

Documentation of Dr. Edmund Storms' 29 Years of Cold Fusion Research

Lessons Learned for LENR Investigators

1 Objectives

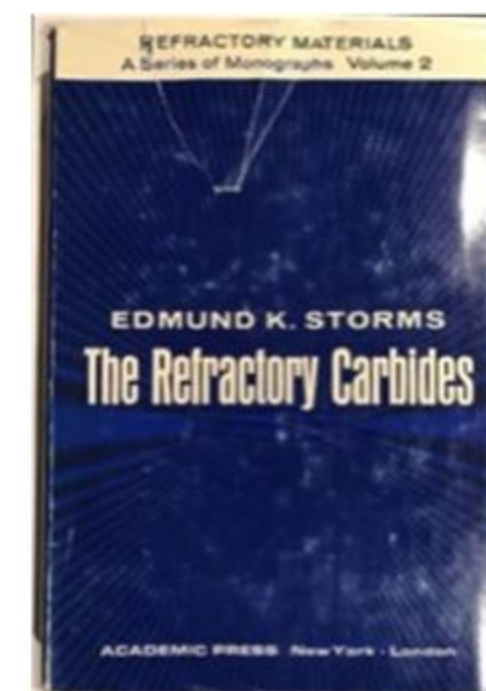
- Secure and archive electronic and hardcopy records
- Organize and document the records for additional insights
 - Dr. Storms
 - Other investigators in the future
- Prepare for permanent repository

2 Context: Research in Refractory Materials

- 35-year career at Los Alamos National Laboratory before Cold Fusion
- Nuclear rocket (Project Rover) and nuclear power in space (SP-100 Project)
- Extensive research in refractory materials
- Highly relevant foundation for LENR Research



Rover Nuclear Rocket Test Equipment



Storms, 1967

Thomas Grimshaw and Edmund Storms

3 LENR Research Record: Nine Components

- | | |
|---------------------------------|---------------------|
| 1. Publications | 6. LENR Laboratory |
| 2. Unpublished Progress Reports | 7. LENR Library |
| 3. Lab Notebooks | 8. ICCF Conferences |
| 4. Electronic Files (7 Media) | 9. Interviews |
| 5. Hardcopy Files | |

4 Eight Phases of LENR Research

- | | |
|--------------------------------|-----------|
| 1. Los Alamos National Lab | 1989-1991 |
| 2. Independent Investigation 1 | 1991-1993 |
| 3. ENECO | 1994-1998 |
| 4. Independent investigation 2 | 1998-2000 |
| 5. Lattice Energy | 2000-2006 |
| 6. Independent Investigation 3 | 2006-2007 |
| 7. Kiva Labs | 2007-2012 |
| 8. Independent Investigation 4 | 2012-2015 |



Phase 1: LANL Calorimeter

5 Future Opportunities

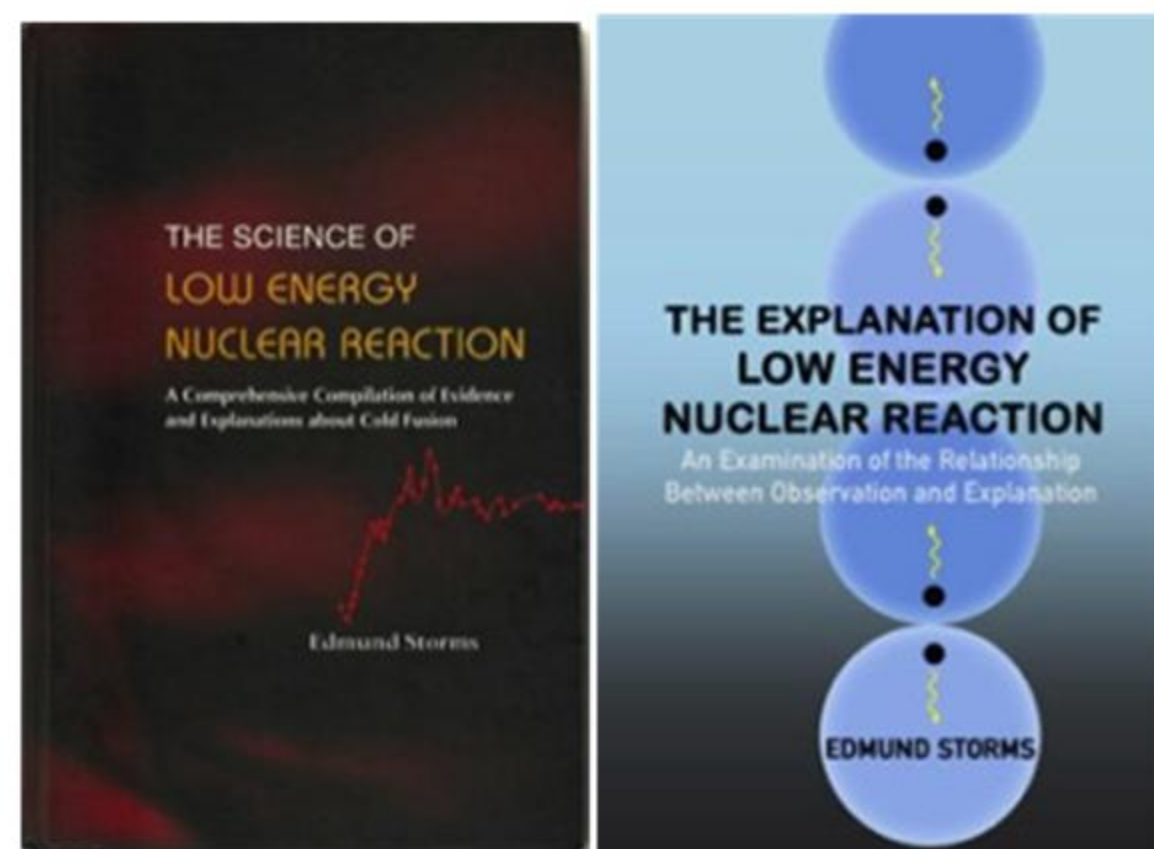
- Analysis of information with improved perspective leading to new insights
- Extension beyond December 2015 cutoff
- Timelines for interviews
- More complete documentation
- Enhanced relationship among Components
- Permanent repository

6 Lessons Learned

- Example for long-term LENR researchers having many files and reports
- Re-analysis of previous work: "Leaching the tailings"
- Collection, organization, preservation for the future
- Systematic approach: memos, stages, reports
- Importance of inexpensive hi-capacity flash memory (at least 256 GB)

Components of the Research Record

Publications: Two Books



2007

2014

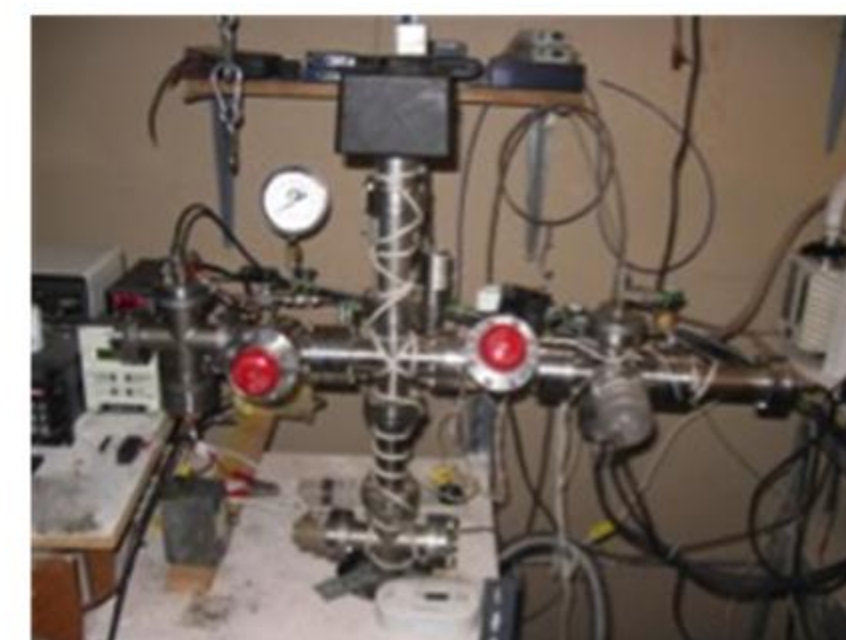
Electronic Files: Legacy Media



3.5-in Floppies



ZIP Disks



LENR Lab: Gas Loading Setup



Hardcopy Files: 6 of the 14 Storage Tubs



10 Lab Notebooks

ICCF Conferences

- Presented at all but 4 of 19 from 1989 to 2015
- Acquired nearly complete set of Proceedings
- Also presented at many of the APS and ACS conferences



Charles Beaudette and Ed Storms at ICCF-5, 1995



Dr. Storms' LENR Library

Interviews

- Thorough coverage of LENR research career
- Three rounds, each covering 1989-2015
- 34 sessions, over 22 hrs.
- Transcriptions printed and edited