

Minutes

UV LED Committee Meeting

March 12, 2015 – Redondo Beach , CA

The meeting was called to order, and the Anti-Trust Statement was reviewed. The meeting was led by co-chair Jo Ann Arceneaux, Allnex USA Inc. In attendance were 26 members.

Update on UV LED Measurement Effort with NIST

- Robin Wright of 3M and Jim Raymont of EIT are working with NIST on behalf of RadTech to better establish measurement standards for UV LED devices.
- Robin reported that NIST had acquired 2 systems (near field and optics) and 3 radiometers to work with, but due to other priorities they had not yet started the work. The work should start soon, and will be published as a blind study.
- Jim met with NIST in January to discuss the challenges with getting standards into radiometers. NIST has been working with mW LED lamps to date, but need to work with 20 W LED lamps. NIST will calibrate an EIT radiometer and make it traceable. The data will then be transferred into other radiometers.

UV LED Focus Group Projects – Our Purpose

- UV LED Curing Slides – Jennifer Heathcote, Marvin Ruffin, and Jo Ann Arceneaux volunteered to develop this for the RadTech website. They will include
 - Generic UV LED slides on the basics of UV LED technology and curing.
 - History of UV LED.
 - Information capable to be used across all markets.
- Potential Event Speaker – Dr. Shuhi Nakamura, University of Santa Barbara
 - In October, three Japanese-born scientists were awarded the Nobel Prize in Physics for inventing the blue light-emitting diode. Their work made UV LED curing possible.
 - Dr. NAKamura will be presenting the KeyNote at RadTech Asia.
 - David Harbourne will approach him through RadTech Japan.
- UV LED Handbook – collaborative edition
 - The industry has found the handbook helpful.
 - Jennifer Heathcote, Paul Mills, Gary, and Mickey will work on this.
- Case Studies and UV LED Demo
 - Brian Cavitt agreed to write up a case study based on a demo that 3D prints a 5 inch guitar, applies a clear coating, then cures with UV LED.
 - This will also be a demo at RadTech 2016. Previously made guitars (with magnets on the back) will be given away at the show.

UV LED Annual Survey

- After a long discussion, the group decided that a survey was not necessary.

Review of uv.eb WEST and Future RadTech Events

- The talks were well attended, and were complementary to each other. Very positive comments were heard from the show attendees.
- As an improvement for the future, have either a re-cap at the end from someone who has previously reviewed all of the presentations, or a panel discussion to answer audience questions.
- All agreed that a UV LED session should be held at uv.eb EAST. NIST results should be available for presentation at this time.

Other Business

- There was a long discussion on intellectual property (IP) issues around UV LED. It was felt that many end users did not have the resources to evaluate the IP space, and that perhaps this was a service that RadTech could provide to its members. It was agreed that this item would be brought before the RadTech Board. (At the Board meeting, the agreed path forward was to have a webinar or RadTech 2016 short course on how to do patent searches.)

The meeting was adjourned.