

Closing plenary Session

Report of activities in WG4

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SG1: New sensor types based on PCFs, Non-conventional FBGs and Non-linear fibres

SG2: Distributed sensing Methods

SG3: Standardization/Guidelines for fibre optic sensors and components

1. Report

Proposals

One STSM between Univ. of Limerick (Lewis) and SCK (Berghmans)

One STSM between Univ. of Limerick (Lewis) and City Univ. of London (Grattan)

One STSM between LCPC (Delephine-Lesoille) and BAM (Krebber)

Project ERA-SPOT framework is proposed from Univ. of Limerick and LPMC-CNRS Nice in the field of Gas sensing

2. Observations

Only some members listed for WG 4 are present

- Some sensor related presentation were given in WG 4 (Vázquez, Rogers, Lewis, López-Amo, Tur, Habel)

- some other presentations were given in other WGs: e. g. PCF for sensors, distributed sensors based on Brillouin or FBG,

Conclusion:

Personal impression: Some presentations of results or activities were delivered in the style of a conference presentation but less suitable for interaction

necessary to identify points of collaboration, to identify questions/problems to be investigated/solved using COST 299, need to link the application more strongly to the COST 299 experts community.

E.g.

- In *hollow core* fibers, applications are seen for sensing materials in the holes, spectroscopy can be done with very high sensitivity

- Non-conventional FBGs, long Period Bragg grating (Biochemical sensors)

- PCFs: Looking for specific applications (as example for collaboration in COST)

Option: to modify the COST WG structure/transfer some sensor expert into WG 4: clearer distinction between investigation/characterization of fibers/components and sensors and sensor related problems.

2. Guidelines, standardization:

- Clearly define terms to describe efficiency of HD fibres (Hotoleanu)
- Define terms and performance parameters for distributed temp sensors (Thévenaz)
- Define performance parameters for sensors based on Sagnac-Interferometers (Jaroszewicz)

Next steps:

- Send out SGs members list as pdf file, please check and add your name.
- Actualize names, addresses, ...