

4 Research Documentation Project

As noted in Section 1, the principal objectives of the Project are to secure and archive Dr. Storms' collection of hard-copy and electronic LENR files and to make the materials more accessible for Dr. Storms and others who are interested in the LENR field to conduct more enhanced review for additional insights. Standard project management practices were used insofar as possible.

Much of the work was done at Dr. Storms' home laboratory in Santa Fe, New Mexico. Tasks were also performed at the Energy Institute, such as scanning of hard-copy materials and preparing reports. Memos were prepared to document results as progress was made. The Project was conducted in three stages – information collection, organization, and documentation.

Reports was prepared for each stage, which were prepared on the following dates:

<u>Phase</u>	<u>Draft</u>	<u>Second Draft</u>	
1*	6/16/2016 ^{28,29}	4/18/2017 ³⁰	*A Preliminary Draft of the Phase 1 report was also prepared.
2	7/29/2016 ³¹	6/3/2017 ³²	
3	12/26/2017 ³³	2/18/2018 ³⁴	

²⁸ Grimshaw, T., and E. Storms, 2016. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Santa Fe, New Mexico. Stage 1 (Information Collection) Report, Preliminary Draft. March 19.

²⁹ Grimshaw, T., and E. Storms, 2016. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Santa Fe, New Mexico. Stage 1 (Information Collection) Report, Draft. June 16.

³⁰ Grimshaw, T., and E. Storms, 2017. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Santa Fe, New Mexico. Stage 1 (Information Collection) Report, Second Draft. April 18.

³¹ Grimshaw, T., and E. Storms, 2016. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Santa Fe, New Mexico. Stage 2 (Organization) Report, Draft. July 29.

³² Grimshaw, T., and E. Storms, 2017. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Santa Fe, New Mexico. Stage 2 (Organization) Report, Second Draft. June 3.

³³ Grimshaw, T., and E. Storms, 2017. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Santa Fe, New Mexico. Stage 3 (Documentation) Report, Draft. December 30.

³⁴ Grimshaw, T., and E. Storms, 2018. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Santa Fe, New Mexico. Stage 3 (Documentation) Report, Second Draft. February 18.

Stages 1, 2, and 3 are described below, with summaries of the reports prepared for each. The information obtained and the reports, memos, and other documents are on a dedicated storage device, a 256GB flash drive.

4.1 Stage 1. Information Collection

An incremental approach was used to collect information because the full scope of the research materials was not known in advance. The Project scope extends from March 1989 through December 2015, the date selected for cut off. It began in August 2015³⁵, when Dr. Grimshaw made his first visit. Trips were made for three to seven days at a time to collect information, interview Dr. Storms, and prepare documents. Visits were made as shown below:

<u>Trip</u>	<u>Date</u>	<u>Trip</u>	<u>Date</u>
1	August 2015	7	April 2016
2	September 2015	8	August 2016
3	October 2015	9	March 2017
4	December 2015	10	June 2017
5	January 2016	11	October 2017
6	February 2016	12	March 2018

During the visits, Dr. Storms provided electronic files from several kinds of media, including the hard disk of his current computer, floppy disks, ZIP disks, CDs, and DVDs. He also made available hard-copy files, including LENR publications by himself and other researchers, correspondence files, laboratory notebooks, printed results of experiments, and access to his LENR Library. The hard-copy files are from his office, his current laboratory, and a basement under his home. The electronic files were organized and documented, and the hard-copy files and related materials were placed in two sets of storage tubs at Dr. Storms' home. The collected materials were organized into the Project Components shown in Section 1.

Three rounds of interviews of Dr. Storms that cover his LENR research over the past 28 years were also accomplished^{36,37,38,39,40,41}. They cover the period from his earliest research at Los

³⁵ The Project was actually initiated in the Spring 2015 (“Professional Biography Initiative: Next Step”. Memo to Edmund Storms from Tom Grimshaw, June 10, 2015), but substantive effort began in August.

³⁶ “Detailed Interview Sessions During Onsite Visit #9”. Memo to Edmund Storms from Tom Grimshaw, April 6, 2016.

Alamos National Laboratory to the end of 2015. More than 22 hours of interviews were held in 34 sessions. The dates and number of sessions are summarized below.

<u>Round</u>	<u>Approximate Date</u>	<u>Sessions</u>
1	April 2016	8
2	March 2017	11
3	June 2017	15

The interviews were recorded using an iPhone app, SmartRecord. The audio files were submitted to the online service Rev.com for transcription. The printed transcriptions were reviewed and marked up for spelling errors, correction of names, filling in missing information, and addition of annotations. Preliminary interviews were also held with Tom Claytor and Malcolm Fowler, both LANL retirees, for possible future documentation of LENR investigations⁴². The Stage 1 reports are summarized as follows:

Preliminary Draft (March 16, 2016)

- Includes many of the elements of the Project utilized in subsequent stages (Dr. Storms' LENR career overview, introduction to the Project, references to preceding proposals for a new LENR laboratory)
- Sets forth the first definition of the Project Components
- Provides a description of the processes employed in the Project
- Includes sections describing the source and assembly of each Component
- Sets forth a table of the memos prepared for each Component in Stage 1
- Describes activities planned for Stages 2 and 3
- Includes appendices listing Dr. Storms' publications and an inventory of the hard-copy records

Draft (June 16, 2016)

³⁷ "Trial Transcription of Interview Session #1 by Online Service, Rev.com". Memo to Edmund Storms from Tom Grimshaw, April 7, 2016.

³⁸ "LENR Work History (Lab Notebooks): Status Update with Photo and Audio Recordings ". Memo to Edmund Storms from Tom Grimshaw, April 20, 2016.

³⁹ "Transcriptions of Interviews for the Phase 3 Report of the Storms LENR Research Documentation Project". Memo to Edmund Storms from Tom Grimshaw, June 13, 2016.

⁴⁰ "Transcriptions of March, 2016 (Round 1) Interviews". Memo to Edmund Storms from Tom Grimshaw, July 9, 2016.

⁴¹ "Annotated Transcriptions of Three Rounds of Interviews (Rounds 1, 2, and 3)". Memos to Edmund Storms from Tom Grimshaw, August 22, 2016.

⁴² "April 2016 Interviews: Transcripts (Claytor and Fowler)". Memo to Tom Claytor and Malcolm Fowler, April 10, 2016.

- Begins with a summary of the Project and findings to date (similar Summaries are included in subsequent reports for the Stages)
- Has an introduction with a description of Dr. Storms' LENR research at Los Alamos National Laboratory and then in his private lab as well as the elements and processes of the Project; also has conclusions and acknowledgments
- Includes first detailed description of Project Components with photos for many of them
- Again delineates plans for Stages 2 and 3
- Provides coverage of Dr. Storms' professional biography
- Describes management of the Project
- Includes two appendices listing Dr. Storms' publications and unpublished progress reports
- Presents an appendix with a tabulation of the hard-copy records
- Provides an attachment with copies of the first pages of the Stage 1 memos

Second Draft (April 18, 2017)

- Includes an Introduction with similar narrative to the Draft report
- Provides report sections for each of the Project Components that include first complete characterization of each
- Sets forth in a set of appendices the first set of timelines for each Component
- Includes a more complete description of project management and methods
- Adds Components for Dr. Storms' attendance at ICCF conferences and Chapter 2 of his 2007 book
- Provides in two appendices the Timelines for each Component

4.2 Stage 2. Organization

In Stage 1, events, milestones, and other items were identified for each Component. The information was reviewed, and dates (month and year) were assigned to the elements where possible. Timelines were then prepared for each Component in Stage 1 by sorting by year and month.

In Stage 2 the timelines for the Components were combined into an Integrated Timeline. This Timeline was also sorted by year and month. The elements of the Integrated Timeline were arranged in the following order for each month: a) work history (lab notebook entries), b) information on experiment and results, c) publications and unpublished reports, and d), other information found in the Project. This year-by-year presentation provides the basis for defining and describing in Stage 3 the phases of Dr. Storms' LENR research career. The Stage 2 reports are summarized as follows:

Draft (Referred to as "Preliminary Draft") (July 29, 2016)

- Has introduction that sets forth Dr. Storms’ role in LENR research, a description of the Project, a summary of the Stage 1 report, the objectives and approach for Stage 2, and conclusions and acknowledgments
- Provides another overview of Dr. Storms’ LENR research
- Includes sections for each Component with associated timeline, re-organized from the appendices in the Stage 1 report
- Sets forth the first version of the Integrated Timeline, a compilation of the individual Components timelines that is re-sorted by date
- Again describes project methods and file storage, including Reporting for the first time
- Includes an appendix with photos of Dr. Storms’ LENR laboratory

Second Draft (June 3, 2017)

- Includes an introduction similar to the one in the Draft report
- Provides a section summarizing the Stage 1 findings
- Sets forth a year-by-year delineation for each year (from 1989 to 2015) of the activities and contents of each Component (derived from the Integrated Timeline)
- Includes a section, like the Draft Report, on Dr. Storms’ LENR career, but including his pre-LENR research at Los Alamos National Laboratory for the first time
- Sets forth the plan for Stage 3
- Provides appendices on Project methods and a detailed summary of Stage 1
- Includes two separate appendices for the Integrated Timeline, one for the Work History Component and the other for the other Components combined

4.3 Stage 3. Documentation

The first step in documentation was to prepare a memo describing each element of the Project as it was found. Approximately 85 memos were prepared. These memos were designed to record progress and findings during the course of the Project. Many of the memos, which are listed in Appendix A, were prepared in conjunction with the onsite visits as shown below.

<u>Round</u>	<u>Onsite Visit</u>	<u>Visit Date</u>	<u>Period Covered by Memos</u>
1	1 – 7	Several	8/15 – 7/16
2	8	August 2016	8/16 – 3/17
3	9	March 2017	4/17 – 6/17
4	10	June 2017	7/17 – 9/17
5	11	October 2017	10/17

The results of the Project were also documented with reports for each stage. The contents of the Stage 1 and 2 reports are described above in this Section. The Stage 3 reports are summarized as follows:

Draft (December 30, 2017)

- Begins with an introduction that has an overview of Dr. Storms' LENR research career, an outline of the Project and its Components and Timelines as well as his LENR research phases
- Has a section describing the Components in detail
- Presents a summary of Dr. Storms' pre-LENR research at Los Alamos National Laboratory (on refractory materials) and demonstrate its relevance to understanding the LENR phenomenon
- Provides a section on the eight phases of Dr. Storms' LENR research
- Outlines future opportunities and next steps
- Includes appendices on Project methods and on timelines of the Components as well as the Integrated Timeline
- Provides Annexes (as separate volumes) for the collected works and unpublished progress reports Components as well as interviews of Dr. Storms and copies of the 85+ memos prepared for the Project

Second Draft (February 18, 2018)

- Provides similar content and organization to the Draft report
- Provides upgrades of selected sections, particularly the description of Dr. Storms' pre-LENR career and its applicability to his extensive LENR research

A large-capacity flash drive with a USB connection was used to store both the collection of Dr. Storms' LENR files located and the reports and other documents prepared as the Project was performed. The flash was made by SanDisk drive and has a capacity of 256 GB. The files are organized in the following categories:

- 10 Stage 1 Reports
- 20 Stage 2 Reports
- 30 Stage 3 Reports
- 40 Research Record Components
- 50 Components Timelines
- 60 Onsite Visits 8 to 11
- 70 Storms Interviews
- 80 Project Memos
- 90 Miscellaneous

5 Components of Research Record

The records collected for the Project include both publicly-available publications and unpublished information such as laboratory notebooks, electronic data files, hard-copy files, and other materials. The records have been organized into the Components based primarily on the source of information. LENR-related conferences attended by Dr. Storms and information from Dr. Storms 2007 book are also included. The final Component is a set of interviews of Dr. Storms that were conducted in three episodes or “Rounds”. The Components are listed below from Section 1.

1. Publications
2. Unpublished Progress Reports
3. Work History
4. Electronic Data Files
 - 4a. Storms Computer Files (Round 1)
 - 4b. Storms Computer Files (Round 2)
 - 4c. ZIP and Round 1 CD Electronic Files
 - 4d. Round 2 CDs, DVD Files and VHS Tapes
 - 4e. External Hard Drive Files
 - 4f. 3–1/2 Inch Floppy Files
5. Hard Copy Records
6. Research Laboratory
7. LENR Library
8. Other Components (Conferences, 2007 Book)
9. Interviews

The Components are described below with a summary of the contents of each.

5.1 Publications

As noted in Section 1, Dr. Storms’ principal publications are his two LENR books. He also contributed to the field by reporting the results of his research in publicly-available publications. About 125 papers were prepared from 1989 to 2015^{43,44,45}. Dr. Storms authored a remarkable

⁴³ “Collection of Papers and Publications”. 16 Memos to Edmund Storms from Tom Grimshaw, September 16 to 26, 2015.

⁴⁴ “Summary of Collection of LENR Papers and Other Items”. Memo to Edmund Storms from Tom Grimshaw, September 26, 2015.

four to five papers per year on average. The publications have been assembled into "Collected Works" (three volumes) in both electronic and hard-copy form (Figure 5-1)^{46,47,48}. PDF copies of the Collected Works are on the Project storage device.

Although some of the publications appeared in mainstream peer-reviewed journals, most were in the dedicated LENR literature because most journals do not accept LENR papers. Dr. Storms also gave presentations at the ICCF conferences that he attended from 1999 to 2013 (ICCF 1 to 18). In most cases a paper also appeared in a conference proceedings. The conferences attended by Dr. Storms are described in Section 5.8 below. Other frequent venues were Infinite Energy and the Journal of Condensed Matter Nuclear Science.

5.2 Unpublished Progress Reports

During the same timeframe that he was authoring publicly-available publications, Dr. Storms was also documenting his LENR research results in unpublished internal reports^{49,50,51,52,53,54}. These reports were often prepared to show research results to sponsors of his work. Approximately 111 documents have been located and placed on the Project storage device.

⁴⁵ "Collection of LENR Papers and Other Items: Consolidated Files". Memo to Edmund Storms from Tom Grimshaw, November 29, 2015.

⁴⁶ "Collected Works of Cold Fusion (LENR) Papers". Memo to Edmund Storms from Tom Grimshaw, March 4, 2016.

⁴⁷ "Collected Works of Cold Fusion (LENR) Papers: Update". Memo to Edmund Storms from Tom Grimshaw, April 24, 2016.

⁴⁸ Edmund Storms LENR Research Papers, Collected Works, 3 Volumes. April 2016.

⁴⁹ "Progress Reports in LENR Data File Collection". Memo to Edmund Storms from Tom Grimshaw, January 11, 2016.

⁵⁰ "Progress Report Candidates Found in Data Files from LENR Experiments". Memo to Edmund Storms from Tom Grimshaw, March 23, 2016.

⁵¹ "Progress Reports and Related Documents in Files Received from ZIP Disks and CDs". Memo to Edmund Storms from Tom Grimshaw, March 31, 2016.

⁵² "Progress Reports and Related Documents in Two Datasets for the Storms LENR Research Documentation Project". Memo to Edmund Storms from Tom Grimshaw, May 21, 2016.

⁵³ "Progress Reports and Related Documents in Two Datasets for the Storms LENR Research Documentation Project (Update)". Memo to Edmund Storms from Tom Grimshaw, May 28, 2016.

⁵⁴ "Assuring Access to Electronic Files Generated in LENR Research: Not Yet Achieved". Memo to Edmund Storms from Tom Grimshaw, September 25, 2016.



Figure 5-1.
The “Collected Works” Volumes of Dr. Storms’ LENR Research Publications

They span a range from 1995 to 2015. A "Collected Progress Reports" (Figure 5-2)⁵⁵ has also been prepared in electronic and hard-copy form in a similar manner to the Collected Works. PDF files of the Collected Progress Reports are on the Project storage device.

5.3 Lab Notebooks (Work History)

As Dr. Storms performed his LENR experiments, he kept careful records in laboratory notebooks. Ten notebooks covering the period June 1995 to November 2015⁵⁶ have been located for the Project⁵⁷. They are listed below and are shown in Figure 5-3⁵⁸. The LENR laboratory where the work was done is described in Section 5.6.

<u>No.</u>	<u>Period Covered</u>	<u>Topic</u>	<u>Notebook Description</u>
1	JUN95 – DEC96	Electrolytic Cells	Black w/ maroon trim. "Shaw's".
2	JAN97 – MAR98	Electrolytic Cells	Reddish, plain. "Blueline".
3	DEC98 – SEP01	Electrolytic Cells	Maroon, mottled. No Brand.
4	SEP01 – JAN04	Electrolytic Cells	(Case Effect). Black & white mottled. "Mead".
5	FEB04 – SEP05	Electrolytic Cells	Black. "Cambridge Executive".
6	AUG04 – JUN08	Gas Discharge	Black. "Cambridge Executive".
7	FEB08 – JUL09	Gas Loading	Blue w/ black trim. "Office Depot". "Records".
8	AUG09 – FEB14	Gas Loading	Blue-green w/ black trim. Tall vertical. "Office Depot".
9	MAY14 – MAY15	Gas Loading	Tall vertical. Dark blue. "Foray".
10	1AUG15 – 15NOV15	New Calorimeter	Black with white stripe. "Foray".

The "overlap" of notebooks 5 and 6 from August 2004 to September 2005 occurred because two different types of experiments (electrolytic cells and gas discharge) were taking place during the same timeframe. The notebooks were carefully reviewed by Dr. Storms from August 2015 to January 2016. During this review, he summarized the lab activities as one-line entries in a spreadsheet^{59,60}. The resulting file has more than 2750 lines in the file.

⁵⁵ Edmund Storms LENR Research Papers, Collected Progress Reports, 2 Volumes. May 2016.

⁵⁶ Dr. Storms has continued to perform experiments and record the results in lab notebooks since November 2015, but the cutoff date for the Project is the end of 2015.

⁵⁷ "LENR Lab Notebook Inventory". Memo to Edmund Storms from Tom Grimshaw, August 18, 2015.

⁵⁸ "LENR Work History (Lab Notebooks): Status Update with Photo and Audio Recordings". Memo to Edmund Storms from Tom Grimshaw, April 20, 2016.

⁵⁹ "LENR Work History (Table Refinements and Additions after Final Submittal)". Memo to Edmund Storms from Tom Grimshaw, January 18, 2016.

⁶⁰ "Stage 1 Report: LENR Work History". Memo to Edmund Storms from Tom Grimshaw, February 19, 2016.



*Figure 5-2.
The Volumes of Ed Storms' Unpublished "Collected Progress Reports"*



*Figure 5-3.
Ed Storms' LENR Laboratory Experiment Notebooks. Photo Taken April 2016.*

5.4 Electronic Data Files

As Dr. Storms performed LENR experiments and made entries in the lab notebooks, the data generated were recorded in electronic files^{61,62}. These files were obtained from Dr. Storms' computer and from legacy media located in his office. In addition to experimental data, the files include published papers, progress reports, copies of emails, photos of lab equipment and experimental setups, and other files related to LENR research. The electronic files have been copied onto the Project storage device^{63,64}. The Electronic Data Files Component consists of the subcomponents shown below:

⁶¹ "Inventory of Data Files Accompanying Work History". Memo to Edmund Storms from Tom Grimshaw, December 28, 2015.

⁶² "Detailed Inventory of Data Files from LENR Experiments". Memo to Edmund Storms from Tom Grimshaw, January 19, 2016.

⁶³ "Assuring Access to Electronic Files Generated in LENR Research: Not Yet Accomplished". Memo to Edmund Storms from Tom Grimshaw, September 25, 2016. A search is underway to find a way to access the information.

⁶⁴ "Additions to and Reorganization of Electronic Media in Project Storage Tubs". Memo to Edmund Storms from Tom Grimshaw, October 27, 2016.

- Storms Computer
- ZIP Disks, CDs, DVDs and VHS Tapes
- External Hard Drive
- 3-1/2 Inch Floppies

5.4.1 Storms Computer

Dr. Storms provided files from his current computer in two episodes or “Rounds”. The files obtained in Round 1 are in five folders as shown below.

- OLD DATA
- DATA
- Letts Data
- SEEBECK CALORIMETER STUDY
- Study using new calorimeter

The files added to the Project by Dr. Storms from his computer in Round 2 include the folders shown below⁶⁵.

- (4/17, 29-16)
- 9/7/15 A
- Current Science_files
- ICCF-19
- Reports (gas discharge)
- SEEBECK CALORIMETER STUDY
- Study using new calorimeter

The folders “SEEBECK CALORIMETER STUDY” and “ Study using new calorimeter” appear to be the same in both sets of files.

⁶⁵ “Preliminary Inventory of Folders and Files Stored on Your Current Computer as Provided on August 10, 2016”. Memo to Edmund Storms from Tom Grimshaw, April 9, 2017.

5.4.2 ZIP Disks, CDs, DVDs, and VHS Tapes

Files from these media were collected in Rounds 1 and 2. Two types of media were obtained in Round 1 – 4 ZIP disks and 6 CDs (Figure 5-4)^{66,67,68,69}. The ZIP disks and CDs are listed below with the names for each.

ZIP Disk Z1	PD Study
ZIP Disk Z2	Work in Progress
ZIP Disk Z3	ZIP 100
ZIP Disk Z4	Carol
Round 1 CD1	(No Name)
Round 1 CD2	Documents 1/3/04
Round 1 CD3	Documents – Part 12 of 15
Round 1 CD4	SEM Data
Round 1 CD5	My Disk
Round 1 CD6	My Disk

The LENR-related CDs collected in Round 2, the DVDs, and the VHS tapes are in eight sets as shown below with the categories of the media^{70,71}:

- CV1 Storms Generated LENR Research Files (18 CDs)
- CV2 Storms 2007 Book, Cold Fusion References, Etc. (29 CDs)
- CV3 ICCF Conferences, Cold Fusion Movies, Etc. (18 CDs)
- CV4 Miscellaneous Cold Fusion Related Topics (4 CDs)
- CV5 Application Software Discs (6 CDs)
- CV6 DVDs from LENR Library (13 DVDs)
- CV7 CDs Containing SEM Images (3 CDs)
- CV8 VHS Tapes (6)

Photos of sets CV1 to CV5 and five of the VHS tapes are shown in Figure 5-5.

⁶⁶ “Inventory of Files Received from ZIP and CD Disks”. Memo to Edmund Storms from Tom Grimshaw, November 19, 2015.

⁶⁷ “Detailed Inventory of Files Received from ZIP and CD Disks”. Memo to Edmund Storms from Tom Grimshaw, March 27, 2016.

⁶⁸ “Location of ZC Folders and Files in Source Media: ZIP Disks and CDs”. Memo to Edmund Storms from Tom Grimshaw, October 25, 2016.

⁶⁹ “Progress Reports and Related Materials in Files Received from ZIP Disks and CDs”. Memo to Edmund Storms from Tom Grimshaw, March 31, 2016.

⁷⁰ “Inventory of CDs and DVDs Added During Onsite Visit #8 and from Storms’ LENR Library”. Memo to Edmund Storms from Tom Grimshaw, October 23, 2016.

⁷¹ “Tabulation of the Contents of CDs, DVDs and VHS Tapes in Project Component CVD”. Memo to Edmund Storms from Tom Grimshaw, April 11, 2017.



*Figure 5-4.
ZIP Disks and CDs Containing Electronic Data Files*

CDs, Sets CV1 to CV5 (Round 2 CDs)



VHS Tapes, Set CV8. Tape CV8-6 was added after the photo was taken.



*Figure 5-5.
Photo of CDs and VHS Tapes*

5.4.3 External Hard Drive

Files have been added to the Project from a LaCie 8900 external hard drive (Figure 5-6)⁷². The folders on the hard drive are listed below.

Addresses	manuals
Archive ARTICLES	MILEY DATA
Archive, GENERAL	Pd STUDY
CAROL (Selected)	PERSONAL BIO
Case Study	Photo ion detector
CURRENT ARTICLES	PICTURES
Ed's stuff	Pt 2004
Ed's Website	Pt Dot 3
EndNote	Pt Dot 4
High Temp Data set	Pt-Pd(10-16-05)
ICCF-11	Recent data
Important Papers	RGA application
Ken Wolf Commodities	Seebeck converter#1
LENR CD Partial	SEM scans of Case samples
LENR site	WORK IN PROGRESS
Lenr-canr	



*Figure 5-6
LaCie 8900 External Hard Drive. Scale indicated by thumb drive.*

⁷² “Folders and Files Stored on LaCie 8900 External Hard Drive: Preliminary Inventory”. Memo to Edmund Storms from Tom Grimshaw, October 28, 2016.

5.4.4 Floppy Disks

Another subcomponent of electronic files consists of two sets of 3 1/2-inch floppy disks, one from a carousel designed for discs of this size (Figure 5-7) and the other from various locations in Dr. Storms' office⁷³.



*Figure 5-7
Carousel for 3-1/2-Inch Floppy Disks*

The external labels and contents of the disks from the carousel are as follows.

FLD1	1d to now	Pd #1d to now
FLD 2	Calibration	Calibration Test #1-22
FLD3	calorimeter	Calorimeter drawings, calorimeter graphs
FLD4	calorimeter data	excell, calibration, Pt Test #1-19 + Summary
FLD5	CF data	cold fusion data folder, 1991 Tritium Production
FLD6	CF text archives	Cold Fusion Text archives, 10
FLD7	Cold Fusion	1989 - 1993
	Letters	
FLD8	Cold fusion talk	Cold Fusion talk
FLD9	J#4	2/29 – 9/5
FLD10	J#4-2	J#4, 3/29 – graphs & summary

⁷³ “Inventory of 3.5-Inch Floppy Disks Added to Project During Onsite Visit #8 (August 2016)”. Memo to Edmund Storms from Tom Grimshaw, October 22, 2016.

FLD11	Papers	Effect of Hydriding – Paper & data, Electrolytic Tritium – Paper & data
FLD12	papers2	28 th Intersociety CANR-Paper, ICCF-4, Minsk conf., Review-1991, Electrolytic heat
FLD13	Pd #24-12c	Excell data, Pd #24 to 12c, Excess volume
FLD14	Pd charging #1-10	Excell data, Pd charging Pd #1 - #10
FLD15	Progress	Cold Fusion, Progress & memos & proposal
FLD16	Star C	Star C*Cold Fusion Text Archives
FLD17	Talks	Various CF Talks
FLD18	tritium study	Tritium Data

The labels and contents of the disks from Dr. Storms’ office are shown below.

FLD19	Cold Fusion	Cold Fusion, archives data
FLD20	backup	Physical Study, Data Index 1990
FLD21	Hypervard	Backup
FLD22	Letters	Cold Fusion Letters, 1984-patterson data
FLD23	21 Century	Cold Fusion, An Outcast of Science, E. Storms 9/97, 97401 DC _ 001, Mac disc, FullWrite, Text only, MacWrite 5.0. II
FLD24	LABS PROPOSAL	→Ed Storms, from Steve Jones PROPOSAL, LABS
FLD25	storms	What ever happened to Cold Fusion? Edmund Storms, Mac disc, 98463 MMH001
FLD26	(Not readable)	How to produce P-F effect, FP Award, When to listen, ICCF-4 photocopy

A portion of the floppy disk files was printed, and PDF copies of the prints have been included in the Project storage device⁷⁴.

5.5 Hard Copy Records

Hard copy records have been incorporated in the Project from two sources – Dr. Storms’ office and a storage area below his home. The records were obtained in two Rounds. The Round 1 records have been placed in eight storage tubs with hanging folders and are kept in a small room in the lower floor of Dr. Storms’ home (Figure 5-8a). The records collected in Round 2 are in six storage tubs that are located in a room below the breezeway between the two parts of the home (Figure 5-8b)^{75,76,77,78, 79}.

⁷⁴ “Printed Floppy Disk Files of Project Component 46FLD”. Memo to Edmund Storms from Tom Grimshaw, June 21, 2017.

⁷⁵ “Index for Hard-Copy Files”. Memo to Edmund Storms from Tom Grimshaw, September 6, 2015.

⁷⁶ “Scanning of Hard-Copy Files: Stage 1”. Memo to Edmund Storms from Tom Grimshaw, January 9, 2016.



a. Storage Tubs with Round 1 Hardcopy Records. Located in Small Storage Room.



b. Storage Tubs with Round 2 Hardcopy Records. Photo Taken in Breezeway.

*Figure 5-8
Photos of Storage Tubs with Hardcopy Records*

⁷⁷ “Stage 1 Report for Hard Copy Files Stored in Tubs”. Memo to Edmund Storms from Tom Grimshaw, January 19, 2016.

⁷⁸ “Hard Copy Files: Assignment of Dates and File Reorganization”. Memo to Edmund Storms from Tom Grimshaw, October 19, 2016.

⁷⁹ Completion of Stage 1 Processing Hard Copy Files Stored in Tubs”. Memo to Edmund Storms from Tom Grimshaw, April 21, 2017.

The Round 1 hard copy records have been organized into 32 Sets, which are listed below with the sources of the records and the tub containing each Set.

<u>Tub</u>	<u>Set</u>	<u>Source</u>
I	1 – 3	Basement
II	4 – 8	Basement
III	9 – 16	Basement
IV	17	Basement
V	18	Storms' Office
VI	19 – 21	Storms' Office
VII	None	Retired; Files Moved to Other Sets
VIII	22 – 32	Files Added or Reorganized

The Sets have been reviewed with Dr. Storms to provide context^{80,81,82}. An inventory of the files has been completed, and dates have been assigned⁸³. The six storage tubs containing the Round 2 records^{84,85} are summarized below with a general description of the contents.

<u>Tub</u>	<u>Description</u>	<u>Contents</u>
A	"Receipts for Energy K Systems".	35 Manila Envelopes.
B	"First Drawer in Guestroom... Cabinet".	Small white three ring binder. Large black three-ring binder: "Publications (Cold Fusion)" by Ed Storms.
C	Loose CF Papers	Cold fusion papers by Storms. 60 items.
D	From Box 3.	Two large blue and two large black 3-ring binders. "Fusion Facts", etc.
E	3-Ring Binders	8 White and 2 Dark Blue 3-Ring Binders
F	Three 3½-Inch White Ring Binders	Lattice Energy Progress Reports, etc.

A principal objective of the Project is to make the research records as accessible as possible. An effort has therefore been initiated to scan as many of the hard copy files into electronic (PDF)

⁸⁰ "Index for Hard-Copy Files". Memo to Edmund Storms from Tom Grimshaw, September 6, 2015.

⁸¹ "Stage 1 Report for Hard Copy Files Stored in Tubs". Memo to Edmund Storms from Tom Grimshaw, February 19, 2016.

⁸² "Completion of Stage 1 Processing Hard Copy Files Stored in Tubs". Memo to Edmund Storms from Tom Grimshaw, April 21, 2016.

⁸³ "Hard Copy Files: Assignment of Dates and File Reorganization". Memo to Edmund Storms from Tom Grimshaw, October 19, 2016.

⁸⁴ Additional File Boxes for Hard Copy Files (Project Component HCF)". Memo to Edmund Storms from Tom Grimshaw, April 1, 2016.

⁸⁵ Additional File Boxes for Hard Copy Files (Project Component HCF): Update". Memo to Edmund Storms from Tom Grimshaw, June 8, 2017.

form as possible^{86,87}. Because of the large volume of the files, they are being scanned on a prioritized basis. The PDF files have been copied into the Project storage device.

5.6 Research Laboratory

Dr. Storms has developed a sophisticated operation for LENR experiments in the annex to his home laboratory in Santa Fe. He has conducted experiments using almost all methods for achieving the LENR effect, including the electrolytic, gas loading, gas discharge, and other methods^{88,89,90}. The lab consists of a flexible apparatus for preparing samples and performing experiments as well as a sophisticated scanning electron microscope (SEM). Examples of electrolytic cells and calorimeters are shown in Figure 5-9. A typical experiment setup, in this case using the gas loading method, is shown in Figures 5-10. The SEM, which has energy-dispersive X-ray (EDX) spectroscopy capability for determining the elemental composition of the surface, is shown in Figure 5-11.

The lab operation began in about June 1995, when it was set up in the lower floor of the main part of Dr. Storms' home. It was subsequently moved to its current location in the lower floor of the annex to the home. An exterior photo of Dr. Storms' home laboratory is in Figure 5-12.

5.7 LENR Library

During his long research career, Dr. Storms accumulated one of the best libraries of LENR publications, books, and related materials in the world. The library is located in Dr. Storms' office. It consists of electronic files (5000 LENR papers and similar items), hard-copy papers (at

⁸⁶ "Scanning of Hard-Copy Files: Stage 1". Memo to Edmund Storms from Tom Grimshaw, January 9, 2016.

⁸⁷ "Trial Transcription of Interview Session #1 by Online Service, Rev.com". Memo to Edmund Storms from Tom Grimshaw, April 7, 2016

⁸⁸ "Description of LENR Laboratory Facilities, Santa Fe, NM as of January 2015". Memo to Edmund Storms from Tom Grimshaw, December 9, 2015.

⁸⁹ "Electrolytic Cells and Calorimeters Used in LENR Research". Memo to Edmund Storm from Tom Grimshaw, September 26, 2016.

⁹⁰ "Photographs of LENR Research Activities: Conferences and Meetings, Laboratories, and Electrolytic (and Related) Cells". Memo to Edmund Storms from Tom Grimshaw, December 20, 2016.



Figure 5-9.

Electrolytic Cells and Calorimeters.

Examples have different objectives, design and operation. Thumb drive is 2.75 in long.

Upper Electrolytic Cell: Designed to explore the location of active sites in the sample.

Second Item from Top: Jacket for isoperibolic calorimeter.

Three Cells in Lower Part of the Photo: Typical electrolytic cells used for LENR studies.

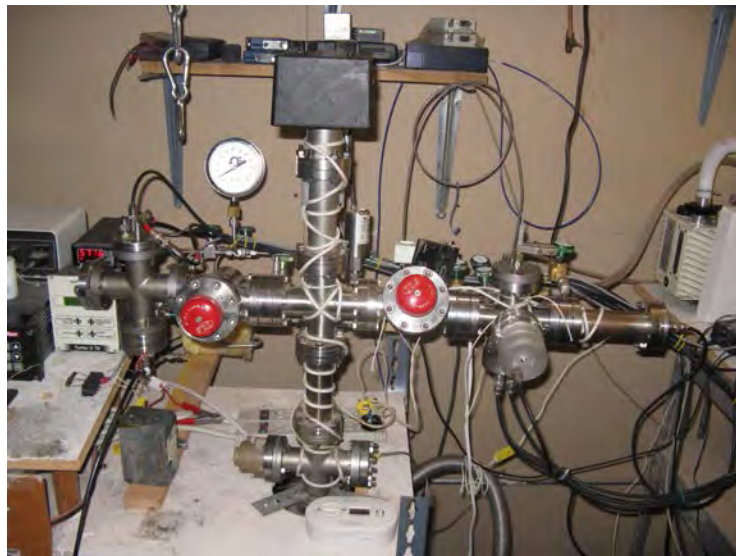


Figure 5-10. Gas Loading Setup.

Experiment is on the right arm and sample preparation is on the left arm.

A mass spectrometer is on the upper arm.

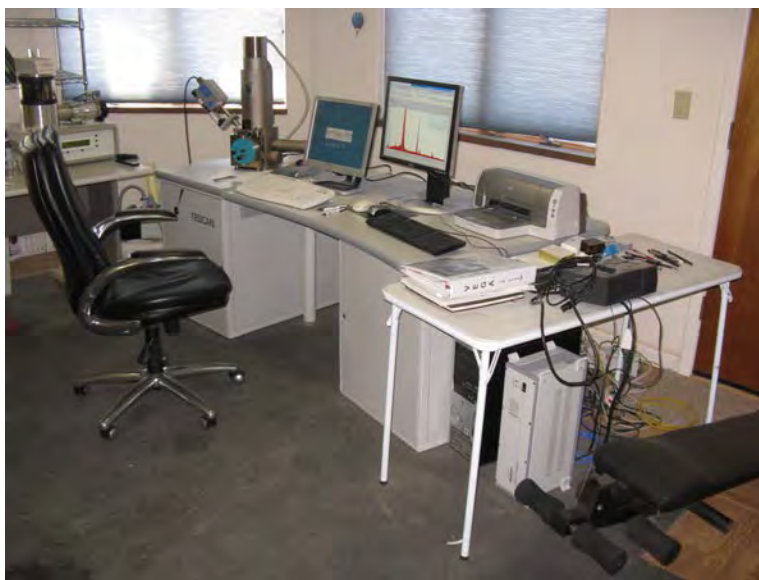


Figure 5-11.

Scanning Electron Microscope (SEM) with Energy-Dispersive X-Ray (EDX) Spectroscopy Capability. The SEM is the tall vertical cylinder. The EDX is the instrument just to the left of the SEM.



Figure 5-12.

Exterior View of Dr. Storms' Home Laboratory near Santa Fe, NM. The lab is on the lower floor of the annex to the home. Photo taken April 2016.

least 1700 papers, some of which are also in the electronic file collection), and over 120 books and similar items^{91,92}. The bookshelves containing the hard-copy papers and books are shown in Figure 5-13. The electronic files are maintained in Endnote® by Dr. Storms. Copies have been incorporated in the Project storage device. Dr. Storms' publication collection also formed the "kernel" of an online library, LENR-CANR.org, which was started in about 2002 by Jed Rothwell and Dr. Storms⁹³.



Figure 5-13.

Dr. Storms with Hard-Copy Publications of the LENR Library.

Photo taken October 2015. The bookshelves in the center of the photo contain individual LENR papers. On the right, bookshelves contain books, journals, and conference proceedings.

The hard-copy papers are on the bookshelves (about 30 feet of shelf space) in Dr. Storms' office in Santa Fe. The books, which are on four bookshelves adjacent to the hard-copy papers, include conference proceedings (particularly for ICCF conferences), books on LENR, journals (Infinite

⁹¹ "Stage 1 Summary: LENR Library Holdings". Memo to Edmund Storms from Tom Grimshaw, February 22, 2016.

⁹² "Inventory of Bookshelf Materials in Storms' Office". Memo to Edmund Storms from Tom Grimshaw, April 17, 2016.

⁹³ Rothwell, J., and E. Storms, 2003. The LENR-CANR Website, Its Past and Future. Proceedings of ICCF-10, p. 939-942. August.

Energy, 21st Century Science & Technology, Journal of Fusion Technology), and other paper copies of LENR materials. Particularly noteworthy in this collection is an almost complete set of materials obtained by Dr. Storms during his attendance at ICCF conferences. This is one of the most complete collections of these conference materials available, as they are not routinely collected and stored by mainstream libraries. Dr. Storms' library also contains a complete collection of 125 Infinite Energy magazines.

5.8 ICCF Conferences and 2007 Book

Dr. Storms attended all but four of the International Conferences on Cold Fusion (ICCFs) from 1990 to 2015⁹⁴, which are shown below.

<u>ICCF#</u>	<u>Year</u>	<u>Location</u>
1	1990	Salt Lake City, Utah
2	1991	Como, Italy (Storms did not attend)
3	1992	Nagoya, Japan
4	1993	Lahaina, Hawaii
5	1995	Monte Carlo, Monaco
6	1996	Hokkaido, Japan
7	1998	Vancouver, British Columbia
8	2000	Lerici, Italy
9	2002	Beijing, China (Storms did not attend)
10	2003	Cambridge, Massachusetts
11	2004	Marseilles, France
12	2005	Yokohama, Japan
13	2007	Dagomys, Sochi, Russia
14	2008	Washington, DC
15	2000	Rome, Italy
16	2011	Chennai, India
17	2012	Daejeon, South Korea (Storms did not attend)
18	2013	Columbia, Missouri
19	2015	Padua, Italy (Storms did not attend)

Dr. Storms gave presentations and prepared papers at most of the conferences, and he collected the abstracts, proceedings, and related materials and has placed them in his LENR Library as noted above.

Dr. Storms received the Preparata Medal, the highest award in the LENR field, in 2005 at ICCF-

⁹⁴ “Photographs of LENR Research Activities: Conferences and Meetings, Laboratories, and Electrolytic Cells!”. Memo to Edmund Storms from Tom Grimshaw, December 20, 2016.

12, when the conference was held in Yokohama, Japan. A picture taken of Dr. Storms with Charles Beaudette during that conference⁹⁵ appears in Figure 5-14. Photos taken at ICCF-10 (with Michael Melich) at Cambridge, Massachusetts in 2003⁹⁶, at ICCF-12 (with Tom Passel) in 2005 at Yokohama, Japan, and at ICCF-14 (with Cantwell and Matt McConnell) in 2008 at Washington, D.C.⁹⁷ are shown in Figures 5-15, 5-16, and 5-17.

Dr. Storms provided a thorough description of his LENR research in his first book, particularly in Chapter 2, that covers his earliest work at LANL up to 2007, the date the book was published. The contents of the book have been reviewed for additional background and content for the Project. A timeline for this Component is provided in Appendix G-2.

5.9 Interviews

Discussions with Dr. Storms regarding his LENR research over the years since 1989 announcement provide an additional source of information for the Project^{98,99,100,101,102,103}. Three rounds of interviews were conducted in April 2016 (8 sessions), March 2017 (11 sessions), and June 2017 (15 sessions). A total of more than 22 hours of interviews was recorded and

⁹⁵ McKubre, M., 2015. A Brief History and Introduction to the International Conference Series, Part 2, ICCF-4 to ICCF-6. "History" on ICCF-19 website. Online. Available: <http://www.iccf19.com/history.html>.

⁹⁶ McKubre, M., 2015. A Brief History and Introduction to the International Conference Series, Part 4, ICCF-10 to ICCF-12. "History" on ICCF-19 website. Online. Available: <http://www.iccf19.com/history.html>.

⁹⁷ McKubre, M., 2015. A Brief History and Introduction to the International Conference Series, Part 5, From ICCF-13 to ICCF-15. "History" on ICCF-19 website. Online. Available: <http://www.iccf19.com/history.html>.

⁹⁸ "Detailed Interview Sessions During Onsite Visit #9". Memo to Edmund Storms from Tom Grimshaw, April 6, 2016.

⁹⁹ "Trial Transcription of Interview Session #1 by Online Service, Rev.com". Memo to Edmund Storms from Tom Grimshaw, April 7, 2016.

¹⁰⁰ "LENR Work History (Lab Notebooks): Status Update with Photo and Audio Recordings ". Memo to Edmund Storms from Tom Grimshaw, April 20, 2016.

¹⁰¹ "Transcriptions of Interviews for the Phase 3 Report of the Storms LENR Research Documentation Project". Memo to Edmund Storms from Tom Grimshaw, June 13, 2016.

¹⁰² "Transcriptions of March, 2016 (Round 1) Interviews". Memo to Edmund Storms from Tom Grimshaw, July 9, 2016.

¹⁰³ "Annotated Transcriptions of Three Rounds of Interviews (Rounds 1, 2, and 3)". Memos to Edmund Storms from Tom Grimshaw, August 22, 2016.



*Figure 5-14.
Dr. Storms with Charles Beaudette at ICCF-5, Monte Carlo, 1995. Photo Courtesy of
Gene Mallove.*



*Figure 5-15.
Dr. Storms with Michael Melich at ICCF-10, Cambridge, MA, 2003. Photo Courtesy
of Gene Mallove.*



Figure 5-16.
Dr. Storms with Tom Passell, Enjoying Taiko Drums at ICCF-12, Yokohama, Japan, 2005.
Photo Courtesy: David Nagel.



Figure 5-17.
Dr. Storms with Rick Cantwell (left) and Matt McConnell at ICCF-14, Washington, DC, 2008.
Photo Courtesy: Duy Tran.

transcribed. The interviews were recorded using an iPhone app, SmartRecord. The recorded

interviews were submitted to the online service Rev.com for transcription. The printed transcriptions were reviewed to add annotations, fill in missing information, and correct names and spelling errors. Preliminary interviews have also been held with Tom Claytor and Malcolm Fowler, both LANL retirees, for possible future documentation of LENR investigations¹⁰⁴.

5.10 File Management and Storage

The electronic files have been organized and copied into a storage device set up for the Project. Electronic information has been copied into the storage device using the following organization:

Stage 1	Other Categories
Stage 2	Onsite Visit #8
Stage 3	Onsite Visit #9
Project Components	Onsite Visit #10
Project Memos	Onsite Visit #11
Interviews	

The hard-copy files and other Project materials are in a set of storage tubs in Dr. Storms' home. As described in Section 5.4, the Round 1 hard-copy files have been placed in hanging folders in storage tubs that are kept at Dr. Storms' home laboratory. Tubs I to VIII contain the Sets of hard-copy files. Tubs IX to XII contain materials for other Project Components¹⁰⁵. The tub contents are summarized below.

<u>Tub</u>	<u>Description</u>
I - VIII	Round 1 Hard Copy Files (Sets 1 to 32)
IX	Lab Notebooks and 2014 Book (Preprints)
X	Extra Copies of LENR Magazines
XI	ZIP Disks, CDs, DVDs, External Hard Drive, Floppy Disks
XII	Filing Supplies

¹⁰⁴ “April 2016 Interviews: Transcripts (Claytor and Fowler)”. Memo to Tom Claytor and Malcolm Fowler, April 10, 2016.

¹⁰⁵ Additions to and Reorganization of Electronic Media in Project Storage Tubs”. Memo to Edmund Storms from Tom Grimshaw, April 9, 2017.

6 *Review of Records for Additional Insights*

A principal objective of the Storms LENR Research Documentation Project has been to collect and organize Dr. Storms' research records so that he (and possibly others in the future) can further analyze and interpret the materials for improved understanding of LENR based on additional perspectives gained since the experiments were originally performed. He is currently reviewing the records for this purpose.

7 Conclusions and Future Opportunities

Dr. Storms took an early interest in LENR research and has worked diligently in the field for the 29 years since its 1989 announcement. His 30+ years of work with high-temperature materials research at LANL provided an unparalleled foundation for LENR research. His training and research as a nuclear chemist made him especially well-qualified to understand LENR, which almost certainly involves both the electron shell (chemistry) and the nucleus (nuclear physics) of the atoms involved in the reaction. His research into the phenomenon while still at LANL resulted in success in achieving LENR as indicated by the signatures of tritium production and excess heat generation. He and Tom Claytor led the two teams that had success at LANL, and both continue to research the phenomenon to this day.

Dr. Storms has made many contributions with both sophisticated experiments and advanced explanations of the LENR phenomenon. He has developed a sophisticated home laboratory in which he has conducted experiments employing all the methods known to produce LENR using its various signatures, including excess heat, radiation, tritium production, and elemental transmutation. His novel exclamations, such as the nanocrack and hydroton idea for nuclear reaction, conform generally to current scientific understanding but also push into the frontiers of new knowledge. He has enjoyed the sponsorship from a number of supporters having various motivations such as scientific advances and commercial success. He has been successful in achieving well-documented LENR using several different experimental set ups and signatures.

Dr. Storms has written two books and he has published many papers as well as unpublished reports on experimental findings and their interpretation for creative explanation. He has developed and maintains perhaps the most complete library of LENR publications in existence today.

Dr. Storms has served as a vital member of the LENR research community from the very beginning. He has provided intellectual and other support to other investigators, and he has been willing to share his expertise and insight freely. He has attended all but a handful of the 20 ICCF conferences starting with the first one in 1990.

The future of humankind may well depend on achieving LENR and realizing its benefits as a clean, abundant, and inexpensive source of energy. Society will owe a great deal to Dr. Storms when LENR becomes a reality it is widely deployed as a source of energy.

There are a number of opportunities for additional compilation of Dr. Storms' LENR research from the earliest weeks of the field through 2015. Almost all of the Project Components could be documented in greater detail, and the associated timelines could be further refined, leading to a more complete Integrated Timeline. In particular, the relationship among the Components could be further analyzed and a more complete picture of the research and results developed. For example, the lab activities recorded in the lab notebooks (work history) could be related directly to the experimental data generated as documented in the electronic data files and hard-copy records. Since the cutoff date for the Project is December 31, 2015, the effort could be extended for 2016 and 2017. Some of the Components, including the Round 2 hard-copy files and Dr. Storms' interviews, have not yet had timelines prepared.

Technical analysis and interpretation could be another fruitful area for further development. For example, the information may be amenable for study for a graduate thesis or dissertation to derive more value from the work performed by Dr. Storms. He has, in fact, noted that further review and analysis by himself may result in new insights or discoveries. Additional analysis will become more important as the prospects for LENR realization improve over time and continued by research by Dr. Storms and others. A permanent location for the hard-copy and electronic records will be advisable, such as a repository at a qualified and interested university.

Appendix A. Memos for Documenting Progress

A-1. Memos for Round 1, Onsite Visits #1 to #7

10 Publications

<u>Date</u>	<u>Subject</u>
9/16/15	Collection of Papers and Publications: Part 1
9/17/15	Collection of Papers and Publications: Part 2
9/19/15	Collection of Papers and Publications: Part 3
9/19/15	Collection of Papers and Publications: Part 4
9/20/15	Collection of Papers and Publications: Part 5
9/21/15	Collection of Papers and Publications: Part 6
9/21/15	Collection of Papers and Publications: Part 7
9/22/15	Collection of Papers and Publications: Part 8
9/22/15	Collection of Papers and Publications: Part 9
9/22/15	Collection of Papers and Publications: Part 10
9/23/15	Collection of Papers and Publications: Part 11
9/23/15	Collection of Papers and Publications: Part 12
9/23/15	Collection of Papers and Publications: Part 13
9/25/15	Collection of Papers and Publications: Part 14
9/26/15	Collection of Papers and Publications: Part 15
9/26/15	Collection of Papers and Publications: Part 16
9/26/15	Summary of Collection of LENR Papers and Other Items
11/29/15	Collection of LENR Papers and Other Items: Consolidated Files
3/4/16	Collected Works of Cold Fusion (LENR) Papers
4/24/16	Collected Works of Cold Fusion (LENR) Papers: Update

20 Unpublished Progress Reports

<u>Date</u>	<u>Subject</u>
2/11/16	Progress Reports in LENR Data File Collection
3/23/16	Progress Report Candidates Found in Data Files from LENR Experiments
3/31/16	Progress Reports and Related Documents in Files Received from ZIP Disks and CDs
5/21/16	Progress Reports and Related Documents in Two Datasets for the Storms LENR Research Documentation Project
5/28/16	Progress Reports and Related Documents in Two Datasets for the Storms LENR Research Documentation Project (Update)

30 Lab Notebooks (Work History)

<u>Date</u>	<u>Subject</u>
8/18/15	LENR Lab Notebook Inventory
1/18/16	LENR Work History (Table Refinements and Additions after Final Submittal)
2/19/16	Stage 1 Report: LENR Work History
4/20/16	LENR Work History (Lab Notebooks): Status Update with Photo and Audio Recordings

A-1. (Continued)

40 Electronic Data Files for Work History¹⁰⁶

<u>Date</u>	<u>Subject</u>
12/28/15	Inventory of Data Files Accompanying Work History
1/19/16	Detailed Inventory of Data Files from LENR Experiments
<u>Date</u>	<u>Subject</u>
11/19/15	Inventory of Files Received from ZIP and CD Disks
3/27/16	Detailed Inventory of Files Received from ZIP and CD Disks
3/31/16	Progress Reports and Related Materials in Files Received from ZIP Disks and CDs

50 Hard Copy Records

<u>Date</u>	<u>Subject</u>
9/6/15	Index for Hard-Copy Files
1/9/16	Scanning of Hard-Copy Files: Stage 1
2/19/16	Stage 1 Report for Hard Copy Files Stored in Tubs
4/21/16	Completion of Stage 1 Processing Hard Copy Files Stored in Tubs

60 Research Laboratory

<u>Date</u>	<u>Subject</u>
12/9/15	Description of LENR Laboratory Facilities, Santa Fe, NM As Of January 2015

60 LENR Library

<u>Date</u>	<u>Subject</u>
2/22/16	Stage 1 Summary: LENR Library Holdings
4/17/16	Inventory of Bookshelf Materials in Storms' Office

95 Interviews

<u>Date</u>	<u>Subject</u>
4/20/16	LENR Work History (Lab Notebooks): Status Update with Photo and Audio Recordings
7/9/2017	Transcriptions of March, 2016 (Round 1) Interviews

¹⁰⁶ Two sets of files (referred to as SF and ZC) were obtained from different sources. They are described in Section 2.4.

A-1. (Continued)

97 Project Management and Additional Topics

<u>Date</u>	<u>Subject</u>
6/10/15	Professional Biography Initiative
11/1/15	Storms LENR Documentation Project: Status and Next Steps
12/17/15	Storms LENR Documentation Project: Status and Next Steps
12/26/15	Summary of Meetings During December 19 to 23 Visit
2/1/16	Summary of Memos Describing Components of Storms LENR Research Documentation Project
2/13/16	Storms LENR Research Documentation: Status and Proposed Next Steps
5/30/16	Candidate Photos for Storms LENR Research Documentation Project
6/1/16	Summary of Memos Describing Components of Storms LENR Research Documentation Project (Update)

Appendix A-2. Memos for Round 2, Onsite Visit #8

40 Electronic Data Files

<u>Date</u>	<u>Subject</u>
9/25/15	Assuring Access to Electronic Files Generated in LENR Research: Not Yet Accomplished
10/22/16	Inventory of 3.5-Inch Floppy Disks Added to Project During Onsite Visit #8 (August 2016)
10/23/16	Inventory of CDs and DVDs Added During Onsite Visit #8 and from Storms' LENR Library
10/25/16	Location of ZC Folders and Files in Source Media: ZIP Disks and CDs
10/27/16	Preliminary Inventory of Folders and Files Stored on Your Current Computer as Provided on August 10, 2016
10/28/16	Folders and Files Stored on LaCie 8900 External Hard Drive: Preliminary Inventory

50 Hard Copy Records

<u>Date</u>	<u>Subject</u>
10/19/16	Hard Copy Files: Assignment of Dates and File Reorganization

60 Research Laboratory

<u>Date</u>	<u>Subject</u>
9/26/16	Electrolytic Cells and Calorimeters Used in LENR Research
12/20/16	Photographs of LENR Research Activities: Conferences and Meetings, Laboratories, and Electrolytic (and Related) Cells

80 Conferences

<u>Date</u>	<u>Subject</u>
12/20/16	Photographs of LENR Research Activities: Conferences and Meetings, Laboratories, and Electrolytic Cells

97 Project Management and Additional Topics

<u>Date</u>	<u>Subject</u>
7/10/16	Dropbox Organization and Collected Memos Volume for Storms LENR Research Documentation Project
7/27/16	Integrated LENR Research Timeline: Test Case
8/13/16	Storms LENR Research Development Project, Onsite Visit #8, July 31 to August 11, 2016: Summary of Activities and Accomplishments
10/30/16	Status Summary for the Storms LENR Research Documentation Project
12/17/16	Research at Los Alamos National Laboratory Prior to LENR Involvement

Appendix A-3. Memos for Round3, Onsite Visit #9

40 Electronic Data Files

<u>Date</u>	<u>Subject</u>
4/9/17	Additions to and Reorganization of Electronic Media in Project Storage Tubs
4/11/17	Tabulation of the Contents of CDs, DVDs, and VHS Tapes in Project Component CVD

50 Hard Copy Records

<u>Date</u>	<u>Subject</u>
4/1/17	Additional File Boxes for Hard Copy Files (Project Component HCF)

95 Interviews

<u>Date</u>	<u>Subject</u>
4/6/17	Detailed Interview Sessions During Onsite Visit #9
4/7/17	Trial Transcription of Interview Session #1 by Online Service, Rev.com

97 Project Management and Additional Topics

<u>Date</u>	<u>Subject</u>
3/13/2017	Inventory of Claytor Materials Related to Early Cold Fusion Research at Los Alamos National Laboratory
3/24/17	File Boxes for Pre-LENR Research at Los Alamos National Laboratory

Appendix A-4. Memos for Round 4, Onsite Visit #10

40 Electronic Data Files

<u>Date</u>	<u>Subject</u>
3/27/16	Detailed Inventory of Files Received from ZIP Disks and CDs ???
6/21/17	Printed Floppy Disk Files of Project Component 46FLD
8/16/17	Contents of and Electronic File Subcomponents: Printed Copy for Onsite Review
10/9/2017	Phases and Notes for Floppy Disk Files (Project Component 46FLD)

50 Hard Copy Records

<u>Date</u>	<u>Subject</u>
6/11/17	Additional File Boxes for Hard Copy Files (Project Component HCF)
6/25/17	Scanned Contents of Hard Copy Files, Tubs I-VII and A-F

95 Interviews

<u>Date</u>	<u>Subject</u>
6/13/17	Transcriptions of Interviews for the Phase 3 Report of the Storms LENR Research Documentation Project
8/22/17	Annotated Transcriptions of Three Rounds of Interviews (Round 1, Part 1 of 3)
8/22/17	Annotated Transcriptions of Three Rounds of Interviews (Round 2, Part 2 of 3)
8/22/17	Annotated Transcriptions of Three Rounds of Interviews (Round 3, Part 3 of 3)

97 Project Management and Additional Topics

<u>Date</u>	<u>Subject</u>
6/10/17	April 2016 Interviews: Transcripts (Claytor and Fowler)

Appendix A-5. Memos for Round 5, Onsite Visit #11

50 Hard Copy Records

<u>Date</u>	<u>Subject</u>
10/13/17	Hard Copy Files, Tubs I to VII and A to F: Assignment to Project Phases

97 Project Management and Additional Topics

<u>Date</u>	<u>Subject</u>
10/11/17	Collection of Project Memos for Rounds 1 to 5 of the Storms LENR Research Documentation Project