



Railway Innovation Workshop

DTU Lyngby June 3rd 2019, Building 303A

09:30-10:00 **Registration // coffee and networking // Poster Exhibition**

10:00-10:05 **Welcome and setting the scene**
Poul-Erik Hansen, CenSec/Inno-Pro

10:05-10:15 **Current innovation activities at DTU**
Henrik Sylvan, RailTech DTU

10:15-10:35 **On track with safety – automated verification of railway control systems**
Signe Geisler, Department of Applied Mathematics and Computer Science, DTU

10:35-11:00 **The Roads2Rails project – learning from road engineering by testing asphalt under the tracks in order to build and maintain a more efficient rail infrastructure**
Tulika Bose, DTU Byg

11:00-11:20 **Fault detection and predicting faults – how to convert the good old railway into a modern digital railway using new tools and methods in planning**
Emil Hovad, Department of Applied Mathematics and Computer Science, DTU

11:20-11:30 **Fruit and coffee**

11:30-11:55 **Eco-friendly train operation – creating the battery-powered Desiro Cityjet for Austrian Railways ÖBB for better services on non-electrified lines**
Jens Lind, Siemens

11:55-12:20 **During and after the ERTMS installation: how to effectively keep up high reliability and long life of the new system with real-time diagnostics and web applications**
Sebastian Kobylarz, Alstom

- 12:20-13:00 **Lunch break (sandwich)**
- 13:00-13:25 **Train procurement in Norway in new organization – optimizing towards passenger needs, market segments, technical system concept, financing, etc.**
Ove Skovdahl, Jernbanedirektoratet
- 13:25-13:50 **Upgrading of existing lines to 250 km/h for mixed passenger/freight traffic – could such a project demonstrate positive net benefits (identification of the first stretches)**
Lennart Lennefors, Trafikverket
- 13:50-14:15 **Development of high-speed and very high-speed trains – time matters**
Lasse Toylsbjerg-Petersen, Bombardier Transportation
- 14:15-14:35 **The new app-based fare system in Skåne – based on a simple, easy-to-understand zone structure**
Skånetrafiken (tba)
- 14:35-14:45 **Coffee refill and cake**
- 14:45-15:10 **Threats and Resilient Measures in Railways on Cyber Security**
Alexander Bishop, Ricardo Rail UK
- 15:10-15:35 **Space applications on the Follo railway line project**
Dr. Regula Frauenfelder, NGI Norge
- 15:35-15:55 **Do we really know what wind forces hit our railway infrastructure - can we improve methods and knowledge to avoid accidents like the Great Belt train disaster?**
Prof. Jakob Mann, DTU Wind
- 15:55-16:00 **Conclusions and closing of today's pre-summit**
- 16:00 **Drinks and networking**

Venue

You can find Railway Innovation Workshop at DTU Lyngby campus, Building 303A (auditorium 49). A Letbane station is placed just outside (a complete 1:1 mock-up model), however no trains running yet! You can find information on [bus services](http://www.rejseplanen.dk) at www.rejseplanen.dk. By car – plenty of [parking lots](#) offered at campus!

Registration

The workshop is open for everybody. Register at www.censec.dk scroll down /Events /June 3
Contact: communications manager, Louise Juel Broch → louise@censec.dk

Exhibition

A small poster exhibition arranged in the lobby (no charge)

ADDITIONAL

The Transport Summit on June 4 includes a railway session “Rail evolution – less cost and smarter operations”
Please register separately at:
www.transportsummitdtu.com