

HAL FOX’S “FUSION FACTS” NEWSLETTERS: A VITAL RESOURCE FOR DOCUMENTING EARLY COLD FUSION ACCOMPLISHMENTS

*A PROJECT OF THE LENR RESEARCH
DOCUMENTATION INITIATIVE*

Second Draft Report, Volume 2

**Bibliography from “Cold Fusion Impact in the Enhanced
Energy Age”**

Thomas W. Grimshaw, Ph.D.
LENRGY, LLC
Austin, TX

Christy Frazier, Managing Editor
Infinite Energy Magazine
Concord, NH



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1 Introduction

Cold fusion (CF) was announced on March 23, 1989, by Dr. Martin Fleischman and Dr. Stanley Pons. The immense potential energy benefits of CF (also referred to as Low Energy Nuclear Reactions, LENR) were immediately recognized. Humankind's need for a source of cheap, clean, inexhaustible, and safe energy seemed to be permanently satisfied. However, LENR was rejected by mainstream science within a year or so, and it remains highly marginalized to this day. On the other hand, the phenomenon has continued to be rigorously pursued by many investigators in several countries. The mounting evidence for the reality of LENR shows that its potential benefits may yet be realized.

Hal Fox (Figure 1-1¹) made many contributions to the cold fusion field starting very soon after the 1989 announcement as described in Volume 1 of this report. His achievements are well summarized in his obituary in *Infinite Energy*². He created the Fusion Information Center and worked closely with many of the field's most prominent researchers for more than 20 years before his death in 2012.



*Figure 1-1.
Hal Fox*

¹ Date Uncertain. Source: Cold Fusion Research Laboratory (Japan). <http://www.kozima-cfrl.com/News/CFREngNews/CFRLEN79.pdf>.

² Frazier, C., 2012. New Energy Advocate Hal Fox Dies. *Infinite Energy*, Issue 105, September/October.

One of Fox's most significant accomplishments was his monthly newsletter, "Fusion Facts", which he started just a few months after the announcement. Because of its timing and thorough coverage, the newsletter is one of the most significant sources of information on the people and activities in the cold fusion field in its earliest stages.

A project has been undertaken by LENRGY and Infinite Energy to describe the Fusion Facts contents and make the newsletters more readily available in the public realm. Additional information on Fox's Fusion Facts and LENR career is in Volume 1 of this report. This Volume 2 focuses on the cold fusion bibliography included in his book as a floppy disk.

2 Fox's Bibliography in "Cold Fusion Impact in the Enhanced Energy Age"

Hal Fox's book, "Cold Fusion Impact in The Enhanced Energy Age" (Figure 2-1) appeared in 1992. It was published by his Fusion Information Center, Salt Lake City, with Fox indicated as editor of "Fusion Facts". It was advertised in Fusion Facts in September 1995 (Figure 2-2).

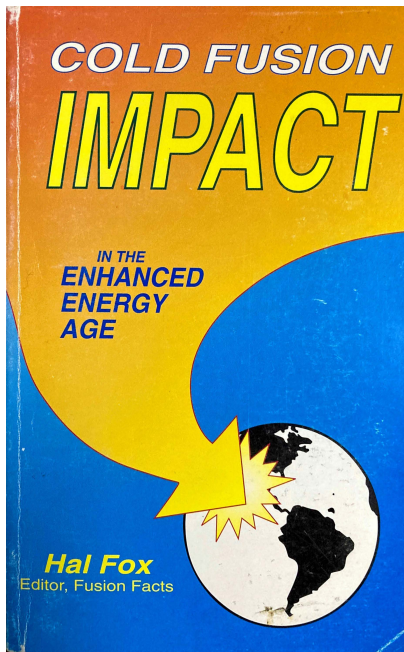


Figure 2-1.
Cover of Hal Fox's Book

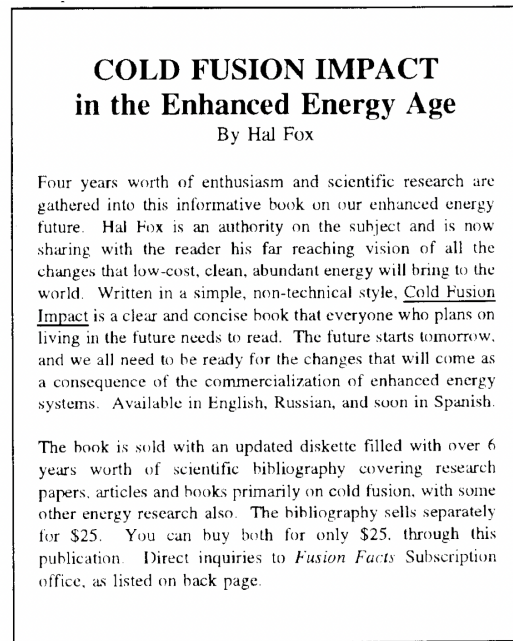


Figure 2-2.
Fusion Facts Announcement, September 1995

2.1 Impacts on Sectors of Society

As the title indicates, the book delineates the expected impacts of cold fusion on various portions of society. The book is very closely related to Fusion Facts. Its 12 chapters are listed in its table of contents as shown in Figure 2-3. Nine of the 12 chapters are similar to topics in Fusion Facts (see Volume 1).

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1. DEVELOPMENT OF NEW ENERGY TECHNOLOGY. Revolutionary Energy Source, Dream of Clean, Low-cost Energy; Hot Fusion and Fission; Cold Fusion Concept; A New Science Emerges; How Cold Fusion Works; Patents; Cold Fusion Energy Advantages.
2. COMMERCIALIZING COLD FUSION. Essential Conditions for Commercialization; Heat -- First Commercial Application; The Economics of Cold Fusion; Future Power Plant Design; Corporate Involvement
- COLD FUSION IMPACT ON ...
3. GOVERNMENTS. Global Response: A Study in Contrast; Response in India and Japan; Response in the United States; Energy Changes Will Impact Governments.
4. ENERGY POLICY. Impact on Future U.S. Energy Policy; Oil Development -
- Alaska and U.S.; Contacts within the Department of Energy.
5. ENVIRONMENT. Problem: Burning Fossil Fuels; Problem: Agricultural Growth; Problem: Energy for Manufacturing; Solution for the Environment: Clean, Low-cost Energy.
- 6- AGRICULTURE. Past Improvements in Agriculture; Current Food Challenge; Low-cost Energy in Agriculture; Projected Areas of Improvement.
7. TRANSPORTATION INDUSTRIES. Fusion - Electric Automobile; Fuels from Water, Freedom from Pollution; Problems to be Resolved; Role of Service Stations and Mechanics; Redesigning Cities; Mobile Energy Systems for Prime Movers.
8. MANUFACTURING. Cold Fusion Technology Characteristics; Energy Used by Basic Processes; Energy Consumption; Total Electrical Energy Used in U.S.; Electrochemical Cells; Water Heating; Factors to Consider.
9. THE FINANCIAL COMMUNITY. Negative Impact to Some Industries; Warnings; International Implications; Impact on Venture Capital.
10. EDUCATION. The Problem of Discovery; The Peer Review Process; Who Is a Peer?; The "Fiasco of the Century"; An Analysis of Comments; The Education Industry; Pre- college Education; College Education; Corporate Education and Retraining; Challenge to Science Teachers; Community Education & FIC Resources.
11. ENHANCED ENERGY TECHNOLOGY. "EV" Patents; Tapping the Energy of Space; How Much Energy Is There?; The Implications Are Enormous; Before the Turn of the Century; Saving a World at Risk.
12. MILESTONES OF COLD FUSION DEVELOPMENT

*Figure 2-3.**Contents of "Cold Fusion Impact in the Enhanced Energy Age"*

2.2 Bibliography from Fusion Facts Newsletter

Another way that Fox's book is closely tied to Fusion Facts is the "Bibliography of Cold Fusion", which is in a floppy disk included in a pocket that is attached to the inside of the back cover (Figure 2-4). The label on the 3-1/2 inch floppy disk indicates that the bibliography has over 90 pages and that it is updated quarterly.

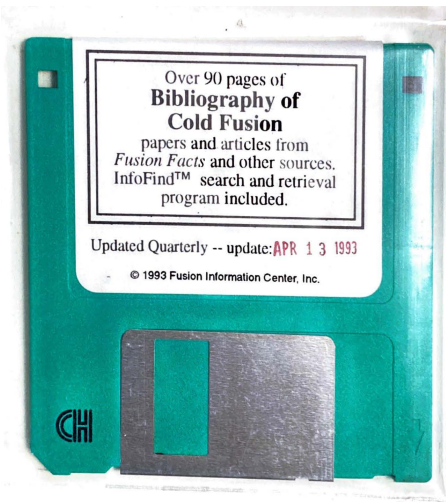


Figure 2-4

Example Floppy Disk with "Bibliography of Cold Fusion" Included in Fox's Book

A disk with a December 1992 date has been read and the contents placed in a Microsoft Word file. Approximately 1470 references were found, occupying nearly 90 pages, as claimed by the disk label. They are listed in Appendix A. The references are taken almost entirely from citations in the issues of Fusion Facts. Nearly all of the references in fact have a notation of the month and year of the newsletter where the reference occurs (see Volume 1 of this report).

Appendix A. Cold Fusion Bibliography on Diskette in “Cold Fusion Impact in The Enhanced Energy Age”

COLD FUSION BIBLIOGRAPHY

from FUSION FACTS

July 1989 - December 1992

From Diskette in Hal Fox's

“Cold Fusion Impact in the Enhanced Energy Age” (©1992)

Thomas W. Grimshaw, LENRGY, LLC, Austin, Texas

November 2021

A1. Papers and Reports

Note: The last item in each entry is the date of appearance in Fusion Facts, which was published from July 1989 to December 1996. FF entries for January 1993 to December 1996 are therefore unlikely to be included in this bibliography.

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1431. Zhongxi Zhang (Southeast U., Nanjing) and Hongyi Fan (World Lab., Beijing), "Properties of States Generated by Excitations on a Squeezed Vacuum State," *Physics Letters A*, vol. 165, no. 1, May 4, 1992, pp 14-18, 8 refs. (FF June 1992)

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1439. H. Zuchner and T. Rauf (Inst. for Physical Chem., U. Munster), "Electrochemical Isotherm Measurements on the Pd-H and PdAg-H Systems," *J. of Less-Common Metals*, Aug 30, 1991, vol. 172-174, pp 816-823, 7 figs, 7 refs. (FF Dec. 1991)
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A2. Books and Proceedings

1441. Harald Bottger and Valerij V. Bryksin, Hopping Conduction in Solids, Academic-Verlag, Berlin, 1985. This book cites hundreds of references in the treatment of electrons and charged particle movement in solids. (FF Nov. 1989) (FF Feb. 1990)
1442. Highlights of Papers Presented at the Workshop on Cold Fusion Phenomena, published by Los Alamos National Laboratory, Santa Fe, New Mexico, May 23-25, 1989. This 26-page document is available from the National Technical Information Service, U. S. Department of Commerce, 5285 Port Royal Rd., Springfield, VA 22161. (FF Sep. 1989)
1443. John R. Huizenga, COLD FUSION, The Scientific Fiasco of the Century, University of Rochester Press, c 1992.
1444. P.K. Iyengar and M. Srinivasan, Editors, " BARC Studies in Cold Fusion (April-Sep. 1989)," published by Govt. of India, Atomic Energy Commission, Bhabha Atomic Research Centre, Trombay, Bombay, India, BARC-1500, 1 Dec. 1989, 20 articles. (FF Feb. 1990)
1445. Eugene Mallove, FIRE FROM ICE, Searching for the Truth Behind the Cold Fusion Furor, John Wiley and Sons, Inc., c 1991.
1446. David Peat, COLD FUSION, The Making of a Scientific Controversy, Contemporary Books (Chicago) and Beaverbooks (Ontario, Canada), c 1989. [First book on cold fusion.] (FF Jan. 1990)
1447. Proceedings of the Fifth International Conference on Emerging Nuclear Energy Systems, Karlsruhe, Federal Republic of Germany, July 3-6, 1989, published by the World Scientific Publishing Company, Farrer Road, P. O. Box 128, Singapore 9128. (FF Mar. 1990)

A3. ELECTROCHEMICAL SOCIETY MEETING IN HOLLYWOOD, FL.

(Organizing chairperson, L.R. Faulkner). The following papers were presented Oct. 19-20, 1989:

1448. J.N. Harb, W.G. Pitt, D.N. Bennion, E.P. Palmer, J.B. Zirr, G.L. Jensen, and S.E. Jones (BYU), "Observation of Neutrons from Cold Nuclear Fusion."
1449. M.A. Butler, D.S. Ginley, J.E. Schirber, and R.I. Ewing, "Attempts to Observe Cold Fusion in Pressure and Electrochemical Experiments."
1450. A. Jorne and J. Toke (U. of Rochester), "Search for Cold Fusion of Deuterium in Palladium."
1451. Alqasmi, K. Albertsen, H.G. Chotka, and H.J. Schaller, "Neutrons and Tritium from Cold Fusion in Pd-D."

1452. A.J. Appleby, Y.J. Kim, O.J. Murphy, and S. Srinivasan (Texas A&M), "Anomalous Heat Production on Electrolyzing Heavy Water Solutions of Lithium Deuterioxide with Palladium Cathodes."
1453. Adzic, D. Gervasio, I. Bae, B. Cahan, and E. Yeagar (Case Western), "Investigation of Phenomena Related to D(2)O Electrolysis at a Palladium Cathode."
1454. Landau, W.M. Lynes, D. Roha, R. Saini, and S. Rochel-Landau (Case Western), "Experiments in Search of Electrochemically Induced Cold Fusion."
1455. Darcy, D. Young, G. Badhwar, and A. Konradi, "Search for Evidence of Cold Fusion by Radiation Detection and Calorimetry."
1456. S. Gottesfeld, R.E. Anderson, D.A. Baker, C.R. Derouin, F.H. Garzon, C.A. Goulding, M.W. Johnson, E.M. Leonard, T.E. Springer, and T. Zawodzinski, "Experiments in Search of Nuclear Reactions and Excess Heat in Metal Deuterides."
1457. R.A. Oriani, J.C. Nelson, S.K. Lee, and J.H. Broadhurst, "Calorimetric Measurements of Anomalous Power Produced by Cathodic Charging of Deuterium into Palladium."
1458. J. McBreen (Brookhaven Nat'l Lab.), "Electrolysis of LiOD in a Sealed Cell."
1459. W.A. Adams, E.E. Criddle, V.S. Donepudi, B.E. Conway, G. Jerkiewicz, J. Herbert, C.L. Gardner, and F. Szabo, "Exploratory Experiments Concerning Anomalous Thermal Effects in the Palladium-deuterium System."
1460. J.W. Fleming, H.H. Law, P.K. Gallagher, J. Sapjeta, D. Loiacano, and W.F. Marohn, "Effect of Microstructure on the Incorporation of Deuterium into Palladium."
1461. H.H. Law, P.K. Gallagher, J. Sapjeta, and R. Stoffers, "Diffusion of Deuterium in Palladium."
1462. Ross and H. Sokol, "In Situ Measurements of the H(D) Thermodynamic Activity and Stoichiometry in Pd during Electrolysis."
1463. Y.E. Kim (Purdue), "Neutron-induced Chain-reaction Processes for Electrolysis with Metal Deuterides."
1464. R.T. Bush, and R.D. Eagleton (Cal Poly, Pomona), "A Loose Deuteron Cluster Model for Cold Nuclear Fusion."
1465. S. Crouch-Baker, T.M. Gur, G. Lucier, M Schreiber, and R.A. Huggins (Stanford), "Comparison of Thermal Measurements on Two Fast Mixed-conductor Systems: Deuterium and Hydrogen in Palladium."
1466. J.W. Fleming, H.H. Law, J. Sapjeta, P.K. Gallagher, and W. Marohn, "Calorimetric Studies of Electrochemical Incorporation of Hydrogen Isotopes into Palladium."
1467. M.C.H. McKubre, S.I. Smedley, F.L. Tanzella, and R.D. Weaver, "Calorimetric and Kinetic Observation of D(2)-Pressurized LiOD/D(2)O/Pd Cells."
1468. T.R. Jow, E. Plichta, C. Walker, S. Slane, and S. Gilman, "Investigation of 'Electrochemically Induced Nuclear Fusion of Deuterium'--Heat Measurements."

1469. M.H. Miles, K.H. Park, and D.E. Stilwell, "An Electrochemical Calorimetric Search for Evidence of Cold Fusion."
1470. A. Redey, K.M. Myles, D. Dees, M. Krumpelt, and D.R. Vissers, "Electrochemical and Calorimetric Investigations of the Pd-D System."
1471. V.C. Noninski, and C.I. Noninski (LEPGER, Bulgaria), "Energy Effects during the Electrolysis of D(2)O with Pd and Pt Electrodes."
1472. Huang, Q.H. Gao, B.Y. Liaw, and B.E. Liebert, "A Flow Calorimeter Used in Duplication of 'Cold Fusion'."
1473. R.T Bush, R.D. Eagleton, and J.F. Stephenson, "Cold Nuclear Fusion Research at Cal Poly Pomona: Some Preliminary Data."

====End of listed papers for Florida Conference.