



Aalto University
School of Electrical
Engineering

Progress WP3 - Fluorescence



Contents



- **Progress according to tasks**
 - Task 3.1
 - Task 3.2
 - Task 3.3
 - Task 3.4

Task 3.1 Tools and techniques for geometrical calibration



	Deliverable number	Deliverable description	Lead Participant	Other Participants	Deliverable type	Delivery date
WP3	3.1.1 (REG(UA) D2.1)	Techniques for calibration of illumination/observation geometry with uncertainty of $\pm 0.1^\circ$ developed	CSIC	REG(UA), MIKES	Report	Nov 13
	3.1.2	Laser alignment device and precision adjustments of sample mountings with uncertainty of $\pm 0.1^\circ$, implemented	MIKES	CSIC	Device	Feb 14

Task 3.2 Comparison measurements of fluorescence

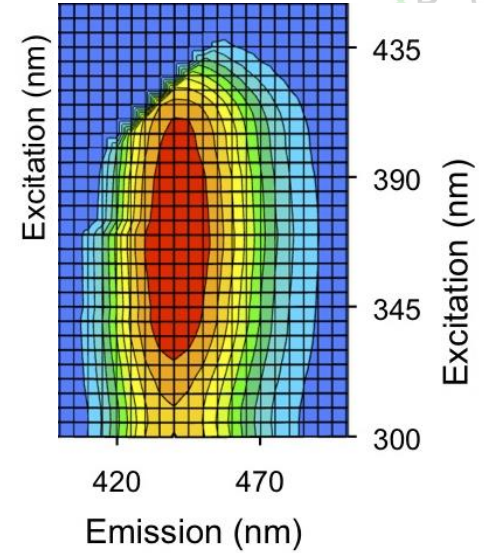
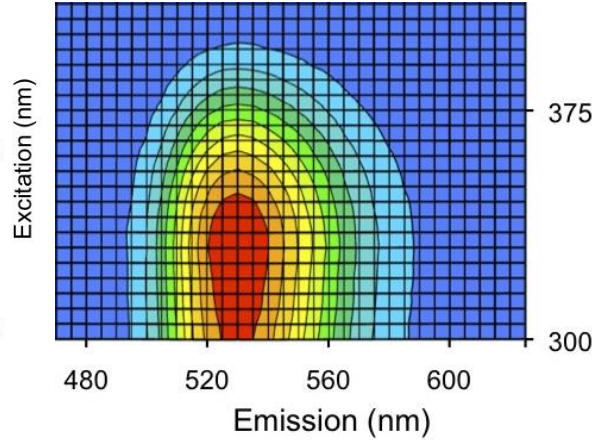
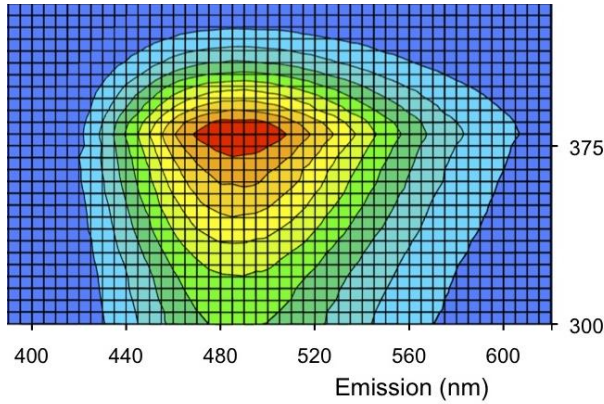


	Deliverable number	Deliverable description	Lead Participant	Other Participants	Deliverable type	Delivery date
	3.2.1	Results of measurements for three PTFE based fluorescence standards for luminescent and reflected spectral radiance factors at 4 angles of incidence between 0°, 15°, 30° and 45° and at least at 6 viewing angles between -85° and 85° in the wavelength range of 300 nm to 830 nm with uncertainty of 0.4 %	MIKES		Dataset	Apr 14
	3.2.2	Results of spectral diffuse reflectance of D3.2.1 standards for instrument geometry of 0°:45°, 0°:d and 8°:t with uncertainty of 0.4 %	CSIC		Dataset	May 14
	3.2.3 (REG(UA) D2.2)	Results of inter-comparisons among measurement geometries of 15°:75°, 30°:60°, and 45°:45° with the D3.2.1 standards	REG(UA)		Dataset	Jun 14
	3.2.4 (REG(UA) D2.3)	Comparison measurement results analysed with an uncertainty of 0.5 %	MIKES	CSIC, REG(UA)	Report	Aug 14

Task 3.2



Avian Fluorilon series

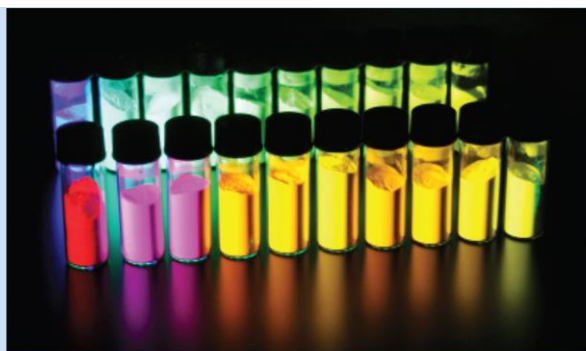


Labsphere Spectralon series

Task 3.3 New fluorescent standard materials



	Deliverable number	Deliverable description	Lead Participant	Other Participants	Deliverable type	Delivery date
	3.3.1 (REG(UA) D2.4)	Plan for selection, preparation, and fabrication of standard fluorescent artefacts written	MIKES	CSIC, REG(UA)	Document	Jan 14
	3.3.2	6 samples UV-activated chromatic and PTFE materials provided (Round 1)	MIKES		Artefact	Oct 14



isiphor® Phosphors cover the broad range of colors: from green to yellow to deep orange phosphor materials.

Lutetium Aluminium Garnet, doped with Cerium

Task 3.4 Translucency of thin sheets of standard materials



	Deliverable number	Deliverable description	Lead Participant	Other Participants	Deliverable type	Delivery date
	3.4.1	5 samples of thin sheets with varying thickness (1-10 mm) from a fluorescent material of selected standard	MIKES		Artefact	Nov 14