

## Quantum Materials Corp Achieves Milestone in High Volume Production of Quantum Dots

June 27, 2011 -- Quantum Materials Corporation (OTC Bulletin Board: [QTMM - News](#)) and the Access2Flow Consortium of the Netherlands today announce that continuous production of Tetrapod Quantum Dots has been achieved using its proprietary micro reactor technology. Processes for producing quantum dots and tetrapod-shaped quantum dots of various sizes delivers on the promise of this technology to tailor-make material at commercial quantities for a variety of emerging applications such as Solterra Renewable Technologies' solar panels, displays, lighting, and medical diagnostics.

Currently, one of the lab scale reactors is capable of producing approximately 10 grams of quantum dots per week. Commercially relevant, the inherent design now allows for large-scale parallel modules to achieve target production rates of multiple kilograms per day, in a regulated, optimized system. This breakthrough in production process not only enables the low cost, high volume production of quantum dots, but also provides flexibility in the choice of materials used to produce the quantum dots including heavy metal free (Cadmium Free) quantum dots and other biologically inert materials.

Quantum dots have been widely recognized for their potential in next generation display technologies, solar cells, LED's, OLED's, computer memory, printed electronics and a vast array of security, medical and energy storage applications. According to research group BCC Research, the 2010 global market for quantum dots was estimated \$67 million in revenues, and is projected to grow quickly over the next 5 years at greater than 50% per year reaching almost \$670 million by 2015.

Quantum Materials now offers that it is possible for manufacturers to realistically test the advantages of quantum dots to establish higher performance benchmarks across a number of industries and product applications. Many discoveries have literally been held back by the difficulty in manufacturing quantum dots, the lack of quality and uniformity of quantum dots, and the corresponding high cost, with the current average cost of quantum dots running being between \$2500 and \$6000/gram. This technology removes the roadblock from widespread adoption of the quantum dot as a basic building block of technology and services much like the silicon chip that has ubiquitously advanced corporate function and consumer lifestyles worldwide.

“Our goal from the onset has been to achieve a production rate of 100kg per day with a 95% or greater yield,” according to Stephen Squires, Founder and CEO of Quantum Materials Corporation. He added that with this breakthrough QMC has coupled two disruptive technologies resulting in the potential to now achieve that goal.”

According to QMC's Chief Technical Officer, Dr. Bob Glass “Besides the scalability indicated, in my opinion, the truly remarkable accomplishment in this breakthrough is its adaptability to other inorganic metals and elements, including cadmium-free Quantum Dots.”

### About Quantum Materials, Inc., Solterra Renewable Technologies, Inc. & Access2Flow

QUANTUM MATERIALS CORPORATION has a steadfast vision that advanced technology is the solution to global issues related to cost, efficiency and increasing energy usage. Quantum dot semiconductors enable a new level of performance in a wide array of established consumer and industrial products, including low cost flexible solar cells, low power lighting and displays and biomedical research applications. Quantum Materials Corporation intends to invigorate these markets through cost reduction and moving laboratory discovery to commercialization with volume manufacturing methods to establish a growing line of innovative high performance products. (<http://www.qdotss.com>)

SOLTERRA RENEWABLE TECHNOLOGIES, INC. is singularly positioned to lead the development of truly sustainable and cost-effective solar technology by introducing a new dimension of cost reduction by replacing silicon wafer-based solar cells with high-production, low-cost, efficient Quantum Dot-based solar cells. Solterra is a wholly-owned subsidiary of Quantum Materials, Inc. (<http://www.solterrasolarcells.com>).

ACCESS2FLOW is a consortium of FutureChemistry, Flowid and Micronit Microfluidics (<http://www.micronit.com>) based in the Netherlands. Access2Flow produces technology for converting small laboratory processes or “beaker batches” to full scale optimized “continuous flow chemistry.” (<http://www.access2flow.com>)

FUTURECHEMISTRY HOLDING BV translates conventional chemical reactions to flow chemistry processes and develops its own microreactor hardware for optimizing and screening chemical reactions. Flow chemistry equipment is becoming an important laboratory tool for every chemist. (<http://www.futurechemistry.com>)

FLOWID BV is an engineering company specialized in advanced reactor technology for the chemical and pharmaceutical industries. Next generation reactor technology enables a faster and more cost-effective

development of new and improved products and production processes. Flowid has the expertise to successfully implement production plants based on innovative reactor technology. (<http://www.flowid.com>)

Safe Harbor statement under the Private Securities Litigation Reform Act of 1995

This press release contains forward-looking statements that involve risks and uncertainties concerning our business, products, and financial results. Actual results may differ materially from the results predicted. More information about potential risk factors that could affect our business, products, and financial results are included in our annual report and in reports subsequently filed by us with the Securities and Exchange Commission ("SEC"). All documents are available through the SEC's Electronic Data Gathering Analysis and Retrieval System (EDGAR) at <http://www.sec.gov/> or from our website. We hereby disclaim any obligation to publicly update the information provided above, including forward-looking statements, to reflect subsequent events or circumstances.

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