



***Add-Vision awarded STTR Phase-II grant from the U.S. Dept. of Energy (DOE) to undertake degradation studies of printed P-OLEDs with Lawrence Berkeley National Laboratory.***

**SCOTTS VALLEY, California USA, August 26, 2008**

Add-Vision, Inc. (AVI) announced today that it has been awarded a Phase-II Small Business Technology Transfer Program (STTR) grant from the U.S. Department of Energy. The two-year research program commences October 2008 and is entitled “Materials Degradation Analysis and Development to Enable Ultra Low Cost, Web-Processed White P-OLED for Solid State Lighting (SSL).” This DOE STTR Phase-II project is funded in the amount of \$748,258 and follows successful completion of research objectives in Phase-I carried out by AVI and a research team led by Dr. John Kerr at Lawrence Berkeley National Laboratory (LBNL).

Under the Phase-I of the project, the research teams successfully uncovered important degradation factors that until very recently had limited performance of doped P-OLEDs fabricated by low cost print processing. By addressing these issues, AVI demonstrated nearly a 5-fold improvement in operating lifetime and 2-fold improvement in power efficiency performance for printed P-OLED devices. Building upon the initial success of Phase-I, AVI will combine its expertise in printed P-OLED materials, device fabrication and encapsulation technology with the materials analysis capabilities of LBNL to further increase the efficiency performance of printed P-OLED and demonstrate product feasibility for specialty SSL applications. The Phase-II project includes intensive analytical investigations to uncover next performance limitations of printed P-OLEDs; further developments of air-processed LEP, cathode and novel gettering technologies; product demonstrators, technology transfer, and process scale-up with manufacturing and product development partners by conclusion of Phase-II.

Dr. Devin MacKenzie, Add-Vision’s CTO responded, “The DOE has established aggressive performance targets for emerging lighting technologies in the SSL industry. They have also acknowledged the importance of cost effective manufacturing technology for SSL. We are excited to receive continued support from the DOE, and look forward to collaborating more closely with LBNL to further advance that state-of-the-art of fully printed P-OLED technology. We hope that this brings about successful early adoption of OLED in entry SSL applications. Add-Vision has developed a unique approach to OLED device structure and manufacturing technology. It is uniquely able to offer high efficiency SSL devices that are thin, lightweight, flexible and require minimal capital investment to commence manufacturing scale up.”

#### **About Add-Vision, Inc.**

AVI is a pioneer in the development of polymer organic light-emitting diode (P-OLEDs) technology for use in low-resolution displays and specialty lighting applications produced on low cost printing equipment. Headquartered in Scotts Valley, California (USA), AVI is backed by a syndicate of strategic investors.

#### **About Lawrence Berkeley National Laboratory (LBNL)**

LBNL (Berkeley Labs) has been a leader in science and engineering research for more than 70 years, and is the oldest laboratory of the DOE’s National Laboratory system. Berkeley Labs conducts unclassified research across a wide range of scientific disciplines, including quantitative biology, nanoscience, new energy systems and environmental solutions.

#### **Editorial Contact**

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