



## 2019 CF/LANR Colloquium at MIT



March 23-24, 2019

Saturday March 23, 2019

Welcome

### **EXPERIMENTAL - D-D Fusion to Helium Via Lattice Assisted Nuclear Reactions**

Why CF/LANR is Important - Mitchell Swartz

Physics Issues, Key Experiments and Mechanism - Peter Hagelstein

Synthesis of Helium Isotopes in Interaction of Deuterium Nuclei with Metals - Dimitar Alexandrov

### **EXPERIMENTAL - Excess Heat Generation from Active CF/LANR Materials**

Advances in Heat Generation using Nano-Metal Composite and H<sub>2</sub> Gas - Yasuhiro Iwamura

Advanced version of the "Capuchin knot" geometry - Francesco Celani

Two States Characterize LANR Systems (Q1D to Motors) - Mitchell Swartz

### **EXPERIMENTAL - Diagnostics of the Excited States in the Pathway**

Phonon-nuclear coupling, excitation transfer, and applications - Peter Hagelstein

Preloaded NANOR-type components (from teaching components to masers) - Mitchell Swartz

### **EXPERIMENTAL - Applications and Diagnostics**

Advanced Isoperibolic Calorimetry in Brillouin's Reactor - Francis Tanzella

A Reliable Protocol for Inducing Nuclear Reactions in Condensed Matter - Lawrence Forsley

Anharmonic Motion and Magnetism in LANR - Brian Ahern

Muon Catalyzed fusion from Prior Art to Future Space Planes - Thomas Ciarlariello

Cooling a High Temperature CF/LANR Reactor - Robert Smith, Jr.

Evening Dinner 7PM to 9:30PM

Sunday March 24, 2019

### **THEORY - New Methods for the next set of Experiments**

Heavy electron catalysis model - Thomas Dolan

Applications of the model to experimental data - Anthony Zuppero

Crystal Lattice Defects and Threshold Resonance of D-D Reactions - Konrad Czerski

PdD and PdH phase diagrams - Peter Hagelstein

Baryon Charge Density - John Wallace

Sunday break 1

Physical Model for Lattice Assisted Nuclear Reactions - Jozsef Garai

Mills' Theories - Jeff Driscoll

## **EXPERIMENTAL - Possible Breakthrough Findings**

Production of Helium in Cold Fusion Experiments - Mel Miles

Experimental techniques for studying Rydberg matter of Hydrogen - Sveinn Ólafsson

Study of the strong nuclear interaction via re-normalization - Vladimir Plekhanov

Elliptical tracks: Possible Evidence for superluminal electrons - Keith Fredericks

D-Line Emission from Preloaded NANOR-type Components - Mitchell Swartz

Update on MIT phonon-nuclear coupling experiments - Florian Meltzer

Sun lunch

## **SOCIETAL BENEFIT - Education, Documentation, IP**

Impacts on the Rate of Knowledge in LANR - Robert Smith, Jr.

Anthropocene Institute, Clean Energy and Cold Fusion - Carl Page

History of one Significant Invention - Hysen Bloshmi

Status of LENRIA Experiment & Analysis Program (LEAP) - David Nagel, Steven Katinsky

Sunday break 2

LENR Research Documentation Initiative - Thomas Grimshaw

Update from Cold Fusion Now! - Ruby Carat

Patent/IP Updates - Mitchell Swartz, Richard Chan

Wrapup Peter Hagelstein/Mitchell Swartz

## **YOUR RESPONSIBILITY AT THE MEETING**

- Do not rearrange anything in the meeting room.
- Eat food and drink only where precisely indicated.
- Remove all your trash at the end of the meeting. We are responsible and will be charged for extra clean-up. **Thank you for your cooperation, patience and understanding.**

**Enjoy the meeting.**

Dr. Mitchell Swartz

Prof. Peter Hagelstein

- Supported by JET Energy, Inc., and The Energy Production and Energy Conversion Group at MIT, and the Anthropocene Institute.



**JET Energy, Inc.**

**Anthropocene Institute**