

MRI DC Meeting 4.1.2025 ABB Drives, Pitäjänmäki

15:00 – 18:25

Attendees:

Antti Pietiläinen (Chairman)
Petri Kärhä (Secretary)
Jussi Havunen (Host)
Erkki Ikonen
Matti Heinonen
Hannu Talvitie
Jari Hovila
Saulius Nevas
Farshid Manoocheri
Sucheta Sharma
Timo Donsberg
Maksim Shpak
Janne Askola
Ville Mantela
Meelis-Mait Sildoja
Hans Baumgartner
Pasi Toivanen
Juha Kangasrääsiö
Robin Aschan
Dmitri Lanevsky
Maija Ojanen
Jeremias Seppä
Richard Högström

Opening

The evening, hosted by ABB Drives in Pitäjänmäki, started with a factory tour showing production lines where ABB produces different kinds of drives. After the excursion, Jussi Havunen gave a presentation on ABB and his work there. Story of ABB is introduced in the following links:

ABB:n taajuusmuuttajien tarina: 50 vuoden matka kohti energiatehokkaampaa tulevaisuutta:
<https://www.youtube.com/watch?v=Pef9s-gnCeQ>

50 years of LV drives: <https://campaign-mo.abb.com/drives50>

Round the table discussion

The evening continued with the regular round the table presentations on what people have recently been doing.

Jussi Havunen works with ABB Drives.

Saulius Nevas graduated in 2004. After a brief postdoctoral position at the Laser Zentrum Hannover e.V., he started working at PTB in Braunschweig in 2006. He currently leads the "Spectroradiometry" group there.

Sucheta Sharma works as a post-doc in University of Turku.

Maksim Shpak works at Anduril with image forming waveguides. Engineering in Microsoft has stopped including the Hololens project.

Farshid Manoocheri works with Mikes-Aalto as a staff scientist.

Pasi Toivanen graduated in 2001. Works at ThermoFischer as a technology manager. Has two sons working at Aalto University.

Jari Hovila graduated in 2005. Works as Senior Specialist at Finnish Meteorological Institute with satellite work.

Martti Heinonen Leads VTT-Mikes activities. Mikes is now a little bit smaller due moving spectroscopy to other parts at VTT. MIKES has the 3rd best atomic clock (strontium-ion) in the world. Joined CCTF that has a key role in definition of second.

Juha Kangasrääsio graduated about 12 years ago. Works in Kuopio with paper industry. Running his own company, an accredited laboratory of moisture and grammage, for 30 years.

Rikhard Högström leads the group of Process Metrology at VTT-Mikes. The group is developing new methods for calibrating sensors for changing and dynamic conditions. Hot topics presently include reliability of AI based models and dynamic measurements. Ukrainian war has increased demand for dynamic pressure to study sensors for measuring ammunition and explosions.

Meelis-Mait Sildoja works at Metroserf with Aigar Vaigu and Toomas Kübarsepp. Works with detector calibrations and single photon sources.

Timo Dönsberg has recently switched from VTT-Mikes to Iceye running the avionics group.

Hans Baumgartner works at ABB via his own company. Has a fleet of earth moving machines, now expanded with a trailer.

Hannu Talvitie works at Vaisala for 27 years. Heading technology strategy and ITR operations. AI is sneaking in in the form of e.g. AI based weather forecasting, machine learning, and large language models.

Jeremias Seppä works at VTT-MIKES. Graduated about 10 years ago but has had the same room for 20 years. Collecting rocks has gradually changed to searching gold.

Ville Mantela graduated 36 months ago. Works at LUKE (Luonnonvarakeskus).

Janne Askola graduated four years ago, worked with Vaisala, and now works at Berggren Oy as a patent agent.

Maija Ojanen-Saloranta post-doced in France, worked long time at VTT-Mikes and VTT, and now works at Aalto University as Corporate Relations Manager. Announced Ville Voipio's nominations as alumni of the year.

Robin Aschan still works at MRI for three months as a post-doc.

Dmitri Lanevsky graduated two years ago and works with Estonian company LightCode Photonics developing Lidars. LightCode's product, a lidar camera modelling the meeting room was demonstrated.

Erkki Ikonen works with Aalto and VTT-Mikes. Year has been busy, four doctors graduated already, and fifth graduation is still to come. 2017 was the earlier record with four graduations. Erkki still works in Aalto until 2027 after which he retires.

Antti Pietiläinen works at Nokia since 1997, as a principal architect, between baseband and radio parts. Working with 2nd generation of 6G. Grandfather since April. Still has an Audi A6 that he has driven for astonishing 313 000 kilometers. Haven't found any better.

Petri Kärhä works with Mikes-Aalto as a Principal University Lecturer. Has two courses, Sensors and Measurement Methods for MSc students, and Elektroniikkapaja for BSc students. In addition to fixing old cars, now also fixes old radios and record players as a hobby.

Next meeting

Place of the next meeting could be Aalto. Due to Erkki's coming retirement, this might be the last chance.

Closing and conclusions

The meeting ended at around 18:25 and continued with dinner in the Nepalese restaurant Akhanda.

Petri Kärhä
Secretary

Antti Pietiläinen
Chairman

A couple of pictures taken by Antti Pietiläinen and Erkki Ikonen follow.









More pictures by Antti Pietiläinen available in:

<https://drive.google.com/drive/folders/1b1SjzFmYIIqUtKTRNmNt96fiNQ1UWluo?usp=sharing>