

## **Lumetrics®, Inc. Presents Research on spherical aberration standards to Optics Community**

*David Compertore, scientist at Rochester-based Lumetrics Inc, presents latest findings on spherical aberration standards to the optics community at the 2013 OptiFab conference.*

Rochester, NY- December 4, 2013- The leading manufacturer of thickness measurement and non-contact measurement solutions, Lumetrics®, Inc. was selected to present at the prominent 2013 OptiFab conference and exhibition. David Compertore, Lumetrics scientist, presented his work on spherical aberration standards of intraocular lenses.

According to the National Eye Institute, by age 80, more than half of Americans have a cataract or have had cataract surgery. A cataract is a clouding of the lens that affects vision. “The majority of modern intraocular lenses are designed with an added correction for the inherent spherical aberration of the human cornea” explains David Compertore, Lumetrics scientist, “spherical aberration is a secondary optical property of all lens systems. The spherical aberration correction is designed to sharpen the focus on the patient’s retina and allow them to see added details.”

Compertore and Lumetrics engineers developed a method to provide a measurement standard for spherical aberration using standard lenses, existing tools, and a series of procedures. This process had not been thought of before and solved the problem of lack of calibration standards. Calibration tools are required by all processes in order to standardize in a manufacturing environment.

Compertore explains that this research is important because “manufacturers of intraocular lenses test each lens to confirm the prescribed amount of spherical aberration correction was properly fabricated into the lens.” The test equipment needs to be accurate, and “using our spherical aberration standards, the intraocular lens manufacturers assure the equipment meets the design and will work when inserted into the patient’s eye. Too much or too little spherical aberration may cause blurry vision and this is not easy to correct after the operation is completed.”

### **About Lumetrics**

For more than a decade, Lumetrics® has been providing installations of its OptiGauge™ thickness measurement system to hundreds of companies throughout the world, including 6 of the top 11 medical device manufacturers, the top four ophthalmics companies, and the largest glass manufacturers in the world. Lumetrics is known worldwide for its proven non-contact measurement system, OptiGauge™. With the recent addition of products acquired from Abbott Medical Optics, Lumetrics provides wavefront analysis of Intraocular and contact lenses, and laser beams in industry, government and independent research labs. Lumetrics’ systems are deployed in quality and R&D labs, and production floors providing real-time measurements to improve yield, reduce costs, improve quality and meet compliancy requirements. To find out what Lumetrics, Inc. can do for you, visit [www.Lumetrics.com](http://www.Lumetrics.com) .