

MRI DC Annual Meeting 08.6.2011 FMI

17:15 – 18:45

Attendants:

Erkki Ikonen

Petri Kärhä (Secretary)

Antti Pietiläinen (Chairman)

Farshid Manoocheri

Jari Hovila

Antti Lamminpää

Markku Vainio

Maija Ojanen

Mikko Puranen

Toomas Kübarsepp

Pasi Toivanen

Opening

Before the meeting, Jari Hovila arranged an excursion to the premises of FMI. Instruments in the nearby measurement field and on the roof of the FMI building were reviewed in nice summer weather. After the excursion, Antti Pietiläinen welcomed all and opened the official meeting part.

Round the table discussion

Erkki Ikonen presented the latest news from the Aalto University. The former “TKK” has now completely disappeared. MRI belongs to the Aalto University School of Electrical Engineering, Department of Signal Processing and Acoustics. The lab now uses names “Mikes-Aalto Mittaustekniikka” and “Metrology Research Institute.” Erkki has recently spent a lot of time arranging the next Newrad conference in Hawaii, and calls for proposals for EMRP, which is nowadays a significant form of funding for the lab.

Mikko Puranen works with Kone designing high-rise elevators. Main focus is presently on developing techniques for extending standard elevator electrification up from current 250 meters. He also studies methods for elevator rope condition monitoring.

Markku Vainio works in two places - Lab. of Physical chemistry (HY) and MIKES. Markku is mostly researching laser spectroscopy, mid IR spectroscopy, and Terahertz spectroscopy. Joint projects with HY and Mikes. Also EMRP. Exhaust gas analyzers analyzing health-related things.

Toomas Kübarsepp works with Metrocert. Since January he is also a part-time Professor of Quality and Metrology in Tallin University of Technology. Toomas is developing laboratory of optical radiation to Tõravere observatory with his company Hohenheide.

Antti Pietiläinen works with packet timing at NSN since 2003. His tasks include ensuring that their devices can give time transport with accuracy better than 800 ns. Works with standardization. Problems with convincing other people that he is right. Has learnt Perl editing.

Farshid Manoocheri is with Mikes-Aalto, still active with EMRP PQED project aiming to quantum candela. Project ends at end of June. Results promising -> Uncertainty of 10^{-6} reachable with cooled silicon photodiode. Works also fine at room temperatures. Other activities: fluorescence, teaching, calibrations etc.

Antti Lamminpää works with Accenture as a strategy consultant / business analyst. He has recently worked with various business sectors over wide range of industries. Consulting contains lots of collecting data about companies and analyzing data. The goal may be e.g. assisting a company to expand business in Finnish markets.

Pasi Toivanen works with Thermo Fischer Scientific as Physicist making feasibility studies, optics design, system architecture, and assisting production. TFS has 650 workers in Finland and produces e.g. microplate readers.

Jari Hovila works at FMI with satellite projects. Managing projects and processing data. Analyses NASA satellite data to retrieve Ozone values.

Maija Ojanen is one of the latest Drs. graduated from the lab. Spent one year in France at LNE as a post-doc studying high-temp eutectic black bodies. Started in the beginning of June to work with mass and temperature at Mikes. Working atmospheres and attitudes were discussed. At LNE, work was more done in groups whereas at TKK work was more individual. Learnt fluent French.

Petri Kärhä works with Mikes-Aalto as a Teaching Research Scientist. He is currently pursuing towards a lecturer track system aiming at a position of Senior University Lecturer. His work includes teaching and project work. Biggest project currently on Metrology for Solid State Lighting (SSL) where he tries to develop a model for predicting lamp life time from a spectral measurement of intensity only. After a few years break, will have a solar UV project as well starting in autumn.

Discussion

Discussion about whether graduating students should be allowed to participate. It was agreed to try with the next meeting. Candidates are asked to present their planned doctoral theses. Concerns people graduating before next meeting to be.

Next meeting

February 2012 in Mikes.

Closing and conclusions

Antti closed the meeting at 18:45 and thanked FMI for hosting. After this, the participants continued with a Dinner in the downtown in Kellarikrouvi. Dinner was financed with the remainders of a reward that the lab received in 2008 for developing working atmosphere.

Signed

Petri Kärhä

Antti Pietiläinen