



Svenska OptikSällskapet  
Swedish Optical Society  
the Swedish Branch of the European Optical Society



Vad händer i Stockholm inom **optiken**?

Välkommen på ett **kvällsseminarium** under ca. en timmes tid

**Torsdagen den 24 februari 17.30 – 18.30**

**KTH-Kista, Isafjordsgatan 22, Electrum  
plan 3, section C, FMI seminar room**

***Qin Wang, PhD, Senior scientist, Acreo AB***

***Going green by optoelectronic innovations***

'Living green' becomes a global issue to address on improvement of the sustainability of environment by various politic regulations and technique solutions from government, industry and academia. Optoelectronic innovations are believed to provide great contributions for dealing with the 'green' related topics, such as, public health caring, water and food safety, higher efficiency solid lighting, less resource consumption, intelligent Eco-friendly building, electric vehicles and so on. Acreo has been active in the opto field with long term experience, which will be briefly reviewed in this talk. Especially, R&D of UV detection and imaging based on III-nitrides, SiC and ZnO wide bandgap semiconductors will be emphasized, and also their applications will be highlighted for providing insights on bridging the opto approaches to our daily life. The work is mainly performed at Imagic center, which is an institute center of excellence led by Acreo, with the mission to realize next generation imaging devices for non-visible wavelengths from X-ray to thermal IR.

***Martin Wahlsten, Verification & validation engineer, Transmode Systems AB***

***Injection-locked lasers and their potential role in phase sensitive optical amplifiers***

By injection-locking lasers a range of useful phenomena occur that can be used in a variety of telecom applications. Applications that span from WDM PON to enabling Phase Sensitive Fiber Optical Parametric Amplifier (PS-FOPA). PS-FOPAs have shown potential for several exciting applications including optical phase regeneration. Additionally Coherent measurement systems provide means to evaluate performance of injection-locked lasers. Coherent measurements identify several trade-offs that have to be balanced in order to maximize overall system performance of PS-FOPAs utilizing injection-locked lasers.

(This project was completed in Chalmers University of Technology, and got "Optics Days 2010" award)

följt av

**OPTOPUB 18.30 –20.00**

för alla som vill prata optik och fotonik eller annat

***OBS!! Alla som föranmält sig bjuds på mat av:  
ADOPT, Linné center i Modern Optik och Fotonik.***

**Viktigt: Föranmälan till [sergeip@kth.se](mailto:sergeip@kth.se) för mat!!!**

**Senast onsdag 23/02 före kl.13:00 !!!**

*Sergei Popov  
Ari T. Friberg*

*Saulius Marcinkevicius*