

The future is light – The full disruptive potential of photonics is only now becoming clear



IVA Conference Center,
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Thursday
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17:00–19:00



Seminar
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New advances in optics and photonics will revolutionize illumination technology, healthcare and provide new ways of detecting, treating and even preventing illness.

Participants: **Hiroshi Amano**, Japanese physicist and inventor specializing in the field of semiconductor technology, especially LEDs (light emitting diode), and **Fredrik Laurell**, professor of Physics at the Royal Institute of Technology (KTH) in the fields of laser physics and photonics.

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SEMINAR

New advances in optics and photonics will revolutionize illumination technology, healthcare and provide new ways of detecting, treating and even preventing illness.

In the future combining optics/photonics with nanotechnology, will play a key role in the development of new types of solid-state light sources, sensors and ICT technology. A development that is expected to outperform existing technology in terms of efficiency offering substantial energy savings.

In addition to a broader area of applications where LEDs (light-emitting diodes) and lasers will be used we will also see increased functionality due to higher complexity enabled by shrinking element footprint.

In two lectures the recent developments of LEDs and lasers, respectively, in a wide area of applications will be described – showing the fast evolution of both incoherent and coherent light sources.

Hiroshi Amano is a Japanese physicist and inventor specializing in the field of semiconductor technology, especially LEDs (light emitting diode). For his work he was awarded 2014 Nobel Prize in Physics together with Isamu Akasaki and Shuji Nakamura for "the invention of efficient blue light-emitting diodes which has enabled bright and energy-saving white light sources".

Fredrik Laurell, professor of Physics at the Royal Institute of Technology (KTH) in the fields of laser physics and photonics. Alongside his research and teaching Laurell has been involved in a number of important assignments, including for the Royal Academy of Sciences, Swedish Optical Society and European Optical Society.

REGISTRATION

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