

The Alsos Digital Library for Nuclear Issues

Elizabeth R. Blackmer

Frank A. Settle

Thomas P. Whaley

Washington and Lee University

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- Provide reliable information in a useful format for the targeted audience(s)
- Facilitate the location of information to meet specific user needs.

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The Alsos Digital Library for Nuclear Issues provides a broad, balanced range of annotated references for the study of nuclear issues. This searchable collection includes books, articles, films, CD-ROMs, and websites. All annotations have been reviewed by members of the library's prestigious [National Advisory Board](#).

Beginning with the Manhattan Project, the massive scientific and technological effort that produced the first atomic bombs, nuclear issues have had a profound effect on every aspect of society. Those issues have influenced the evolution of science and technology, domestic politics and international relations in many countries, as well as the arts and humanities.

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DATABASE

Nuclear Stockpile

Whether you're investigating the potential for nuclear terrorism or probing early research on radioactivity, check out the Alsos Digital Library for Nuclear Issues at Washington and Lee University in Lexington, Virginia. The site's name comes from an American World War II mission to gather information about Germany's atomic bomb program. Its centerpiece is an annotated bibliography of nuclear-themed books, memoirs, reports, TV programs, films, and Web sites. Entries plumb current and historical issues such as the decision to drop atomic bombs on Japan, the perils of nuclear proliferation, and atomic accidents. The scientific section offers background on subjects such as the mechanics of fission and fusion and the effects of radiation on humans. You can also dig into a trove of biographical sources on scientists such as Henri Becquerel, the discoverer of radioactivity, and J. Robert Oppenheimer, the top scientist on the Manhattan Project.

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Science Highlights Alsos Digital Library for Nuclear Issues, July 2002

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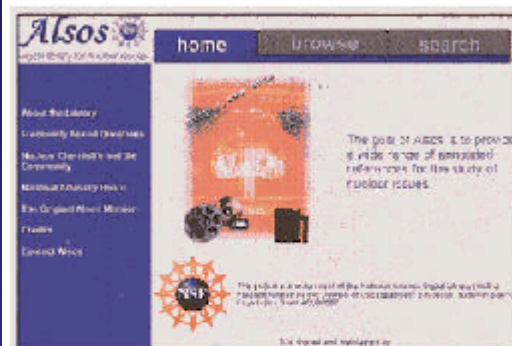
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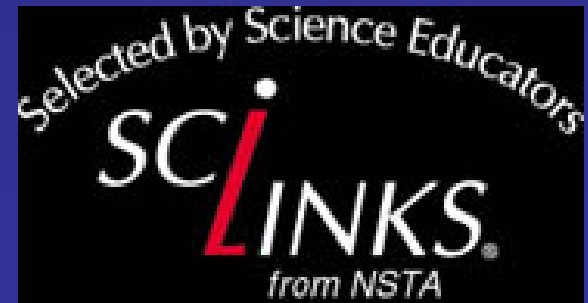


rate and comprehensive information on the origins, applications, and consequences of nuclear energy. This online library, which currently consists of 480 annotations of books, articles, videos, CD-ROMs, and websites, provides references for a variety of disciplines from physics to literature. By the end of 2002, the library will contain more than 1,000 vetted, indexed annotations from diverse sources dealing with nuclear energy. <http://alsos.wlu.edu>

Digital Briefs is written by Janet Dodd, who can be reached at j_dodd@acs.org.

More Publicity

- *Center for History of Physics Newsletter*
- *Journal of Chemical Education*
- *Computers and Libraries*
- *The Journal of Military History*
- *Sci-Tech Library Newsletter*
- **Alsos Selected by National Science Teachers Association for SciLinks database**



Availability

- The library is widely available through search engines, including *Google, altavista, Excite, Lycos, Ask Jeeves, Dogpile, Overture, and About.*
- The Alsos Library appears as a link on over 200 websites including *Atomic Archives, American Institute of Physics, ChemCases, Carnegie Endowment for International Peace, World Nuclear Association: Energy for Sustainable Development, Council for a Livable World, and RadWaste.*



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University of Massachusetts
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Dr. Lawrence Badash
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University of California
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Virginia Military Institute
Lexington, VA 24450

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Editor, Marshall Papers Project
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P.O. Drawer 1600
Lexington, VA 24450

Mr. Roy Gephart
Manager
Environmental Science Programs
Pacific Northwest Laboratory
902 Battelle Blvd.
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Hanford, WA 99352

Mr. Christopher W. Griffith
AJ Software & Multimedia
10733 Escobar Dr.
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Department of English
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Associated Organization Arms Control Association
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Date Published 2002
Date Accessed 07/26/2001

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- Media Advisory: Former Intelligence Officials, Arms Control Experts Say Bush Administration Misrepresented and Hyped Iraqi Threat **July 11, 2003 - New!**
- ACA Press Conference with Greg Thielmann on Reassessing the Bush Administration's Prewar Assessments **July 9, 2003 - New!**
- Bush Administration Statements on Iraq's Prohibited Weapons **New!**
- Interview with Hans Blix **New!**
- Interview with ACA Director Daryl Kimball on exaggerated claims of Iraqi WMD **June 4**
- Focus: The Case of Iraq's "Missing" Weapons **June 2003**
- Remaining Tasks for IAEA and UNMOVIC **April 2003**
- A Chronology of UN Inspections in Iraq and an Assessment of Their Accomplishments **October 2002**

NORTH KOREA

- The North Korean Crisis: What's Next? **ACA Press Conference, May 7**
- Special Issue of *ACT*
- Chronology of U.S.-North Korean Nuclear


THIS MONTH'S ARMS CONTROL TODAY

July/August 2003 Issue

Feature Articles

- ▶ **Rumsfeld Reprise? The Missile Report That Foretold the Iraq Intelligence Controversy**
Greg Thielmann

Looking around in the summer of 2003, five years after the Rumsfeld Commission completed its report, one sees a very different world than the one predicted. There have been no ICBM flight tests by any of the newer ballistic missile-equipped nations. As of this writing, North Korea has still not flight-tested its Taepo Dong-2 intermediate-range ballistic missile (IRBM)/ICBM, an event which the 1999 NIE predicted would probably take place that same year. In fact, none of the ballistic missiles flight-tested by the proliferant states have so far reached the 3,000-kilometer-range floor of the intermediate-range ballistic missile category. The total number of long-range ballistic missiles in the world, meanwhile, has fallen to roughly



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Publisher	Priority Press
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Annotation	This biography reviews the life and science of atomic physicist Ernest Rutherford. The author covers Rutherford's childhood, college experiences, and family life. He devotes most of the book to Rutherford's scientific work and major achievements, such as his discovery of the nucleus and first deliberate transmutation of an element. An introductory chapter explains the methods and work of physical scientists to put Rutherford's life in context. Throughout the book, the author draws on and occasionally quotes from Rutherford's numerous papers and letters.
<hr/>	
Creator(s)	Aston, F.W.
Title	Isotope and Atomic Weights
URL	http://dbhs.wvusd.k12.ca.us/Chem-History/Aston-MassSpec.html
Date	1996
Media Type	Website
Annotation	This webpage contains a short, seminal article, originally published in <i>Nature</i> in 1920, by nuclear physicist F.W. Aston on the determination of atomic masses using a mass spectrometer. Those measurements validated Frederick Soddy's theory of isotopes. Aston briefly reviews the development of atomic theory beginning with John Dalton in 1801. He quotes from earlier scientists and describes the work of Ernest Rutherford, Frederick Soddy, and J.J. Thomson and the gradual development of the isotope theory. Lastly, he describes how atomic masses are measured in a mass spectrometer using positive ions and how these measurements indicate the presence of isotopes.



Creating a Link to a Search



The screenshot shows the Alsos Digital Library for Nuclear Issues website. The main header features the logo "Alsos" in a large, blue, cursive font, followed by "DIGITAL LIBRARY FOR NUCLEAR ISSUES" in a smaller, blue, sans-serif font. Below the header, there is a navigation breadcrumb: "Home > People > Bohr, Niels, results 1-10 of 88".

The search results are displayed in a table with three columns: "Creator", "Title", and "Media". Each row represents a search result, and there are checkboxes for "select all" and "clear all" in the "Media" column. The results include:

Creator	Title	Media	select all / clear all
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Ackland, Len / McGuire, Steven, Eds.	Assessing the Nuclear Age: Selections from the Bulletin of the Atomic Scientists	book	<input type="checkbox"/>
Andrade, E. N. da C.	Rutherford and the Nature of the Atom	book	<input type="checkbox"/>
Atkins, Stephen	Historical Encyclopedia of Atomic Energy	book	added
Bernstein, Barton J., Ed.	The Atomic Bomb: The Critical Issues	book	<input type="checkbox"/>
Beyerchen, Alan D.	Scientists Under Hitler: Politics and the Physics Community in the Third Reich	book	<input type="checkbox"/>
Bickel, Lennard	The Deadly Element: The Story of Uranium	book	<input type="checkbox"/>
Bohr, Niels	Atomic Physics and Human Knowledge	book	<input type="checkbox"/>
Bohr, Niels	Disintegration of Heavy Nuclei	article	<input type="checkbox"/>
Bohr, Niels / Wheeler, John Archibald	The Mechanism of Nuclear Fission	article	<input type="checkbox"/>

Below the table, there is a link to the search results page: "Link to this page: <http://alsos.wlu.edu/link.asp?People=Bohr,%20Niels> What's this?". To the right of this link is a button labeled "Add selected references to My Bibliography" with a plus sign icon.

At the bottom of the page, there is a navigation bar with "Results page 1 2 3 4 5 6 7 8 9" and a "Search within Results" button. There are also left and right arrow icons for navigation.

On the left side of the page, there is a "Search" section with a search box, "Search by" dropdown (set to "Keyword"), "Media" dropdown (set to "All"), "Display" dropdown (set to "10 results"), and a "Search" button. Below the search box are links for "Advanced Search" and "Search within Results".

Below the search section is a "Browse" section with links for "Issues", "Science", "Disciplines", "Warfare", "Places", and "People", each with a brief description of the category.

At the bottom left, there are links for "Help", "Contact", "Home", and "View My Bibliography".

Link to this page: <http://alsos.wlu.edu/link.asp?People=Bohr,%20Niels>

Linking to Alsos



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Niels Bohr (1885-1962)

Niels Bohr was born in Copenhagen on October 7, 1885, and earned his doctorate in Physics at the University of Copenhagen in 1911. In the autumn of 1911 he began working under J. J. Thomson at [Cavendish Labroartory](#). There he began to work on the problem of the atom's structure. He was able to merge the Rutherford model of the atom with the new idea of quanta that had been put forth by Max Planck. This new model of the atom came to be known as the Bohr model, and won the 1922 [Nobel Prize in Physics](#).

After Hitler took power in Germany, Bohr was deeply concerned for his colleagues there, and offered a place for many escaping Jewish scientists to live and work. In 1939 Bohr visited the United States with the news that German scientists were working on splitting the atom. Shortly after Bohr's return home, the German army occupied Denmark. Three years later Bohr's family fled to Sweden in a fishing boat. They ultimately went to the United States, where he joined the atomic bomb effort at Los Alamos. Bohr had qualms about the consequences of the bomb.

After the war, Bohr spent the rest of his years in Denmark where he began work on the development of peaceful uses for atomic energy. In 1955 he organized the first Atoms for Peace Conference in Geneva, Switzerland. He died on November 18, 1962 in Copenhagen.

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Niels Bohr

Related Reading




Niels Bohr's Times
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Author / Editor Segrè, Emilio

Title **Enrico Fermi: Physicist**


Publisher University of Chicago Press


City Chicago


Date Published 1970

ISBN 0-226-74473-6

This biography presents Enrico Fermi, one of the greatest physicists of the 20th century. Fermi helped make possible the first controlled nuclear chain reaction, and became a leading mind behind the Manhattan Project. The biography, by his friend and protégé Emilio Segrè, presents a well-rounded portrait of the scientist, his methods, intellect, and contributions to scientific history. Using non-technical terms, the author explains the problems Fermi faced and overcame and his great achievements in the arena of atomic energy. The appendices contain letters and papers by and about Fermi and his accomplishments.


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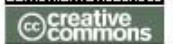
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- Annotation (students under direction of Dr. Blackmer)
- Indexing (Dr. Settle)
- Initial editorial review (Dr. Blackmer)
- External review (appropriate board member)
- Final edit (Dr. Blackmer)
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