

For Immediate Release

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**Impulse Devices Receives \$4 Million in Equity Funding**  
Leading Company in "Sonofusion", an Alternative Energy

Grass Valley, CA, Oct. 21, '04 -- Impulse Devices Inc., the leading developer of sonofusion (acoustic inertial confinement fusion, AICF), today announced receipt of over \$4 million in additional equity financing from private investors in New York, Houston and San Francisco.

"This investment is a milestone for our company and for the world's quest to find a safe, low cost, practical alternative to all of today's energy sources," said Mark Ludwig, CEO. "Sonofusion, the popular term for AICF, has potential for extracting enough energy from a liter of heavy water to heat, cool, and provide electricity for a typical house for about 20 years."

Impulse Devices' (IDI's) goal is to produce electricity from fusion energy at less than half the cost of conventional electric power generation without the use of non-renewable fossil fuels.

IDI designs and manufactures AICF reactors, initially for research activities in National Laboratories and major universities. And, the company studies the science of AICF to generate the most energy from the least raw material.

Ludwig added, "This new capital will enable us to complete prototype reactors with appropriate instrumentation and to file a number of new patents yet this year." The company already has developed a broad array of intellectual property in its field.

IDI's Acoustic Fusion

Controlled fusion has been pursued by scientists worldwide for some 50 years because it can produce clean, inexpensive and unlimited energy. It could solve the problems of global warming and reliance on fossil fuels, which are in limited supply. For conventional fossil fuel electricity generation, the fuel expenditures comprise 80 percent of the cost basis. For fusion, the fuel (heavy hydrogen) is ubiquitous and effectively free. The technical barrier in using this plentiful fuel has been the extremely high temperatures needed to "burn" it.

This type of fusion requires generating and confining plasmas at temperatures hotter than the center of the sun, which Impulse Devices accomplishes by imploding a liquid upon a gas that contains isotopes of hydrogen.

The initial IDI market is part of the more than \$2 billion will be spent this year on fusion research.

"We believe we have already accomplished significant advances in developing acoustic ICF reactors. These reactors -- as opposed to other controlled fusion reactors -- require the least

capital for development and deployment, are the least complex, and are potentially just years away from the energy market, rather than decades,” said Ross Tessien, the company’s Chairman, President and Founder.

IDI’s unique approach to fusion is called sonofusion, a variant of sonoluminescence, in which sound (or other energy) waves bombard a liquid to create tiny void “bubbles”. The bubbles grow and collapse violently to generate a flash of light and enormous heat and when hot enough, fusion energy.

Impulse Devices, Inc. welcomes partnerships and alliances with major research and development as well as commercial organizations. For more information, contact Mark Ludwig, [mludwig@impulsedevices.com](mailto:mludwig@impulsedevices.com), CEO, or Ross Tessien, [rtessien@impulsedevices.com](mailto:rtessien@impulsedevices.com), at IDI, Grass Valley, CA.

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