COLD FUSION EXPERIMENTS AND THEORY DEVELOPMENT

DOCUMENTATION OF DR. EDMUND STORMS' LENR RESEARCH CAREER

SANTA FE, NEW MEXICO

Stage 2 (Organization) Report
Second Draft

Thomas Grimshaw, Ph.D.
Energy Institute
The University of Texas at Austin

Edmund Storms, Ph.D.
Santa Fe, NM

June 3, 2017

energy institute
THE UNIVERSITY OF TEXAS AT AUSTIN

Contents

Summary

Dr. Edmund Storms was one of the first researchers to follow up on the cold fusion claims of Martin Fleishman and Stanley Pons in March 1989. He has continued his cold fusion (now widely referred to as low-energy nuclear reactions, LENR) research in the years since, first in his position at Los Alamos National Laboratory (LANL) and then in his home laboratory in Santa Fe, New Mexico. His work has included both laboratory experiments and development of a theory to explain the LENR phenomenon.

During his 27 years of investigations, Dr. Storms has developed one of the most extensive LENR research records in existence. Much of this work is available in the public realm through his publication of papers and presentations at conferences. There is in addition an extensive body of research results that are in Dr. Storms' private files. A project has been undertaken to compile the publicly-available documents and to capture, organize, and store the private records. The initiative, termed the "Storms LENR Research Development Project" is being performed by Dr. Storms and Dr. Thomas Grimshaw, who also has LENR interest in the area of public policy.

The Project is being accomplished in three stages – information collection, organization, and documentation. Stage 1 began in August 2015. Most of the work was performed onsite in Dr. Storms' home laboratory, with much of the recording and reporting of incremental steps taking place at the Energy Institute at The University of Texas at Austin. The accumulated records are stored in electronic form in the Cloud (Dropbox) and in hard-copy files in hanging folder tubs at Dr. Storms home lab. The records and descriptions obtained in the Project are in seven categories:

Publications	Hard Copy Records
Unpublished Progress Reports	Research Laboratory
Lab Notebooks (Work History)	LENR Library
Electronic Data Files	

The Electronic Data Files Component consists of subcomponents defined on the basis of their origin – Dr. Storms' current computer, ZIP discs, CDs, DVDs, VHS tapes, 3-1/2 inch floppy disks, and an external hard drive. LENR conferences in which Dr. Storms gave presentations and papers have been established as an eighth Component. Records were accumulated for the project during nine on site visits from August 2015 to April 2017. The second draft of the Stage 1 report was submitted on April 18, 2017.

In this Stage 2 report, the records collected in Stage 1 are organized in an Integrated Timeline of the Project Components. The Timeline has been sorted by year and month to prepare the records for additional analysis for the various phases of Dr. Storms' LENR research career. The results of the analysis – and associated narrative – are planned for Stage 3.

Introduction

Cold fusion was announced by Dr. Martin Fleischmann and Dr. Stanley Pons at a press conference at the University of Utah in March 1989. The potential benefits of cold fusion (now widely referred to as low energy nuclear reactions, LENR) as a new source of energy were quickly realized. Numerous attempts have been made worldwide to confirm the LENR claim. Dr. Edmund Storms, one of the earliest researchers to follow up, has continued to conduct research and develop explanations in the 28 years since the announcement. As a consequence, he has created one of the most extensive LENR research records in existence.

Dr. Storms began his career at Los Alamos National Laboratory (LANL) in the mid-1950s. His work was primarily on high temperature refractory materials. LANL was one of the preeminent research organizations where early attempts were made to replicate LENR. Investigations began soon after the 1989 announcement. Dr. Storms led one of the research teams that had success, as indicated by production of tritium and anomalous heat as the unambiguous signatures. He continued his LENR research at LANL until his retirement in August 1991.

After a break in his LENR research activities, Dr. Storms began experiments at his private laboratory in Santa Fe, New Mexico in about June 1995. This experimental work has continued up to the present day. During this timeframe, he has also made contributions to explanation of the LENR phenomenon. His preeminent LENR publications are two books, one published in 2007[1] and the other in 2014[2]. An overview of Dr. Storms' LENR research career appears in Section 4 below.

Storms LENR Research Documentation Project

During his many years of LENR research, Dr. Storms published many reports and has developed a large body of experimental data and unpublished reports. The data and reports currently exist in Dr. Storms' private collection of electronic and hard-copy files. A project has been undertaken

[1] Storms, E., 2007, The Science of Low Energy Nuclear Reaction. Singapore: World Scientific.

[2] Storms, E., 2014. The Evaluation of Low Energy Nuclear Reaction: An Explanation of the Relationship between Observation and Explanation. Concord, NH. Infinite Energy Press.

with the assistance of Dr. Thomas Grimshaw to collect and organize Dr. Storms' research files and make them more readily accessible. The initiative is referred to as the "Storms LENR Research Documentation Project" or "Project". It is being conducted in three stages – information collection, organization, and documentation (LENR career summary). A report is being prepared for each stage. Work began in August 2015[3] when Dr. Grimshaw made his first onsite visit for information collection. The "cutoff date" for the Project is December 31, 2015.

Information has been collected from more than a dozen sources, referred to as Project Components, in Stage 1. The current draft of the Stage 1 report was submitted to Dr. Storms on April 18, 2017[4]. Additional information on the Project is provided in Appendix A of this report and in the Stage 1 report.

The objective of Stage 2 is to organize the LENR research information collected in Stage 1. The organization is being accomplished by developing a research career timeline. Events, milestones, and other items were identified for each Component, and individual timelines were prepared in Stage 1. After the individual timelines were completed, they were assembled in an Integrated Timeline in Stage 2. The Integrated Timeline has been sorted by year and month to provide insight into the research activities that were taking place year by year. The Timeline has been reviewed and organized for analysis and interpretation for Stage 3, in which a narrative is planned for the various phases of Dr. Storms' LENR research career.

Section 2 of this report provides a brief summary of the findings of Stage 1. The main items of the Integrated Timeline are presented in Section 3. Section 4 contains a highlights of Dr. Storms' LENR research career, and Section 5 outlines plans for Stage 3. Appendices A, B, and C include descriptions of methods used in the project, a more detailed summary of the Stage 1 report, and an overview of Dr. Storms' research prior to his involvement with LENR. Appendices D and E contain the Integrated Timeline in two parts, which are described below.

[3] The Project was actually initiated in the Spring 2015 ("Professional Biography Initiative: Next Step". Memo to Ed Storms from Tom Grimshaw, June 10, 2015), but substantive effort began in August.

[4] Grimshaw, T.W., and Storms, E.K., 2017. Cold Fusion Experiments and Theory Development: Documentation of Dr. Edmund Storms' LENR Research Career, Stage 1 (Information Collection) Report, Second Draft. April.

Conclusions

The future of humankind may well depend on achieving LENR and realizing its benefits as a clean, abundant, and inexpensive source of energy. Dr. Storms has played a key role in advancing understanding of the LENR phenomenon. Society will owe a great debt to Dr. Storms when LENR becomes a reality and is widely deployed as a source of energy.

Acknowledgments

The authors wish to extend their gratitude particularly to their spouses, Carol Storms and JoAnne Grimshaw. Carol participated in the pursuit of LENR with Dr. Storms in the early days of the field. For this Project, she was not only a gracious hostess for the onsite visits, but was also a valuable source of information and perspectives from her early experience in LENR research. JoAnne Grimshaw also provided support both on-site during the visits and in the Austin-based part of the Project. She also reviewed many of the Project reports.

Tom Claytor and Malcolm Fowler, both participants in preparation of proposals that preceded the Project, were also valuable resources for information about LENR development, particularly for the early efforts at LANL[5,6,7]. Acknowledgment is also given to the managers of the Energy Institute for supporting a LENR initiative within the organization. Thanks especially go to Fred Beach, Assistant Director, for his interest in LENR and for serving as "mentor" for the Project and other activities at the Energy Institute such as energy policy toward LENR.

[5] The Project was preceded by initiatives by Dr. Storms and Dr. Grimshaw to establish a new laboratory in Santa Fe separate from Dr. Storms' home lab. These initiatives resulted in two versions of a proposal (see next two footnotes), both in collaboration with Dr. Tom Claytor. Dr. Claytor, like Dr. Storms, is a retiree from Los Alamos National Laboratory who operates his own private LENR lab. It is located in White Rock, NM. Funding for the two initiatives has not yet been acquired.

[6] Storms, E., T. Grimshaw, and T. Claytor, 2013. Proposal for a Santa Fe LENR Research Laboratory, Los Alamos and Santa Fe, New Mexico. December.

[7] Claytor, T., E. Storms, M. Fowler, and T. Grimshaw (LENRGY Collaboration), 2015. Investigation of LENR for Energy Production. March.

1 Stage 1 Findings

The records collected for Dr. Storms' LENR research during Stage 1 include both publicly available publications and unpublished data and reports. As noted in Section 1, information was collected from a number of sources in his home laboratory. The sources have been organized in the following Components:

- Publications
- Unpublished Progress Reports
- Work History
- Electronic Data Files
  - Storms Computer Files (Round 1)
  - Storms Computer Files (Round 2)
  - ZIP and Round 1 CD Files
  - Round 2 CDs, DVD Files and VHS Tapes
  - External Hard Drive Files
  - 3–1/2 Inch Floppy Disk Files
- Hard Copy Records
- Research Laboratory
- LENR Library
- Conferences
- 2007 Book

Brief descriptions of these Components are summarized in this section. More detail is presented in Appendix B. Complete descriptions may be found in the Stage 1 report.

The Publications Component includes about 125 publicly available papers that were prepared from 1989 to 2015. In the Unpublished Progress Reports Component, approximately 111 items were found, many of them prepared to show results of Dr. Storms' work to sponsors. Ten laboratory notebooks were incorporated in the Project, covering the period from June 1995 to November 2015. The notebooks were carefully reviewed and annotated by Dr. Storms, resulting in a spreadsheet with more than 2750 entries. This "Work History" constitutes an a principal Component of the Project.

Electronic data files were obtained from six different sources, which are designated as Subcomponents. Two Subcomponents include files that were obtained from Dr. Storms' current computer on two different onsite visits. Legacy media were another source of electronic files,

including ZIP desks, CDs, DVDs, VHS tapes, an external hard drive, and 3-1/2 inch floppy disks. Each of these media comprises a Subcomponent of the Project.

Hard-copy records, another Component, were found in Dr. Storms' office and in storage areas of his home laboratory. These files, along with the legacy storage media, have been placed in storage tubs in Dr. Storms' home laboratory. The LENR library, also located in Dr. Storms' office, is another important Component; it contains many publications by him and many other LENR investigators. Component descriptions are also provided for Dr. Storms' research laboratory and for the 15 ICCF conferences he attended (of 18 held) from 1989 to 2013, and for a chapter of his 2007 book that is particularly significant for the Project.

2 Research Timeline

The elements of information obtained in each Component (and Subcomponent) were reviewed, and dates (month and year) were assigned to the elements where possible. Timelines were then prepared for each Component in Stage 1 using spreadsheets in which the elements were sorted 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 Timeline (excluding Work History) is in Appendix D. The Work History Timeline is in Appendix E. It was prepared separately from the other Components because of the importance of the experiment descriptions to the Project and because it has many more entries in the spreadsheet then all the other Components combined.

The Timelines in Appendices D and E have been further analyzed in this Section, and redundant entries have been consolidated. The entries are also rearranged in the following order: a) work history (lab notebook entries), b) information on experiment and results, c) publications and unpublished reports, d), other information found in the Project, and e) other relevant external (to Dr. Storms' research) items and events in the LENR field. The entries are shown below for each year. This year-by-year presentation provides the basis for defining and describing the various phases of Dr. Storms' LENR research career in Stage 3.

2.1 1989 Activities and Events

March

46FLD Set 1: Star C. Cold Fusion Text Archives
50HCR Start of LENR memos by Storms while at LANL
50HCR Start of lab-wide CF-related memos. (REV)
90BOK First LANL Cold Fusion meeting, Electrochemical fusion, 3/27
90BOK First LANL Cold Fusion work by Shimson Gottesfeld (MEE-11), 3-28

April

46FLD Set 1: progress. Cold Fusion. Progress & memos & proposal
50HCR Storms presentation: "Cold Fusion, Present Status As a Significant Phenomenon". LANL, Nuclear Materials Division.
50HCR Hard copy materials (newspapers, etc.) (REV)
50HCR CF memos at LANL
90BOK Multiple programs underway at LANL and seven other National Labs, 4/19
90BOK Energy Research Advisory Board (ERAB) Panel formed by Secretary of Energy James Watkins, 4/24
50HCR LANL Report to the ERAB prior to on-site visit. Tub I,Set 1G
44CVD, 90BOK "Cold Fusion" by. Stanley Pons. April 18, 1989. National Lab Colloquium. James Keele. T-120 Copy
90BOK American Chemical Society meeting in early April. Addressed by Fleishman and Pons.
90BOK Materials Research Society meeting, 4/26

May

46FLD Set 2: backup. Physical Study. Data Index 1990
50HCR Data from LANL LENR tritium work by Ed Storms. Palladium analysis - micrographs, x-ray results.
46FLD LENR work by Ed Storms: Physical Study. Set 2: back up
50HCR LENR work by Ed Storms: Cold Fusion Micrographs. Manila envelope. From LANL Experiments. "CPM. Chemical and other analyses. Tub II, Set 6B
50HCR Hard copy materials (newspapers, etc.) (REV)
50HCR LENR reports by other DOE labs. Livermore, others?
90BOK Two teams report cold fusion success at LANL, late May
50HCR Eugene Mallove Media Advisory with attached papers
90BOK Los Alamos National Laboratory and the US Department of Energy. Workshop on Cold Fusion Phenomenal. Santa Fe, New Mexico, 5/23 to 25, 1989.
90BOK American Physical Society Special Section on Cold Fusion, 5/1.
90BOK Electrochemical Society Meeting, with presentation by Fleishman and Pons, 5/5 or 5/7/1989.

June

46FLD Set 1: CF data. cold fusion data folder. 1991 Tritium Production

50HCR Two LANL memos: 6/2/89, 6/9/89 (REV)
50HCR 32 Newspaper coverage of CF (REV)

August
50HCR LANL proposal to DOE for funding CF studies

October
46FLD Archive ARTICLES Part 5 of 5. Archive ARTICLES.spanned. Disk label: . EndNote.spanned. Calorimeter studies 2004.spanned. CURRENT ARTICLES. Developer. Documents. DOE talk
46FLD Cold fusion letters. Set 1.
46FLD Cold fusion text archives. Set 1.

November
46FLD Effect of Hydrating: Paper and data
46FLD Electrolytic Tritium: Paper and data
90BOK ERAB report released

December
46FLD Set 2: Cold Fusion. Cold Fusion archive data

No Month (13)
90BOK Tritium studies with more than 250 cells by Storms and Talcott (late 1989 to 1990)
10PUB, 90BOK Tritium detection in cold fusion experiments by Tom Claytor (late 1989 to 1990)
50HCR LANL experiment data. "Historical data for Twitty homework". Data from earliest tritium work at LANL. "To Sample 203".
10PUB Tritium studies with more than 250 cells by Storms and Talcott, late 1989 to 1990.
10PUB Talcott, CL et al., Tritium Measurements: Methods, Pitfalls, and Results. in EPRI/NSF Workshop. 1989. Washington, DC
10PUB Storms, E, in C Talcott, Attempts to Understand and Reproduce Called Fusion. Workshop on Cold Fusion Phenomenal. Santa Fe. Abstracts. May 1989.
10PUB Storms, E., and C. Talcott. Electrolytic Charging a Palladium with Deuterium Too High Stoichiometry. P. Report, Editor.
10PUB Storms, E., A New Method for Initiating Nuclear Reactions. In First International Conference on Future Energy. Washington DC. Unpublished.
10PUB Storms, E., C. Talcott, and M. David., Recent results for electrolytic tritium production at Los Alamos. 1989.

2.2 1990 Activities and Events

January
50HCR Reports in Italian

February
46FLD Various CF talks. Set 1. (REV)
50HCR "Cold Fusion Data". Manila envelope, Chemical Analysis Reports. Data from earliest tritium work at LANL
90BOK Visit to LANL by Martin Fleischmann

March
43ZCD 103. TRITIUM STUDY. ZIP 4? (REV)
10PUB, 90BOK Storms, E.K. and C.L. Talcott. A study of electrolytic tritium production. in The First Annual Conference on Cold Fusion. 1990. University of Utah Research Park, Salt Lake City, Utah: National Cold Fusion Institute. p. 149.
70LLB, 90BOK 1st Annual Conference on Cold Fusion Conference (ICCF-1), Salt Lake City, Utah (3/28-31/90)

June
50HCR Progress Report for the Period 1/90 – 6/90 (for) Work Supported by USDOE/OBES. TRITIUM PRODUCTION IN ELECTROLYTIC CELLS.

July
70LLB, 90BOK Cold Fusion. World Hydrogen Energy Conference #8. Hawaii Hydrogen 90 (7/22-27/90)

August
46FLD Tritium Data. Set 1: tritium study
October
90BOK Meeting at Brigham Young University hosted by Steve Jones
December
70LLB Anomalous Nuclear Effects in Deuterium/Solid Systems, Provo, Utah. Institute of Physics, AIP Conference Proceedings 228.

No Month (13)
50HCR Miscellaneous transparencies.
10PUB Storms, E.K., Letter to Science. 1990.
10PUB Talcott, C.L. and E. Storms. An overview of "cold fusion". in JOWOG-12 Meeting, Atomic Weapons Estab. 1990. Aldermaston, England. p.
10PUB, 50HCR Storms, E. and C.L. Talcott, Electrolytic tritium production. Fusion Technol., 1990. 17: p. 680.
90BOK Cold Fusion Institute formed in Salt Lake City, directed by Fritz Will (1990-1991)

2.3 1991 Activities and Events

February

46FLD Set 1: papers 2. 28th Intersociety CANR-Paper. ICCF-4. Minsk conf. Review – 1991. Electrolytic heat

March

50HCR Correspondence. Letter stopping LENR work at LANL. McKubre, Rothwell, Entenmann, Biberian, Larsen. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19C.

June

50HCR LANL CF memos and related material. Scanned.

44CVD, 70LLB, 80CON 2nd Annual Conference on Cold Fusion (ICCF-2).The Science of Cold Fusion, Como, Italy (6/29/91 – 6/4/91). ICCF2. Lake Como, Italy. Proceedings. Tapes 1 & 2.

July

50HCR Micrographs and Miscellaneous. Includes LANL CF Memos. Set 7A: Photo Micrographs. Data from earliest tritium work at LANL.

December

90BOK Storms receives funding from LANL division leader

46FLD Set 1: calorimeter. Calorimeter drawings, calorimeter graphs

90BOK Palladium samples from Takahashi in Japan analyzed

90BOK "Fire from Ice" by Eugene Mallove

90BOK "Too Hot to Handle" by Frank Close

No Month (13)

90BOK Comprehensive review of LENR up to May 1991 by Storms

90BOK Storms retired (as staff member) from LANL; continued as consultant, worked on cold fusion periodically

10PUB Storms, E., Review of experimental observations about the cold fusion effect. Fusion Technol., 1991. 20: p. 433.

10PUB Storms, E.K. and C. Talcott-Storms, The effect of hydriding on the physical structure of palladium and on the release of contained tritium. Fusion Technol., 1991. 20: p. 246.

2.4 1992 Activities and Events

January

50HCR Cold Fusion Papers. Scanned. Tub II. Set 4B2.

February

50HCR Correspondence: Entenmann, Leitz, Kozima, Little, Fleischmann, Shanahan, Swartz, Rothwell, Dash, Beaudette, Miley, Jones, Srinivasan, T Chubb, Letts, McConnell, McKubre, Polansky, Britz. Scanned. Storms "Pile 1". Correspondence. Early period – 1990s. Many letters to CF early "major players". 8 folders, in original order of pile. Tub V. Set 18E.

March

50HCR Correspondence: Letts, etc. Scanned. Tub II. Set 4B1.

April

46FLD Set 1: calorimeter data. Excel. Calibration. Pt Test #1-19 + Summary

May

46FLD Set 1: Pd #24-12c. Excell data. Pd #24 to 12c. Excess volume

46FLD Set 1: Pd charging #1-10. Excell data. Pd charging Pd #1 - #10.

July

46FLD Set 1: 1d to now. Pd #1d to now

46FLD Set 1: Calibration. Calibration. Test #1-22

50HCR Correspondence. Scanned.

October

50HCR Lagowski proposal, Swett Committee. Scanned.

10PUB, 80CON Storms, E. Measurement of excess heat from a Pons-Fleischmann type electrolytic cell. in Third International Conference on Cold Fusion, "Frontiers of Cold Fusion". 1992. Nagoya Japan: Universal Academy Press, Inc., Tokyo, Japan. p. 21.

70LLB 3rd International Conference on Cold Fusion (ICCF-3). Frontiers of Cold Fusion (10/21-25/92)

December

43ZCD 5. Archive ARTICLES. ZIP4. Attachment A for expanded description. Incl. ICCF 1, 3-7.

No Month (13)

10PUB Talcott, C.L., et al., Effects on the palladium deuteride lattice constant upon alloying with lithium, draft, Editor. 1992.

2.5 1993 Activities and Events

January

46FLD Set 1: Cold fusion talk.

44CVD Archive ARTICLES Part 1 of 5. OCCDF-10 + 10 additional folders & files. Disk label: CALORIMETER STUDY.spanned

44CVD Documents – Part 1 of 15. Archive ARTICLES. Austin talk. BOOK. Calculations. Calorimeter studies 2004.spanned. Disk label: . Archive ARTICLES. Calorimeter studies 2004.spanned.

46FLD Set 1: Cold fusion talk

50HCR Correspondence: Bockris, Rothwell, Little, Fox, Malllove, Passell, Patterson, Collis, others. Scanned. Storms "Pile 1". Correspondence. Early period – 1990s. Many letters to CF early "major players". 8 folders, in original order of pile. Tub V. Set 18A.

50HCR Correspondence. Scanned. Most related to manuscripts. 2 folders. Moved to Set 18, Correspondence. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19V.

March

46FLD Set 1: J#4. 2/29 – 9/5.

April

46FLD Set 1: J#4-2. J#4. 3/29 – . graphs & summary

May

44CVD DRW1000 Disk 1 of 2. Hearing before Subcommittee on Energy. May 5, 1993. Disk #1. Copied.

44CVD DRW1000 Disk 1 of 2. Hearing before Subcommittee on Energy. May 5, 1993. Disk #1. Copied.

50HCR, 70LLB, 90BOK Statement of Dr Edmund Storms (Los Alamos National Laboratory, ret.) before the House Committee on Science, Space, and Technology, Subcommittee on Energy, May 5, 1993. Scanned.

July

70LLB 4th International Conference on Cold Fusion (ICCF-4). Electric Power Research Institute. EPRI TR-104188-V1 (2,3,4). Project 3170. Lahaina, Hawaii (12/6-9/93). Proceedings Volumes 1 to 4.

August

50HCR Papers, Presentations, Miley Experiments. Scanned. Tub VIII. Set 22B.

December

10PUB, 80CON Storms, E. Some characteristics of heat production using the "cold fusion" effect. in Fourth International Conference on Cold Fusion. 1993. Lahaina, Maui: Electric Power Research Institute 3412 Hillview Ave., Palo Alto, CA 94304. p. 4. PB15. ICCF4. Lahaina, Maui, USA. Notebook Vol 1, Notebook Vol 2, Proceedings, (4 EPRI volumes), Transactions

70LLB 4th International Conference on Cold Fusion (ICCF-4), Lahaina, Hawaii. Notebook, Volume 1.

No Month (13)

46FLD Set 2: (Not readable). How to produce P-F effect. FP Award. When to listen. ICCF-4 photocopy

90BOK Publication of results of Takahashi analyses

10PUB Storms, E.K., Measurements of excess heat from a Pons-Fleischmann-type electrolytic cell using palladium sheet. Fusion Technol., 1993. 23: p. 230.

10PUB Storms, E. The status of "cold fusion". in 28th Intersociety Energy Conversion Engineering Conference. 1993. Atlanta, GA,. P.

90BOK "Bad Science: the Life and Times of Cold Fusion" by Gary

90BOK "Cold Fusion, Scientific Fiasco of the Century" by John Huizenga

90BOK Storms final retirement from LANL

2.6 1994 Activities and Events

January

46FLD Set 2: Letters. Cold Fusion Letters. 1984- .patterson data

April

50HCR Correspondence: Breed, Rothwell, Srinivasan, Patterson, Fleischman, Swartz, Little, Cravens, Letts, Miley, Bockris, Beaudette, Claytor, Fox. Scanned. Storms "Pile 1". Correspondence. Early period – 1990s. Many letters to CF early "major players". 8 folders, in original order of pile. Tub V. Set 18G.

May

50HCR ENECO. Scanned. Tub VI. Set 20D1.

June

44CVD Utah's News Team. Cold Fusion. June 1994. Not copied.

August

70LLB Development of Advanced Concepts for Nuclear Processes in Deuterated Metals. Electric Power Research Institute. Project 3170–01, EPRI TR-104195

September

50HCR Correspondence: Jones, Kozima, Beaudette, Valone, T Chubb, Rothwell. Scanned. Storms "Pile 1". Correspondence. Early period – 1990s. Many letters to CF early "major players". 8 folders, in original order of pile. Tub V. Set 18C.

No Month (13)

10PUB Storms, E.K., Walt Polansky DOE Briefing. 1994.

90BOK Storms joined Board of Directors of ENECO by request of Charles Becker

10PUB Storms, E., Chemically-assisted nuclear reactions. Cold Fusion, 1994. 1(3): p. 42.

10PUB Storms, E. Methods required for the production of excess energy using the electrolysis of palladium in D2O-based electrolyte. in International Symposium, "Cold Fusion and Advanced Energy Sources". 1994. Belarusian State University, Minsk, Belarus. p.

10PUB Storms, E.K., Some characteristics of heat production using the "cold fusion" effect. Trans. Fusion Technol., 1994. 26(4T): p. 96.

44CVD Good Morning America. 1994 Cold Fusion. Water-stained. Interview with Ed. Ed provided a copy.

10PUB, 90BOK Hansen, L.D., et al., Cooperative investigation of anomalous effects in Pd/LiOD electrolytic cells. 1994, A proposal submitted to the Department of Energy (1994).

2.7 1995 Activities and Events

March

46FLD	Set 2: Hypercard. Backup
50HCR	"Nondisclosure Agreements" Various entities. Scanned. Clasp envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19J.
50HCR	Kiva Labs: 2010. (Scanlan). Scanned.

April

50HCR	Nova Resources Scanned. Tub VIII. Set 32.
10PUB, 80CON	Storms, E. Status of "cold fusion". in 5th International Conference on Cold Fusion. 1995. Monte-Carlo, Monaco. p. 1.
70LLB	5th International Conference on Cold Fusion (ICCF-5), Monte Carlo, Monaco (4/9-13/95). Book of Abstracts, Proceedings, List of Participants

May

46FLD	Set 2: LABS PROPOSAL. ➔Ed Storms. from Steve Jones. PROPOSAL. LABS

June

30WRK	A1-B4#43, 91, 93, 44, 94, 45, 95, 40, 30, 1, 2
30WRK	A1-B1#1, 3, 4, 6, 5

July

30WRK	A1-B4#43, 91, 93, 44, 94, 45, 95, 40, 30, 1, 2
30WRK	A1-B1#1, 3, 4, 6, 5
20UPR	(7/3/1995). Update of activity, 7/3/95

August

30WRK	A1-B4#93, 91, 41, 43
20UPR	(8/17/1995). progress report 8/17/95

September

30WRK	A1-B4#91, 42
50HCR	"Review of Papers". ~2009-2014. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19U2.

October

30WRK	A1-B4#90
30WRK	A1-B1#39, 42
70LLB	Symposium on Fusion Engineering (SOFE '95): Seeking a New Energy Era, 16th IEEE/NPSS, Champaign, Illinois (10/1-5/95). Book of Abstracts. Final Program. Symposium Timetable and General Information.

December

30WRK	A1-B1#42

No Month (13)

10PUB	Storms, E., Cold Fusion: From reasons to doubt to reasons to believe. Infinite Energy, 1995. 1(1): p. 23.
10PUB	Storms, E.K., Cold fusion, a challenge to modern science. J. Sci. Expl., 1995. 9: p. 585.
10PUB	Storms, E. The nature of the energy-active state in Pd-D. in II Workshop on the Loading of Hydrogen/Deuterium in Metals, Characterization of Materials and Related Phenomena. 1995. Asti, Italy. p.
10PUB	Storms, E.K. Reaction of Pd with D. in ASTI. 1995. Asti, Italy. p.
10PUB	Storms, E.K., The nature of the energy-active state in Pd-D. Infinite Energy, 1995(#5 and #6): p. 77.
50HCR	How to Produce the Pons-Fleischmann Effect. Scanned. (4 copies). Tub VIII. Set 22D.

2.8 1996 Activities and Events

January	
30WRK	Pd#89, 67, 84, 88, 35, 87, 86, 33, 85, 81, 38, 64, 68, 69, 65, 70, 73, 37, 30
30WRK	NI(Fiberex)
February	
30WRK	Pd#71, 72, 51, 53, 55, 74, 75, 76, 62, 77, 66, 59, 9, 80, 58, 38
March	
30WRK	Pd#57, 82, 56, 71, 58, 64, 62, 44, 43, 42
50HCR	"Bankruptcy". 2003? Scanned. Tub VI. Set 20D2.
April	
30WRK	Pd$42
50HCR	Correspondence: Entenmann, Rothwell, Britz, Park, T Chubb, Behrend, S Chubb. Scanned. Storms "Pile 1". Correspondence. Early period – 1990s. Many letters to CF early "major players". 8 folders, in original order of pile. Tub V. Set 18D.
May	
30WRK	Pd#79, 23, 54, 52, 27, 61, 26, 19, 78, 34, 7, 10, 13, 60, 14
50HCR	Correspondence. Early period – 1990s. Many letters to CF early "major players". 8 folders, in original order of pile. Tub V. Set 18E.
June	
30WRK	Pd#83, 20, 16, 10, 8, 27, 89
July	
30WRK	Pd#10, 27, 44, 57
August	
30WRK	Pd#57 88, 45, 24, 25
September	
30WRK	Pd#25, 12
30WRK	Pd-Au#3
50HCR	Miscellaneous mixed materials. Scanned. Various dates. Souther agreements, cFAR business plan, ICCF-2, ISCMNS. Tub VI. Set 20A.
October	
30WRK	Pd#12, 18
70LLB	2nd Conference on Low-Energy Nuclear Reactions College Station, Texas (9/13-14/96). Proceedings. Journal of New Energy Volume 1, No. 3, 1996

70LLB 6th International Conference on Cold Fusion: Progress in New Hydrogen Energy. New Energy and Industrial Technology Development Organization. The Institute of Applied Energy. Program, Abstracts, Participants, Proceedings (2 Volumes)

10, 80CON Storms, E. Some thoughts on the nature of the nuclear-active regions in palladium. in Sixth International Conference on Cold Fusion, Progress in New Hydrogen Energy. 1996. Lake Toya, Hokkaido, Japan: New Energy and Industrial Technology Development Organization, Tokyo Institute of Technology, Tokyo, Japan. p. 105.

November

30WRK Pd#39

43ZCD 21. MILEY data. ZIP1. Goes with #23.

December

30WRK Pd#17, 15, 1, 11, 36

No Month (13)

10PUB Storms, E., 1996. The Nature of the Nuclear Active Environment For LENR. Lattice Energy Unpublished Paper

10PUB Storms, E., A review of the cold fusion effect. J. Sci. Exploration, 1996. 10(2): p. 185.

10PUB Storms, E., How to produce the Pons-Fleischmann effect. Fusion Technol., 1996. 29: p. 261.

10PUB Storms, E.K., A study of those properties of palladium that influence excess energy production by the Pons-Fleischmann effect. Infinite Energy, 1996. 2(8): p. 50.

90BOK New Hydrogen Energy (NHE) Laboratory created by Japanese government

2.9 1997 Activities and Events

January

30WRK	Pd#3, 20, 32, 43, 21, 22, 5, 36, 24, 60, 56
30WRK	Plate #2

February

30WRK	Pd#13, 69, 33, 40, 7
30WRK	Plate #3
20UPR	INITIAL LOADING VALUES (1/3/1997). Summary of calorimeter studies

March

43ZCD	6. Archive, GENERAL. ZIP4. Attachment B for expanded description. Incl EKS bio.

April

30WRK	PdTKK0088#1

May

30WRK	PdTKK0088#2, 4, 5, 6
30WRK	NEW CALORIMETER
70LLB	Academy for New Energy The Fourth International Symposium on New Energy. Sponsored by the Academy for New Energy, Denver, Colorado (May 23-26, 1997). Edmund Storms, A God's Eye View of Cold Fusion

June

30WRK	PdTKK0088#7, 8
30WRK	Pd#8, 9

July

30WRK	Pd#10, 9, 42, 38, 61, 57
30WRK	PD]D#11TKK

August

30WRK	Pure Ni
30WRK	PD and Ag sandwich
30WRK	Pd6Ra
50HCR	Talk by EKS to NHE, Japan: “Some Problems with Palladium and How to Solve Them”. Scanned. Transparencies. Tub VIII. Set 22C.

September

30WRK	No samples specified
46FLD	Set 2: 21 Century. Cold Fusion, An Outcast of Science. E. Storms 9/97. 97401 DC _ 001. Mac disc. FullWrite, Text only. MacWrite 5.0. II

October

30WRK	Pd-W1.1, Pd-VFTP 3.1, Pd-Al3.1, Pd-W3.1, Pd-W2.1, Pd-Al2.1, Pd-W3.1, Pd-GFTP2.1, Pd-GFTP3.1, Pd-W3.2, Pd-GFTP1.1, Pd-Al1.1, Pd-VFTP2.1, VFTP1.1

November

30WRK	Pd-GFTP3.2, Pd-VFTP3.2, Pd-Al1.3, Pd GFTP 2.2, Pd-W3.3, Pd-Al2.2, Pd-Al2.3, Pd-Al 3.2, Pd-GFTP 2.3, Pd-VFTP 1.2, Pd-Al 1.3, Pd GFTP1.2, Pd-Al2.4, Pd-W1.3, Pd-GFTP 1.3, Pd-Al2.4, Pd-W1.2, Pd-W2.2
70LLB	Asti Workshop on Anomalies in Hydrogen/Deuterium Loaded Metals, Bologna, Italy (11/27-30/97).

December

30WRK	Pd-W2.2
43ZCD	35. Pd STUDY. ZIP1. Attachment E for expanded description.
45EHD	Pd STUDY. 1777 Files. Storms “Pile 1”. Correspondence. Early period – 1990s. Many letters to CF early “major players”. 8 folders, in original order of pile. Tub V. Set 18F.

No Month (13)

10PUB	Storms, E.K., Some problems with palladium and how to solve them. 1997: NHE Japan.

2.10 1998 Activities and Events

January
30WRK Pd-W2.3, Pd-Al2.5, Pd-Ag#7

February
30WRK Pd-Pt#9
30WRK Pd#58

April
10PUB, 80CON Storms, E.K. Relationship between open-circuit-voltage and heat production in a Pons-Fleischmann cell. in The Seventh International Conference on Cold Fusion. 1998. Vancouver, Canada: ENECO, Inc., Salt Lake City, UT. p. 356.
70LLB 7th International Conference on Cold Fusion (ICCF-7), Vancouver, British Columbia (4/19-24/98). Program Manual and Abstracts, Proceedings, List of Participants As of April 22, 1998

July
50HCR Letters from Entenman. Scanned.Moved from sEt 106. Tub VIII. Set 28.

August
43ZCD 3. Ag on C study. ZIP1. Ron Jacobsen referenced

September
50HCR Correspondence: E-mail prints – Richard Blue CF Debate – S Chubb, Britz, others. Scanned. Storms "Pile 1". Correspondence. Early period – 1990s. Many letters to CF early "major players". 8 folders, in original order of pile. Tub V. Set 18B.

October
50HCR Correspondence, 2003-2004. Bockris, Larsen. Scanned. Tub VI. Set 20C.
90BOK Storms invited to Japan for a week of consultation by NHE Laboratory

November
90BOK Storms and McKubre included among 25 persons featured in Wired Magazine: "Those Who Dare…"

December
30WRK Pd#92, 34
30WRK PdB0.75%(Claytor)
30WRK PdB0.25%(Claytor)
43ZCD 105.WORK IN PROGRESS. ZIP1. Attachment F for expanded description.

No Month (13)

10PUB	Storms, E., Cold fusion revisited. Infinite Energy, 1998. 4(21): p. 16-29.
10PUB	Storms, E.K., Formation of β-PdD containing high deuterium concentration using electrolysis of heavy-water. J. Alloys Comp., 1998. 268: p. 89.
10PUB	Storms, E., Factors affecting heat production in a Pons-Fleischmann Cell. ICCF-7, April 1998.
90BOK	Storms left ENECO
90BOK	Work in Storms' lab supported by Charles Entenmann and Jed Rothwell (1998-2003)

2.11 1999 Activities and Events

January	
30WRK	Pd#24
30WRK	Ni#6, 7, 8
43ZCD	11. Digital Pictures. ZIP3. Attachment D for expanded description.
February	
30WRK	Pd#33, 40, 4
30WRK	Ni#6, 7, 8, 9, 10, 11, 12, 13, 14, 15
30WRK	Pt#11, 12
March	
30WRK	Pt#13
30WRK	Pd#40
44ZCD	10. CURRENT ARTICLES. ZIP2. Attachment C for expanded description.
44CVD	Documents – Part 5 of 15. Calorimeter studies 2004.spanned. CURRENT ARTICLES. Developer. Documents. DOE talk. Disk label: Unnamed Collection of PDF Files
45EHD	CURRENT ARTICLES. 215 Files
April	
30WRK	Pt#1b
50HCR	Storms presentations, lab & equipment photos, experimental results. Scanned.. Tub VIII. Set 22G.
50HCR	Partial Storms paper: Cold Fusion or How to be an Alchemist While Annoying Every Physicist You Know". Scanned.. Tub VIII. Set 22H.
70LLB	Future Energy: First International Conference on Future Energy (COFE), Washington, DC 4/29/99 – 5/1/99). Proceedings. Integrity Research Institute
70LLB	Collected Information about the New Science of Chemical Nuclear Interaction. Integrity Research Institute. Beltsville, Maryland
August	
30WRK	No samples specified
44CVD	ISCMNS ICCF 12. Disk label: . REFERENCES RELATED TO LENR. THE PIG HAS FLOWN. version 1.9 8/18/03. Contains 3089 references and 213 papers in full text.
50HCR	Rothwell Vortex Email Papers about glow discharge effect. Scanned. Tub VIII. Set 23O.
September	
30WRK	Ag-Pd#2
30WRK	Pd-Al#1a
30WRK	Pt#17

43ZCD 8. CALORIMETER STUDY. ZIP1. Incl Design and Stirring Studies

October

30WRK Pd-Al#1a

44CVD ACS October 6-8. Ontario, California. October 8 Friday A.M.. Number 1 of 4 . Number 4 of 4. Special cold fusion session. Ed gave a paper. Four tapes. Numbers 1 and 2 missing.

70LLB 1999 Pacific Conference on Chemistry and Spectroscopy, Ontario, California. 35th ACS Western Regional Meeting 37th SAS Pacific Conference

70LLB 1999 Pacific Conference on Chemistry and Spectroscopy, Ontario, California. Archival Video Recording Table of Contents

44CVD Not copied. Twin Cities Cable. Cold Fusion. October 1999

November

30WRK Pt#18, 19, 21

30WRK Ni#16

30WRK Ni-Pd#16

December

30WRK Pt#22, 21

30WRK TDKK0088

30WRK Ag 0-Au-Pd#2

No Month (13)

10PUB Storms, E., My life with cold fusion as a reluctant mistress. Infinite Energy, 1999. 4(24): p. 42.

10PUB Storms, E., Anomalous heat generated by electrolysis using a palladium cathode and heavy water in American Physical Society. 1999. Atlanta, GA. p.

10PUB Storms, E., Cold fusion: Theory and practice in Japan. 21st Century Sci. & Technol., 1999. Spring: p. 82.

10PUB Storms, E., Proposal for study of palladium powder at UNM. 1999.

10PUB Storms, E.K. ,The present status of chemically assisted nuclear reactions. in ACS. 1999. Ontario, CA. p.

10PUB Storms, E.K., New Method for initiating nuclear reactions. in Conference on Future Energy. 1999. Bethesda, MD. p.

44CVD Not copied. Disk label: . Cold Fusion. Fire from Water .A documentary about one of the greatest and most controversy all scientific discoveries of all time. New Energy Foundation. 1999.

44CVD Cold Fusion. Fire from Water. Still in shrink wrap. Based on Mallove's book. Narrated by Scotty of Star Trek

2.12 2000 Activities and Events

January

30WRK	Ag-Au-Pd#2
30WRK	Pt#23, 24, 25
20UPR	(1/9/2000). History of flow calorimeter
50HCR	"Ti Study Dash". 2000. Scanned. Clasp envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19K.

February

30WRK	Pt(1/1/00)
30WRK	Pt
30WRK	Pt#22
45EHD	Ed's stuff. 298 Files

March

30WRK	Pt#28

April

44CVD, 70LLB	Gene Mallove interview of EKS 160805. Disk label: . Interview of Edmund Storms by Gene Mallove. 4/15/2000. Copied

May

30WRK	No samples specified
10PUB	Storms, E, Excess power production from platinum cathodes using the Pons-Fleischmann effect. in 8th International Conference on Cold Fusion. 2000. Lerici (La Spezia), Italy: Italian Physical Society, Bologna, Italy. p. 55-61.
50HCR	Infinite Energy letter Scanned. Tub VIII. Set 23W.
80CON	Storms, E, Excess power production from platinum cathodes using the Pons-Fleischmann effect. in 8th International Conference on Cold Fusion. 2000. Lerici (La Spezia), Italy: Italian Physical Society, Bologna, Italy. p. 55-61. PB45. ICCF8. Lerici, Italy. Participants, Proceedings
70LLB	8th International Conference on Cold Fusion (ICCF 8), Lerici (La Spezia), Italy (5/21-26/00). List of Participants As of May 26, 2000
70LLB	8th International Conference on Cold Fusion (ICCF 8), Lerici (La Spezia), Italy (5/21-26/00). Proceedings of the Società Italiana Di Fisica, Editrece Compositori, Bologna, Italy
44CVD	ICCF-8. Tapes 1 to 7

June

30WRK	Pt#34
30WRK	Ti#1
70LLB	13th International Conference on Condensed Matter Nuclear Science (ICCF-13), Dagomys, Sochi, Russia (6/25/00 – 7/1/00). Proceedings

July

30WRK	Pt#34
30WRK	Pd#36

August

43ZCD	12. Ed's Website. ZIP1. HTML files and many figures.
45EHD	Ed's Website. 287 Files

September

30WRK	MILEY STUDY STARTED
20UPR	(9/12/2000). History of composit
20UPR	(9/12/2000). loading based on oil
20UPR	(9/12/2000). Pd history
20UPR	(9/12/2000). Pd property summary
43ZCD	36. PERSONAL BIO. ZIP1. Two files
45EHD	Archive, GENERAL. 268 Files
50HCR	History of Miley Tests. Scanned.. Storms “Pile 2”. Miscellaneous materials. Tub VI. Set 19M2.

October

30WRK	Miley #4C .2
30WRK	Miley #4.A.2
30WRK	Pt#21
43ZCD	24. MILEY TESTS. ZIP1. Goes with #23.

November

30WRK	Pt#21
30WRK	Mallove cell
30WRK	Pt#212
30WRK	Pt#21#8
30WRK	Pt#21#9
20UPR	(11/10/2000). History of Miley Tests

December

30WRK	Pt#22, 23, 26, 27, 31, 24, 27
30WRK	Pt#24#1, #22#11, #25#2
30WRK	Pd#68
30WRK	Ni#1

No Month (13)

10PUB	Storms, E., A critical evaluation of the Pons-Fleischmann effect: Part 1. Infinite Energy, 2000. 6(31): p. 10.

10PUB Storms, E., A critical evaluation of the Pons-Fleischmann effect: Part 2. Infinite Energy, 2000. 6(32): p. 52.

10PUB Storms, E.K., Description of a dual calorimeter. Infinite Energy, 2000. 6(34): p. 22.

10PUB Storms, E., The present status of chemically-assisted nuclear reactions. Infinite Energy, 2000. 5(29): p. 26.

10PUB Storms, E., Where do we stand on cold fusion? 21st Century Sci. & Technol., 2000. Winter: p. 76.

46FLD Set 2: Storms. What ever happened to Cold Fusion? Edmund Storms. Mac disc. 98463 MMH001

10PUB Hansen, L.D., S.E. Jones, J.M. Thorne, and E. Storms., Cooperative investigation of anomalous effects in Pd/LiOD electrolytic cells. 2000.

2.13 2001 Activities and Events

January

30WRK	Pd#25#2, #27#2
30WRK	Pd#25, 68
30WRK	Pt#27, 68, 3
30WRK	Pt C, D, A
30WRK	Pt B #2
30WRK	Pt C#2
30WRK	Mallove cell
20UPR	(1/20/2001). Progress Report 1/19/01
20UPR	(1/21/2001). Progress Report 1/20/01
20UPR	(1/25/2001). Progress Report 1/25/01

February

30WRK	Pt#26#3, #24#3
30WRK	Pt E#3, C#5, A#3, c#6, C#7, 22#12, C#8, C#9
30WRK	Pt C#6, C#9
30WRK	Pt F, G
30WRK	Ag#2, 3
20UPR	(2/1/2001). Progress Report 1/31/01
20UPR	(2/8/2001). Progress Report 2/8/01
20UPR	(2/17/2001). Progress Report 2/16/01

March

30WRK	Pt#22#13
30WRK	Pt C#10
30WRK	Pt#26
30WRK	PtC#10
30WRK	Pt#22#13
30WRK	Pt A#4
30WRK	Pt-2-1, 1-1, 2-2, 2-3
30WRK	Pd#68
30WRK	EKS003
20UPR	(3/2/2001). Progress Report 3/2/01
70LLB	Naval Research Laboratory. MRL/MR/6320-01-8526 (3/26/01). Calorimetric Analysis of a Heavywater Electrolysis Experiment Using a pad-B ALBoy Cathode. Miles, Fleishman, Imam

April

30WRK	Pt-2-3, 4-1, 4-2, 1-1, 4-3, 2-3, PtF-2
20UPR	(4/15/2001). Progress Report 4/15/01

May
30WRK Pt-1-1, 2-4
30WRK Pt-3/8/01
20UPR (5/5/2001). Progress Report 5/5/01
45EHD RGA application (empty). 0

June
30WRK Pt-1-1, 2-4, 1-2, 1-3, 1-4, 1-5, 1-6 ,2-4
30WRK Pt E-6, E-7

August
30WRK Pt-A-8
43ZCD 9. Case Study. ZIP1. Les Case Study. Incl data, pictures, costs, progress repts, etc.
45EHD Case Study. 161 Files
45EHD Confidentiality Agreement, Grace*
45EHD Confidentiality Agreement.doc*

September
30WRK Pt-E-8
30WRK Pt 2-8, 2-4

October
30WRK Case Study Started – system tested gas composition measured

November
30WRK [Begin new method of designating samples and experiments\
30WRK Cell#1

December
30WRK Cell #1, #2
20UPR (12/20/2001). Progress Report 12/1/01
20UPR PROGRESS REPORT. 9/28/01 to 12/21/01. (12/21/2001). Progress 12/21/01
50HCR Rejection History of the Paper "Cold Fusion: An Objective Assessment". Scanned. Tub VIII. Set 23Q.
70LLB Society for Scientific Exploration. Directory 2001

No Month (13)
10PUB Storms, E., Cold fusion: An objective assessment. www.LENR-CANR.org, 2001.
10PUB Storms, E.K. Ways to initiate a nuclear reaction in solid environments. in American Physical Society Meeting. 2001. Seattle, WA. p.
10PUB Storms, E.K., Review of paper by Shanahan. 2001.

2.14 2002 Activities and Events

January

30WRK Cell #2

50HCR Case Effect Study. 2001-2002. Progress Report and Emails. Scanned. Tub VIII. Set 29.

February

30WRK Cell #3, #2

30WRK SB B used for Case study [Seebeck]

20UPR Case Study, EKS Progress Report No. EKS 2-1-02 (2/1/2002). Progress 9/01-2/02 N

20UPR [Several anomalous effects were seen.] (2/9/2002). thermal arrests

20UPR (2/14/2002). Progress Report 2/14/01

March

30WRK Cell #2, #3, #1

30WRK EKS001, EKS002

20UPR (3/13/2002). Progress Report 3/13/01

April

30WRK Cell #4, #2, #1, #3, #5

30WRK EKS 0045

May

30WRK Cell #4, #3, #2, #5

30WRK EKS005

70LLB, 80CON 9th International Conference on Cold Fusion (ICCF-9), Beijing, China (5/19-24/02). Proceedings. Did not attend conference.

June

30WRK Cell #2, #3, #4, #5

30WRK EKS006, EKS008, EKS003

43ZCD 14. Introduction to LENR. ZIP2. Evaluate when opened.

43ZCD 97. STOCK TRADING. ZIP2. Apparently deleted file

45EHD LENR site. 18 Files

July

30WRK Cell #1, #2, #4, #5, #3

30WRK EKS009, EKS010

43ZCD 29. NAE copy. ZIP2. Submitted to Infinite Energy July 2002.

45EHD LENR CD Partial. 208 Files

70LLB The 4th Meeting of Japan CF-Research Society (JCF-4), Morioka, Japan (10/17-18/02). Abstracts, Program

August

30WRK	Cell #4, #5, #1
30WRK	EKS010
20UPR	(8/30/2002). 8/30/02 progress report
43ZCD	13. EXECUTIVE SUMMARY OF LOW ENERGY. ZIP2. Captured for publications in case needed.
43ZCD	73. Proof and proposal for LENR. ?
44CVD	17990724_0550 won't read. Disk label: . EV s in Cold Fusion. August 24, 2002. Dash McKubre. Miley Shoulders. Tanzella Storms
70LLB	The Collected Works of Edmund Storms about the Science of Chemically Assisted Nuclear Reactions. Integrity Research Institute. Beltsville, Maryland

September

30WRK	Cell #5
30WRK	EKS010
44CVD	18991030_2005 won't read. Disk label: . EVs IN COLD FUSION. LEN SHOULDERS COPYRIGHT. SEPTEMBER 2002
44CVD	72 SEM Images for Ed Storms
45EHD	SEM scans of Case samples. 6 Files

October

44CVD	Documents – Part 9 of 15. EndNote.spanned + 6 folders. 13 items. Disk label:. Britz Collection. Spanned

November

30WRK	No notations of cells
45EHD	EndNote. 8 Files

December

30WRK	Ptdot1
30WRK	Cell #4
30WRK	EKS010
30WRK	Letts Cell
20UPR	[Letts Study report] (12/18/2002). Labreport2001.efx
43ZCD	18. LETTS study. ZIP1. No apparent report?

No Month (13)

10PUB	Storms, E., Cold fusion, the next big step up the energy letter. Submitted to 21st Century Science and Technology. June 2002.
10PUB	Storms, E., The nature of the nuclear-active-environment required for low energy nuclear reactions. Infinite Energy, 2002. 8(45): p. 32.821
10PUB	Storms, E., Ways to initiate a nuclear reaction in solid environments. Infinite Energy, 2002. 8(45): p. 45.

90BOK Creation of LENR-CANR.org website by Jed Rothwell
90BOK "Excess Heat: Why Cold Fusion Prevailed" by Charles Beaudette

2.15 2003 Activities and Events

January

30WRK	IMRA#38

February

30WRK	Letts cell
30WRK	Case Cell
30WRK	McKubre C
30WRK	Letts cell experiments with Case cell
30WRK	Pd#64
43ZCD	15. LATTICE. ZIP2. Lattice Energy. Incl. Research Plan and Progress Reports
43ZCD	16. Lawsen. Lawsen means Larsen?
43ZCD	17. Lawsen 2/25/03. Lawsen means Larsen?
50HCR	"Lattice Energy". 2003-2005. Scanned. Four white envelopes. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19M1

March

20UPR	TRIP REPORT, APS MEETING, AUSTIN, TX, 3/6/03-3/8/03(3/8/2003)
20UPR	Evaluation of the Calorimeter Used by G. Miley (3/25/2003). COMMENTS ON CALORIMETER OF GM
43ZCD	38. Pictures. CD2. Image files. Both LENR and family pix.
43ZCD	74. PROPOSED RESEARCH PLAN FOR LATT. Lattice Energy
70LLB	American Physical Society, Bulletin: Volume 48, Number 1, PART II (3/3-7/03). Storms Abstract Z33-3: Why Cold Fusion Has Been so Hard to Explain and Duplicate

April

30WRK	Case Cell
30WRK	Pd#64+Au, Pd#64+Au#2, Pt64+Au#3
30WRK	Miley Cell
30WRK	Letts Cell
41SF1	OLD DATA: Calorimeter studies 2004.spanned
43ZCD	95. Short Course. ZIP2. Valuable write-up
50HCR	Progress Reports. Scanned. Tub VIII. Set 23G.
44CVD	EVS-IN-COLD_FUSI. Disk label: . APS 3/7/03. cold fusion talks
90BOK	Storms joined Lattice Energy as Senior Scientist, invited by Lewis Larsen

May

30WRK	Ni screen plated with Pd
30WRK	Pt 64+Au#4
30WRK	Pt+Au+Pd
30WRK	Pt#6, #5
45EHD	PICTURES. 7 Files

45EHD	Rejection history of CF, Object*
50HCR	"Letters" ~2008-2018. Scanned. White envelope. Moved to Set 18, Correspondence. Bockris, McConnel, Scanlan, Krivit, Bass, Hagelstein, Nagel, Rothwell, Koonin. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19N.
10PUB	Storms, E.K. How to make a cheap and effective Seebeck calorimeter. in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 269.
10PUB	Storms, E.K. Use of a very sensitive Seebeck calorimeter to study the Pons-Fleischmann and Letts effects. in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 183.
10PUB	Storms, E.K. What conditions are required to initiate the LENR effect? in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 285.
10PUB	Rothwell, J. and E.K. Storms. The LENR-CANR.org website, its past and future. in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 939.
80CON	Storms, E.K. How to make a cheap and effective Seebeck calorimeter. in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 269. PB60. ICCF10. Cambridge, MA, USA. Program, Abstracts, Proceedings
80CON	Storms, E.K. Use of a very sensitive Seebeck calorimeter to study the Pons-Fleischmann and Letts effects. in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 183. PB61. ICCF10. Cambridge, MA, USA. Program, Abstracts, Proceedings
80CON	Storms, E.K. What conditions are required to initiate the LENR effect? in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 285. PB62. ICCF10. Cambridge, MA, USA. Program, Abstracts, Proceedings
80CON	Rothwell, J. and E.K. Storms. The LENR-CANR.org website, its past and future. in Tenth International Conference on Cold Fusion. 2003. Cambridge, MA: World Scientific Publishing Co. p. 939. PB63. ICCF10. Cambridge, MA, USA. Program, Abstracts, Proceedings

June

30WRK	Pt, Cu
30WRK	Ni fiberex
20UPR	LENR Reaction Product "Signature"… (6/16/2003). Miley Dr George – Various chart
20UPR	(6/16/2003). Miley spectrum
20UPR	(6/16/2003). Miley spectrum(2)
20UPR	Memorandum: Replication of the Miley claims (6/16/2003). Miley replication
43ZCD	1. ICCF-10. ZIP1. Presentation preparation. Also Short Course.
43ZCD	32. Papers for ICCF-10. ZIP1. Paper copied to folder
43ZCD	89. Random Thoughts. LENR philosophical work

43ZCD	102.Talk at APS, Tuscon. “Cold Fusion Has Come Out of the Cold”. APS Short Course.
43ZCD	Cost vs gal for 10K, 15K*

July

30WRK	Pt 64+Au#4
30WRK	Pt+Pd
30WRK	Pd+Au
30WRK	Pt-Pd#4
43ZCD	2. ABSTRACTS FOR ICCF-10. ZIP1. At time of conference
43ZCD	30. new SB
43ZCD	33. Patent. ZIP1. A method to generate energy using the electrolytic process
43ZCD	34. Patent, part 2. CD2. A method to generate energy using the electrolytic process
43ZCD	101.Summaries corrected. ZIP2. ICCF-10
45EHD	Cluster model.pdf*
45EHD	Delong LVEM5.pdf*
45EHD	Ken Wolf Commodities. 13 Files

August

30WRK	Miley sample
43ZCD	20. MILEY. CD2. Goes with #23.
43ZCD	23. Miley study. ZIP1. Lew Larsen, George Miley. Incl Progress Report 10/03.
43ZCD	98. Storms Introduction. ZIP2. ICCF-10 Short Course introduction
43ZCD	99. storms transript.doc. Interview by Steve Krivit
45EHD	LENR-CANR. 8 Files
45EHD	reference electrodes.pdf*
50HCR	ICCF-10 Short Course. Scanned. Tub VIII. Set 22A.
50HCR	Use of a Very sensitive Calorimeter. Not Scanned. 560/202. Duplicate. Tub VIII. Set 25L.
70LLB	10th International Conference on ColdFusion (ICCF-10), Cambridge, Massachusetts (8/24-29/03). Program and Abstracts, Program Summary, Group Photo, Proceedings

September

30WRK	Miley Cell
30WRK	M-1, 2, 3
30WRK	Pd64+Au#3
30WRK	Cu#1
43ZCD	37. Photo ion detector. CD2. Two JPGs
45EHD	Photo ion detector. 3 Files
44CVD	030914_ 1959. Disk label: . ICCF 10 PHOTOS. From Nagel
45EHD	EarthChanges2001.pdf*

October

30WRK	Miley sample
30WRK	Cu#1
30WRK	Miley 11129003A, 11129005A, 11129004A
30WRK	Ni mesh
20UPR	PROGRESS REPORT. Test of samples prepared by Prof. Miley. (10/25/2003). PROGRESS REPORT 10
20UPR	PROGRESS REPORT. 10/25/03 (10/25/2003). Word Work File D 2310
20UPR	PROGRESS REPORT. 10/25/03. Test of samples prepared by Prof. Miley. (10/25/2003)
43ZCD	64. PR#10, 10-25-03(Miley). Lattice Energy Progress Report
45EHD	MILEY DATA. 7 Files
43ZCD	96. Small SB. ZIP2. Small Seebeck
45EHD	Close spacing cell*

November

30WRK	Pt
30WRK	Miley 11129006A
30WRK	Pt(11/21/3)
30WRK	Pd(11/29/3)
20UPR	PROGRESS REPORT. Test of an electrolyte using D2SO4. (11/16/2003). PROGRESS REPORT 11
20UPR	PROGRESS REPORT 11/16/03. Test of an electrolyte using D2SO4. (11/16/2003. PR#11, 11-03-03(H2SO4)
43ZCD	65. PR#11, 11-03-03(H2SO4). Lattice Energy Progress Report
45EHD	Close space cell.JPG*
45EHD	SEM COST*

December

30WRK	Pt, Pd
43ZCD	27. My history with cold fusion. ZIP2. See # 28.
43ZCD	28. My history with cold fusion.pdf. ZIP2. No date in document. Saved for Publications.
43ZCD	68. PR#12, 12-21-03. Lattice Energy Progress Report
43ZCD	90. SB data. Seebeck?
44CVD	Documents – Part 10 of 15. Important papers.spanned. Disk label: EPRI Folder.spanned
45EHD	WORK IN PROGRESS. 228 Files
45EHD	ChubbSRtheoretica.pdf*

No Month (13)

90BOK Support from Entenmann and Rothwell discontinued

10PUB Storms, E. Why cold fusion has been so hard to explain and duplicate. in American Physical Society Winter Meeting. 2003. Austin Convention Center, Austin, TX: unpublished. p.
10PUB Storms, E., A student's guide to cold fusion. 2003, LENR-CANR.org.
10PUB Storms, E.K. Cold fusion has now come out of the cold. in APS. 2003. p.
10PUB Storms, E.K. My history with cold fusion. 2003.

2.16 2004 Activities and Events

January

30WRK No cells or samples specified
43ZCD 69. PR#13, 1-14-04. Lattice Energy Progress Report
43ZCD 78. Pt Dot 3. Lattice Energy
20UPR PROGRESS REPORT. HISTORY OF PT DOT 6 (1/12/2004). HISTORY of Pt Dot 6.doc
20UPR PROGRESS REPORT 1/14/04 (1/14/2004). PR#13, 1-14-04
44CVD Archive ARTICLES Part 4 of 5. CALORIMETER STUDY.spanned. Disk label: CALORIMETER STUDY.spanned
44CVD Documents – Part 4 of 15. Calorimeter studies 2004.spanned
45EHD hood*
45EHD Script*

February

30WRK No cells or samples specified
20UPR A Discussion of Those Variables that Affect the Nuclear Active Environment. (2/1/2004). A Discussion of Those Variables
20UPR PROGRESS REPORT OF Pt 2/9/04. HISTORY OF EXPERIMENTS STARTING 2/3/04 (2/9/2004). HISTORY OF EXPERIMENTS STARTING
20UPR Summary of Results. (2/9/2004) . Summary of Results(2/3/04)
20UPR PROGRESS REPORT. HISTORY OF EXPERIMENTS STARTING 2/3/04. (2/9/2004). Progress Report Pt 3-9-04.doc
20UPR PROGRESS REPORT. HISTORY OF EXPERIMENTS STARTING 2/3/04. (2/9/2004). Word Work File D 1
43ZCD 62. PR Pt 2/9/04. Lattice Energy Progress Repor
45EHD Script2*
45EHD Seebeck converter#1. 14 Files
45EHD STOCK TRADING*

March

30WRK No cells or samples specified
30WRK PLATING STUDIES start
44CVD 080515_1727. Amoco Experiment.pdf + 13 others. Disk 1. Disk label: . Cold fusion documents. May 15, 2008
44CVD 050516_0859. ICCF7.pdf + 5 others. Disk 2. Disk label: . Cold fusion documents. May 15, 2008
45EHD Disclosure of interest in LENR*

April

30WRK No cells or samples specified
44CVD LENR-CANR. Disk label:. LENR-CANR. June 23, 2006
45EHD Request for Storms Disclosures*

May

20UPR	EXAMPLES OF SEM PICTURES (5/16/2004). MEMO, SEM 5-16-04.DOC
43ZCD	19. MEMO, SEM 5-16-04.doc. Examples of SEM Pictures

June

43ZCD	4. Agreement. Lattice Energy
50HCR	Lattice Energy Agreement. Scanned.. Tub VIII. Set 30.

July

30WRK	Active Pt
30WRK	Pt dot 3
43ZCD	50. PR 7/19/04 (Miley). Lattice Energy Progress Report
43ZCD	81. Pt dot 3 SEM. Lattice Energy
20UPR	PROGRESS REPORT. HISTORY OF EXPERIMENTS STARTING 2/3/04. (7/5/2004). PROGRESS REPORT Pt 2-3-04
20UPR	PROGRESS REPORT. 7/19/04. Test of samples prepared by Prof. Miley. (7/19/2004). PROGRESS REPORT, 7-19-04.doc

August

30WRK	Cell #1
30WRK	Ptdot2
43ZCD	22. Miley pictures. ZIP1. Goes with #23.
43ZCD	51. PR 8-19-04.doc. Lattice Energy Progress Report
43ZCD	52. PR 8-19-04jpg pics.doc. Lattice Energy Progress Report
43ZCD	63. PR#8-29-04.doc. Lattice Energy Progress Report
43ZCD	79. Pt dot 3 all. ZIP1. Lattice Energy
43ZCD	80. Pt Dot 3 pictures. Lattice Energy
20UPR	PROGRESS REPORT. 8/19/04. Study of electrodeposition on a Pt surface. (8/19/2004). PR 8-19-04.doc
20UPR	PROGRESS REPORT. 8/19/04. Study of electrodeposition on a Pt surface. (8/19/2004). PR 8-19-04jpg pics.doc
20UPR	PROGRESS REPORT. 8/29/04 (8/29/2004). PR#8-29-04.doc
44CVD	DOE CF Review References. Disk label: . DOE CF Review 2004. References
90BOK	DOE meeting in Washington, D.C. (8/23/04)

September

30WRK	Ptdot4, Ptdot3
30WRK	Pt(9-10-4), (9-23-4)
30WRK	IMRA#60
43ZCD	58. PR 9/10/04.doc. Lattice Energy Progress Report
43ZCD	82. Pt Dot 4. Lattice Energy
45EHD	Pt 2004. 6 Files
45EHD	Pt Dot 4. 8 Files

20UPR	HISTORY OF PT DOT 4. Run in Cell #2, Small SB #1, Pd anode. Cell cleaned with … (9/3/2004). HISTORY OF Pt Dot 4.doc
20UPR	PROGRESS REPORT. A collection of questions. (9/10/2004). PR 9/10/04
20UPR	PROGRESS REPORT. 9/20/04. HISTORY OF EXPERIMENTS STARTING 9/3/04 (9/30/2004). PROGRESS REPORT 9(2).doc
44CVD	Papers about LENR . Published papers +. Disk label:. Published Papers about Cold Fusion. 1989-2003
44CVD	Washington Brief 160808. Disk label: Papers backup 11/3/02
45EHD	ICCF-11. 10 Files

October

30WRK	PdDot2
30WRK	3NGFTP
45EHD	Pt Dot 3. 9 Files
50HCR	Unclassified Meeting on Advanced Intelligence Technologies. EKS: Cold Fusion (LENR) Real or Not. Scanned. Tub VIII. Set 22J.
70LLB	The International Society for Condensed Matter Nuclear Science, Marseille France (10/31/04). Agenda for the First Meeting of the Executive Committee
70LLB	11th International Conference on Condensed Matter Nuclear Science (ICCF-11), Marseille, France (10/31/04 – 11/5/04). Program Abstracts
70LLB	11th International Conference on Condensed Matter Nuclear Science (ICCF-11), Marseille, France (10/31/04 – 11/5/04). Proceedings. World Scientific, 2006
10PUB	Storms, E. An update of LENR for ICCF-11 (Short Course, 10/31/04). in 11th International Conference on Cold Fusion. 2004. Marseilles, France: World Scientific Co. p. 11.
80CON	Storms, E. An update of LENR for ICCF-11 (Short Course, 10/31/04). in 11th International Conference on Cold Fusion. 2004. Marseilles, France: World Scientific Co. p. 11.. PB67. ICCF11. Marseilles, France. Program, Abstracts, Proceedings
50HCR	An Update of LENR for ICCF-11. Scanned. Tub VIII. Set 22I.
44CVD	091298_2150. Disk label: . ICCF-11, -12, & -15. From Nagel. DN

November

30WRK	Ag-1, Ag#2
30WRK	PdGFTP#2
30WRK	Ag(11/18/4)
30WRK	Ptdot3
20UPR	HISTORY OF PT DOT 3.Seebeck #1 cell #2 with Pd anode and containing… (11/16/2004). HISTORY of Pt Dot 3.doc
43ZCD	85. Pt study 2004 (empty). ZIP1. Empty folder
45EHD	Summary of studies*

44CVD	Advanced Intelligence Technologies Meeting. Presentations. Posted by: James D Corry. jdcorey@sandia.gov. Sandia National Laboratories. Washington, D.C.. October 18, 2004

December

30WRK	Ptdot 5, 7, 6, 1
20UPR	PROGRESS REPORT 12/21/03) (12/21/2003). PR#12, 12-21-03
43ZCD	66. PR#12-18-04.doc. Lattice Energy Progress Report
43ZCD	67. PR#12-24-04.doc. Lattice Energy Progress Report
44CVD	74 SEM Pictures
44CVD	Britz Collection. pdfs folder: books, etc. Disk label: . Britz Collection. as of 12/7/05
50HCR	Letter from M Fleischman to Jed Rothwell on Gene Mallove death. Scanned.. Tub VIII. Set 23X.

No Month (13)

45EHD	#42, excess- A, 1-7*
43ZCD	72. PROGRESS REPORT(3).doc. Lattice Energy Progress Report. PW.
43ZCD	76. Pt 2004. Lattice Energy
10PUB	Storms, E., Calorimetry 101 for cold fusion. 2004, www.LENR-CANR.org.
10PUB	Storms, E.K., Study of electrodeposition on a Pt surface, P. Report, Editor. 2004, Lattice Energy.
10PUB	Storms, E., Cold Fusion – the Experimental Evidence. 21st Century. Winter 2004-2005.
90BOK	"The Rebirth of Cold Fusion" by Steven Krivit and Nadine Winocour
90BOK	DOE persuaded to review the subject of cold fusion again

2.17 2005 Activities and Events

January

30WRK	Ptdot1, Ptdot6
43ZCD	77. Pt dot 1 1/2/05(a). ZIP2. Lattice Energy
43ZCD	83. Pt dot 6 . Lattice Energy
43ZCD	86. Pt vp Pd #1, 1/29/05(a). ZIP2. Lattice Energy

February

30WRK	Pd on Cu
30WRK	Pt #1, #3
30WRK	Pd on Ag#2, Ag#4
41SF1	OLD DATA: 2005
43ZCD	41. PR 2/10/05. Lattice Energy Progress Report
43ZCD	87. Pt vp Pd #2, 2/9/05(a). ZIP2. Lattice Energy
44CVD	76 SEM Pictures 2
45EHD	Recent data. 35 Files

March

30WRK	Pt-S#1
30WRK	Pt3/14/4, 3/6/5, 3/7/5
30WRK	Ptdot3
30WRK	Cu#4
30WRK	Ag 6, 7, 8
30WRK	Ptdot1
30WRK	Pt1.2%Li
30WRK	Pd-Li
43ZCD	43. PR 3/12/05. Lattice Energy Progress Report

April

30WRK	Pt(3/6/5), Pt(4/2/5)
30WRK	Cu#8
43ZCD	45. PR 4/4/05. Lattice Energy Progress Report

May

30WRK	Cu#9, 10, 12
30WRK	Pd(5/9/5)
30WRK	Pd3N GFTP(5/9/5)
30WRK	Pd(5/16/5), (5/17/5), (5/21/5)
30WRK	IMRA #94
43ZCD	46. PR 5/15/05. Lattice Energy Progress Report
45EHD	Edwards(NMR) 6/2/05*
45EHD	Review of the paper, Shanahan*

June

30WRK	IMRA #93
30WRK	Pd(5/21/5), (5/30/5), (5/17/5), (6/12/5), (6/25/5), (6/8/5)
43ZCD	47. PR 6/10/05. Lattice Energy Progress Report
43ZCD	48. PR 6/17/05. Lattice Energy Progress Report
45EHD	Graph #1*

July

30WRK	Pd(6/8/5), (6/30/5), (7/5/5), (7/8/5), (7/9/5), (7/15/5), (7/15/5)
30WRK	Pd-Al (7/22/5), (7/23/5), (7/16/5), (7/17/5)
43ZCD	49. PR 7/05(a). Lattice Energy Progress Report

August

30WRK	Pd-Al (8/1/5), (8/2/5), (8/1/5)
30WRK	IMRA #80A, #80#2, #80B
43ZCD	53. PR 8-26-05.doc. Lattice Energy Progress Report
43ZCD	54. PR 8/6/05.doc. Lattice Energy Progress Report
43ZCD	55. PR 8/6/05pw.doc. Lattice Energy Progress Report

September

30WRK	IMRA #80A, #80B, #79A, #79B, #77B, #63A, #63B
30WRK	Pd-Ag#38
43ZCD	56. PR 9-2-05.doc. Lattice Energy Progress Report
43ZCD	57. PR 9-2-05pw.doc. Lattice Energy Progress Report

October

30WRK	IMRA #80 B, #77A
30WRK	Cu#3
30WRK	Ni#1
30WRK	Pt-Pt(10/19/5)
30WRK	Pt(10/19/5)A
30WRK	Ag+Pd
30WRK	Pd-W#3
30WRK	Pd-Ag#3
30WRK	Pd-Ca(10/31/5)
43ZCD	59. PR 10/1/05. Lattice Energy Progress Report
45EHD	Pt-Pd(10-16-05). 6 Files

November

30WRK	Pd-Ca (10/31/5)
30WRK	Pt-Pd(10/19/5) , (10-14-5), (10/19/5)A, (10/19/5)B
30WRK	IMRA #60A, #60B
43ZCD	60. PR 11/1/05. Lattice Energy Progress Report
43ZCD	88. Pt(10-19-05)A. ZIP12 Lattice Energy

44CVD Library references – Part 1 of 2. Disk 1 of 2. Disk label:. Library References. #1 0-400
50HCR "NDA – Releases". Various entities and dates. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19P.
44CVD Britz1. Abel1990.pdf + many others. 2 CDs in one envelope. Disk label:. Britz 1, Britz 2. June 23, 2006
44CVD Britz 2 Collection. Abel1990.pdf + many others. Disk label: . CNF files. D. Britz. 29.11.'07
44CVD Britz. Abel1990.pdf + many others. www.iscmns.org
80CON Storms, E.K., Description of a sensitive Seebeck calorimeter used for cold fusion studies. in Condensed Matter Nuclear Science, ICCF-12. 2005. Yokohama, Japan: World Scientific. p. 108. PB74. ICCF12. Yokohama, Japan. Abstracts, Proceedings
10PUB Storms, E.K., Description of a sensitive Seebeck calorimeter used for cold fusion studies. in Condensed Matter Nuclear Science, ICCF-12. 2005. Yokohama, Japan: World Scientific. p. 108.
70LLB 12th International Conference on Condensed Matter Nuclear Science (ICCF 12), Yokohama, Japan (11/27/05 – 12/2/05). Abstracts, Proceedings
44CVD ISCMNS ICCF 12. Disk label: . ICCF12 disc. Copyright 2005.

December
30WRK IMRA #60B, #60A, #19, #16, #16A
43ZCD 61. PR 12-1-05. Lattice Energy Progress Report

No Month (13)
90BOK Storms received GIuliano Preparata Medal at ICCF-5
10PUB Storms, E., A response to the review of cold fusion by the DoE. 2005.
10PUB Storms, E., Cold fusion for dummies. www.LENR-CANR.org, 2005.
10PUB Storms, E. Why I believe "cold fusion" is real. in American Physical Society. 2005. Tucson, AZ. p.
10PUB Storms, E., Description of a Seebeck calorimeter. 2005: www.LENR.org.
10PUB Storms, E., Construction details of a new design for a Seebeck Calorimeter. 2005.
10PUB Storms, E., How to cause nuclear reactions at low energy and why you should care. 2005.

2.18 2006 Activities and Events

January

30WRK	IMRA #16 B, #16A, #9, #77B, #6
43ZCD	39. PR 1/1/06. Lattice Energy Progress Report
43ZCD	42. PR 3/01/06 . Lattice Energy Progress Report
43ZCD	70. Progress Report 1-1-06.doc. Lattice Energy Progress Report
43ZCD	71. Progress Report 1-1-06(PW).doc. Lattice Energy Progress Report

February

30WRK	Pd(200) #2, #1, #3
30WRK	IMRA #6
43ZCD	40. PR 2/1/06. Lattice Energy Progress Report

March

30WRK	IMRA #60, #60#5 #60#3
50HCR	Anomalous Heat produced by Electrolysis of Palladium Using a Heavy-Water Electrolyte. Scanned. Tub VIII. Set 24G.

April

30WRK	IMRA #15
43ZCD	44. PR 4/1/06. Lattice Energy Progress Report
90BOK	Storms left Lattice Energy

May

30WRK	Pd foil #3
30WRK	IMRA #94, #94A
44CVD	Documents – Part 6 of 15. Britz Collection.spanned. Disk label: Britz collection*
44CVD	Britz2 . Dadd2001.pdf + many others. Disk label: . Britz collection. April 2011. Britz Collection. 10/27/2006

June

30WRK	Terminated study

August

44CVD	Documents – Part 7 of 15. EndNote.spanned. Disk label: Calorimeter Movie.spanned
44CVD	Book 8-19-06. Disk 1 of 3. Disk label:. Pdf book 363 pages. front cover – jpg. back cover – jpg
44CVD	Untitled CD. Disk 2 of 3. Disk label:. Pdf book 363 pages. front cover – jpg. back cover – jpg
50HCR	"Science of Low Energy…". World Scientific, 2006, 2014. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19L.

September

30WRK	Pd+xeolite
30WRK	Pd+CaCl 2
30WRK	Pd+CaO
30WRK	Pd+KOH
44CVD	Book, (9/28/06). Disk label: Book 9/28/06
44CVD	Washington tal +book+endnote. Disk 1 of 3. Disk label:. Book& endnote 8/26/06
44CVD	Book(9-20-06) + Endnote 1/04. Disk 2 of 3. Disk label:. Book & endnote 10/20/06
44CVD	Documents – Part 8 of 15. EndNote.spanned. Disk label: Britz*

October

30WRK	Pd+SrCl2
30WRK	Pd+Zr sheet
44CVD	Washinton 2006. Disk label: . Oct 2013. Ed & "Believers"
50HCR	"NRL TRIP, 10/06". Scanned. Clasp envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19F.
44CVD	Book+EndNote. Disk 3 of 3. Disk label:. Pdf book 363 pages. front cover – jpg. back cover – jpg
44CVD	091298_2150. Disk label: . The Science of the Future Began Yesterday. Fusion Fuels. New Energy News. Journal of New Energy. Full Text of Journal of New Energy,. vol 1-3, 1996-1999. Release 1.0 July 24, 1999. Release 1.1 August 24, 1999. (With 29 October corrections). Fusion Information Center. Salt Lake City, Utah
50HCR	Drafts of parts of 2007 book. Bockris correspondence. Scanned. Tub VIII. Set 22K.

November

30WRK	IMRA #60
30WRK	Pd+W+Zr
30WRK	Pd#2, #4
41SF1	OLD DATA: 2006
44CVD	Book(11-13-06). Disk 3 of 3. Disk label:. Book & endnote 8/19/06

December

30WRK	Pd-B 0.75%
44CVD	Book 12/25/06. Disk label: . Book – Washington Talk. endnote 9/30/06. endnote 9/20/06. Book 10/13/06
50HCR	"Glow Discharge", 2007. Invoices and receipts. Scanned. Clasp envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19I.

No Month (13)

10PUB Storms, E., Comment on papers by K. Shanahan that propose to explain anomalous heat generated by cold fusion. Thermochim. Acta, 2006. 441(2): p. 207-209.

43ZCD 100.STORMS~4.PDF. PW

2.19 2007 Activities and Events

January	
30WRK	PdB#2
44CVD	Pd.B NRL Study 1860808. Disk label: Pd.B NRL Study
45EHD	Important Papers. 140 Files
February	
30WRK	Pd melted with Li20
30WRK	Pd BNRL #16
44CVD	APS Paper. 7/09 Backup
44CVD	Science lenr0Storms-(2-27-07). Disk label: . Science of LENR. Storms (2-27-07). manuscript
March	
30WRK	Mel Miles sample
41SF1	OLD DATA: 2007
41SF1	OLD DATA: Pd-B
50HCR	"Glow Discharge 2007". Not Scanned.. Three volumes. From previous large black 3-ring binders. Now bound with green plastic "ties" to reduce volume and allow use of tub. Approximate date ranges: volume 1, 3/30/07 – 6/30/07; volume 2, 6/30/07 – 12/30/07 (not in order); volume 3, 1/7/08 – 3/1/08. Tub IV. Set 17.
April	
30WRK	Pd-B
41SF1	OLD DATA: Gas Discharge
May	
30WRK	BN coated with Cu
30WRK	Cu rolled with Al2O3
30WRK	Zr#1
50HCR	Mixture of Various Plots. 2007-2008. Not Scanned. Princeton Gamma Tech and others. May not be worth keeping. PGT Spectrum Reports and other materials. Data and plots used to define following steps. Include with large black 3-ring binders. Tub III. Set 10.
June	
41SF1	OLD DATA: Optical Spectrum
August	
30WRK	Pt coated with Pd

October

50HCR	"Katania Meeting" 10/07". Scanned. Clasp envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19H.
50HCR	"Patent with Brian Scanlan". 2011. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19R.
70LLB	8th International Workshop on Anomalies in Hydrogen/Deuterium Loaded Metals, Cannizzaro (CT), Sicily, Italy (10/13-18/07). Book of Abstracts. Proceedings
80CON	ICCF-13. Dagomys, Sochi, Russia. Did not attend conference. ICCF13. Sochi, Russia. Proceedings

November

44CVD	Britz K3b data project. fusfiles

No Month (13)

10PUB	Storms, E.K. The science of low energy nuclear reactions. in APS, March Meeting. 2007. Denver, CO. p.
10PUB	Storms, E.K., The science of low energy nuclear reaction. 2007, Singapore: World Scientific. 312.
10PUB	Storms, E.K. and B. Scanlan. Radiation produced by glow discharge in deuterium (Part 1). in 8th International Workshop on Anomalies in Hydrogen / Deuterium Loaded Metals. 2007. Catania, Sicily: http://www.iscmns.org/catania07/index.htm. The International Society for Condensed Matter Science. p. 297-305.
50HCR	Letters to 2014 book recipients. Scanned. Also, Appendix and Summary. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19A.

2.20 2008 Activities and Events

January

30WRK	Start of journal #7
30WRK	Cu sputter coated with Pd
41SF1	OLD DATA: 2008

February

30WRK	No cells or samples specified
50HCR	"Letters" ~2008-2018. Scanned. White envelope. Moved to Set 18, Correspondence. Lomax, Scanlan. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19O.

March

30WRK	No cells or samples specified
50HCR	"APS, 3/10/08". Scanned. Clasp envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19G.
50HCR	Radiation Produced by Glow Discharge in Deuterium Containing Gas (Part 2). Not Scanned. 700/237. Duplicate. Tub VIII. Set 25A.

April

30WRK	No cells or samples specified
45EHD	Addresses. 4 Files

May

30WRK	GAS LOADING STUDY STARTED
30WRK	Sample #7-SiO2+Pd(NO3)2
30WRK	Sample #8-SiO2+PdCl2
30WRK	CaO+0.35 wt% Pd
30WRK	G75E
30WRK	SiO2#9d

June

30WRK	CeO2+TiO2#1b
30WRK	SiO2+Pd(NO3)2 #7
30WRK	CeO2#2, #4

July

30WRK	CeO2+Pd(NO3)2
30WRK	ZrO2+Pd(NO3)2
30WRK	ZrO2
30WRK	Al2O3+Pd
30WRK	Al2O3
30WRK	CeO2

30WRK ZrO2+Al+S
30WRK ZrO2+PdCl2+Al+S
30WRK ZrO2+PdCl2
30WRK Pd black +Al+S
30WRK Pd#76515
30WRK ZrO2+Al2O3+CeO2
30WRK Al2O3+PdCl2
41SF1 OLD DATA: DAQ

August
30WRK Ag electrodeposited in SiO2
30WRK Ag electrodeposited using ZrO2
30WRK Pd-Al #3
30WRK Pd+ZrO2
30WRK Pd black +ZrO2
30WRK Li2CO3
30WRK CdO2+Pd(NO3)2
30WRK Zeolite from Grace
50HCR PGT spectrum reports and electrolytic cell data. Not Scanned. Gas discharge experiments with Brian Scanlan. Made with "old" EDX before it failed. Includes "Gas Loading Progress Report, 10/20/09" in back. From Storms. To KivaLab. White 1 inch 3-ring binder? Tub III. Set 12B.
10PUB, 80CON Storms, E.K. and B. Scanlan. Detection of radiation from LENR. in 14th International Conference on Condensed Matter Nuclear Science. 2008. Washington, DC: www.LENR.org. p. 261-287. PB86. ICCF14. Washington, DC, USA. Proceedings, (2 Volumes) Group Photo, Agenda & Abstract
10PUB, 80CON Storms, E.K. The method and results using Seebeck calorimetry. in ICCF-14 International Conference on Condensed Matter Nuclear Science. 2008. Washington, DC: www.lenr.org. p. 11-25. PB88. ICCF14. Washington, DC, USA. Proceedings, (2 Volumes) Group Photo, Agenda & Abstracts
70LLB 14th International Conference on Cold Fusion (ICCF-14), Washington DC (8/10-15/08). Proceedings. Volume 1: Exciting New Science, Potential Clean Energy. Volume 2: Exciting New Science, Potential Clean Energy. Proceedings. Group Photo. Agenda and Abstracts
44CVD DVD_VIDEO_RECORDER. Disk label: . First Gate 2008. ICCF. Roger Stringham. ICCF 14 '08

September
30WRK Pd on graphite
30WRK Pd on CaCO3
30WRK Pt plated with Pd
30WRK Pd black mixed with boric acid
30WRK IMRA #61

44CVD Library references – Part 2 of 2. Disk 2 of 2. Disk label:. Library References. #2 0-400

October
30WRK 3N-GFTP-set 1.1
30WRK Letts #672
30WRK Stirling silver plated with Pd
30WRK Stirling silver plated with Au
30WRK Pt heate red hot in air
Pd#1, #2

November
30WRK Letts 674, 675
30WRK Nicrom wire
30WRK Carebon paper plated with Pd
30WRK Ni ribbon plated with Pd
30WRK Pd-B
30WRK Pd+0.25%B
43ZCD 7. Austin.ppt. ZIP1. Case Study – Cold Fusion

December
30WRK Pd-B 0.5%
30WRK Pd wire rolled flat
30WRK CR39 [radiation detector]
30WRK NaOH+Pd black with Cu
30WRK Pd-B 0.75%
30WRK Zorlite (John Ruelesill)+Pd

No Month (13)
10PUB Storms, E., CASE STUDY – Cold Fusion. Unpublished Presentation. 2008.
10PUB Storms, E.K., How to explain cold fusion?, in ACS Symposium Series 998, Low-Energy Nuclear Reactions Sourcebook, J. Marwan and S.B. Krivit, Editors. 2008, American Chemical Society: Washington, DC. p. 85.
10PUB Storms, E.K. and B. Scanlan. Radiation produced by glow discharge in a deuterium containing gas (Part 2). in American Physical Society Conference. 2008. New Orleans. p.
10PUB Storms, E.K. and B. Scanlan. Radiation produced by glow discharge in a deuterium containing gas (Part 2). in American Physical Society Conference. 2008. New Orleans. p. Presentation.
10PUB Rothwell, J. and E.K. Storms, Report on Arata's paper and lecture about his "solid fusion" reactor. www.LENR-CANR.org, 2008.

2.21 2009 Activities and Events

January

30WRK	Cu coated with Pd
30WRK	Letts 675, 676
30WRK	PD wite coated with silicon powder
30WRK	PD on activated carbon
30WRK	Grace catalyst on source
41SF1	OLD DATA: 2009

February

30WRK	Copper plated with Pd and Au
50HCR	"Review of Papers". ~2009-2014. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19U1.

March

30WRK	Sterling silver and Pd plated with Au
30WRK	Ag#3
30WRK	Pd#1A

April

30WRK	Pd+Au#3
30WRK	Pd heated in vacuum with Li
30WRK	Pd-Li
30WRK	Sample in Letts cell

May

30WRK	Pt#2 plated with Pd
30WRK	Pt#3 flame heated – plated with Pd
30WRK	Pd dot1
30WRK	Pd nanoparticles smeared on copper
30WRK	Li metal wiped on Pd
30WRK	Pd solution plated on Pt
43ZCD	104.Univ of Missouri.ppt. CD2. "An Informed Skeptic's View of Cold Fusion"

June

30WRK	No cells or samples specified
41SF1	DATA: Laser #2

July

30WRK	Pt from Letts cell
30WRK	Start of Journal #8

August
30WRK No cells or samples specified

September
30WRK No cells or samples specified
30WRK October
30WRK Pure Pt
30WRK Cu plated with Pt
30WRK Cu-Pt
30WRK Pd-Ni alloy
30WRK Ni-Pd
45EHD PERSONAL BIO. 3 Files

October
41SF1 DATA: (10/25/09)
41SF1 DATA: Seebeck
50HCR EDX plots and SEM images. Not Scanned. Tub III. Set 12A.
10PUB, 80CON Storms, E.K. and B. Scanlan. Role of cluster formation in the LENR process. in 15th International Conference on Condensed Matter Nuclear Science. 2009. Rome, Italy: ENEA. p. 331-336. Presentation
70LLB 15th International Conference on Condensed Matter Nuclear Science (ICCF-15), Rome, Italy (10/5-9/09). Proceedings. Program, Abstracts, Notes

November
30WRK NI-Pd#2 plated with Pd
41SF1 DATA: 10/30/09
44CVD Gas loading 260808. Disk label: Gas Loading to 7/25/10
44CVD Read. Disk label: . ISCMNS DVD. November 2009

December
30WRK Pd and Zr-Ni
30WRK Ni-Zr-Pd
30WRK Zr-Ni+Pd(NO3)2
30WRK Ni-Zr
30WRK CaO mixed with Pd(NO3)2
30WRK LiAlO2 mixed with Pd(NO3)2
30WRK SiO2 colloidal sol + Pd(NO3)2
30WRK Nd2(CO3)3 heated with Pd(No3)2
50HCR EDX and Mass Sweep Data. Not Scanned. Nickel-hydrogen studies; includes some pictures. 2008-2012. Gas Loading, Residual Gas Analysis. As in Set 11. Loose materials stuffed into Set 12 Binder. Tub III. Set 13.

No Month (13)

10PUB Storms, E.K. An informed skeptic's view of cold fusion. in Vice Chancellor for Research Seminar Series: Excess Heat and Particle Tracks from Deuterium-loaded Palladium. 2009. Univ. of Missouri. p.

10PUB Storms, E.K. An informed skeptic's view of cold fusion. in Vice Chancellor for Research Seminar Series: Excess Heat and Particle Tracks from Deuterium-loaded Palladium. 2009. Univ. of Missouri. p. Presentation

10PUB Storms, E.K., What is known about cold fusion? www.LENR-CANR.org, 2009.

10PUB Storms, E.K. and B. Scanlan. Role of cluster formation in the LENR process. in 15th International Conference on Condensed Matter Nuclear Science. 2009. Rome, Italy: ENEA. p. 331-336.

2.22 2010 Activities and Events

January

30WRK	SiO2+Pd
30WRK	LANL Zeolite
30WRK	Omegabond
30WRK	Carbon Aerogel treated with Pd(NO3)2
30WRK	NRL Zeolite
30WRK	Pd(NO3)2+Ni(NO3)2
30WRK	Li2CO3
30WRK	SrCO3
41SF1	DATA: THEORY OF LENR
44CVD	ICCF15 Disk 1 (of 4). ICCF-15 Videos. DVD 1. Copied
44CVD	Not copied.. ICCF-15 Videos. DVD 2
44CVD	Not copied. ICCF-15 Videos. DVD 3
44CVD	Not copied.ICCF-15 Videos. DVD 4

February

30WRK	Nb2(NO3)3+Pd
30WRK	CaO+FeNdB4+PdCl2
30WRK	Nb2(CO3)3+Pd
30WRK	BaTiO3+Pd(NO3)2
50HCR	Kiva Labs: 2010. (Scanlan). Scanned.Tub VI. Set 20B2.

March

30WRK	ZrO2colloid + PdCl2
30WRK	Magnetic Fe2O3 + PdCl2
30WRK	Fe2O3+PdCl2
30WRK	Fe2O3++Pd(NO3)2+Nd(NO3)e+Li6
30WRK	Fe2O3+Pd(NO3)2+Nd(NO3)3
30WRK	Pd+Fe2O3
41SF1	DATA: Seebeck design

April

30WRK	Pd+Nd3(CO3)2
30WRK	Nd2(CO3)3+Pd(NO3)2)2
30WRK	Nd2(CO3)3+PdCl2
30WRK	5% Pd on BaSO4+D2
30WRK	5% Pd on CaCO3
30WRK	G75E
30WRK	CaO+PdCl2
41SF1	DATA: Letts

May

30WRK	CaO+Pd+D2O
30WRK	SrTiO3+PdCl2
30WRK	BaTiO3+Pd+D2O
30WRK	Zr+Ni+Pd
41SF1	DATA: Shanahan

June

30WRK	SrTiO2
30WRK	SrTiO3 studied with D2
30WRK	SrTiO3 heated with D2O and D2
30WRK	SrTiO3 reacted with air

July

30WRK	SrTiO3 heated in D2O
30WRK	BaTiO3 heated in D2O
30WRK	CaO heated in D2O
30WRK	SrTiO3 studied
50HCR	KivaLabs Progress Reports. Scanned. Tub VIII. Set 23B.

August

30WRK	SrTiO3 studied
30WRK	SrTiO3+Pd+D2
30WRK	NRL Zeolyte+1%Pd+D2
30WRK	SrTiO3+PdCl2+D2O

September

30WRK	No cells or samples specified

October

30WRK	SrTiO3+Pd#2
30WRK	SrTiO3+Pd#3
30WRK	SrTiO3+Pd#4
44CVD	Storms-0203. Disk label: . Proceedings of the. 14th International Conference on. Condensed Matter Nuclear Science. and the. 14th International Conference on Cold Fusion (ICCF-14). Washington, DC. 10-15 August 2008
45EHD	manuals. 26 Files

November

30WRK	SrTiO3+Pd#5
44CVD	(1-5-11) SrTi)3#8. Disk 3 of 3. Disk label: Backup 6/25/11
44CVD	(1-5-11) SrTi)3#8. Disk label: Old Data. No date. May be same as "Old Data" in SF files

December

30WRK	SrTiO3+Pd#6
30WRK	SrTiO3+Pd#7
30WRK	SrTiO3+Pd#8

No Month (13)

10PUB	Storms, E.K. and B. Scanlan, What is real about cold fusion and what explanations are plausible?, in AIP Symposium Series, J. Marwan, Editor. 2010, Am. Inst. of Phys.
10PUB	Storms, E.K., The status of cold fusion (2010). Naturwissenschaften, 2010. 97: p. 861.
10PUB	Storms, E., PROGRESS REPORT, SrTiO3+Pd #1, 9/1/10 to 10/2/10. Unpublished Report. 2010.
10PUB	Storms, E.K. and T.W. Grimshaw, Judging the validity of the Fleischmann–Pons effect. J. Cond. Matter Nucl. Sci., 2010. 3: p. 9-30.
50HCR	Storms' Paper and Response to Reviewer's Comments: Status of Cold Fusion (2010). Scanned. Tub VIII. Set 23Z.
50HCR	Krivit on Naturwissenschaften: Commentary on Storms' "Nuclear Phenomena in Low-Energy Nuclear Reactions". Scanned. Tub VIII. Set 23R.
50HCR	What Is Real about Cold Fusion and What Explanations Are Plausible? Not Scanned. 810/N, 830/503. Duplicate. Tub VIII. Set 25B.
10PUB	Marwan, J., et al., A new look at low-energy nuclear reaction (lenr) research: a response to Shanahan. J. Environ. Monit., 2010.

2.23 2011 Activities and Events

January

30WRK	BATiO3+Pd#1
30WRK	SrTiO3+Pd#8
30WRK	SrTiO3+Pd#7
30WRK	SrTiO3+Pd#9
30WRK	Pd+SiO2

February

30WRK	Pd+SiO2-800°
10PUB	Storms, E.K. Examination of errors that occur when using a gas-filled calorimeter. in ICCF-16. 2011. Chennai, India: http://lenr-canr.org/acrobat/StormsEexaminatio.pdf. p.
50HCR	Studies of Cold Fusion. Scanned. 889. Tub VIII. Set 24I.
80CON	Storms, E.K. Examination of errors that occur when using a gas-filled calorimeter. in ICCF-16. 2011. Chennai, India: http://lenr-canr.org/acrobat/StormsEexaminatio.pdf. p. PB100. ICCF16. Chennai, India. Proceedings, Abstracts
70LLB	16th International Conference on Condensed Matter Nuclear Science (ICCF-16), Chennai, India (2/6-11/11). Abstracts
70LLB	16th International Conference on Condensed Matter Nuclear Science (ICCF-16), Celebrating the Centenary of the Discovery of the Atomic Nucleus, Chennai, India (2/6-11/11). Proceedings
70LLB	Wiley Encyclopedia of Energy and Technology. Volume 1: Nuclear Energy. Low-Energy Nuclear Reactions: Transmutations. (2/11). Preprint of Chapter

March

30WRK	Ni+Pd(NO3)2
30WRK	CaO+Ni+Pd
30WRK	CaO+Ni
30WRK	*Ni

April

30WRK	*Ni+
30WRK	*5%Pt
30WRK	*Cr
41SF1	OLD DATA: Pd-Ni-Cu radiation

May

30WRK	No cells or samples specified
50HCR	What Is Real about Cold Fusion and What Explanations Are Plausible? Not Scanned. 810/N, 860/546. Duplicate. Tub VIII. Set 2fD.

June

30WRK	*CaO+and I (and L 3) 2
30WRK	*CaO
30WRK	*Ni(
30WRK	*NiO
30WRK	*CuO+
30WRK	*Ni(
44CVD	My Disk. Disk 1 of 3. Disk label: Backup 6/25/11
44CVD	5/28/11. CaO + NiO. Disk 2 of 3. Disk label: Backup 6/25/11
44CVD	ORTV, Spies beneath Berlin. 22.06.11. Dup 51' 58". 16x9 FMA. Post Production. (without credits). CEBDS3BB3BXCZXV
50HCR	The Path toward a Plausible Theory of Cold Fusion. Scanned. 887. Tub VIII. Set 24A.

July

30WRK	*Sr
30WRK	*CaO+
30WRK	*CaO+
30WRK	*CaO
30WRK	*CaO
30WRK	*Ni(
30WRK	*Al
30WRK	*CaO
30WRK	*NaOH

August

30WRK	*Ni+
30WRK	*CaO
30WRK	*CaO
30WRK	*CaO
30WRK	*CaO
30WRK	*CaO
30WRK	*Ni
30WRK	*NiC
30WRK	*CaO
30WRK	*Sucrose
30WRK	*Sucrose
30WRK	*Ni

September

30WRK	*Sucrose
30WRK	*Ni
30WRK	*Ba
30WRK	*Ba

30WRK	*Ba
30WRK	*C

October

30WRK	*Ni
30WRK	*C
30WRK	*C
30WRK	*Ni
50HCR	Mass Sweep Plots. Not Scanned. Gas Loading, Nickel-Hydrogen studies. Mass spectrometer plots. 2012. Tub III. Set 14.

November

30WRK	*Ni
30WRK	*Ni
30WRK	*Fe
30WRK	*Ni
30WRK	*Ni
50HCR	EDX Plots. 2010-2011. Not Scanned. Pictures, compositions. Need to relate to Lab Notebooks. White 1 inch 3-ring binder. Tub III. Set 11.

December

30WRK	*Ni
30WRK	*Nb
30WRK	*W
30WRK	*Ni
30WRK	*Fe
30WRK	*Ni

No Month (13)

50HCR	The Fall and Rise of Cold Fusion. 885/N. Duplicate. Tub VIII. Set 25N.
10PUB	Storms, E.K. and B. Scanlan, What is real about cold fusion and what explanations are plausible? J. Cond. Matter Nucl. Sci., 2011. 4: p. 17-31.
10PUB	Storms, E.K., What is now known about cold fusion? (Addendum to the Student's Guide). 2011, www.lenr.org.
10PUB	Storms, E., The fall and rise of cold fusion. 2011.
10PUB	Srinivasan, M., G. Miley, and E.K. Storms, Low-energy nuclear reactions: Transmutations, in Nuclear Energy Encyclopedia: Science, Technology, and Applications, S. Krivit, J.H. Lehr, and T.B. Kingery, Editors. 2011, John Wiley & Sons: Hoboken, NJ. p. 503-539.

2.24 2012 Activities and Events

January

30WRK	Ni formate
30WRK	*Na
30WRK	*Ni

February

30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*NiO
30WRK	*Ni
30WRK	*MWNT
30WRK	*eBay NI
30WRK	*NiO
30WRK	*Cr
30WRK	*Zr
50HCR	Mass Sweep Plots. Not Scanned. Gas Loading, Nickel-hydrogen studies. As for Set 14. 2011-2012. Tub III. Set 15.
50HCR	Mass Sweep Plots. Not Scanned. Gas Loading, Nickel-hydrogen studies. As for Set 14. 2011-2012. Loose papers. Tub III. Set 16.

March

30WRK	*MWNT
30WRK	*eBay
30WRK	*eBay
30WRK	*Ni
30WRK	*NiO
30WRK	*Cr
30WRK	*Zr

April

30WRK	*Pd#20
30WRK	*10-
30WRK	*Ni255

May

30WRK	*Pd
30WRK	*Ti
30WRK	*Pd

30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
41SF1	Letts Data

June

30WRK	*Pd
30WRK	*Cu
50HCR	EDX Plots. Scanned. Storms “Pile 2”. Miscellaneous materials. Tub VI. Set 19D.
50HCR	An Explanation of Low Energy Nuclear Reactions (Cold Fusion). Not Scanned. Tub VIII. Set 25O.

July

30WRK	*Pd
30WRK	*Pd
50HCR	The Nature of Radiation Emitted from Nickel Exposed to Hydrogen. Scanned. 960/761? Tub VIII. Set 24B.
50HCR	An Approach to Explaining Cold Fusion. Not Scanned. 980/767. Duplicate. Tub VIII. Set Tub VIII. Set25I.
70LLB	International Low-Energy Nuclear Reactions Symposium (ILENRS-12), Williamsburg, Virginia (7/1-3/12). Terrestrial Nuclear Processes. Zero Momentum Light Element Reactors

August

30WRK	*Ni
30WRK	*Pd
30WRK	*Pd
30WRK	*Ni
30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
30WRK	*Cu
30WRK	*Cu
30WRK	*Cu
50HCR	A Potential Source of Perfect Energy. Scanned. 9/39. Tub VIII. Set 24J.
80CON	ICCF-17. Daejeon, South Korea. Did not attend conference.

September

30WRK	*Fused Pd
30WRK	*Cu
30WRK	*Cu
30WRK	*Cu
30WRK	*Cu
30WRK	*Cu

30WRK	*Cu
30WRK	*Cu
30WRK	*Cu
30WRK	*G75E
30WRK	*Cu
30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*Formrex
30WRK	*Ni
30WRK	*Ni
50HCR	Cold Fusion from a Chemist's Point of View. Not Scanned. 940/1151. Duplicate. Tub VIII. Set 25Q.

October

30WRK	*EBay
30WRK	*Pd
30WRK	*Ni
30WRK	*Ni
41SF1	OLD DATA: 10/24/1
50HCR	The Role of Voids as the Location of LENR. Not Scanned. 750/761. Duplicate. Tub VIII. Set 25P.
50HCR	"NASA Contract" 2013-2014. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19S.

November

30WRK	*Pd
50HCR	A Plausible Explanation of LENR (Cold Fusion). Scanned. 888. Tub VIII. Set 24K.
50HCR	Nature of Energetic Radiation Emitted from a Metal Exposed to H2. Not Scanned. 960/761? Duplicate. Tub VIII. Set 25C.
50HCR	Nature of Energetic Radiation Emitted from a Metal Exposed to H2. Not Scanned. Not Scanned. 960/761? Tub VIII. Set 25H.
50HCR	The Role of Voids as the Location of LENR. Not Scanned. 750/761. Duplicate. Tub VIII. Set Tub VIII. Set 26J.

December

30WRK	*Pd
30WRK	*Ni
30WRK	*Ni
30WRK	*Bob Huggins
30WRK	*Ni
30WRK	*Ni

41SF1	OLD DATA: 12/7/2012
41SF1	OLD DATA: 12/7/12 (original)
50HCR	Hagelstein Correspondence. Scanned. Tub VIII. Set 23T.
50HCR	Sven Thatje email. Scanned. Tub VIII. Set 23V.
50HCR	What Is Cold Fusion and Why Should You Care? Scanned. 935. Tub VIII. Set 24H.
50HCR	What Is Cold Fusion? Why Should You Care? Not Scanned. 937/N. Duplicate. Tub VIII. Set 25G.

No Month (13)

10PUB	Storms, E.K., A student's guide to cold fusion, revised. 2012: www.LENR.org.
10PUB	Storms, E.K., An explanation of low-energy nuclear reactions (cold fusion). J. Cond. Matter Nucl. Sci., 2012. 9: p. 85-107.

2.25 2013 Activities and Events

January

50HCR	A Theory of Low Energy Nuclear Reactions (Cold Fusion). Not Scanned. Duplicate. Tub VIII. Set 25M.

July

30WRK	*Various Pd samples
30WRK	*Ni sheet
10PUB	Storms, E.K., Explaining Cold Fusion. In 18th International Conference on Condensed Matter Nuclear Science. 2013. Columbia, MO.
80CON	Storms, E.K., 2013. Explaining Cold Fusion. In ICCF-18. Columbia, MO. ICCF18. Columbia, MO, USA. Program, Participants, Schedule
70LLB	International Conference on Cold Fusion (ICCF-18), Columbia, Missouri. Storms' Paper: An Informed Skeptic's View of Cold Fusion (7/21-27/03). Conference Program, Participant Roster, Program Schedule. University of Missouri Fact Sheet.
70LLB	National Security Innovation Center (7/21/13). Low-Energy Nuclear Reaction Introductory Short Course

August

30WRK	*Ni
30WRK	*Dot8
41SF1	OLD DATA: Dot Ni+cu(8-29-13)

September

30WRK	*Nidot3
30WRK	*NIdot7
30WRK	*Nidot5
30WRK	*Pddot1
30WRK	*Pddot#2
30WRK	*Pddot#4
30WRK	*Pd

October

30WRK	*Pd
30WRK	*Pddot7
30WRK	*Pddot#3
30WRK	*Ni
30WRK	*Pd
44CVD	MY FIRST PROJECT. Disk label: . Washington. 10/25/06

November
30WRK *Pd
30WRK *Pd

December
30WRK *Pd
30WRK *Pd
30WRK *Pd

2.26 2014 Activities and Events

January

30WRK	*Pd
30WRK	*Ni
50HCR	"Cooper Life Sciences" 2014. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19Q.

May

30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
30WRK	*NI
41SF1	SEEBECK CALORIMETER STUDY
50HCR	Prometheus Fusion Laboratory Materials. Scanned.. Tub VIII. Set 26A.

June

30WRK	*No samples specified
41SF1	OLD DATA: Ni powder SEM
44CVD	MyDisc. Disk label:. Edmund Storms. 9883673
44CVD	My Disc. Disk label: . Explanation of LENR. June 2014
50HCR	"Infinite Energy Book Contract". 2014. Scanned. White envelope. Storms "Pile 2". Miscellaneous materials. Tub VI. Set 19T.

July

30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*eBay
50HCR	LENRGY Laboratory Preparation Materials. Scanned. Tub VIII. Set 26B.

August

30WRK	*Ni

September

50HCR	NASA SOW and Amendment. Scanned. Storms "Pile 2". Miscellaneous materials. Tub VI. Set B.

October

30WRK	*No cells or samples specified
41SF1	OLD DATA: Pd on Si disc study

November

30WRK	*Si+Pd#4
30WRK	*Si+Pd#2
30WRK	*Si+Pd#1
30WRK	*Si -Pd#3
30WRK	*Si-Pd#6
30WRK	*Si-PdS
30WRK	*Pd
30WRK	*Pd
30WRK	*Ni
41SF1	OLD DATA: sputtering discharge

December

30WRK	*Powder B on Pd tube
30WRK	*Li
30WRK	*Li
30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
30WRK	*Cu
30WRK	*Cu

2.27 2015 Activities and Events

January

30WRK	*Pd
30WRK	*Cu
30WRK	*Pd
30WRK	*Ni
30WRK	*Cu

February

30WRK	*Ni
30WRK	*Ni
30WRK	*Ni
30WRK	*Dual laser study started
30WRK	*Pd
41SF1	OLD DATA: Ni-Pd-Al-Li

March

30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
30WRK	*Pd
50HCR	Investigation of LENR for Energy Production by LENRGY Collaboration. Scanned. Tub VIII. Set 26C.

April

30WRK	*Pd#29
30WRK	*Pd#58
30WRK	*Pd#22
30WRK	*Pd#58
30WRK	*Pd#28
30WRK	*Pd#36
30WRK	*Pd#22
80CON	ICCF-19. Padua, Italy. Did not attend conference.

May

30WRK	*Pd
30WRK	*Pd
30WRK	*Pd

July
41SF1 Study using new calorimeter

August
30WRK *Pd
30WRK *Pd
30WRK *#1.1, #1.2, #1.3
30WRK *#3.1, #3.2
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pt
30WRK *Al
30WRK *Pd
42SF2 Study using new calorimeter

September
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd

October
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd

November
30WRK *Pd
30WRK *Pd
30WRK *Pd
30WRK *Pd
50HCR Comment on Papers by K Shanahan that Propose to Explain Anomalous Heat Generated by Cold Fusion. Not Scanned. 690/012. Duplicate. Tub VIII. Set 25K.
50HCR Paper: "Testing Sputtered Material for Production of Radiation Generated by LENR". Scanned. Tub VIII. Set 23L.

3 LENR Career Highlights

The objectives of the Project – to assemble, organize, and report on Dr. Storms' LENR research – are best achieved by establishing an overall context of his career. This context includes both his research at LANL for 30+ years before the 1989 LENR announcement and his LENR research during the following 28 years up to the present. A photo of Dr. Storms that was taken in about 2000, possibly in conjunction with an interview by Eugene Mallove[8], appears in Figure 4-1.

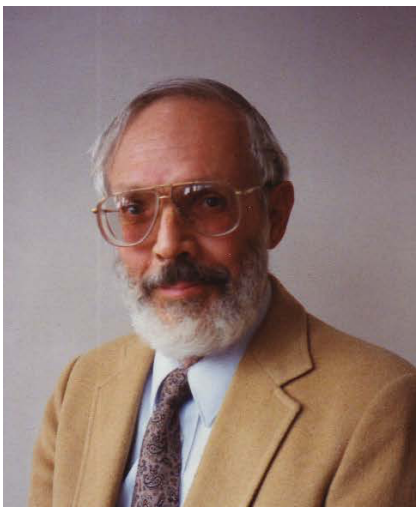

Figure 4-1.
Dr. Storms in about 2000

3.1 Pre-LENR Career at Los Alamos National Laboratory

Dr. Storms' roots are in Pennsylvania, where he received his undergraduate degree. He then went to graduate school at Washington University in St. Louis and received his PhD in radiochemistry[9]. He was employed part-time at LANL during his graduate work, and he became a permanent employee in about 1956 after completing his studies. His main research area at LANL was high-temperature materials, such as the carbides and nitrides. Two of the main efforts that he contributed to were the nuclear rocket (Rover) and nuclear reactors in space (SP-100)

[8] Mallove, E., 2000. Interview of Edmund Storms. Storms LENR Library, CD in Envelope.

[9] Storms, E.K., 1957. A Preliminary Study of the Effect of Temperature on High-Vacuum Electrical Conduction. Dissertation. Washington University, Department of Chemistry.

programs[10]. One of his major publications during this period was a book on the refractory carbides[11]. Dr. Storms retired from LANL in 1991, but continued as a consultant until 1993. Additional information on Dr. Storms' pre-LENR research at LANL is provided in Appendix C.

3.2 LENR Research at LANL

LANL was one of the earliest preeminent research organizations to attempt to replicate LENR after the 1989 announcement. No fewer than eight research teams conducted different types of experiments for replication. Dr. Storms took an immediate interest in the phenomenon and began research within a few weeks. He focused initially on tritium production as a signature. With the assistance of Carol Talcott, an expert in palladium hydride chemistry (and later Dr. Storms' wife), more than 250 electrolytic cells were explored[12]. Anomalous levels of tritium was observed in 13 of the 250 cells. Later at LANL, Dr. Storms conducted additional research with electrolytic cells and a calorimeter, measuring production of excess heat as the LENR signature. Figure 3-2 shows a calorimeter that was used during this research.

Dr. Storms led one of two LANL teams that had success in replicating LENR. During this time he authored or co-authored a number of papers and publications, and he gave testimony on LENR to the U.S. Congress in 1993[13].

3.3 Research in Private Laboratory

After a break to build his home in Santa Fe, Dr. Storms began LENR experimental work in June 1995. This research in his home laboratory has continued up to the present day. During this timeframe, he has also made substantial contributions to explanation of the LENR phenomenon.

---

[10] "Research at Los Alamos National Laboratory Prior to LENR Involvement". Memo to Edmund Storms from Tom Grimshaw, September 26, 2015.

[11] Storms, E., 1967. The Refractory Carbides. New York. Academic Press.

[12] Storms, E.K., 2007. The Science of Low Energy Nuclear Reaction: a Comprehensive Compilation of Evidence and Explanations about Cold Fusion: Singapore, World Scientific Publishing, p. 10.

[13] Storms, E., 1993. Statement of Dr. Edmund Storms before Congress. in Hearing Before the Subcommittee on Energy of the Committee on Science, Space, and Technology, U. S. House of Representatives, One Hundred Third Congress, First Session. Washington, C.D.: U.S. Government Printing Office. p. 114.

Figure 4-2.
Calorimeter Used by Dr. Storms at LANL for Early LENR Studies.
Note the Electrolytic Cell Inside the Calorimeter Near the Bottom. Photo taken April 2016.

Dr. Storms' laboratory was initially set up in the main building of his home, but was subsequently moved to the annex building, where it is currently located. Among the assets of his laboratory are a scanning electron microscope (SEM) with energy-dispersive x-ray (EDX) spectroscopy capability, mass spectrometers, and an optical microscope, as well as a complete shop for constructing experimental apparatus, including metal machining and glass working. The SEM occupies a large room in the main building.

Dr. Storms has conducted many types of LENR experiments, utilizing most of the methods for achieving the effect, including the Fleishman-Pons approach (electrolytic cells) and the gas discharge and gas loading methods. He has also designed and constructed many kinds of calorimeters for measuring excess heat. Although he has collaborated with many individuals and organizations, for the most part he has conducted his private research on an individual basis. Dr. Storms has enjoyed the support of a number of different sponsors during the years of his LENR research.

3.4 Publications and Conferences

Dr. Storms' most prominent publications are two books published in 2007[14] and 2014[15]. (Figure 3-3). He has also documented the results of his research in other publicly-available publications and unpublished progress reports. A principal venue has been the conferences dedicated to LENR, the International Conferences on Cold Fusion (ICCFs), of which Dr. Storms attended all but three of the 18 conferences from 1990 to 2015.

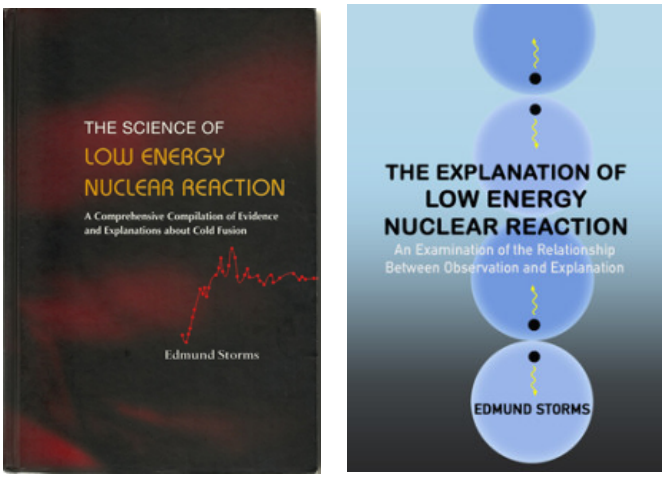

Figure 4-3.
Storms' 2007 and 2014 LENR Books.

3.5 LENR Library

Dr. Storms has accumulated one of the best libraries of LENR publications, books, and related materials in the world. The library contains more than 5000 electronic files and at least 1700 hard-copy papers (some of which are also in the electronic file collection). The electronic files are maintained in Endnote by Dr. Storms, and copies have been incorporated in the Project folder on Dropbox. The paper copies are on bookshelves (about 30 feet of shelf space) in Dr. Storms'

[14] Storms, E.K., 1997. The Science of Low Energy Nuclear Reaction: a Comprehensive Compilation of Evidence and Explanations about Cold Fusion: Singapore, World Scientific Publishing.

[15] Storms, E.K., 2014. The Explanation of Low Energy Nuclear Reaction: an Examination of the Relationship Between Observation and Explanation. Concord, NH. Infinite Energy Press.

office in Santa Fe. 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. Storms[16].

3.6 Professional Awards

Dr. Storms was honored (along with Michael McKubre) by Wired Magazine in 1998 as one of the 25 people in the US making a significant contribution to new ideas. As noted above, with few exceptions Dr. Storms has participated in in the ICCF conferences. In the 2005 conference he was awarded the Preparata Medal, the most prestigious award of the LENR field, by the International Society of Condensed Matter Nuclear Science (Figure 3-4). In 2013 he received a Distinguished Scientist Award from the University of Missouri for his contributions to the LENR field.

Figure 4-4.
Dr. Storms' Preparata Metal, Which He Received in 2005. Photo Taken April 2016.

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

4 Stage 3 Plan

As noted in previous sections, in Stage 3 the items of information for the years of Dr. Storms' LENR research presented in Section 3 will be further interpreted. The objective is to define and describe the phases of his work based on objectives, type of research, sponsors, and other factors.

Appendix A. Project Methods

The Storms LENR Research Documentation Project (Project) began in August 2015[17] when Dr. Grimshaw made his first visit for information collection. The overall objective is to collect and organize Dr. Storms' research files and make them more readily accessible. The Project covers the period from March 1989 through December 2015.

Standard project management practices were used for the Project insofar as possible. An incremental approach was used since the full scope of the research materials was not known in advance. The Project is being conducted in three stages - information collection, organization, and documentation (LENR career summary). A report is being prepared for each stage. Much of the work was done at Dr. Storms' home laboratory in Santa Fe, New Mexico. In addition to the work accomplished onsite at Dr. Storms' home lab, tasks were also performed at the Energy Institute, such as scanning of hard-copy materials and preparing Project reports. Trips were made from Austin to Santa Fe for 3 to 7 days at a time to interview Dr. Storms and collect information:

Trip	Date	Trip	Date
1	August 2015	6	February 2016
2	September 2015	7	April 2016
3	October 2015	8	August 2016
4	December 2015	9	March 2017
5	January 2016	10	Planned

During each visit to his home lab, interviews with Dr. Storms took place, and he 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 (which includes his LENR Library), his current laboratory, and a basement under his home.

[17] The Project was actually initiated in the Spring 2015 ("Professional Biography Initiative: Next Step". Memo to Ed Storms from Tom Grimshaw, June 10, 2015), but substantive effort began in August.

Parts of the Stage 1 information collection are described in Rounds 1 and 2 (before or after Onsite Visit #8, August, 2016).

Organization

The Project has been organized into the Components shown below based primarily on the source of information. LENR-related conferences attended by Dr. Storms are also included, and a Component has been established for information from Dr. Storms 2007 book[18].

Abbreviations been adopted for the Components in Column 1 of the individual timelines to allow ready recognition of the items (rows) in the Integrated Timeline as follows:

Publications	10PUB
Unpublished Progress Reports	20UPR
Work History	30WRK
Electronic Data Files	40EDF
Storms Computer Files (Round 1)	41SF1
Storms Computer Files (Round 2)	42SF2
ZIP and Round 1 CD Electronic Files	43ZCD
Round 2 CDs, DVD Files and VHS Tapes	44CVD
External Hard Drive Files	45EHD
3–1/2 Inch Floppy Files	46FLD
Hard Copy Records	50HCR
Research Laboratory	60RSH
LENR Library	70LLB
Conferences	80CON
2007 Book	90BOK

File Management and Storage

The electronic files have been organized and copied into a Dropbox folder set up for the Project. The hard-copy files and related materials are in a set of storage tubs in Dr. Storms' home.

The sources of the electronic files are from Dr. Storms' current computer footnote and legacy media. Electronic information has been copied into a Dropbox folder set up for the Project. The

[18] Storms, E.K., 2007. The Science of Low Energy Nuclear Reaction: a Comprehensive Compilation of Evidence and Explanations about Cold Fusion: Singapore, World Scientific Publishing. Chapter 2.

organization of the folder follows the Project Stages and Components[19] as shown below. The floppy disks, CDs, and other legacy media have been placed in the storage tubs as described below.

Stage 1
- 5 Stage 1 Report
- 10 Publications
- 20 Progress Reports
- 30 Work History
- 40 Data Files from Storms' Computer
- 45 Data Files from CDs & ZIP Disks
- 50 Hard Copy Records
- 60 Research Laboratory
- 70 LENR Library
- 90 Project Management

Stage 2
- 5 Stage 2 Report
- 10 Publications
- 20 Progress Reports
- 40 Electronic Files
- 50 Hard Copy Files
- 60 Research Laboratory
- 80 Conferences
- 90 Project Management

Stage 3
- 5 Stage 3 Report
- 90 Project Management

The hard-copy files, as well as materials for other Project Components ,have been placed in hanging folders in storage tubs that are kept at Dr. Storms' home laboratory in Santa Fe. The tub contents are summarized below:

Tub	Description	Sets
I	Files from Basement	1-3
II	Files from Basement	4-8
III	Files from Basement	9-16
IV	Files from Basement	17
V	Files from Office	18
VI	Files from Office	19-21
VII	Retired	Sets Moved to Other Tubs
VIII	Files Added or Reorganized	22-32
IX	Lab Notebooks and 2014 Book (Preprints)	– –
X	Extra Copies of LENR Magazines	– –
XI	ZIP Disks, CDs, DVDs, Floppy Disks	– –
XII	Filing Supplies	– –

Tubs I to VIII contain the Sets of hard-copy files described for Component 50HCR.

Reporting

The two primary means of reporting were memos prepared to record progress and the reports for Stages 1, 2, and 3. The Stage 1 report was prepared as a Preliminary Draft on March 19, 2016, as

[19] "Dropbox Organization and Collected Memos Volume for Storms LENR Research Documentation Project". Memo to Edmund Storms from Tom Grimshaw, July 10, 2016.

a Draft on June 16, 2016, and as a Second Draft on April 18, 2017. A Preliminary Draft of this Stage 2 report was submitted on July 29, 2016. The Stage 3 report is in preparation.

Approximately 50 memos were prepared to document progress during Round 1 (June 2015 to June 2016) and about __ memos for Round 2 (July to __). A printed compilation of the memos has been placed in ring binders. The contents of both compilations have been scanned and placed in the Project Dropbox folder.

Appendix B. Stage 1 Summary

The records collected for Dr. Storms' LENR research during Stage 1 included both publicly-available publications and unpublished information such as laboratory notebooks, electronic data files, hard-copy files, and other materials. Information was also collected in each of the Project Components, which are described in Appendix A and in the Stage 1 report, which also includes timelines for each Component. Summaries of the Stage 1 descriptions of the Components are provided below.

B.1 Publications

Dr. Storms' principal publications are his two books, one published in 2007[20] and the other in 2014[21]. He also contributed to the LENR field by reporting the results of his research in publicly-available publications. About 125 papers were prepared from 1989 to 2015. PDF copies of the publications (Component 10PUB) have been placed in the Project Dropbox folder. The publications have also been assembled into "Collected Works" (three volumes) in both electronic and hard-copy form[22]. The PDFs of the Collected Works are also in the Dropbox folder.

B.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. These reports were often prepared to demonstrate progress and show results to sponsors of his work. Approximately 111 documents have been found for the Project (Component 20UPR). They span a range from 1995 to 2015. A "Collected Progress Reports" (two volumes) [23] has also been prepared in electronic and hard-copy form in a similar manner to the Collected Works for the Dr.

[20] Storms, E.K., 2007. The Science of Low Energy Nuclear Reaction: a Comprehensive Compilation of Evidence and Explanations about Cold Fusion: Singapore, World Scientific Publishing.

[21] Storms, E.K., 2014. The Explanation of Low Energy Nuclear Reaction: an Examination of the Relationship Between Observation and Explanation. Concord, NH. Infinite Energy Press.

[22] Edmund Storms LENR Research Papers, Collected Works, 3 Volumes. April 2016.

[23] Edmund Storms LENR Research Papers, Collected Progress Reports, 2 Volumes. May 2016.

Storms' publications. The individual reports and the scans of the Collected Progress Reports are available on Dropbox.

B.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 2015[24] have been prepared. They are listed below.

No.	Period Covered	Topic	Notebook Description
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, also referred to as "Work History", 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. The resulting file has more than 2750 lines in the file. The spreadsheet (Component 30WRK) has been placed in the Project Dropbox folder. The lab notebooks are in the storage tubs.

B.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. These files were obtained from Dr. Storms' computer and from legacy media located in his office (Component 40EDF). In addition to experimental

[24] Dr. Storms has continued to perform experiments and record the results in lab notebooks since November 2015, but the cutoff date for this part of the Project has been set at that time.

data, these 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 into the Project Dropbox folder. The files obtained from Dr. Storms' computer and various legacy media are described in six subcomponents below.

B.4.1 Storms Computer, Round 1 (41SF!)

Dr. Storms provided files from his current computer during both Round 1 and Round 2 of Stage 1. The files obtained in Round 1 are in five folders:

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

B.4.2 Storms Computer, Round 2 (42FS2)

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

- (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 as the folder in 41SF1.

B.4.3 ZIP Disks and CDs (Round 1) (43ZCD)

The ZIP disks and first set of CDs were obtained for the Project in Round 1. The files are in two sets of media (4 ZIP disks and 6 CDs). The files have been grouped by the source ZIP disk or CD as shown below.

- 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

B.4.4 CDs (Round 2), DVDs, and VHS Tapes (44CVD)

The LENR-related CDs, DVDs, and VHS tapes in this subcomponent are in eight sets:

- 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)

B.4.5 External Hard Drive (45EHD)

This subcomponent includes files from a LaCie 8900 external hard drive. The folders are shown below.

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

B.4.6 Floppy Disks (46 FLD)

Another subcomponent of electronic files is from two sets of 3 1/2-inch floppy disks, one from various locations in Dr. Storms' office and the other from a carousel designed for discs of this size. The labels and files of the disks from the carousel are shown below.

–	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 Letters	1989 - 1993
–	FLD8	Cold fusion talk	*Cold Fusion talk*
–	FLD9	J#4	2/29 – 9/5
–	FLD10	J#4-2	J#4, 3/29 – graphs & summary
–	FLD11	Papers	Effect of Hydriding – Paper & data, Electrolytic Tritium – Paper & data
–	FLD12	papers2	28th 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 & emos & proposal
–	FLD16	Star C	Star C*Cold Fusion Text Archives
–	FLD17	Talks	Various CF Talks
–	FLD18	tritium study	Tritium Data

The contents of the disks from the 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

B.5 Hard Copy Records

The hard-copy files are from Dr. Storms' office and a storage area in his basement. The files, which include materials from his early LENR research at LANL, have been organized into 32

Sets and have been placed in storage tubs with hanging folders. The Sets and their sources as well as their locations in the storage tubs are listed below.

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

An inventory of the files indicates that there are approximately 100 items in the 32 Sets. However, many of the items include a number of individual components. A principal objective of the Project is to make the research records as accessible as possible. An effort has therefore been initiated to scan the hard copy files into electronic (PDF) form. 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 Dropbox folder.

B.6 Research Laboratory

Dr. Storms has developed a sophisticated operation for LENR experiments in 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. The lab consists of a flexible apparatus for preparing samples and performing experiments as well as a sophisticated scanning electron microscope (SEM).

B.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. The library consists of electronic files (5000 LENR papers and similar items), hard-copy papers (at least 1700 papers, some of which are also in the electronic file collection), and over 120 books and similar items. The electronic files are maintained in Endnote by Dr. Storms. The hard-copy papers are on the bookshelves (about 30 feet of shelf space).

The books, which are on four bookshelves adjacent to the hard-copy papers, include conference proceedings, books on LENR, journals (Infinite 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 most of the International Conferences on Cold Fusion (ICCFs). This is one of the most complete collections of these materials available, as they are not routinely obtained and stored by mainstream libraries. These materials are described in the next section.

B.8 Conferences

Dr. Storms attended all but three of the ICCF from 1990 to 2013 as shown below. He gave presentations and prepared papers at most of the conferences, and he collected the abstracts, proceedings, and related materials has placed them in his LENR Library as noted above.

ICCF#	Year	Location
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

B.9 Timelines of Project Components

Timelines were developed in Stage 1 for the Project Components and Subcomponents. They were prepared with a consistent format of six columns as shown below:

- Component (Comp)
- Number (No)
- Year
- Month (Mon)
- Item or Event
- Notes

This uniform format was established so that the timelines could readily combined and sorted for the Integrated Timeline in Stage 2. To provide additional context, a timeline was added that is derived from Dr. Storms 2007 book[25].

[25] Storms, E.K., 2007. The Science of Low Energy Nuclear Reaction: a Comprehensive Compilation of Evidence and Explanations about Cold Fusion: Singapore, World Scientific Publishing. Chapter 2.

Appendix C. Pre-LENR Research at Los Alamos National Laboratory

Dr. Storms' research at LANL was primarily in high temperature materials, such as the carbides and nitrides. He authored or contributed to many LANL reports as well as U.S. patents (Table C-1). One of his major publications was a book on the refractory carbides[26].

Table C-1. Storms Publications and Contributions at LANL

Storms, E.K., 1959. The variation of lattice parameter with carbon content of niobium carbide. LANL Report LADC-3755

Pretzel, F. E., 1960. Properties of lithium hydride. I, Single crystals. Contributions by E.K. Storms. LANL Report LA-DC-4356.

Kempter, C. P., 1960. Lattice dimensions of NbC as a function of stoichiometry. Contributions by E.K. Storms. LANL Report LADC-4478

Storms, E.K., 1962. Critical review of refractories. Part 1. Selected properties of group 4a, -5a, and -6a carbides. LANL Report LAMS-2674.

Storms, E.K., 1962. Critical review of refractories. Part 2, Selected properties of group 4a, -5a, and -6a nitrides. LANL Report LAMS-2674-pt.2

Storms, E.K., 1964. A critical review of refractories. LANL Report LA-2942

Sandenaw, T.A., 1965. Heat capacities of $NbC_{[0.702]}$, $NbC_{[0.825]}$, $NbC_{[0.980]}$ and $Nb_{[2]}$ C below 320°. Contributions by E.K. Storms. LANL Report LA-3331.

Storms, E.K., 1967. The refractory carbides. LANL Library TA418.26.R43x v.2

Storms, E.K., 1968. Uranium--carbon and plutonium--carbon systems. LANL Report LA-DC-9724.

Storms, E.K., 1982. An analytical representation of the thermal conductivity and electrical resistivity of of $UC_{1\pm X}$, $PuC1_x$, and $(U_yPu_{1-y})C_{1\pm x}$. LANL Report LA-9524.

Holley, C. E., 1984. The actinide carbides. Contributions by E.K. Storms. LANL Library QD172.A3 C45 pt. 6.

Clark, W.M., 1988. Liquid metal ion source and alloy. Contributions by E.K. Storms. US PATENT 4,775,818.

Clark, W.M., 1987. Liquid metal ion source and alloy for ion emission of multiple ionic species. Contributions by E.K. Storms. . US PATENT 4,670,685

Storms, E.K., 1992. Behavior of $ZrC_{(1-x)}$ and $U_{(y)}Zr_{(1-y)}C_{(1-x)}$ in flowing hydrogen at very high tem. LANL Report LA-12043-MS

Bozack, M J., 1999. Enhanced-wetting, boron-based liquid-metal ion source and method. Contributions by E.K. Storms. US PATENT 5,871,848.

Dr. Storms contributed to high-temperature materials aspects of the Rover program, whose objective was to develop a nuclear thermal rocket. The program ran at LANL from 1955 to 1972 and had three phases – Kiwi, Phoebus, and Pewee[27] (Figure C-1). It involved NASA and the

[26] Storms, E., 1967, The Refractory Carbides. New York. Academic Press.

[27] Fishbine, B, et al., 2011. Nuclear Rockets: To Mars and Beyond. Los Alamos National Laboratory, National Security Science, Space Science Special Edition. Online. Available: https://www.lanl.gov/science/NSS/issues/NSS-Issue1-2011.pdf.

Atomic Energy Commission and was managed by the Space Nuclear Propulsion Office of the Executive Branch.

Figure C-1.
Nuclear Rocket Test Equipment from LANL's Rover Program.
The equipment from the first phase (Kiwi) is on the left. Equipment from the second phase (Phoebus) is on the right.

Subsequently, Dr. Storms participated in LANL's efforts to develop nuclear reactors for use in space, the SP-100 (for Space Power 100 kWE) program[28] (Figure C-2). The program originated in the 1980s as a space-based power supply for Star Wars weapons. Later it evolved into a flexible design capable of space-based, lunar-based, and Mars-based power applications. It continued until the early 1990s.

The advanced research in refractory materials is evident in the two programs. The Rover design, for example, utilized nuclear reactors that had a solid cores. The high temperatures of operation (over 4300°F) of the solid core reactors required the use of refractory materials with very high

[28] DeMuth, S., and M. Parker, 2000. SP-100 Space Reactor Pictorial Design Introduction, Rev. 0. Los Alamos National Laboratory Report LA-KUR-00-6011, December. Online. Available: https://www.researchgate.net/profile/Scott_Demuth/publication/283292466_SP100_Space_Reactor_Pictorial_Design_Introduction/links/5630fa5e08ae13bc6c354d2a.pdf?inViewer=0&pdfJsDownload=0&origin=publication_detail.

melting points. The refractory materials were used to protect the reactors from corrosion caused by very high temperature hydrogen that was used for propulsion.

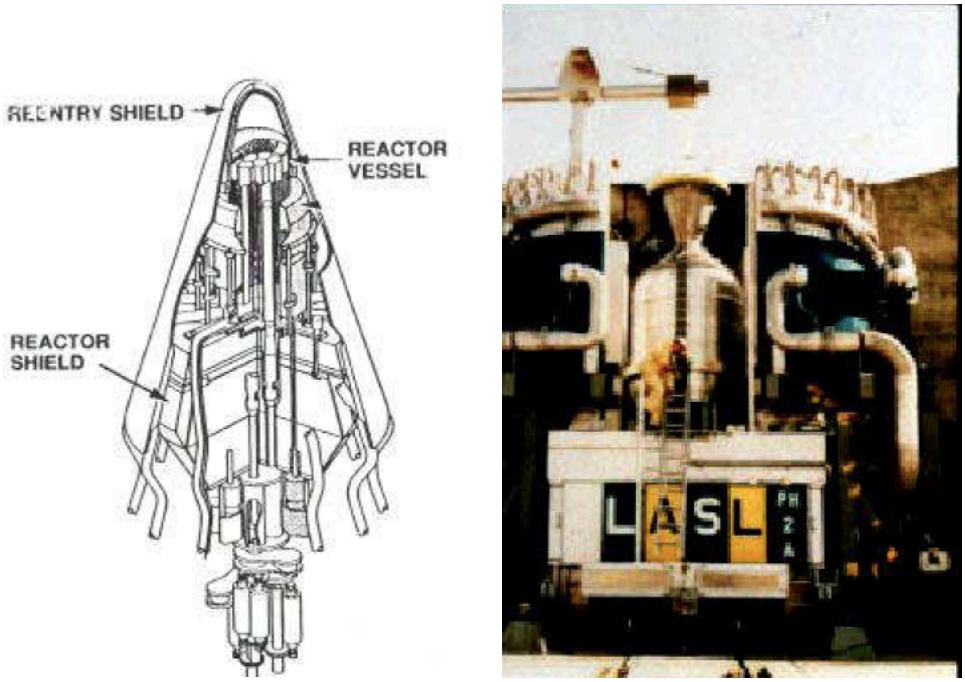

Figure C-2.
Cross-Section Diagram and Test Unit Photo of the SP-100 Nuclear Reactor Device