

**CYPRESS SEMICONDUCTOR AND ISONICS CORPORATION  
SIGN SILICON-28 R&D AGREEMENT**

SAN JOSE, Calif., July 19, 1999...Cypress Semiconductor (NYSE: CY) and Colorado-based Isonics Corporation (OTC Bulletin Board: ISON) announced today that they have signed a joint research and development agreement to explore the use of isotopically pure silicon-28 in semiconductor memory devices. The joint program calls for Cypress to produce 0.25 micron CMOS memory devices on isotopically pure silicon-28 wafers supplied by Isonics and compare the performance of these devices with those made on natural silicon wafers. Results are expected to be available in 9 to 12 months.

According to Cypress Vice President of Research and Development Jose Arreola, "As memory speeds become greater, our goal is to define the best possible manner to manage that speed without the resultant heat becoming a performance issue. The use of silicon-28 wafers has very real possibilities in this area and is an avenue that we are eager to explore."

Laboratory tests have shown that isotopically pure silicon-28 has 50 percent higher thermal conductivity than natural silicon. Isonics believes that the improved thermal conductivity of silicon-28 will facilitate the manufacture of higher density integrated circuits resulting in increased performance and improved chip yields. The attractiveness of silicon-28 is that while it has improved properties over standard silicon, it can be used without any changes in existing semiconductor manufacturing processes.

Dr. Stephen J. Burden, Isonics' Vice President of Semiconductor Materials, commented, "Isonics is encouraged that Cypress has recognized the potential advantage that silicon-28 could provide their products. We believe the better thermal conductivity of silicon-28 will favorably impact the performance of next generation memory technologies, such as direct Rambus DRAM."

James E. Alexander, Isonics' President & CEO, stated, "Now that Isonics has secured relevant patents covering silicon-28 devices and has established a road map for production scale-up of the technology, we are proceeding to establish relationships with manufacturers in many segments of the industry to evaluate silicon-28 in actual products. Our plans call for substantially increasing our epitaxial wafer capacity in 1999 and producing the first bulk 200 mm silicon-28 wafers in mid-2000."

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On April 12, Isonics announced that it had entered into a licensing agreement with Yale University that entitles the Company to exclusive intellectual property rights to patents covering semiconductor devices derived from isotopically engineered materials. These patents cover silicon, germanium, gallium arsenide and most other isotopically pure semiconductors and are the basis for Isonics' silicon-28 wafer development and commercialization.

Cypress Semiconductor Corporation is an international supplier of high-performance integrated circuits with worldwide headquarters in San Jose, California. The company provides a broad range of products for leading computer, networking, and telecommunications companies worldwide. The company's product line includes static RAMs, high-speed PROMs, and specialty memories; programmable logic devices (PLDs); data communication products; and timing devices and USB microcontrollers. Cypress shares are listed on the New York Stock Exchange under the symbol "CY." The company has a site on the worldwide web at <http://www.cypress.com>.

Isonics is an advanced materials and technology company which develops and commercializes products based on enriched stable isotopes. Stable isotopes can be thought of as ultra-ultra pure materials. This high degree of purification provides enhanced performance properties compared to normal materials. Stable isotopes have commercial uses in several areas, including energy; research, medical diagnostics, and drug development; product tagging and stewardship; semiconductors; lasers; and optical materials. For more information on silicon-28 and other Isonics products, please visit the Isonics web site at <http://www.isonics.com>.

The above news release contains forward-looking statements regarding the impact of the acquisition on Cypress's operating results. Cypress's actual results may vary materially from the results discussed in these forward-looking statements. Factors that may cause such a difference include: those risks surrounding timely development, production and continued increased market acceptance of the combined companies' products; Cypress's ability to successfully combine the operation of the two companies; the ability of the combined company to compete in the highly competitive and rapidly changing marketplace; and the other risks detailed from time to time in Cypress's periodic reports with the

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Securities and Exchange Commission, including, but not limited to, its report on Form 10-K for the fiscal year ended January 3, 1999 and its Form 8-K filed in connection with this acquisition.

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