



LIGHTWAVE LOGIC™

For Further Information Contact:

Jim Marcelli
Lightwave Logic
302-356-2717
jmarcelli@lightwavelogic.com

Paul G. Henning
Cameron Associates
212-554-5462
phenning@cameronassoc.com

Lightwave Logic Retains Perdix Inc. to Identify and Develop Specific Products for Our Unique High Growth Market segments for Lightwave's "Next Generation Electro-Optical Material Platform"

Newark, Delaware – August 5, 2009: Lightwave Logic Inc. (OTC Bulletin Board: LWLG) a technology company focused on the development of electro-optic polymer materials for applications in high speed fiber-optic telecommunications and optical computing, today announced that it has retained Perdix, Inc. to help identify and build prototype products for high growth potential target markets in fiber optic telecommunications systems. In addition Perdix will explore the desired electro-optic modulator specifications to supply cost effective systems for existing and planned systems.

"I have worked with Perdix, on and off, for more than a decade. I employed Perdix for similar study and design tasks when I was with for Essex, Corp, and have always been impressed with their capabilities," said Terry Turpin, Lightwave logic's Optical Computing Guru.

"We are pleased to be associated with Dr. Kenn Arnett, Director of Research for Perdix, Inc. Kenn's academic background is complemented by strong experience in project development in optoelectronics and acquired business savvy," said Dr. David F Eaton, CTO of Lightwave Logic. "His connections to the industry and funding agencies can benefit us and get us on a path to early success."

"With the expected delivery of our first phase modulator in the coming weeks, Lightwave Logic will focus on and target areas of potential adoption of our technology for specific solutions within fiber optic telecommunications systems," said James Marcelli, chief executive officer of Lightwave Logic. "Perdix can help us efficiently identify companies and trends which would be appropriate fits for our electro-optical material platform."

About Perdix Inc.

Incorporated in the State of Colorado in 1994, Perdix, Inc. provides engineering, research, and development services for government and industry in the optics and optics related industries. In addition to optical design, science, and technology, our specific strength is materials science as applied toward novel optical device design and development. .Perdix has significant expertise in the liquid crystal, polymer, nanocomposite, and nonlinear optical materials field. Additional information about Perdix Inc. can be found on the company's web site at www.perdix.com.

About Lightwave Logic, Inc.

Lightwave Logic, Inc. is a development stage company, moving toward prototype demonstration and 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



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optical signals for use in high-speed fiber-optic telecommunications systems and optical computers. Please visit the Company's website, 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. 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.