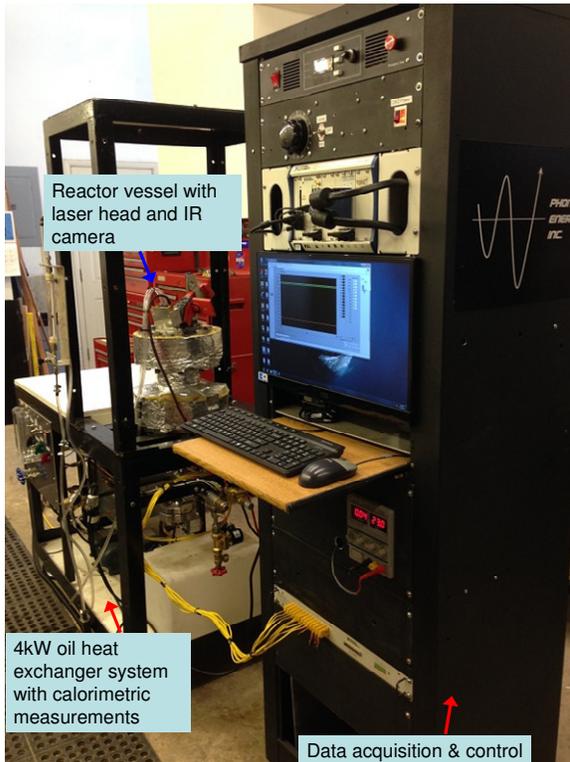## Laser Collaboration with LENR Technology

We are seeking a collaboration to expand the frequency range of our Infra-Red (IR) laser excitation process that is used to generate excess heat in a Low Energy Nuclear Reaction (LENR) research reactor (below).

Previous experimentation by D. Letts and P. Hagelstein (MIT) showed that excess heat was generated in deuterium-loaded palladium foils when illuminated at specific laser frequencies. http://www.lenr-canr.org/acrobat/LettsDstimulatio.pdf

Reactor vessel with laser head and IR camera

4kW oil heat exchanger system with calorimetric measurements

Data acquisition & control

We at Phonon Energy are taking the next step in producing excess heat via a more affordable hydrogen-loaded nickel powder and IR laser process. Our team has already demonstrated one excess heat event with our fixed frequency IR laser, and now desire to work with a partner to explore the entire IR laser range from 700 to 1300nm.

Phonon-Energy, Inc. is a private non-profit organization that is demonstrating LENR technology for commercialization. We are located in the Puget Sound and have assembled a team of 17 engineers, alternative energy experts, business entrepreneurs, university researchers, and others, from diverse backgrounds and nationalities. We believe that humankind is on the cusp of seeing a revolution in this alternative energy technology. LENR will benefit industry, private homes, and global communities who lack access to clean, affordable energy.

We envision a partnership where Phonon will provide the LENR test rig, data acquisition system, supporting equipment, expertise, and labor to be located at the partner's lab. The partner will provide access to their existing variable frequency IR laser (5 watt min.), supporting services to operate the laser, measurement equipment, and any labor needed for pointing/alignment of the beam. We will be seeking grants for the partner.

Please contact me about your interest in this exciting collaborative opportunity.

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