

## CIE TC08-10 October 24, 2006 meeting notes

Present: Todd Newman, János Schanda, David McDowell, Ann McCarthy, Phil Green, Yasuki Yamauchi, Eric Zeise, Byron Jordan, Danny Rich

1. Report from János on construction of the "Reference Source"  
Power supply plugs into 110-240 v power. Someone in US will have to get US standard cable and plug. Approx 100 lux is emitted from white LED source. *Should we use also color LEDs to test wavelength errors at extreme wavelengths?* YES - will also use a blue [if needed depending on the blue peak of the white LED], and a red LED to test wavelength accuracies at extremes. The metal frame will alternatively have a hole into which an irradiance instrument can be placed. In this case, the test person must of course measure exactly the distance from the LED source to the irradiance instrument so that distance calculations can be done.

Byron Jordan will send sheets of the non-fluorescent paper to János. Sheets of the paper are 20" square. Byron bought it some years ago. Each of us will use one or just one half sheet.

Byron will also send two fluorescent papers with whiteness 150 and 135, respectively. Those papers, when excited by D65 source, have a reflectance that is increased by the fluorescence factor by approx 30-40%. Byron has the beta matrix - excitation spectra of these. He feels that these papers are quite stable. The main requirement is to avoid humidity change extremes.

In the pilot study, we will each make measurements using the three papers: non-fluorescent, moderately fluorescent, and highly fluorescent papers. Using these papers will help us have an estimate of the UV end of the spectrum.

**UPDATED LED-based reference source shipping sequence:** [shipping information will say CIE round robin instrument and will state value \$10.00].

János → Todd  
Todd → Danny  
Danny → Ann  
Ann → Eric  
Eric → Yasuki  
Yasuki → Phil  
Phil → János

2. Review of the second draft of the guidelines.

We agreed to use the guideline in the pilot study in preparation for using it in the full study. We agreed that we will refine the questionnaire in the guideline as a result of the pilot study.

Actions remaining to create pilot study:

**János:** guideline on using the reference source

**Byron:** description of papers, send papers to János.

**Ann:** office template drawings

**Todd:** revised pilot guideline based on meeting results

**Todd:** CSV files are common from instruments - prefer using columns - provide a template. Also want the ID of the metadata file in the CSV file header. Also want to record the wavelength interval. Dave sent ISO draft of the CGATS17 format standard to Todd FYI.

**Todd:** pick up LED-based reference source from János.

**TBD:** Someone in US will have to get US standard cable and plug for the LED reference source.

Next meeting Nov 8 in Scottsdale, 12:20-1:20 pm.