

SMART Commercialization Center for Microsystems

Lorain County Community College

EYE Lighting International

Northeast Ohio is home to the first EYE Lighting Super Acceleration UV Weathering Chamber located in an independent lab in the United States. Part of the Richard Desich SMART Commercialization Center for Microsystems, the SUV Chamber is a unique resource that provides important UV weathering data to industries such as paints, materials, and photovoltaics.

The SMART Center, located on the campus of Lorain County Community College, is an open-access resource to support customer needs in micro system packaging, reliability testing, and software simulation. In 2013, the SMART Center will move to a new 46,000 square foot facility currently under construction at Lorain County Community College (LCCC) in Northeast Ohio, and until that time the Center is open for business in a temporary home on LCCC's campus.

As part of its focus on reliability testing, the SMART Center is working with EYE Lighting International of North America to install a Super Acceleration UV Weathering Chamber, the SUV-W151, in the Fall of 2011. EYE Lighting's parent company has over 500 SUV system installations, but the SMART Center will be home to the first one located in an independent lab in the United States. EYE Lighting's North America division is headquartered in Mentor, Ohio, under an hour's drive from the SMART Center—given the proximity, and the unique model of the lab, EYE Lighting and the SMART Center are working together to provide customers the highest UV acceleration in the industry.



Since manufacturers in many industries are looking to design products to last 30 years or more in the field, it is critical to find ways to dramatically shorten the time it takes to simulate long life cycles of UV exposure. EYE Lighting's unique technology compresses years of detrimental UV radiation effects into just weeks of testing, allowing customers to quickly verify designs and significantly shorten product development time. The SUV-W151 system can generate 30 times natural sunlight UV energy (UVA/UVB) to provide acceleration factors greater than 100, depending upon the material under test. Spectral filtering cuts UV irradiation below 295nm to eliminate effects from UV irradiation not present in natural sunlight

The partnership between EYE Lighting and the SMART Center will provide this unique opportunity for companies, not only in the Midwest but located all over the United States, to take advantage of an accelerated technology that has become standard in other parts of the world. With open-access for all users on a fee-per-use basis, the SMART Center fills a much needed gap in the commercialization continuum. From growing industries such as PV, all the way to established materials and paint companies, the SUV chamber is an indispensable tool to shorten product development, and quicken the path to market.