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Introduction to LENR

A brief summary of the science of the field as it stands today (with details of key experiments) as well as key theoretical considerations that militate for the validity of LENR (electron screening etc). Identified and speculated needed mechanisms for LENR (loading, materials science). Reaction products. Challenges of Replicability. All the terms used (LENR, Cold Fusion, CMNS etc). Theoretical challenges. Why has LENR been relegated to the status of Junk Science?

A History of the Field

Biography of Martin Fleischmann & Stanley Pons - Preceding LENR

A History of the Initial Work, Announcement and Controversy

A History of the Field in the Aftermath

A Guide to the Science

For Undergraduates

The Possibilities of LENR

Key Experiments and Results

Key Theoretical and Experimental Challenges

STEM Trackers

Cold Fusion Comic Book

Guide to the Experimental Literature

Orienting Remarks

Many Papers Fit More Than One Category

Challenges of Publication in Peer Reviewed Venues

Experimental Design

Electrolysis

Gas

Plasma

Codeposition

Cathode Material and Fabrication

Loading

Calorimetry

Other Instrumentation

Integrating Detectors

Reaction Products

Heat

Tritium

Neutrons

Charged Particles

X-Rays

Gamma Rays

Field Overview Papers

Krivit / Marwan

The F&P Papers

Acknowledged errors

Other Papers by Fleischmann

'Best of the Literature'

Electrolysis

F&P Pd/D

Replications

Staker

Alloys

Pd/B

Pd/Ag

Gas

Nickel

Constantin

Titanium

Plasma

Co-deposition

Szpak Protocol

LEC

Other Notable Experiments

Calorimetry References

Discussion of Notable Failures to Replicate

Orienting Remarks

Common Identified Reasons for Replication Failures

Materials Science

Loading

Contamination

Patience

MIT

Harwell

Google

Other Experiments that Failed to Meet Identified Critical

Parameters

Other Papers of Note - Biography, Memoir etc

Guide to the Theoretical Literature

Orienting Remarks re: Theoretical Difficulties and Present Status
of Theory

Notable Theory Papers

Overview of Theory Papers

Fleischmann and Preparata

Krivit / Marwan

Hagelstein

Czerski

Metzler

Hagelstein

Widom-Larsen

Chubb

Schwinger
Leakeas
Storms
Fleischmann
Preparata

Video & Audio
Presentations & Talks
Hagelstein @ MIT

JCMNS

LENR-CANR Library

Research Groups

Notable Historical Figures
Schwinger
Bockris
Preparata
Will

Academic/Government Groups
US Government
NASA
NAVY
ARPA-E
DARPA
DTRA
Google
Berlinguette Group
Hagelstein Group
Clean-HME
HERMES
Technova

Commercial Groups

- Brillouin
- Clean Planet
- Mizuno Tech
- Industrial Heat

Books & Documentaries

Books

- Excess Heat
- Nuclear Transmutation
- Fire from Ice
- Hacking the Atom
- Storms
- JPB
- Discussion of Critical Books

Documentaries

- 60 Minutes
- BBC Horizon Documentary
- Cold Fusion: Fire From Water
- The Believers

Primers

One Page Primers (PDF)

- Who Were Martin Fleischmann and Stanley Pons?
- The Controversy of Nuclear Reactions at Room Temperature
- LENR Experimental Methods
- LENR Key Claims & Results
- LENR History - Announcement and Controversy
- LENR History - Work in the Proceeding Decades
- Possibilities of LENR
- Experimental Challenges & Replicability

Electron Screening in the Crystal Lattice
LENR Controversies & Criticisms

Journalist Press Kits (PDF)

General Journalist Kit

Orienting Remarks
Compilation of One Page Primers
Key References
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Science Journalist Kit (PDF)

Orienting Remarks
Introduction to the Field and Key Claims of LENR Scientists
Why is LENR So Controversial?
Possibilities of LENR
History of the Field (abridged)
A Guide to the Key Experiments (a guide to the EL abridged)
Electron Screening and Other Relevant Theory (a guide to the TL
abridged)
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