



## e-newsletter n°4

10<sup>th</sup> and 11<sup>th</sup> of April, 2018

### International workshop on Measurement and Control of Humidity and Moisture in Industry

Danish Technological Institute hosted a workshop entitled “Measurement and Control of Humidity and Moisture in Industry” in Taastrup (near Copenhagen) on 10<sup>th</sup> of April 2018. The workshop was primarily aimed at food and feed industry and commercial laboratories. Partners and industrial stakeholders gave 10 inspiring presentation, which gave rise to many good questions and discussions. There were 32 participants from five different European countries, including 21 from companies outside the consortium.

Programme	Programme - 2
10:00 - 10:10 Opening the workshop Jan Nielsen Danish Technological Institute	13:00 - 13:25 A New Acoustic Method for Relative Humidity Measurement Demonstrated in a Dairy Hilbert van Schaik van Schaik Detection Handling & I'
10:10 - 10:30 Metrology for Humidity at High Temperatures and Transient conditions – the challenge Dr. North Holmen VTT MOSES	13:25 - 13:50 A Climatic Chamber for dew-point temperatures up to 150 °C Jouhar Perouz ISI, Dutch Technology Institute
10:30 - 10:55 Pitfalls when using air humidity sensors in dynamic conditions Ker Albert Schmidt PMSZ Technology	13:50 - 14:15 Using isotherms for determination of shelf life of milk powder Mika Stenlyst Hansen Airt Food Amba
10:55 - 11:10 Coffee	14:15 - 14:30 Coffee
11:10 - 11:35 OEA managing humidity Søren Juhl Nielsen OEA Process Engineering A/S	14:30 - 14:55 The significance of water activity and sorption isotherms Dr. Jens Riis University of Copenhagen
11:35 - 12:00 Improving the efficiency of humidity calibrations in a lab and on site Dr. North Holmen VTT MOSES	14:55 - 15:20 Progress towards traceable inline measurement of water activity Henrik Kjeldsen Danish Technological Institute
12:00 - 13:00 Lunch & Networking	15:20 - 15:45 Automatic Quality Analyzer System for in-line measurement of water activity in food Jens Erik Stengaard Source Technology ApS
	15:45 - 15:55 Summary and close Jan Nielsen Danish Technological Institute

Figure 1 – The program of the workshop

All presentations are available here :

[https://www.empir-hit.eu/en/documents?facet\\_theme=Workshop](https://www.empir-hit.eu/en/documents?facet_theme=Workshop)



### International training course on advanced methods for humidity calibration & uncertainty

The training course was organised to share experience, results and knowledge gained within HIT project with industrial stakeholders. Providing hands-on training we enhanced exploitation of our results in industry. The maximum number of participants (i.e. 20) registered to the course before actual advertising. In total 17 participants were for industrial stakeholders. Feedback from the participants was very positive.



Figure 2 – Participants got hands-on training about humidity measurements and calibration at non-static conditions and estimating uncertainty

All presentation, exercises and Excel sheets are available here :

[https://www.empir-hit.eu/en/documents?facet\\_theme=Training](https://www.empir-hit.eu/en/documents?facet_theme=Training)