

## **MRI DC Meeting 27.01.2014 Kone, Hyvinkää**

17:00 – 19:50

### Attendants:

Erkki Ikonen  
Petri Kärhä (Secretary)  
Antti Pietiläinen (Chairman)  
Farshid Manoocheri  
Jari Hovila  
Antti Lamminpää  
Mikko Puranen  
Jouni Envall  
Pasi Toivanen  
Hannu Talvitie  
Ville Voipio  
Atte Haapalinna

## **Opening**

Before the meeting, Mikko Puranen gave a short presentation of the Kone corporation. The presentation was followed by an excursion to the test elevator tower where there was an elevator equipped with KONE's latest big invention: KONE UltraRope, Super-light rope technology with carbon fiber core and special high-friction coating. This invention saves a lot of mass as compared to metal ropes and allows higher elevators to be built.

After the excursion, Antti Pietiläinen welcomed all and opened the official meeting at 18:30.

## **Round the table discussion**

Petri Kärhä works with Mikes-Aalto as a Senior University Lecturer, a new title introduced by the career track system of Aalto. His work is more or less the same as earlier including teaching and project work. Biggest projects include UVIADDEM, a project studying UV degradation of materials, and EMRP Solar UV, where the lab develops new diffusers for solar UV spectroradiometers.

Mikko Puranen works with Kone designing high-rise elevators. Has put lot of effort into a device to measure quality of the new carbon ribbon ropes. Work continues as a TEKES project. Will start studying wireless communications in elevators. Bought a house with wife-to-be in Riihimäki, will move shortly. Hobbies include biking and hiking.

Atte Haapalinna works with Okmetic as senior vice president. Has recently been nominated to the executive management board. Atte's son plays football, which keeps him occupied. Still sailing, same boat as before.

Erkki Ikonen presented some latest news from the Aalto University. Things have recently stabilized in Aalto University. However, MIKES is being combined with VTT, possibly already in beginning of 2015, which poses challenges for MRI. EMRP program ends and the new EMPIR program will start. MRI is expecting a lot of European projects from there. Six new EMRP projects of MRI will start in 2014.

Farshid Manoocheri is with Mikes-Aalto. Since 2014 nominated as Staff Scientist. Works since 2009 with PQED detectors based on special photodiodes. These will hopefully replace Cryogenic Absolute Radiometers in future. Other research includes fluorescence of standard materials, and thin film projects.

Antti Pietiläinen works with synchronization and packet timing at NSN since 2003. Time synchronization profile of IEEE1588 is topical. 5G is being researched in the group where Antti works.

Jari Hovila works at FMI with satellite projects. Works with two satellite projects. Processes data from METOP A (2006) METOP B (2012) satellites. Data includes composition of atmosphere: ozone, NOX, etc.

Antti Lamminpää works since recently at Stena Recycling. Main business is metal recycling. Stena Metals has 100 people in Finland. Antti works with the business development in Finland. Antti's summer cottage in Mustio is progressing.

Jouni Envall works with FMI on projects related with Electric Solar Wind Sail for satellites. ESTCube-1 was launched in May 2013, five months in advance of schedule. The experiment has not started yet because software is not ready. It is being assembled remotely. Aalto-1 will not be launched in 2014. Plasma brake is to be studied. ESTCubes 2 and 3 are being planned. Is setting up an electronics lab at home. Working with a quadro-copter.

Pasi Toivanen works with Thermo-Fischer Scientific as Technology Manager. Work has shifted towards researching new devices.

Ville Voipio worked several years for K-Patents, lately as managing director, but quit now. In addition to work he has continued science. Has a docentship with TUT. Research interests include medical physics. Works as business development manager with start-up company Simap that works with remote heating. The product will gather temperature data from apartments to be used for controlling the heating system. Plays viola da gamba quite actively.

Hannu Talvitie works with Vaisala at group business development. Varied works including strategy and business development. Exchange student from Michigan. Bikes quite actively.

## Discussion

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## Next meeting

In September 2014 in MIKES sauna.

## Closing and conclusions

Antti closed the meeting at 19:50. After this, there was a dinner in Restaurant Obelix.

Petri Kärhä  
Secretary

Antti Pietiläinen  
Chairman

