

## What's New in the World of Superconductivity (June)

### Power

#### **American Superconductor Corporation (June 5, 2006)**

American Superconductor Corporation (AMSC) has announced that its Power Electronic Systems business unit has secured US \$9 million in new orders. When combined with its existing backlog, these orders are expected to yield more than \$20 million in sales for this business unit during the current fiscal year, an increase of approximately 35% compared with the previous fiscal year. At this level of revenue, the business unit should become profitable this year. The new orders received during the present quarter were for D-VAR® and PQ-IVR™ power electronics-based solutions for wind farms, electric utilities, and the semiconductor manufacturing industry.

Source:

“American Superconductor Reports \$9 Million Increase in Power Electronic Systems Orders”

American Superconductor Corporation press release (June 5, 2006)

[http://phx.corporate-ir.net/phoenix.zhtml?c=86422&p=irol-newsArticle\\_Print&ID=868526&highlight](http://phx.corporate-ir.net/phoenix.zhtml?c=86422&p=irol-newsArticle_Print&ID=868526&highlight)

#### **Intermagnetics General Corporation (June 15, 2006)**

Royal Philips Electronics has signed a definitive agreement with Intermagnetics General Corporation to acquire Intermagnetics for approximately \$1.3 billion in cash. The Board of Directors of Intermagnetics unanimously approved the transaction; completion of the transaction will be subject to the approval of Intermagnetics' shareholders. Philips expects that its acquisition of Intermagnetics will strengthen its position in the MRI market, allowing it to rationalize its supply chain, enhance its competitive position, and participate in the growing market for RF coils. Philips has also recognized the benefits offered by the breakthrough technology being developed by SuperPower and is considering the most effective way to achieve the potential of this technology. The Intermagnetics headquarters in Latham, New York, will become the global headquarters of Philips' enlarged MRI business.

Source:

“Philips to Acquire Intermagnetics, the World's Leading MRI Components and Accessories Manufacturer”

Intermagnetics General Corporation press release (June 15, 2006)

<http://phx.corporate-ir.net/phoenix.zhtml?c=88261&p=irol-newsArticle&ID=872776&highlight>

#### **HTS-110 (June 22, 2006)**

New Zealand's Minister of Economic Development, Trevor Mallard, recently visited HTS-110. The company is one of several to receive governmental support from a Venture Investment Fund (VIF), a government scheme for assisting innovative New Zealand firms during their early stages of development. “In its two years of operation, HTS-110 has developed products for customers in the United States, Japan, Europe, Taiwan and Korea. Earlier this year,

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the company also entered a partnership with US-based Progression Inc to provide buyers with HTS magnet capability," commented Mr. Mallard. HTS-110 has increased its annual revenue to NZ \$1.7 million and expects to break even this year. Five years from now, the company expects to have an income of around \$70 million.

HTS-110 has also received about \$2 million in funding from the Foundation for Research and Science and Technology (FRST). FRST expects to commit another \$1 million to the company over the next two years.

Source:

"Govt venture capital assists high technology firm"

New Zealand Government press release (June 22, 2006)

<http://www.hts-110.com/news/coverage/government-venture-capital.html>

## Communication

### ISCO International, Inc. (June 14, 2006)

ISCO International, Inc. has announced that its next-generation *digital* Adaptive Notch Filter™ (*dANF*) technology is now available to the wireless industry. The new technology utilizes adaptive interference identification techniques to mitigate the effects of dynamic interference in wireless networks, integrating digital signal processing and characterization with ISCO's patented ANF filtering techniques in a Linux-based system architecture. The *dANF* can identify, prioritize, and suppress up to three random and dynamic interference signals within the receive bands of mobile communication systems. These in-band interference signals are extremely difficult to control using conventional means. The *dANF* also has superior cost performance and time-to-market advantages over existing solutions and can serve as the foundation for future applications of software-based filtering in WiMax and other fourth-generation wireless systems. The *dANF* technology is compatible with all spread spectrum-based wireless technologies, including CDMA, UMTS, and WiFi.

Source:

"ISCO's digital Adaptive Notch Filter (*dANF*) Technology Restores Capacity, Coverage, and Data Throughput for Wireless Networks"

ISCO International, Inc. press release (June 14, 2006)

<http://www.iscointl.com/news.htm>

### ISCO International, Inc. (June 15, 2006)

ISCO International, Inc., has provided a quarterly business update in which they announced the receipt of more than US \$3.5 million in customer purchase orders during their second quarter to date. ISCO expects to ship the majority of these orders within the quarter but will carry some backlog going into their third quarter as a result of the ongoing demand for all of their product lines, particularly their ANF family of products. In addition, ISCO has agreed, in principle, to a convertible debt transaction with its two largest shareholders and lenders (including affiliates). The agreement, valued at \$5 million, will be in the form of loans that are convertible into ISCO common stock at a fixed rate. The new financing will be used for the further development of ISCO's digital ANF™ platform, enabling the company to expand its

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product line to meet the needs of customers for different frequency bands and technologies. In particular, the funds will be used to develop a fully software-based 'in-band interference elimination' platform. Commercial deliveries of the new products are expected to occur before the end of the year.

Source:

"ISCO International Announces Strong Quarterly Bookings and New Financing To Accelerate Strategic Product Initiatives"

ISCO International, Inc. press release (June 15, 2006)

<http://www.iscointl.com/news.htm>

(Akihiko Tsutai, Director, International Affairs Department, ISTECC)

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