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# ***THE CUTTING EDGE***

Chuck Hansen, Editor

## **Number 3, January 1998**

This is the third issue of the *Cutting Edge*, a periodic newsletter and "intelligence report" for current and prospective customers of *The Swords of Armageddon*. Our intention is to keep you advised via thumbnail reviews of recent and little-known publications, document collections, research sources, and videotapes concerning Cold War topics, primarily nuclear weapons and weapons testing-related subjects (other Cold War subjects are also included).

### **RECENT PUBLICATIONS OF INTEREST**

As we mentioned in Issue Number 1, a good source for several of the following books is an on-line Internet bookstore named Amazon.com at <http://www.amazon.com>. Do not -- repeat, *do not* -- contact Chukelea Publications for copies of items mentioned in this newsletter. We sell only *The Swords of Armageddon*.

Albright, Joseph and Marcia Kunstel. 1997. ***Bombshell: The Secret Story of America's Unknown Atomic Spy Conspiracy***. Times Books, New York. 399 p. ISBN 0-8129-2861-X.

The story of Theodore Hall, an American who spied at Los Alamos for the Soviets during World War II. Hall's treason was absent from Richard Rhodes' ***Dark Sun: The Making of the Hydrogen Bomb*** (Simon & Schuster, New York, 1995) and there is reason to believe, based on the so-called Venona intelligence intercepts, that there were more Soviet agents at Los Alamos, Hanford, Oak Ridge, and Chicago both during and after World War II. Hall's information to his Soviet handlers independently corroborated that of Klaus Fuchs; neither Hall nor Fuchs was aware of the other's clandestine activities. An excerpt of this book appears in the January-February 1998 issue of *The Bulletin of the Atomic Scientists*.

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Albright, David, Frans Berkhout and William Walker. **Plutonium and Highly Enriched Uranium 1996: World Inventories, Capabilities, and Policies**. Stockholm International Peace Research Institute/Oxford University Press. 502 p. ISBN 0-19-828009-2.

This book is a major revision and extension of a 1992 volume by the same title, and details in great depth the amounts of fissionable materials in the weapons and civil power production programs of both nuclear and non-nuclear weapons states, the latter focusing on the so-called "threshold" nuclear states.

Bissell, Richard M. Jr., with Jonathan E. Lewis and Francis T. Pudlo. 1996. **Reflections of a Cold Warrior from Yalta to the Bay of Pigs**. Yale University Press, New Haven, Connecticut. 268 p. ISBN 0-300-06430-6.

Richard Bissell was one of the most influential and prominent "spooks" at the Central Intelligence Agency during the 1950s; he was involved in some of the most successful and infamous operations of that agency, including the U-2 overflight program.

Bivens, Arthur Clark. 1996. **Of Nukes and Nose Cones: A Submarine Story**. Gateway Press, Inc., Baltimore, Maryland. ISBN 0-9655171-0-1.

The title of this work derives from the author's service in U.S. Navy ballistic missile submarines. Bivens gives a colorful account of his tutelage under the late Rear Admiral Hyman Rickover, USN.

Burleson, Clyde W. 1997. **The Jennifer Project**. Texas A & M University Press, College Station, Texas. 183 p. ISBN 0-89096-794-6 (cloth), 0-89096-764-4 (paper).

This is an update of a title first published in 1977 by Prentice-Hall, not long after Project Jennifer was revealed to the world. It was one of two published Jennifer accounts then available; one stated that nothing of value was recovered, and the other claimed that substantial portions of a Soviet *Golf*-class submarine were recovered and examined. Burleson adheres to the latter story, and provides many details of how useful one of the deepest sea fishing expeditions finally was.

Carothers, James, et. al. 1995. **Caging the Dragon: The Containment of Nuclear Explosions**. U.S. Department of Energy/Defense Nuclear Agency, Washington, D.C. 726 p. Paper. Report DOE/NV-388/DNA TR-95-74. Available from Bechtel Nevada CIC, P. O. Box 98521, Las Vegas, Nevada, 89193-8521; (702) 295-0748.

Abstract: "The science of the containment of U.S. underground tests is documented through a series of interviews of leading

scientists and engineers." The book was compiled by the Lawrence Livermore National Laboratory.

Chang, Iris. 1995. ***Thread of the Silkworm***. Basic Books, New York. 329 p. ISBN 0-465-08716-7 (cloth), 0-465-00678-7 (paper).

Both the modern Chinese nuclear weapons and ballistic missile programs trace their origins to the United States, when Chinese science and engineering students were summarily deported during the McCarthy era, no doubt ending whatever loyalty they may have felt for the U.S. Chang's book tells the story of Tsien Hsue-shen, a brilliant and enigmatic Chinese-born scientist who helped pioneer both the U.S. and Chinese missile programs.

Cockburn, Andrew and Leslie. 1997. ***One Point Safe***. Anchor Books/Doubleday, New York. 288 p. ISBN 0-0-385-48560-3.

While this alarming and sensationalist book is subtitled "A True Story," at least one story -- an alleged 1977 raid on a U.S. nuclear weapons storage site in West Germany by the terrorist Baader-Meinhof gang -- is in dispute. Untended or carelessly guarded nuclear materials are a real threat, but the subject deserves a more sober treatment than the Cockburns present.

Richard Wayne Dyke has written a pair of biographies of the late Chet Holifield, a 16-term California congressman who served on and later chaired the Joint Committee on Atomic Energy. The earlier title -- Dyke's doctoral thesis -- is ***Mr. Atomic Energy: Congressman Chet Holifield and Atomic Energy Affairs, 1945 -1974*** (Greenwood Press, New York, 1989, 452 p., ISBN 0-313-26244-6) and the later title is ***Chet Holifield, Master Legislator & Nuclear Statesman*** (University Press of America, Lanham, Maryland, 361 p., ISBN 0-7618-0171-5; Dyke's co-author on this volume is Francis X. Gannon).

Fursenko, Aleksandr and Timothy Naftali. 1997. ***One Hell of a Gamble: Khrushchev, Castro, and Kennedy, 1958-1964***. W. W. Norton & Company, New York. 420 p. ISBN 0-393-04070-4.

This is the latest book about the Cuban Missile Crisis of October 1962, and it benefits from much earlier work, recently declassified U.S. and Russian primary sources, and some recent U.S.- Russia conferences on the subject. Perhaps the best aspect of this book is its lengthy history of events from Castro's rise to power to Kennedy's assassination and Khrushchev's ouster from power.

Gordon, Yefim and Vladimir Rigmant. 1997. ***Tupelov Tu-95/-142 "Bear"***. Aerofax/Midland Publishing Ltd., Leicester, England. 128 p. Paper. ISBN 1-85780-046-X.

A comprehensive and exceedingly well illustrated history of the development and deployment of the former Soviet Union's

counterpart to the U.S. Boeing B-52. The "Bear" was the world's fastest four-engine propellor driven bomber, capable of carrying nuclear weapons weighing up to 40,000 lbs. Highly recommended.

Holl, Jack M., Richard G. Hewlett, and Ruth R. Harris. 1997. **Argonne National Laboratory, 1946-96**. University of Illinois Press, Champaign, Illinois. 656 p. ISBN 0-2520-2341-1.

The Argonne National Laboratory was a quintessential product of the Cold War -- from the atomic bomb to the energy crisis. This book traces Argonne's constant concern with reactors, basic research, and its relationship with the midwestern science community and a constant search for identity and mission as public and political priorities shifted. Holl and Hewlett are former Atomic Energy Commission/Department of Energy historians; Ms. Harris writes for History Associates, Inc., a DOE subcontractor.

Huchthausen, Peter, and Igor Kurdin and R. Alan White. 1997. **Hostile Waters**. St. Martin's Press, New York. 303 p. ISBN 0-312-16928-0.

Since the end of the Cold War, a plethora of books and articles have appeared concerning heretofore unspoken subjects, including the problems of the Soviet submarine fleet, one of which is detailed in this book. The loss of the Yankee-class ballistic missile submarine K-219 off Bermuda in 1986 is described in great detail; however, American participation or culpability in the incident is still in dispute: see the review of this title in the October 1997 issue of the Naval Institute *Proceedings* and a rebuttal letter in the November 1997 issue of the *Proceedings*.

Kuhns, Woodrow. 1997. **Assessing the Soviet Threat: The Early Cold War Years**. 466 p. Paper. Center for the Study of Intelligence, Central Intelligence Agency, Washington, D.C.

Before the appearance of the Tu-4 (the carbon-copy B-29), the MiG-15, and the Soviet atomic bomb, the Russians and their satellite nations were widely believed to be little more than uneducated peasants incapable of military competition in the postwar world. After the Korean War and until the dissolution of the Soviet Union in 1991, the U.S. defense establishment unflinchingly characterized the Soviets as ten-foot tall supermen capable of almost any technological feat. This compilation of early CIA estimates and reports between 1946 and 1950 show both the best and worst U.S. judgments concerning the implacable ideological foe. The CSI Web page is at <http://www.odci.gov/csi>.

Laming, Tim. 1997. **V-Bombers: Vulcan, Victor, and Valiant - Britain's Nuclear Deterrent**. Patrick Stephens Limited, Sparkford, Near Yeovil, Somerset, England. 200 p. ISBN 1-85260-529-4.

This is a very brief history of British nuclear weapons development, and a longer history of the Royal Air Force V-bomber triad. (This title, *V-Bombers*, was previously used for a 1981 volume by Robert Jackson published by Ian Allan Ltd.)

Maydew, Randall C. 1997. ***America's Lost H-Bomb, Palomares, Spain, 1966***. Sunflower University Press, 1531 Yuma, P. O. Box 1009, Manhattan, Kansas 66505-1009. 160 p. Paper. ISBN 0-89745-214-3.

This is the first popular book-length account of the Palomares incident since Flora Lewis' ***One of Our H-Bombs Is Missing*** (McGraw-Hill, New York, 1967) and Tad Szulc's ***The Bombs of Palomares*** (Viking Press, New York, 1967). Maydew, an Air Force veteran and former Chief of Aerodynamics at Sandia Corporation, was a key participant in the Palomares bomb recovery project, and his book corrects many errors found in the earlier accounts of this accident.

Miller, Jay, 1997. ***Convair B-58 Hustler***. Aerofax/Midland Publishing Ltd., Leicester, England. 152 p. Paper. ISBN 1-85780-058-3.

This is an expanded reprint of Miller's 1985 book of the same title. New material comprises 16 pages of design studies and aircraft modifications, most of which were never completed. Miller has also located several more photos of individual B-58s which were missing from the first edition; the new edition now includes photos of all but eight of the B-58s built by ConVAir. Highly recommended.

Murphy, David E. with Sergei A. Kondrashev and George Bailey. 1997. ***Battleground Berlin: CIA vs KGB in the Cold War***. Yale University Press, New Haven, Connecticut. 530 p. ISBN 0-300-07233-3.

Although the CIA has had more than its share of public black eyes over failed intelligence missions and extracurricular activities, it has also had its successes, a few of which are described in this lengthy account of the East-West espionage battle in Berlin between 1945 and 1961.

Nash, Philip. 1997. ***The Other Missiles of October: Eisenhower, Kennedy, and the JUPITERS, 1957-1963***. University of North Carolina Press, Chapel Hill, North Carolina. 231 p. Paper. ISBN 0-8078-4647-3.

Nash describes the deployment of JUPITER IRBMs to Europe during the late 1950s and their subsequent withdrawal during the early 1960s as a consequence of the Cuban Missile Crisis; removal of the U.S. missiles was a part of the settlement with Soviet Premier Nikita Khrushchev.

Office of the Secretary of Defense. April 1996. **Proliferation: Threat and Response**. Paper. 80 p. ISBN 0-16-048591-6.

This is a DOD overview of the current threat of nuclear, chemical, and biological weapons posed by a number of second- and third-

world countries. Available from the Superintendent of Documents, U.S. Government Printing Office, Mail Stop SSOP, Washington, D.C. 20402-9328.

Paine, Christopher E. and Matthew G. McKinzie. August 1997. **End Run: The U.S. Government's Plan for Designing Nuclear Weapons and Simulating Nuclear Explosions under the Comprehensive Test Ban Treaty - An Interim Report on the Department of Energy Stockpile Stewardship & Management program**. NRDC Nuclear Program, Natural Resources Defense Council, Inc., 1200 New York Ave. NW, Ste. 400, Washington, D.C. 20005; e-mail nrdcnuclear@igc.apc.org; (202) 289-6868; fax (202) 289-1060.

This 73-page report earned a front-page story on the August 18, 1997 issue of *The New York Times* and details how DOE plans to develop new nuclear weapons under the terms of the CTBT. The alleged need for such weapons was spelled out in an article entitled "Targets of Opportunity" by Hans Kristensen in the September/October 1997 issue of **The Bulletin of the Atomic Scientists** and in an article entitled "The Threats Go Deep" in the October 1997 issue of **AIR FORCE Magazine**.

Paterson, Robert H. 1997. **Britain's Strategic Deterrence: From Before the V-Bomber to Beyond Trident**. Frank Cass & Co., Ltd., London, England. 194 p. Paper. ISBN 0-71464297-5.

This is a comprehensive overview of Britain's development of a nuclear striking force, centering on nuclear ballistic missile submarines, and examining future options for maintaining a credible deterrent force.

Peebles, Curtis. 1997. **The CORONA Project: America's First Spy Satellite**. Naval Institute Press, Annapolis, Maryland. 351 p. ISBN 1-55750-688-4.

Yet another CORONA history, drawn mainly from secondary sources and previously-published primary sources. The forthcoming Smithsonian title on the same subject promises to be much more comprehensive and authoritative.

The new Sandia National Laboratories' general history, **Sandia National Laboratories: A History of Exceptional Service in the National Interest**, is now available from the National Atomic Museum Store, P. O. Box 5800 MS 1490, Albuquerque, NM 87185-1490. This 422-page paperback, exceptionally well-illustrated and annotated softbound volume includes some of the information from

**Sandia National Laboratories: The Postwar Decade** (Necah Stuart Furman, University of New Mexico Press, Albuquerque, New Mexico, 1990) but goes far beyond the Furman history in documenting Sandia weapons development and scientific research activities after 1955. This book is a real bargain for its price.

Shaw, Frederick J. Jr. and Timothy Warnock. 1997. **The Cold War and Beyond: Chronology of the United States Air Force, 1947-1997.** Air Force History and Museums Program and Air University Press. 163 p. Paper. Available from the U.S. Government Printing Office, Mail Stop SSOP, Washington, D.C. 20402-9328.

This is a brief overview of significant military, political, human, and technological events and developments during the first 50 years of the United States Air Force.

Shroyer, Jo Ann. 1997. **The Secret Mesa: Inside Los Alamos National Laboratory.** John Wiley & Sons, New York, 230 p. ISBN 0-471-04063-0.

This volume is concerned mainly with various aspects of life -- both mundane and technical -- at modern-day Los Alamos, told mainly by interviews with present and former residents of "The Hill."

Sigal, Leon V. 1998. **Disarming Strangers: Nuclear Diplomacy with North Korea.** Princeton University Press, Princeton, New Jersey. 321 p. ISBN 0-691-05797-4.

The Korean Peninsula remains one of the last Cold War flashpoints, and this chilling account of how the U.S. planned in 1994 to destroy North Korea's fledgling nuclear weapons program shows how wide the diplomatic and communications gulf remains between America and the schizophrenic North Korea government. An article by Sigal based on his book appears in the January-February 1998 issue of *The Bulletin of the Atomic Scientists*.

Turner Publishing Company. 1997. **America's Shield: the Story of the Strategic Air Command and Its People.** Turner Publishing Company, Paducah, Kentucky. 256 p. ISBN 1-56311-265-S.

Turner Publishing is the world's largest publisher of military veterans association histories, having published more than 350 titles for Army, Navy, Air Force, Marine, and Coast Guard groups. This volume, written by members of the Society of the Strategic Air Command, includes a history of SAC, personal experience stories, and mission and aircraft details. Turner's phone numbers are 1-800-788-3350 and 1-502-443-0121.

Turner, Stansfield. 1997. **Caging the Nuclear Genie: An American Challenge for Global Security.** Westview Press, Boulder, Colorado. 163 p. ISBN 0-8133-3328-8.

Former CIA director Turner makes an argument for "nuclear escrow," wherein the announced nuclear weapons states would lower the level of alert and accessibility of their respective warheads as a step toward further mutual nuclear arms reductions.

U.S. Department of Energy, Office of Declassification. July 1997. **CG-HR-2, Historical Records Declassification Guide.**

This (unclassified) declassification guide provides guidelines for reviewing and declassifying restricted data covering such topics as safeguards and security information; transportation safeguards systems; unrecovered nuclear weapons and classified components; nuclear proliferation; intelligence and cryptology; and many other subjects. Appendix A of this guide is a long list of terms which might indicate the presence of restricted data in a document; Appendix B is a reprint of the 1981 DOD list of nuclear weapons accidents (much more information about these and many other incidents appears in Appendix 3 of Volume 8 of *The Swords of Armageddon*).

Walker, J. Samuel. 1997. **Prompt and Utter Destruction: Truman and the Use of Atomic Bombs against Japan.** University of North Carolina Press, Chapel Hill, North Carolina. 142 p. Paper. ISBN 0-8078-4662-7.

As the 1995 flap at the Smithsonian National Air and Space Museum showed, the controversy over the use of nuclear weapons in 1945 is still very much alive. Walker examines the popular mythology about how the decision to use nuclear weapons was made, delineating what was known and what was not known by U.S. policymakers and the President at the time. The book also evaluates the roles of U.S.-Soviet relations and domestic politics in the decision.

Wenger, Andreas. 1997. **Living with Peril: Eisenhower, Kennedy, and Nuclear Weapons.** Rowman & Littlefield, Publishers Inc., Lanham, Maryland. 461 p. ISBN 0-8476-8514-4 (cloth), 0-8476-8515-2 (paper).

This is a largely diplomatic history of the Eisenhower and Kennedy administrations' nuclear peacekeeping between 1953 and 1963. The book concentrates on Cold War policy-making and the contrasts between contemporary perceptions of the Soviet Union and what the actual situation often was.

Westerfield, H. Bradford. 1995. **Inside CIA's Private World: Declassified Articles from the Agency's Internal Journal, 1955-1992.** Yale University Press, New Haven, Connecticut. 489 p. Paper. ISBN 0-300-07264-3.

This is a collection of articles from *Studies in Intelligence*, the CIA's classified in-house quarterly magazine. Subjects

covered by the articles include information collection and analysis, human intelligence, image intelligence, and counterespionage.

Zachary, G. Pascal. 1997. **Endless Frontier: Vannevar Bush, Engineer of the American Century**. The Free Press, New York. 518 p. ISBN 0-684-82821-9.

A new biography of Vannevar Bush, engineer, MIT professor, founder of Raytheon, an architect of the Manhattan Project and wartime director of the Office of Scientific Research and Development. The book traces Bush's life and his postwar reservations and concerns about the nuclear arms race.

#### **RECENT ARTICLES OF INTEREST**

A point of contention during the *Progressive* case in 1979 was how many uncleared foreign scientists may have seen a number of mistakenly-declassified weapons development reports in the then-public report library at the Oppenheimer Study Center at the Los Alamos National Laboratory. Now it's nearly 19 years later, and the situation may not have improved: a September 1997 General Accounting Office (GAO) report, "**DOE Needs to Improve Controls Over Foreign Visitors to Weapons Laboratories**" concluded that the Department of Energy was still not making adequate security background checks on foreign nationals visiting the lab. The report, number GAO/RCED-97-229, is available from the General Accounting Office, 441 G St. NW, Washington, D.C. 20548.

If you're not yet a *Swords* customer, and you'd like an independent opinion of our work, a good review of the CD-ROM appeared in the July-August 1997 issue of **The Bulletin of the Atomic Scientists**. The reviewer is Gerald Marsh, a physicist at the Argonne National Laboratory in Illinois.

Look! Up in the sky! It's a bird! It's a plane! It's a crash test dummy! Actually, it may be a secret U.S. Air Force project. An article entitled "CIA's Role in the Study of UFOs, 1947-90" by Gerald Haines appears in Issue No. 1 of the semiannual unclassified version of **Studies in Intelligence**, the CIA's in-house journal. This article raises the question as to how many more-recent UFO sightings have been other secret Air Force or Navy planes or rockets. This issue is available from History Staff, Center for the Study of Intelligence, Central Intelligence Agency, Washington, D.C. 20505.

With respect to the article entitled "How the B-36 'Peacemaker' Earned Its Name," by Maj. John Running Deer Eleazer, which appeared in the Spring 1997 issue of **Friends Journal**, the USAF Museum Assn. quarterly journal, and which was mentioned in issue number 2 of *The Cutting Edge*, Lt. Gen. James W. Edmunson, USAF (Ret.), former commander of the SAC bomb wing mentioned in the

article, has written that "there is hardly a word of truth in the entire paper... it sounds as though it is a fairy tale. .. The entire episode about bombing the ocean and the encounter with Russian fighters is false ... My judgment is that the story, from start to finish, is completely false." The publication of this story in the **Friends Journal** raises serious questions about the journalistic integrity of that publication.

The July 21, 1997 issue of **Aviation Week & Space Technology** contains an article by William B. Scott which may or may not vindicate all of us who have believed for all these years that the South African and Israeli governments really did conduct a joint atmospheric nuclear test in the South Atlantic in September 1979. At the time, the denials of the Carter administration that such a test had occurred were interpreted as an unwillingness of that administration to publicly come to terms with the now-defunct South African weapons program, even though U.S. and Soviet satellite photography just two years earlier had shown preparations for an underground test in the Kalahari desert (that test was not conducted after the application of international diplomatic pressure). Recently, the *AvWeek* article, which was based in part on a politically-driven Los Alamos report, has now come under fire, and many questions have been raised concerning its credibility. Execution of an actual South African test in 1979 still awaits that country's official verification.

The November 3, 1997 issue of **Aviation Week & Space Technology** contains three articles spanning ten pages which describe a little bit of the nuclear sampling history of the Air Force's Technical Applications Center at Patrick AFB, Florida.

If you have access to the Internet, an article by the physicists Yuli Khariton, V. B. Adamskii, and Yuli N. Smirnov entitled "On the Development of the Soviet Hydrogen Bomb," reprinted from **Physics-Uspekhi**, Vol. 39 Issue 2, 1996, is available in Adobe Acrobat format at [http://ufn.ioc.ac.ru/ufn96/ufn96\\_2/ufn62f.pdf](http://ufn.ioc.ac.ru/ufn96/ufn96_2/ufn62f.pdf); this file is readable with the Adobe Acrobat reader on the *Swords of Armageddon* DC-ROM. A zipped PostScript file of the same article is at [http://ufn.ioc.ac.ru/ufn96/ufn96\\_2/ufn62f.ps](http://ufn.ioc.ac.ru/ufn96/ufn96_2/ufn62f.ps). Some or all of this article may have appeared in the November 1996 issue of **Physics Today**.

As if wandering foreign scientists weren't enough of a problem, the government is still debating the sale of high-powered U.S. computers to China and Russia, where they may be used in nuclear weapons research. Articles about this topic appeared in the **Wall Street Journal** on December 28, 1997 and in **Aviation Week & Space Technology** on November 17, 1997. (The June 1997 issue of *The Cutting Edge* noted a book by *Journal* reporter John J. Fialka concerning this subject.)

The September 1997 issue of ***Air & Space***, the journal of the Smithsonian's National Air & Space Museum, contains a couple of items of interest, including an article entitled "X-1: An Inside Look" and a short article and aerial photographic map entitled "X marks the Spot" which shows where significant events have occurred at Edwards AFB since the early 1940s.

A brief article about the U.S. Navy's covert operations submarine *NR-1* appears in an article entitled "Search the Oceans" in Norman Polmar's "The U.S. Navy" column in the January 1998 issue of the ***Naval Institute Proceedings***. Complete with a partial cutaway of the sub, this is the greatest amount of historical and technical information yet made public about this unique craft, which also appears at work in the recent Public Broadcasting System Nova program entitled "TITANIC's Lost Sister," about the search for and discovery of the wreck of the RMS *Britannic* in the Aegean Sea.

The many right-wing foes of the Comprehensive Test Ban Treaty seized upon an earthquake off the island of Novaya Zemlya on August 16, 1997 in an unsuccessful attempt to revive U.S. nuclear testing. Articles about Russian denials of a nuclear test appeared in the ***Chicago Tribune*** and the ***New York Times*** on August 29; a final word on the event appears in a guest editorial entitled "Test Ban One; Opposition Zero" in the January/February 1998 issue of ***The Bulletin of the Atomic Scientists***.

#### **RECENT VIDEOS OF INTEREST**

Since the mailing of the June 1997 issue of *The Cutting Edge*, the Department of Energy has declassified and released another **18 videotapes of U.S. nuclear testing series**, including Operations TEAPOT, REDWING, HARDTACK Phase I, DOMINIC, ARGUS, WIGWAM, UPSHOT-KNOTHOLE, PLUMBBOB, NOUGAT, GNOME, and IVY FLATS. Many of these new tapes are of much better pictorial quality than the first 14 tapes released earlier. All 32 films are available for \$10 each (a real bargain) from the Bechtel Nevada CIC, P. O. Box 98521, Las Vegas, Nevada, 89193-8521; (702) 295-0748.

***Lost Bombs*** is a new 46-minute videotape concerning missing U.S. nuclear weapons. The footage is drawn from a variety of sources, and the narration is drawn chiefly from Volume 8 of *Swords*. Available from Atwood Keeney & Company, Inc., 120 Webster St., Ste. 221, Louisville, Kentucky 40206; (502) 587-8181, fax (502) 587-8183.

#### **FORTHCOMING PUBLICATIONS & DOCUMENT COLLECTIONS**

The London *Daily Telegraph* has published excerpts from a new British book, ***The Crown Jewels***, by Nigel West (a pseudonym for Rupert Allason) and ex-KGB agent Oleg Tsarev. The book describes in the greatest detail yet the activities of the so-called "Cambridge Five" -- Messrs. Blount, Burgess, Cairncross, Mclean,

and Philby -- who spied in England for the Soviets. Another heretofore unknown spy ring at Oxford University is also identified.

The Brookings Institution's **Atomic Audit: The Costs and Consequences of U.S. Nuclear Weapons Since 1940** by Stephen I. Schwartz (ed.) will be out in late April or early May of this year. This study was described in Issue No. 2 of *The Cutting Edge*.

The new CORONA spy satellite history, **Eye in the Sky: Spy Satellites and American Intelligence-Gathering during the Cold War** by Messrs. Day, et. al., is still on schedule to be published by the Smithsonian Institution Press in February 1998.

Coming in February 1998 is an operational-technical history of Canadian military deployment of U.S. nuclear weapons between December 31, 1963 and June 28, 1984, including the BOMARC, GENIE, and HONEST JOHN missiles. Entitled **Canadian Nuclear Weapons** and written by Dr. John Murray Clearwater, a graduate of the War Studies Department of King's College, London, where he studied strategic nuclear arms control, this 240 page photo-illustrated book details individual weapon systems and warheads, user squadrons or batteries, and the U.S. custodial units stationed in Canada. To order, contact Dundurn Press, 8 Market St., 2nd Fl., Toronto ON M5E 1M6 Canada.

**Peace and War: Reminiscences of a Life on the Frontier of Science**, the memoirs of the late Manhattan Engineer District scientist Robert Serber, will be published in May 1998 by Columbia University Press. The ISBN is 0-23110546-0.

Chris Drew's **Blind Man's Bluff**, the U.S.-Soviet Cold War submarine operations history, is at the publisher (Public Affairs Information Service, Inc. New York). The book may be available by the end of October 1998 or early November. Drew's co-authors are Sherry Sontag and Annette L. Drew.

A DOE report entitled **Highly Enriched Uranium: The First 50+ Years**, similar to the plutonium history released earlier, may be completed late this year. Prepared by DOE's Defense Programs Office with the assistance of the Office of Declassification, the report describes government production, acquisition, utilization, and inventories of highly enriched uranium.

#### **HOW TO PURCHASE THE SWORDS OF ARMAGEDDON**

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- Via our 24-hour, seven-day order and information telephones, 1-800-393-7137 or 1-408-286-8034.