14IND13 PhotInd M36 Final Meeting 31.05.2018/ Lassila

**Draft Agenda**

Dates: **26th – 27th of June 2018**

Location: CMI, Czech Metrology Institute, V Botanice 4, Prague 5, Czech
Meeting room: ?

Day 1, 26.6.2018

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| 8:45-9:00 | Arrival and Registration |  |
| 9:00 | Welcome  | CMI |
| 9:10 | Agenda | VTT MIKES |
| 9:20 | Status of agreed actions from M27 meeting | VTT MIKES |
| 9:30 | WP1: Development of measurement techniques for the characterisation of advanced optical fibres* Description of the work, progress & issues
 | VTT MIKES & contributing partners |
| 10:00 | Coffee break |  |
| 10:15 | WP2: Development of metrology for photonic interconnects* Description of the work, progress & issues
* Remaining actions
 | NPL & contributing partners |
| 10:45 | WP3: Development of fibre optic measuring instruments and artefacts* Description of the work, progress & issues
* Remaining actions
 | METAS & contributing partners |
| 11:15 | WP4: Measurement comparisons of the methods developed in WP1-WP3 * Description of the work, progress & issues
* Remaining actions
 | CSIC & contributing partners |
| 11:45 | WP5: Creating Impact* Knowledge transfer, presentations
* Training
* Uptake and exploitation
* Stakeholder committee
* Remaining actions
 | CMI & all |
| 12:00 | Lunch |  |
| 13:00 | Deliverables status, content and remaining actions | VTT MIKES & ALL |
| ~10-20 min each | **D1.** Report on the capabilities and measurement uncertainties of measurement techniques developed for 1. dimensional characterisation of advanced optical fibres, with target uncertainties for fibre layer thickness and concentricity of 0.5 µm and 1 µm respectively

measurement of optical dispersion, with target relative uncertainty of 1x10‑3 for dispersion slope and zero dispersion wavelength for 100 m of silica fibre | **Sphak,** Haapalainen, Vahimaa. Burger, Husu, Velasco, Vaigu, Pokatilov, Valdma  |
|  | **D2.** Guidelines on measurement procedures for high power fibre optics | **Walbaum,** Correda, Haapalaine, Husu |
|  | **D3.** Report on the demonstration of a mirror enhanced low-loss grating coupler, a 3D broadband coupling device and 3D printed coupler | **Pernice,** Vahimaa, Burger, (Sphak, Velasco) |
|  | **D4.** Report on the characterisation of optical waveguides under different environmental conditions | **Ferguson, Fatadin** Robinson  |
|  | **D5.** Report on the standards and procedures for the characterisation of THz transmission links | **Naftaly,** Deninger, Peters, (CSIS) |
|  | **D6.** Report on the demonstration of a fully traceable system for Angular Encircled Flux measurements | **Robinson,** Castagna |
|  | **D7.** Report on the demonstration and validation (by intercomparison) of fully traceable artefacts for the calibration of the distance scale of high resolution OTDR and for the attenuation scale of multimode OTDR | **Morel,** Pernice, Allerton, Corredera |
|  | **D8.** Report on the development and performance evaluation of a prototype fibre coupled carbon nanotube based cryogenic radiometer, with a target accuracy of better than 0.5 % and the capability to measure optical power at 1550 nm with a relative uncertainty of less than 0.25 % | **Smid,** Morel |
|  | **D9.** Report on the successful uptake of project outcomes by the photonics industry, along with recommendations on how to increase the uptake. | **Smid,** et all |
|  | **D10.** Delivery of all technical and financial reporting documents as required by EURAMET | **Lassila,** et all |
|  | Report on the capabilities and measurement uncertainties of measurement techniques developed for 1. dimensional characterisation of advanced optical fibres, with target uncertainties for fibre layer thickness and concentricity of 0.5 µm and 1 µm respectively

measurement of optical dispersion, with target relative uncertainty of 1x10‑3 for dispersion slope and zero dispersion wavelength for 100 m of silica fibre | **Sphak,** Haapalainen, Vahimaa. Burger, Husu, Velasco, Vaigu, Pokatilov, Valdma  |
| 15:30 | Coffee break |  |
| 16:30 | Deliverables status, content and remaining actions, continues |  |
| 17:30 | End of day 1 |  |
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| 20:00 | Evening dinner? |  |

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| Day 2, 27.6.2018 |  |  |
| 9:00 | Reporting, Instructions and schedule for reporting | VTT MIKES & all |
| 10:30 | Coffee break |  |
| 11:00 | Summary of discussions, Next meeting, time and place | VTT MIKES |
| 11:30 | Lunch |  |
| 12:30 | Remaining issues | VTT MIKES & all |
| 13:30 | End of day 2 |  |