

From research to production: Infrared supercontinuum lasers

Seminar on mid-IR supercontinuum sources

Time: 28th of August 2012, 13.00- 18.00

Location: Carlsberg Academy, Gamle Carlsberg Vej 15, Copenhagen, DK

- 13.15—13.30 **Intro: Seeing the invisible and doing the impossible**
Prof. Søren Keiding, Aarhus University
- 13.30—14.00 **Open innovation: Using government funding to spur commercial growth**
Christian V. Poulsen, CTO, NKT Photonics A/S
- 14.00—14.30 **Infrared light for microscopy and chemical sensing**
Prof. Clemens Kaminski, Cambridge University
- 14.30—15.00 Coffee break
- 15.00—15.30 **A world of opportunities**
Carsten Orth Gaarn-Larsen, Director, Dan. National Advanced Technology Found.
- 15.30—16.00 **Mid-IR light for cancer detection**
Prof. Angela Seddon, University of Nottingham
- 16.00— 16.30 **The importance of being first in a global niche market**
Niels Degn, Vice President of Product Innovation, FOSS Analytical
- 16.30— 16.45 **Outro: The collaborating universities**
Lars-Ulrik Aaen Andersen, Director, DTU Fotonik
- 16.45—18.00 **Reception and Networking**

**Participation is free, but space is limited, so please register early at
lle@nktphotonics.com**



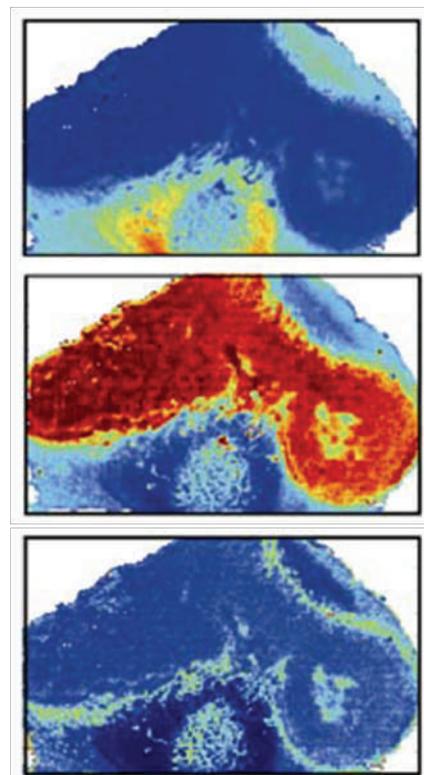
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Abstract:

The challenge facing Denmark on how to transform a world class research and educational system into growth initiating industrial production is well described and documented.

In a project financed by the National Advanced Technology Foundation, Aarhus University, DTU Fotonik and NKT Photonics A/S have recently developed a ultra high brightness mid-IR supercontinuum light source. The market for infrared light sources is growing at a rapid pace and so are the scientific opportunities. Two invited speakers from Cambridge and Nottingham Universities will provide examples of new applications of infrared light source in food analysis, medical imaging, countermeasures, and chemical sensing. Speakers from NKT Photonics and FOSS Analytical talk on the challenge of transforming cutting edge research into new commercial products, and the directors from DTU Fotonik and the National Advanced Technology Foundation directors talk on the catalysis of the collaboration between companies and universities.

The seminar marks the end of a successful research collaboration that led, not only to scientific results and publications, but to the development of a real high-tech product, produced in Denmark. Combining our *case story* with a scientific outlook we expect an inspiring afternoon at the **Carlsberg Academy**.



Brain cancer diagnostics on rats using light between 2.7 - 3.8 μm

Venue:

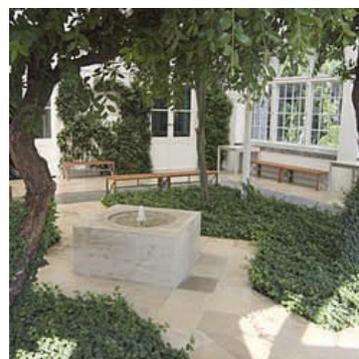
The seminar takes place the Carlsberg Academy situated in the historical Carlsberg buildings in Valby, just west of central Copenhagen. Please sign up for the meeting at lle@nktphotonics.com.



Akademiet for de
Tekniske Videnskaber



The Danish National
Advanced Technology Foundation



DTU Fotonik
Institut for Fotonik

NKT Photonics
the power of light

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