

## **MRI DC Meeting 02.06.2016 Nokia Solution Center, Espoo**

16:15 – 19:30

Attendants:

Antti Pietiläinen (Host, Chairman)  
Petri Kärhä (Secretary)  
Erkki Ikonen  
Farshid Manoocheri  
Mikko Puranen  
Jouni Envall  
Mikko Merimaa  
Toomas Kübarsepp  
Martti Heinonen  
Markku Vainio  
Tuomas Poikonen  
Jeremias Seppä  
Richard Högström  
Atte Haapalinna  
Ville Voipio  
Mikko Merimaa

### **Opening**

Before the meeting, there was a guided tour in the Nokia Solution Center. The exhibition was quite impressive.

Antti Pietiläinen welcomed all and opened the official meeting at 17:40.

### **Round the table discussion**

Antti Pietiläinen works at Nokia with network synchronization. Nokia has merged with Alcatel Lucent that has brought Antti new colleagues. Nokia had just gone through YT-negotiations but they did not concern Antti. Future plans with work include lasers for data transmitting.

Jeremias Seppä works with VTT MIKES length carrying out e.g. laser frequency calibrations. Research is related with nanometrology.

Martti Heinonen leads the Environmental metrology team at VTT MIKES. Resent research in the team includes e.g. calibration of dynamic pressure and humidity measurements in the conditions of Mars (temperature down to -70 °C), where CO<sub>2</sub> affects the measurements.

Richard Högström graduated in 2015 and works with VTT MIKES. In charge of calibration of low gas flows. Projects related with humidity, flow, and dynamic pressure.

Atte Haapalinna still sails and works with Okmetic. New technologies are being introduced for crystal growth and SOI wafer manufacturing. There is a public tender on shares of Okmetic by a Chinese holding company, so the owner of the company may change.

Ville Voipio works with science management and technology. Part time as CTO of a building measurement and heating technology company. Board member of Vaisala. Docentship at TTY in “perusterveydenhuollon lääketieteellinen kamerateknologia”. Research leading to the docentship has been carried out as kind of a hobby.

Mikko Merimaa works as a research manager with VTT Mikes. In autumn he will be the head of VTT MIKES.

Markku Vainio work at the University of Helsinki with laser physics and spectroscopy. Collaboration still with VTT Mikes.

Toomas Kübarsepp works with Metroser. Recent improvements include fixed point cells for temperature and a new mass comparators. Does optical radiometry for scientific interests. Lectures at Tallinn University of Technology as a part-time professor. TUT is going through structural changes after which there will be four faculties instead of eight.

Erkki Ikonen works with Aalto and VTT Mikes. Works also with Euramet from beginning of the year as the chairman of the EMPIR committee.

Farshid Manoocheri is with Mikes-Aalto as Staff Scientist. Carries out a lot of calibrations. Works with spectrophotometry and various EMRP projects. Research topics include BRDF, thin film materials, and fiber optics. Recently got a baby girl.

Tuomas Poikonen works at Mikes-Aalto, officially for VTT MIKES. Responsible for photometry. Coordinates a new EMPIR project on Future Photometry. Research on developing new LED based lighting standard sources and detector based photometric measurements.

Mikko Puranen works at Kone. Lives in Riihimäki, hikes and bikes. Has one student doing MSc thesis on wireless elevator measurements. New light weight ropes are taking off. Two buildings already built and new ones sold.

Jouni Envall works with FMI on satellite projects. Aalto-1 will fly in July with FMI payload. Secret hush hush project Hauki. Will start a new hobby as flying a glider. Attending a course by PIK.

Jouni brought greetings from Mart Noorma who is a vice rector at Tartu University but could not make it to the meeting.

Petri Kärhä works with Mikes-Aalto as a Senior University Lecturer. In autumn teaches a new course “Elektroniikkapaja” which is a practically oriented course for 3. Year students. On research side, he has an EMRP Atmoz project studying measurements of

stratospheric ozone. Eagerly waiting for the financing results from the Academy of Finland and preparing a new EMPIR project on smart lighting. Sons are at moped age, so building of old cars has been superseded by building mopeds for a while.

## Discussion

There was interesting discussion about 4G and 5G networks.

## Next meeting

At the new premises of MRI. In about one year in spring.

## Closing and conclusions

Antti closed the meeting at 19:31. After this, there was dinner at restaurant Glo in Leppävaara.

Petri Kärhä  
Secretary

Antti Pietiläinen  
Chairman

