

Public Announcement

On Thursday, October 22nd, 2015 (10:30 AM PDT), Sveinn Ólafsson of the Science Institute, Physics Department, University of Iceland will present a 40 minute seminar/colloquium at SRI International (SRI, founded as Stanford Research Institute) in Menlo Park, California, entitled, "Ultra-dense Hydrogen and Low Energy Nuclear Reactions" (LENR), representing research he has conducted with Leif Holmlid from the University of Gothenburg, Sweden. The talk will be geared towards a scientific/technical audience but Sveinn will make every effort to address those that have little or no previous knowledge of Muon/Particle Detection and Ultra-dense Hydrogen. For about 10 minutes after Sveinn's presentation, Alan Goldwater representing the Martin Fleischmann Memorial Project (MFMP, headed by Bob Greenyer), will present experimental work/techniques being conducted on reproducing/replicating results obtained from researchers such as Andrea Rossi & Alexander Parkhomov. The final 10 minutes of the 1 hour long colloquium will be open to asking questions.

Although there is no direct evidence at this time that Ultra-dense Hydrogen/Materials are responsible for the replication attempts being conducted by MFMP, the project is closely considering these possible materials in their ongoing open-ended research, as a cause of anomalous heat in replicating those experiments, amongst other explanations. So far, there is no conclusive evidence of anomalous heat by MFMP.

Originally, these talks were planned to be held at IBM's Almaden Research Center in San Jose, CA hosted by myself, but a change in venue has occurred and Fran Tanzella at SRI International has graciously accepted hosting the talks there.

If you would like to attend the colloquium, Fran says the conference room is available directly from a parking lot outside the SRI fenced area. Since the conference room holds ~75 people we don't think space will be an issue, however if you e-mail me with your name/etc. I will eventually pass on a list of names of attendees (responding back to you) to Fran. An arrival time of around 10 AM should be appropriate. Here is a Google Maps link (870 Laurel St., Menlo Park) at the entrance to SRI's Building G parking lot:

<https://www.google.com/maps/place/870+Laurel+St,+Menlo+Park,+CA+94025/@37.4552459,-122.176274,18z/data=!4m2!3m1!1s0x808fa4ad8270a115:0xcff2fac60e770ffe>

Attendees should NOT come to either the front desk (333 Ravenswood Ave.) or the employee entrance. If there is no parking in the Building G parking lot there usually is some across the street at the Menlo Park city parking lot.

Here are identical links to the actual SRI International Announcement of the CML Seminar (Room G-124) that has been posted locally (courtesy of Fran & attached to the end of this document if in PDF Form):

http://WWW.MagicSound.US/Seminar - Olafsson_SRI.pdf

http://tempid.altervista.org/Seminar - Olafsson_SRI.pdf

FYI:

Sveinn will be presenting his research (which he has collaborated on with Leif Holmlid), on October 20th, in a 20 minute talk, at the American Vacuum Society (AVS) Meeting, San Jose Convention Center, in San Jose, California. It is my understanding that he will also be attending the 2015 Fall Meeting of the APS Division of Nuclear Physics in Santa Fe, NM from Oct 28th-31st.

Alan will most likely discuss current/future experiments to be conducted by MFMP during later conversations. The next planned GlowStick Run is scheduled shortly after these talks in Santa Cruz, and will be broadcast live (as always, along with data) on the Internet. Before this next major experiment, a "shake-out run" may be performed live. Stay tuned to the MFMP Web Pages for more details, exactly when!

Mark Jurich

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20151018

The latest revisions (if any) of this document are at (identical links):

http://WWW.MagicSound.US/SRI_Seminar_Olafsson_Public_Announcement_.pdf

http://tempid.altervista.org/SRI_Seminar_Olafsson_Public_Announcement_.pdf

Ultra-dense Hydrogen and Low Energy Nuclear Reactions
Sveinn Ólafsson, Science Institute, Physics department, University of Iceland
L. Holmlid, University of Gothenburg, Sweden

For over the last 25 years the science of cold fusion/LENR has been researched around the world with a slow pace of progress. Modest quantities of excess heat and signatures of nuclear transmutation and helium production have been confirmed in experiments and theoretical work has resulted in a flora of possible theoretical scenarios. [1-2]

Here we present energy production in several stages of surface processes that result first in the formation of Rydberg matter of Hydrogen [3] that can later condense in a new ultra-dense Hydrogen phase with 2.3 pm short bond distances. This phase is nuclear active showing a break-even fusion reaction [4] under 100 mW laser pulsing and slow spontaneous fusion occurring without laser pulsing [5-7]. The experimental work in around 30 publications is briefly reviewed and latest experimental results presented and discussed.

In that work high-energy particles are detected from spontaneous processes using scintillation and other similar detectors. Both spontaneous line-spectra and a spontaneous broad energy distribution similar to a beta decay distribution are observed indicating detection of particles such as muons. The broad distribution is concluded to be due to nuclear particles, giving straight-line Kurie-like plots. They are observed even at a distance of 3 m in air and have a total rate of 10^7 - 10^{10} s⁻¹. In the talk the link of these observations to Low Energy Nuclear Reactions (LENR) or so called Cold Fusion will be discussed experimentally and theoretically.

1. The Science of Low Energy Nuclear Reaction, E. Storms, World Scientific Publishing Company; **2007**.
2. The Explanation of Low Energy Nuclear Reaction, E. Storms, Infinite Energy Press, **2014**.
3. Review Paper: Experimental Studies and Observations of Clusters of Rydberg Matter and Its Extreme Forms, Leif Holmlid, Journal of Cluster Science, 23:1, pp 5–34 (**2012**)
4. Heat generation above break-even from laser-induced fusion in ultra-dense deuterium, Leif Holmlid, AIP Advances 5, 087129 (**2015**)
5. Spontaneous ejection of high-energy particles from ultra-dense deuterium D(0), Leif Holmlid and Sveinn Ólafsson, 40:33, pp 10559–10567 (**2015**)
6. Charged particle energy spectra from laser-induced processes: nuclear fusion in ultra-dense deuterium D(0), Leif Holmlid and Sveinn Ólafsson (submitted **2015**)
7. Muon detection studied by pulse-height energy analysis: Novel converter arrangements, Leif Holmlid and Sveinn Ólafsson, Rev. Sci. Instrum. 86, 083306 (**2015**)

An Introduction to Live Open Science

Alan Goldwater, Martin Fleischmann Memorial Project (MFMP)

“Live Open Science” is the hallmark of the Martin Fleischmann Memorial Project, or MFMP. The group is a loose collaboration of labs and volunteers from around the world, working to demonstrate the validity of LENR through totally open replication efforts. This openness has built a crowd following and a reputation for high integrity.

After the October 2014 release of the report for the extended test in Lugano of Rossi’s Hot Cat, many questions were raised about the method used to measure the heat output with a calibrated Optris infrared thermal camera. Following discussion, MFMP conducted several experiments to test the accuracy of the reported Lugano results.

Experiment data and video were broadcast live in real time to MFMP team members and others, and all data was posted to a public archive following each experiment. Subsequent analysis of the data revealed flaws in the Lugano test report.

Several other experiments have since been run or are in progress, attempting replication of the Rossi LENR demonstration reactor and a similar one shown by Alexander Parkhomov.

CML Seminar

Thursday, Oct. 22, 2015 10:30 a.m.

Room G-124

Host: Fran Tanzella

Ultra-dense Hydrogen and Low Energy Nuclear Reactions (LENR)

Dr. Sveinn Ólafsson

Science Institute, Physics Department, University of Iceland

Details:

A 40-minute colloquium representing research conducted with Leif Holmlid from the University of Gothenburg, Sweden. For about 10 minutes after Sveinn's presentation, Alan Goldwater, representing the Martin Fleischmann Memorial Project (MFMP, headed by Bob Greenyer), will present experimental work/techniques being conducted on reproducing/replicating results obtained from researchers such as Andrea Rossi & Alexander Parkhomov. The final 10 minutes of the 1 hour-long colloquium will be open to questions.

Abstract:

For over the last 25 years the science of cold fusion/LENR has been researched around the world with slow pace of progress. Modest quantity of excess heat and signatures of nuclear transmutation and helium production have been confirmed in experiments and theoretical work has resulted in a flora of possible theoretical scenarios. [1-2] Here we present energy production in several stages of surface processes that result first in the formation of Rydberg matter of Hydrogen [3] that can later condense in a new ultra-dense Hydrogen phase with 2.3 pm short bond distances. This phase is nuclear active showing break-even fusion reaction [4] under 100mW laser pulsing and slow spontaneous fusion occurring without laser pulsing [5, 6, 7]. The experimental work in around 30 publications is briefly reviewed and latest experimental results presented and discussed. In that work high-energy particles are detected from the spontaneous processes using scintillation and other similar detectors. Both spontaneous line-spectra and a spontaneous broad energy distribution similar to a beta decay distribution are observed indicating detection of particles such as muons. The broad distribution is concluded to be due to nuclear particles, giving straight-line Kurie-like plots. They are observed even at a distance of 3 m in air and have a total rate of 10^7 - 10^{10} s⁻¹. In the talk the link of these observation to Low energy nuclear reactions (LENR) or so-called cold fusion will be discussed experimentally and theoretically.

1. The Science of Low Energy Nuclear Reaction. Storms E. World Scientific Publishing Company; **2007**.
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6. Charged particle energy spectra from laser-induced processes: nuclear fusion in ultra-dense deuterium D(0), Leif Holmlid and Sveinn Ólafsson (submitted **2015**)
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SRI International

SRI Menlo Park

Directions to SRI's Building G

SRI's [headquarters facility in Silicon Valley \(/about/locations/headquarters-silicon-valley\)](#) is located at 333 Ravenswood Avenue, Menlo Park, CA 94025-3493. The G Building conference room, is located near the corner of Ravenswood Road and Laurel Avenue. Directions and maps to the parking entrance are found below.

Main phone number: (650) 859-2000.

101 Southbound from San Francisco

Take the Marsh Road - Atherton exit; go approximately 1 mile; turn left at traffic signal onto Middlefield Road; go 1 mile; turn right at traffic signal onto Ravenswood Ave. Several driveways marked "SRI" will be on your left in the next block; turn left at Laurel. SRI's Building G will be on your left.

101 Northbound from San Jose

Take the Willow Road - Menlo Park exit; go approximately 1 mile; turn right at traffic signal onto Middlefield Road; go approximately 1/2 mil; turn left at traffic signal onto Ravenswood Ave. Several driveways marked "SRI" will be on your left in the next block; turn left at Laurel. SRI's Building G will be on your left.

280 Southbound from San Francisco

Take the Sand Hill Road - Menlo Park exit; go approximately 2 miles to intersection with Santa Cruz Avenue; turn left at traffic signal onto Santa Cruz Avenue and follow Santa Cruz to El Camino Real; turn right at traffic signal onto El Camino Real; turn left at first traffic signal onto Ravenswood Ave. Follow Ravenswood to the first traffic light (Laurel Ave.); turn right at Laurel. SRI's Building G will be on your left.

280 Northbound from San Jose

Take the Alpine Road - Menlo Park exit; bear right and follow Alpine Road; bear left at first traffic light; continue to intersection with San Hill Road and Santa Cruz Avenue; you are now on Santa Cruz Avenue; follow Santa Cruz to El Camino Real; turn right at traffic signal onto El Camino Real; turn left at first traffic signal onto Ravenswood Ave. Follow Ravenswood past first traffic light (Laurel Ave.); turn right at Laurel. SRI's Building G will be on your left.

Parking and entrance

Park in the Building G Visitor Parking. The meeting room is opposite to the main entrance, adjacent to the lobby.

