitaxy (HVPE).

**“Nanostructured enhanced boiling surface for efficient energy system”
Ph.D. Xiaodi Wang, KTH & Micro Delta T AB**

Abstract: World energy crisis has triggered more attention to energy saving. Enhanced surfaces for boiling are among the applications of great interest since they can improve the energy efficiency of heat pumping equipment (i.e., air conditioners, heat pumps, refrigeration machines). MDT AB developed a new approach of a well-ordered 3D macro-porous metallic surface layer with nanostructured porosity as enhance surface. At lab scale condition, the heat transfer coefficient is enhanced over 17 times compared to a plain reference surface. It's estimated that such an effective boiling surface would improve the energy efficiency with 10–30%.

“Industriell lasermärkning”

Dag Holmsten, Östling Märksystem AB /Östling Marking Systems GmbH

Abstract: Östling Marking Systems is a major developer of marking systems world-wide for more than 40 years and the only such company producing their own lasers systems with a unique position being able to relate this laser development to marking requirements. As a result, today's laser markers can interact with just about any type of material, and by a correct selection of laser parameters also allow not only superficial but also high-precision subsurface marking & ablation, as well as completely invisible marking on some substances. Applications are not only in traditional packaging but perhaps even more in product-tracing.

följt av OPTOPUB 18.30 –20.00

**Chinese food in buffet style will be served with beers, free of charge
ADOPT, Linné center i Modern Optik och Fotonik, bjuder alla som föranmält sig på mat och dryck.**

**Viktigt: Föranmälan på www.doodle.com/325xs8qgf3wtui8q
Senast Onsdag 29:e januari före kl.14:00 !!!**

Välkomna!

Lennart BM Svensson, Qin Wang, Jens A Tellefsen, Jr , Gunnar Björk

Optopubarna samarrangeras av