

1 Objectives

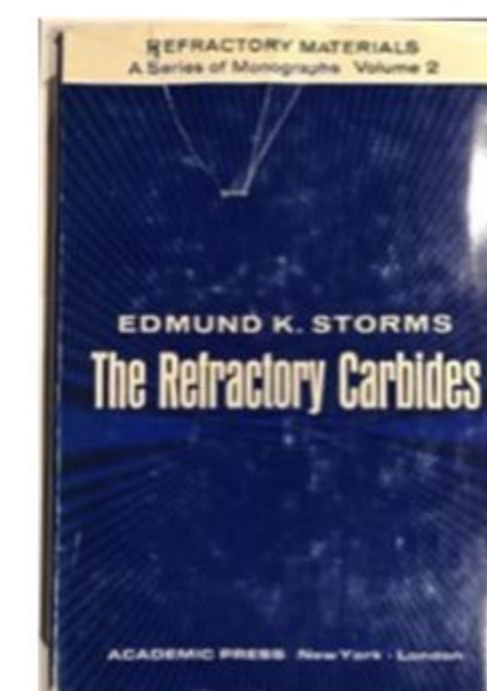
- Secure and archive electronic and hardcopy records
- Organize and document the records for additional insights
 - Dr. Storms
 - Other investigators in the future
- Prepare for permanent repository

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

Documentation of Dr. Edmund Storms' 29 Years of Cold Fusion Research Lessons Learned for LENR Investigators

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 Unpublished Progress Reports | 7.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. ENCO | 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

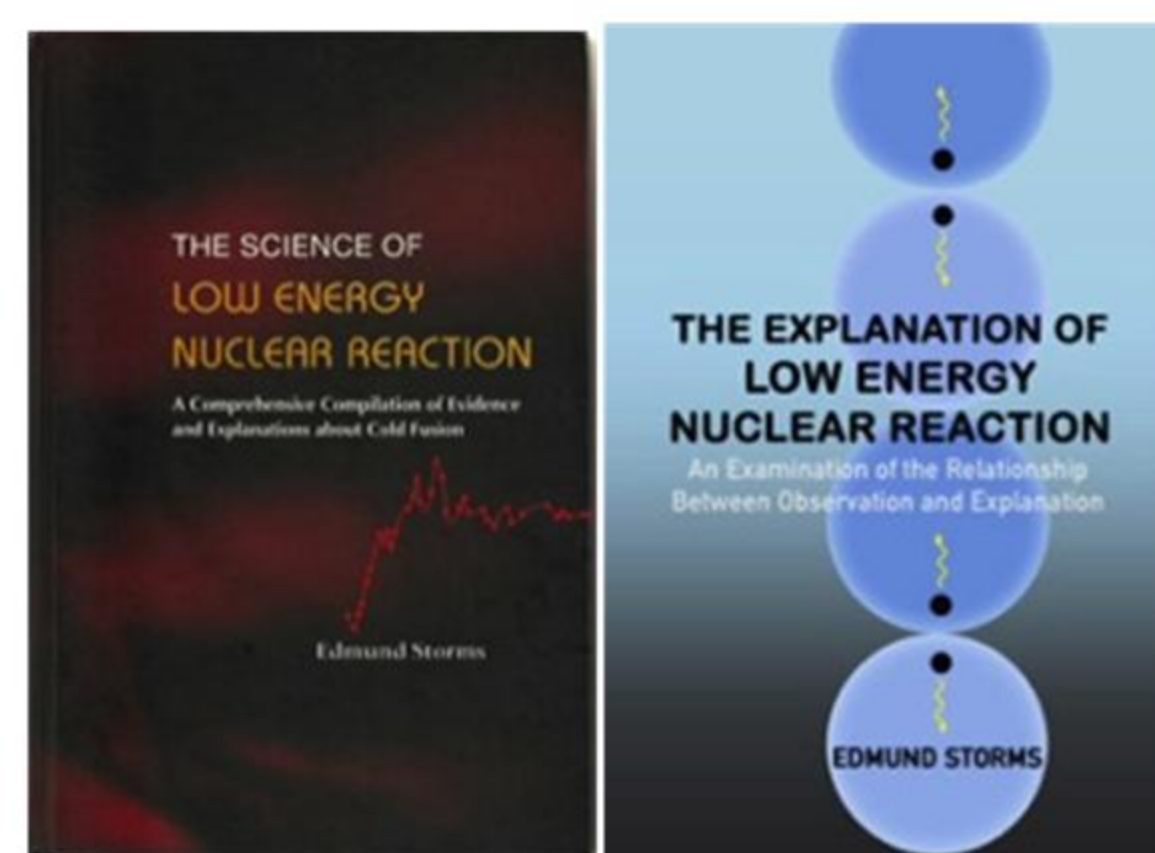
- Analysis of information with improved perspective leading to new insights
- Extension beyond December 2015 cutoff
- Timelines for interviews
- More complete documentation
- Enhanced relationship among Components
- Permanent repository

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

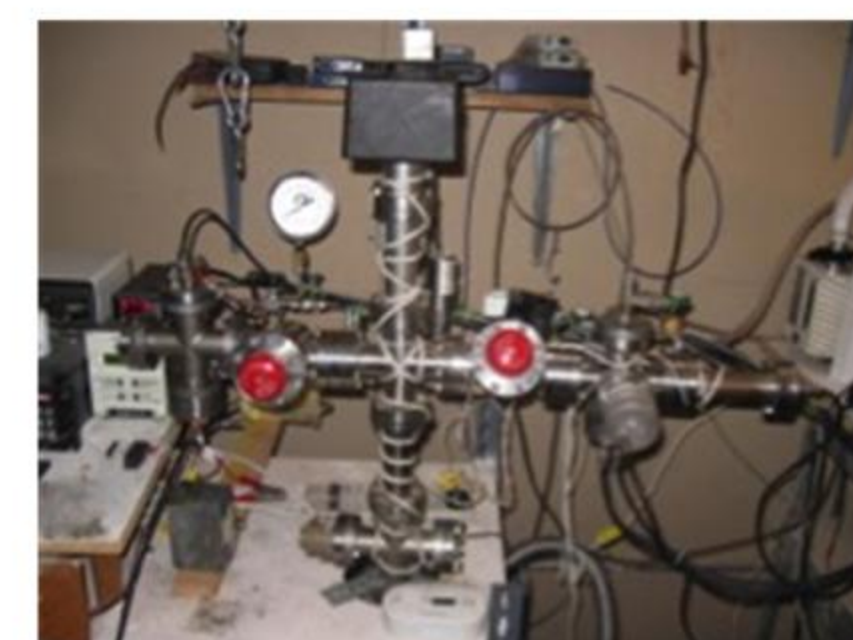
Electronic Files: Legacy Media



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