

INAUGURATION CEREMONY FOR HONORARY PROFESSOR SIGITAS TAMULEVICIUS

We are pleased to invite you to the inauguration of Prof. Dr. Sigitas Tamulevičius from Kaunas University of Technology as Honorary Professor at University of Southern Denmark. For the ceremony, our present honorary professors Prof. Dr. Al-Shamery from Carl-von-Ossietszky Universität Oldenburg and Prof. Morten Willatzen from Technical University of Denmark will also be present as speakers and honoured guests. After the talks refreshments will be served.

THE TALKS



Prof. Dr. Sigitas Tamulevicius
Nanoparticles, nanocomposites - from optics to medicine

Principles of deposition and applications of diamond-like carbon thin films, diamond-like carbon-based nanocomposites including metallic nano particles as well as capillary assisted deposition of nanoparticles will be presented, thereby concentrating on the optical properties, charge transfer processes and the use of the assembly of particles as building blocks for optical sensors.



Prof. Dr. Katharina Al-Shamery
How does a photocatalyst work?

One approach circumventing problems with the fluctuations of future renewable energy sources is the chemical storage of solar energy. Photocatalysts consisting of metal nanoparticles on semiconducting supports minimise the energy consumption in chemical production. New perspectives for future designs of more efficient materials will be outlined based on studies on key features such as life times of electronically excited states and the molecular motions prior to bond breaking and bond making.



Prof. Morten Willatzen
Exotic Acoustic Effects in Solids

A discussion of two novel and exciting phenomena in acoustic structures is presented. In the first part I present a theory of coupled piezoelectric equations and semiconductor drift-diffusion equations and demonstrate unprecedented high acoustic gain by virtue of the Cherenkov effect in the plasmon frequency range where the permittivity approaches zero. In the second part an effective metamaterial porous absorber is proposed theoretically based on Wigner-Smith delay theory. Experimental verification is also demonstrated.

Registration by mail to zora@tek.sdu.dk
before 1 December 2016

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15 December 2016 from 1- 4 pm
U101 (auditorium) at Alsion 2, 6400 Sønderborg

PROGRAMME

1.00 INFORMAL GET-TOGETHER

GREETING NOTES

Prof. Dr. Horst-Günter Rubahn | Director Mads Clausen Institute
Prof. Michael Evan Goodsite | Vice-Dean Faculty of Engineering

1.30 INAUGURATION SPEECH

Prof. Dr. Sigitas Tamulevicius | Director Institute of Materials
Science, KTU

Nanoparticles, nanocomposites - from optics to medicine

2.00 Prof. Dr. Katharina Al-Shamery | Carl-von-Ossietzky Universität Oldenburg

How does a photocatalyst work?

2.30 Prof. Morten Willatzen | Technical University of Denmark Exotic Acoustic Effects in Solids

3.00 REFRESHMENTS IN THE CAFÉ