



# Young Acousticians Network

## Invited session & round table

### BNAM 2018 in Reyjavik, Iceland



#### New techniques for building acoustics

by Jens Holger Rindel

**Multiconsult**, Oslo, Norway, [jehr@multiconsult.no](mailto:jehr@multiconsult.no)

**Odeon A/S**, Scion-DTU, Kgs. Lyngby, Denmark, [jhr@odeon.dk](mailto:jhr@odeon.dk)

The talk explores the opportunities for collaboration and tasks sharing between academia and industry in the development of new techniques for building acoustics. Different areas are considered, including building materials, measurement methods, and prediction methods. Several cases are presented, some of them from the authors own experience. Inspiration can also be found in some examples of ongoing cooperation projects, to be presented. Other cases show how new ideas can lead to spin-off companies. Any cooperation project starts with a good idea and the vision of possible applications. The conditions for a successful cooperation project will be discussed.

#### From ultrasound surgery to HRTFs acoustic simulations as a career

by Tomi Huttunen

**University of Eastern Finland**, Department of Applied Physics, Kuopio, Finland

**Kuava Oy & OwnSurround Oy**, Kuopio, Finland, [tomi.huttunen@uef.fi](mailto:tomi.huttunen@uef.fi)

Numerical simulations have become an essential tool in scientific research and industrial product development. Finite element methods (FEMs), in particular, have been the workhorses of mechanical engineering for decades. In acoustic design, however, the full-wave methods, such as FEMs, have had limited applicability due to their severe computational requirements. This talk will summarize some recent developments in acoustic full-wave simulations and show examples from industrial applications. The viewpoint of the talk is the transfer of academic research on numerical simulation methods to commercial applications. Especially, the aim is to discuss on lessons learned when startup companies are found to commercialize acoustic simulation tools and expertise.

#### Dealing with the increasing demand for acoustics graduates in industry and academia

mod. Anna Färm

The YAN will hold a round table on the topic "Dealing with the increasing demand for acoustics graduates in industry and academia", on **Monday 16th april from 15.10 to 16.30 in room B**. The round table will be mediated by **Anna Färm (SAS and Scania CV AB, Sweden)**, with representing academia and industry in the Baltic and Nordic countries (see beside).

The objectives of the round table are to discuss the current status of the job market in each country from both points of view: the "offer" (academia) and the "demand" (industry and academic research); to compare, when possible, situations between countries; and to reflect on different ways to increase the number of students within acoustics to satisfy the demand.

**Hans Bodén**

Royal Institute of Technology, Sweden

**Rémi Guastavino**

Bruel & Kjaer, Denmark

**Sebastien Santurette**

Technical University of Denmark, Denmark

**Peter Svensson,**

Norwegian Univ of Science  
and Technology, Norway

**Kristín Omarsdóttir**

EFLA, Iceland

**Tomi Huttunen**

University of Eastern Finland,  
Kuava Oy & Ownsurround Oy, Finland

**Jens Holger Rindel**

Multiconsult, Norway & Odeon A/S, Denmark