



LIGHTWAVE LOGIC™

*For Further Information Contact:*

Jim Marcelli  
Lightwave Logic  
302-356-2717  
[jmarcelli@lightwavelogic.com](mailto:jmarcelli@lightwavelogic.com)

Paul G. Henning  
Cameron Associates  
212-554-5462  
[phenning@cameronassoc.com](mailto:phenning@cameronassoc.com)

### **Lightwave Logic Files Sixth Patent Application**

**Newark, Delaware – December 9, 2009:** Lightwave Logic, Inc. (OTC Bulletin Board: LWLG) a technology company focused on the development of the ‘Next Generation Electro-Optic Polymer Material Platform’ for applications in high speed fiber-optic telecommunications and optical computing, today announced the filing of its sixth patent application directed to its ‘Next Generation Electro-Optic Material Platform.’

Lightwave Logic, Inc. filed a provisional U.S. patent application directed to stable free radical Chromophores for use in non-linear optical applications. These new polymeric electro-optic materials have enormous potential in spatial light modulation and all-optical-signal processing (light switching light).

The improved Chromophore architectures should exhibit long-term thermal, chemical and photochemical stability as exhibited by the Company’s other electro-optic materials.

“This new application extends the range of our materials base and incorporates new analytical information learned in collaboration with several university groups. It provides us with a greater understanding of the base technology supporting our proprietary materials,” said David Eaton, CTO of Lightwave Logic. “We believe this new application can lead to a new class of materials for optical applications.”

#### **“Powered by Lightwave Logic”**

Lightwave Logic, Inc. is a development stage company that is producing prototype electro-optic demonstration devices and is moving toward commercialization of its high-activity, high-stability organic polymers for applications in electro-optical device markets. Electro-optical devices convert data from electric signals into optical signals for use in high-speed fiber-optic telecommunications systems and optical computers. Please visit the Company's website, [www.lightwavelogic.com](http://www.lightwavelogic.com), for more information.

#### *Safe Harbor Statement*

*The information posted in this release may contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. You can identify these statements by use of the words "may," "will," "should," "plans," "explores," "expects," "anticipates," "continue," "estimate," "project," "intend," and similar expressions.*



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*Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated. These risks and uncertainties include, but are not limited to, general economic and business conditions, effects of continued geopolitical unrest and regional conflicts, competition, changes in technology and methods of marketing, delays in completing various engineering and manufacturing programs, changes in customer order patterns, changes in product mix, continued success in technological advances and delivering technological innovations, shortages in components, production delays due to performance quality issues with outsourced components, and various other factors beyond the Company's control.*