



Light. Power. Circuitry.

Plextronics Company Overview



Headquartered in Pittsburgh, PA, Plextronics, Inc. is an international technology company that specializes in printed electronics, specifically printed organic solar technology and energy efficient lighting.

the high cost of these technologies has made them uncompetitive. At a small fraction of the cost of those technologies, OPV can play a critical role in addressing the world's ever-expanding energy needs.

Printed Electronics & Plextronics

Printed electronics is a relatively new technology that enables the printing of electronic devices on common materials such as paper, plastic and glass. To recognize the potential impact of Plextronics' technology, it's important to understand the fundamental business opportunities surrounding the industry. According to industry analyst IDTechEx, the total printed electronics market in 2008 was approximately \$1.6 billion — that same market is expected to exceed \$300 billion by 2028.

Organic Lighting

For both lighting and flat panel display applications, Plextronics' OLED technology can play a significant role in improving existing technology. OLED lighting promises lower cost and better quality compared to even the most efficient compact fluorescents. For displays, OLED allows for thinner, brighter and more energy efficient displays that are less expensive than their LCD counterparts.

Plextronics' primary products are conductive and semi-conductive inks that can be used to print electronic devices — including organic photovoltaics (OPV) and organic light emitting diodes (OLED) — using low-cost manufacturing techniques. Our technology is currently being evaluated by industry leaders and companies worldwide for use in commercial-scale manufacturing.

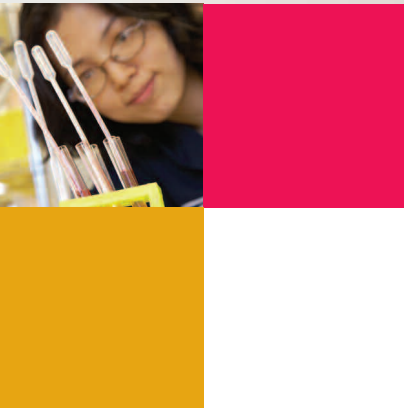
About Us

Plextronics is a privately held company with select strategic investors and corporate partners. Some of the United States' most prominent venture capital firms have invested in the company, and world business leaders such as Solvay and Applied Materials are among our corporate investors.

Organic Solar Power

Specific to printed OPV applications, one of our goals is to enable the commercialization of low-cost solar power. In recent decades, the power generation industry has experienced new renewable energy options based on silicon photovoltaics, wind and hydrogen power, but

Founded in 2002 as a spinout from Carnegie Mellon University, the company's products are based upon conductive polymer technology developed by Dr. Richard McCullough. Over the past seven years, our scientists have amassed an intellectual property portfolio that includes more than 150 patent applications and issued patents as they further refine and develop the technology to deliver exceptional performance.



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Company Milestones

<p>August, 1990 Richard McCullough joins Carnegie Mellon University (CMU) to solve commercialization issues of conductive polymers</p> <hr/> <p>January, 1992 Discovery of regioregular-polythiophenes at CMU</p> <hr/> <p>December, 2000 First McCullough conductive polymer patent issued</p>	<p>March Plextronics relocated to UPARC Industrial Center (Pittsburgh, PA)</p> <hr/> <p>November First light (Organic Light Emitting Diode [OLED])</p> <hr/> <p>December First power (Organic Photovoltaic [OPV])</p>	<p>May Licensed Northwestern University patent portfolio</p> <hr/> <p>August Andy Hannah appointed to Board of Directors, PA Nanomaterials Commercialization Center</p> <hr/> <p>Plextronics closes Series A funding round with leading Venture Capitalist firms</p>	<p>September Wall Street Journal Technology Innovation Award Runner-up</p> <hr/> <p>October National Renewable Energy Laboratory (NREL) Clean Energy Entrepreneur of the Year</p> <hr/> <p>Organic Semiconductor Industry Start-up of the Year Award</p> <hr/> <p>November Top 50 Nanotechnology Start-up by Lux Research</p>	<p>April Plextronics profiled on "The NewsHour with Jim Lehrer" on PBS</p> <hr/> <p>June Introduced OPV ink systems for the first time (Plexcore® PV)</p> <hr/> <p>September Chosen by AlwaysOn as one of the GoingGreen Top 100 Winners</p> <hr/> <p>October Co-hosted with NREL and DOE the first International Summit on Organic Photovoltaic Stability (ISOS)</p> <hr/> <p>Awarded \$1.2 million in government funding for flexible printed electronics with the U.S. military</p>	<p>December Named one of the Best Places to Work in Pennsylvania for 2008</p> <hr/> <p>Awarded the 2008 Technical Development Materials Award by IDTechEx for the launch of Plexcore® PV</p> <hr/> <p>Plexcore® OC ink was shown to improve the performance of certain P-OLED devices in testing data from Cambridge Display Technology, Inc. (CDT).</p>
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1990–2000

2004

2002–2003

2006

2008

2005

2007

2009

July, 2002
Company founded & incubated at CMU

August, 2002
Licensed CMU conductive polymer patent portfolio

November, 2003
Plextronics closes first early investment round

August–June 2006
Research contracts with Pennsylvania Department of Environmental Protection/PA Energy Development Authority (DEP/PEDA)

September
Shipment to first customer PolyIC

December
Plextronics OPV development program implemented

March
Andy Hannah appointed Board of Directors, Organic Electronics Association Flexible Electronics Research Initiative (FERI) with the U.S. Army Research Laboratory (ARL) research contract begins

First fabrication of 6" x 6" printed solar panel on glass

May
Red Herring 100 North America

July
Achieved world record in Organic Solar Power Efficiency = 5.4%

August
Plextronics closes \$20.6 million Series B financing, Solvay leads round with \$10 million investment

September
NREL Solar America Initiative (SAI) research contract begins

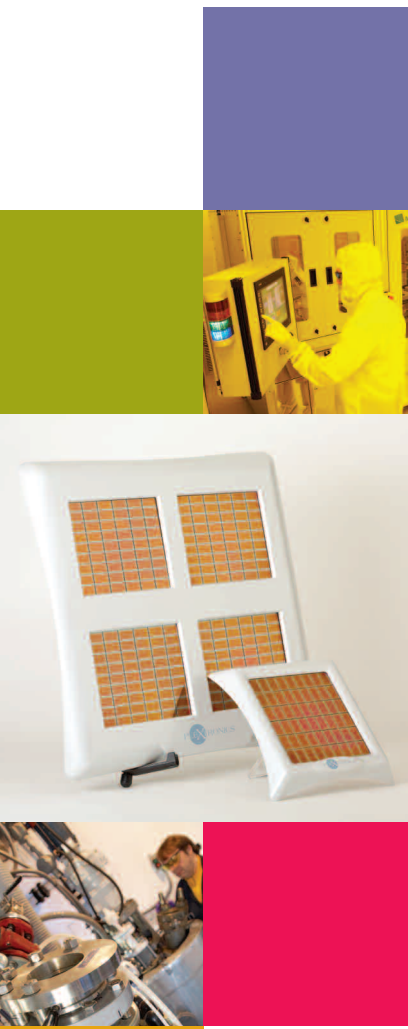
November
Plextronics receives a strategic investment by Applied Ventures, LLC, the venture capital arm of Applied Materials, Inc.

Andy Hannah was selected by IDTechEx as the 2007 Printed Electronics Champion

January
Opened the company's first pilot manufacturing development line

March
Named a 2009 GoingGreen East 50 Private Company by AlwaysOn

Key Executive Hirings	Company Growth
<p>Fall 2003 COO, Glenn Thompson</p> <p>May 2004 VP, Products, Troy Hammond</p> <p>August 2004 VP, Technology, Shawn Williams</p> <p>January 2006 CFO, Sean Rollman</p> <p>March 2007 VP, Business Development, Jim Dietz</p> <p>June 2009 VP, Operations, Mike Woolston</p>	<p>First year (2002) Number of employees = 4 (2 PhDs)</p> <p>Fall 2005 Number of employees = 20 (8 PhDs)</p> <p>January 2008 Number of employees = 50 (20 PhDs)</p> <p>January 2009 Number of employees = 66 (23 PhDs)</p>





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For more information about Plextronics, please visit www.plextronics.com or contact our sales team at 412-423-2030 (and select the sales option) or sales@plextronics.com.

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