

Vad händer inom **optiken** i Stockholm?

What happens in Stockholm in **optics** ?

Thursday 26th May 17.30 – 18.30

**Electrum at KTH-Kista, Isafjordsgatan 22,
Plan 2, Sal 204 (or 205)**

"Design flexibility of type-II Superlattice IR detectors: from short wave to very long wave detection", Linda Höglund, Development engineer at IRnova

In recent years InAs/InGaAsSb Type-II superlattices (T2SLs) have proven to be excellent material for high end infrared (IR) detectors and are now competing with the traditional state-of-the-art technologies. One of the major advantages of this technology is the good manufacturability due to mature V/III-processing. Another advantage is the flexibility to tailor the cut-off wavelength to any desired detection wavelength in the IR wavelength region. At IRnova these detectors are developed for a large range of applications, such as gas detection, medical diagnosis and space applications. In this talk I will give an overview of infrared detectors and their applications and also go into some more detail on which material properties are important to get a good detector.

"Transparent wood: fabrication and applications", Lars Berglund, KTH Wallenberg Wood Center

Among future possible applications of this new material are facades that are also solar panels. One of the advantages of this wood is that the raw material is inexpensive and durable. Another positive aspect is that the wood has low density, which makes the material light. This becomes particularly important as we need to cover large surfaces with solar cells. Transparent wood panels are also useful as concrete facades as transparency lets in light but, at the same time, due to haze one cannot clearly see inside the house. However, you can also make wooden windows that you can see through, if desired.

followed by Optopub 19:00-20:30, ADOPT, Linné center i Modern Optik och Fotonik, invites everyone who pre-registered for food and beverages.

OBS: Preregistration for food at:

<https://doodle.com/poll/dhsih8qb8ng6gw96>

before Tuesday 24th May kl.18:00 !!!

Welcome!

Lennart BM Svensson

Gunnar Björk

Jens A Tellefsen, Jr

Sergei Popov

Ilya Sutjugov

Optopubs are co-arranged by