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nanostructured carbon
materials that power our world

Unidym and Nano-C Enter Exclusive License Agreement for Fullerene Derivatives Used in Solar Cells

Sunnyvale, CA - December 2, 2009 - Unidym, Inc., a majority owned subsidiary of Arrowhead Research Corporation (NASDAQ: ARWR), announced today that it has entered an exclusive license agreement with Nano-C for patents covering fullerene derivatives. The license provides Nano-C exclusive rights to U.S. Patent No. 5,739,376 and foreign counterparts in the field of photovoltaics.

In recent years, researchers and companies seeking to commercialize novel thin film Organic Photovoltaic (OPV) solar technologies have focused on using fullerene derivatives as the n-type semiconductor in bulk heterojunction organic solar cells. The use of fullerenes as the electron acceptor and transporter results in higher quantum efficiencies of the cells.

"The '376 patent family covers many of the fullerene derivatives used in OPV, including the widely used C_{60} and C_{70} PCBM compounds," stated Viktor Vejins, CEO of Nano-C. "We are delighted to add this patent to our growing IP portfolio, which further strengthens our position in fullerene manufacture, purification, separation and derivatization. As a fully integrated supplier, the exclusive rights obtained by Nano-C under this agreement will benefit our customers as they commercialize OPV-based devices."

"We chose to execute this license agreement because we believe Nano-C is the leader in fullerene technology and products for the emerging thin film solar industry," stated Mark Tilley, CEO of Unidym. "We are pleased to enable Nano-C to unleash the potential of modified fullerenes in thin film solar."

Unidym will also cooperate with Nano-C to supply a variety of patented derivatives to customers for uses beyond Photovoltaics. This cooperation will expand the market for devices that use this family of patents. Terms of the agreement were not disclosed.

About Unidym, Inc.

Unidym is a leader in carbon nanotube-based transparent, conductive films (TCFs) for the electronics industry. TCFs are a critical component in devices such as touch panels, displays, and thin-film solar cells. For example, both touch panels and LCDs typically employ two TCF layers per device. Unidym's TCFs offer substantial advantages over the incumbent technology, indium-based metal oxides, including: improved durability, lower processing costs, and lower overall cost structure. For more information, visit: http://www.unidym.com.

About Nano-C, Inc.

Nano-C is a leading developer of nanostructured carbon materials, including fullerenes, carbon nanotubes and their chemical derivatives. Founded in 2001, Nano-C's mission is to play a key role in enabling applications of these nanostructured carbon materials and is committed to their responsible development and use. Nano-C is a privately held company located in Westwood, Massachusetts. For more information, visit: http://www.nano-c.com.

Contact:
John Miller
Unidym, Inc.
408-636-7500
pr@unidym.com

Contact:
Viktor Vejins
Nano-C, Inc.
781-407-9417
nanocinfo@nano-c.com