



Werner Heisenberg playing table top tennis or ping pong at the Göttingen Institute. Gift of and Photo Credit: Juan G. Roederer; courtesy of AIP Emilio Segrè Visual Archives.

New Gallery Highlights Best of the Emilio Segrè Visual Archives

In January 2008, the Emilio Segrè Visual Archives (ESVA) launched an online gallery featuring 63 of “Our Favorite Photos.” The gallery shows some of the most popular and striking selections from our collection of 30,000 images of physicists and astronomers, revealing their human side and the environments of scientific work. The new gallery (<http://photos.aip.org/favorites.jsp>) includes historical photographs, slides, lithographs, engravings, and other visual materials of many of the best known names in physics and astronomy, including Albert Einstein, Niels Bohr, Marie Curie, Isaac Newton, Richard Feynman and Hans Bethe,

(continued on page 2)

Center Will Have New Director, Greg Good, in Newly Endowed Position

Spencer Weart is retiring as director of AIP’s Center for History of Physics, having served in this capacity since 1974. His successor was chosen after an international search by a committee of distinguished historians of modern physics and astronomy. We are very pleased to say that in January 2009, Gregory A. Good will assume directorship of the Center. Like Spencer, he will work closely with Joe Anderson, director of the Niels Bohr Library & Archives, in pursuit of their joint mission “to preserve and make known the history of physics and allied fields.”

Greg steps into an endowed position. In honor of Spencer’s 35 years of contributions to the history of science, the Avenir Foundation made a gift of three million dollars to endow the Spencer R. Weart Directorship of the Center for History of Physics. This is the largest gift ever given to AIP and establishes the first endowed position at the Institute. “With support like this from our friends,” Spencer says, “the new director will be taking the Center in exciting new directions.”

Greg is currently the chair of the Department of History at West Virginia University in Morgantown. His professional interests include the history of physics and of the earth sciences in the 19th and 20th centuries. Greg’s research, publications, and teaching have focused on the interactions of the various geosciences disciplines, shifting research programs, and the commitments (social, institutional, and political) that affect progress in geosciences. Among his published works is *The Earth, the Heavens and the Carnegie Institution of Washington* (1994). He has also served as editor of the two-volume encyclopedia *Sciences of the Earth* (1998). Greg has helped local schools write grants for science and environmental education, is a member of the International Commission on the History of Geological Sciences and is director of graduate studies in the History Department at WVU.

“There are a lot of disciplinary history centers, and I plan to work with all the ones I can, and even to work with ones that may seem counterintuitive,” said Greg. “One thing I hope to do is to have the Center function as a physical meeting place.” He also hopes to reach out to DC-area universities to coordinate programs and projects with historians of science at those universities, and also throughout the Mid-Atlantic region.

Greg received a B.S. in physics from St. Vincent College in Latrobe, PA in 1974, and a Ph.D. in history of science from the

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along with lesser-known figures. There are striking illustrations of life in science as well as teams, instruments and labs. By featuring popular and appealing images from the collection, we hope to stimulate interest in the collection and promote sales. Browse through the site and enjoy the pictures!

We also recently upgraded the photo collection's search engine (<http://photos.aip.org/veritySearch.jsp>), using Verity software, to make it more powerful and efficient. This upgrade is complemented by a new feature on the search page, a "search tips" pop-up box. The tips explain how to use the various ESVA search tools (name search, browse by name, and advanced Verity search). For instance, the **Name Search** is the best way to begin looking broadly for images of specific people and institutions. It is set up so that there is a logi-

cal "AND" between each word in your query. Likewise, you may not have previously been aware that the **Quick Search** query embedded in our header searches across the "Description," "Date," "Credit," and "Names" catalog fields. It can also search for a precise catalog number, such as *Bohr Niels AI*, if you happen to know it.

We hope these new features will alert researchers and publishers to the depth of the Emilio Segrè Visual Archives. More than 12,000 images are now online with high quality scans available for as little as \$10, and with fees for use in publication running from zero (for limited educational or personal use) to a maximum of \$75, which is considered very reasonable in the industry. We also provide prints suitable for framing at a reasonable cost.

Major Collection of Oral History Interviews Mounted on the Web Now Available Online at http://www.aip.org/history/oral_history/OHIhome.html

The Niels Bohr Library & Archives has embarked on a project to digitize and make available on the Web some 500 transcripts from its oral history collection, which is by far the world's most important set of interviews in physics, astronomy, geophysics and allied fields. The project, funded by the National Endowment for the Humanities, the Friends of the Center for History of Physics, and an endowment from the Avenir Foundation, began in June 2007 and will be completed in 2009. Currently 210 transcripts are digitized and online and more are being mounted every day. Please visit http://www.aip.org/history/oral_history/OHIhome.html to see a listing.

The oral history collection at the Niels Bohr Library & Archives is one of its most frequently used resources. The collection is particularly strong in the areas of quantum physics and philosophy, nuclear physics including weapons issues, modern astronomy and cosmology, solid state physics, laser science, modern multi-institutional collaborations in high-energy physics, space science and geophysics, industrial research, and physicists and astronomers in education, science societies and institutions. The bulk of the interviews were created by staff of the Center for History of Physics, although many more were acquired from individual scholars (especially those assisted by a Grant-in-Aid from the Center) or as copies from other archives. Many result from projects in a particular area.

For example, the Sources for History of Modern Astrophysics project conducted by the Center in the 1970s created more than 400 hours of interview with more than 100 leading astronomers and astrophysicists. The Center is also a creator and repository of the Archive for the History of Quantum Physics, a collection of interviews of nearly 100 people involved in the development of quantum mechanics between the 1890s and 1933.

The digitization of these interviews now enables full text searches across all the online interviews, or within each transcript, through AIP's own search engine and through the

major Internet search engines. This will provide a much wider dissemination of the collection and much easier access to portions of special interest. We have included short voice clips on some of the interviews so Web visitors can hear the actual voices of the scientists. Each transcript is accompanied by a portrait from our photo archives, when available. These features are meant to show the human side of science, a dimension not always easily seen by scholars and the general public.

The online versions of these transcripts, as well as information on transcripts not yet online but available at the Library or on loan, can be found by searching for either names or subjects in the library's web catalog at <http://libserv.aip.org:81/ipac20/ipac.jsp?profile=newcustom-icos&menu=search#focus>. Lists of the transcripts online, and voice clips, may be found at http://www.aip.org/history/oral_history/OHIhome.

The most time-consuming and costly part of the project is to obtain permissions to put them online: when many of the interviews were conducted, a Web entirely open to all the world was scarcely imagined, and we only sought permission to make the interviews available in the Library or as copies on loan. We continue to search for permissions for the interviews in our collection so that we can meet our goal of getting 500 online within the next year. Some of the people who gave interviews in the 60's and 70's, or their heirs, have proved to be elusive. Below is a list of people we would like to contact about our project. We would greatly appreciate any information on how to get in touch with them or their heirs. If you can help, please contact Joe Anderson, One Physics Ellipse, College Park, MD 20740, janderso@aip.org.

- Adel, Arthur*..... 1908-1994
- Allard, Georges*..... unknown
- Allen, Mildred*..... 1894-1990
- Andrade, Edward Neville da Costa* 1887-1971
- Beck, Guido* 1903-1988
- Bowen, Ira Sprague* 1898-1973

<i>Brattain, Walter</i>	1902-1987
<i>Brillouin, Leon</i>	1889-1969
<i>Brogie, Louis de</i>	1892-1987
<i>Burger, Herman Carel</i>	1893-1965
<i>Burgers, Johannes Martinus</i>	1895-1981
<i>Christman, Albert B.</i>	unknown
<i>Compton, Betty Charity McClosky</i>	1916-
<i>Cunningham, Ebenezer</i>	unknown
<i>Dennison, David Mathias</i>	1900-1976
<i>Eckart, Carl</i>	1902-1973
<i>Edelstein, Ludwig</i>	1902-1965
<i>Elasser, Walter</i>	1904-1991
<i>Epstein, Paul Sophus</i>	1883-1966
<i>Estermann, Immanuel</i>	1900-1973
<i>Feather, Norman</i>	1904-1978
<i>Fokker, Adriaan Daniel</i>	1887-
<i>Frank, Phillip</i>	1884-1966
<i>Friedrich, Walter</i>	1883-
<i>Friesen, Sten von</i>	1907-
<i>Furry, Wendel Hinkle</i>	1907-1984
<i>Gentner, Wolfgang</i>	1906-1980
<i>Gerlach, Walter</i>	1889-1979
<i>Goeppert-Mayer, Maria</i>	1906-1972
<i>Guenther, Arthur H.</i>	1931-
<i>Hertz, Gustav Ludwig</i>	1887-1975
<i>Heyworth, Dorothy</i>	1901-
<i>Holden, Alan N.</i>	1904-1985
<i>Kac, Mark</i>	1914-1984
<i>Le Pichon, Xavier</i>	unknown
<i>LeVine, Donald</i>	unknown
<i>Livingston, Milton Stanley</i>	1905-1986
<i>Moller, Christian</i>	1904-
<i>Moore, Charlotte E.</i>	1898-1990
<i>(Also known as C. E. Sitterly)</i>	
<i>Newell, Homer</i>	1915-1983
<i>Prokhorov, Aleksandr Mikhailovich</i>	1916-
<i>Rosenfeld, Leon</i>	1904-1974
<i>Sawyer, Ralph Alanson</i>	1895-1978
<i>Schultz, Betty</i>	unknown
<i>Schwarzschild, Martin</i>	1912-1997
<i>Smith, George Foster</i>	1922-
<i>Stein, Maria</i>	unknown
<i>Stern, Marvin J.</i>	1935-1974
<i>Strand, Kaj A.</i>	1907-2000
<i>Thomson, Sir George Paget</i>	1892-1975
<i>Van de Kamp, Peter</i>	1901-1995
<i>Volkov, Dmitrij V.</i>	1925-1984
<i>Webb, Harold Worthington</i>	1884-1996
<i>Weeks, Dorothy W.</i>	1893-1990
<i>White, Milton Grandison</i>	1910-1979
<i>Wilson, Lucy</i>	1888-
<i>Wright, Helen</i>	1914-1997
<i>Wright, Paul</i>	unknown

(Center Will Have New Director, continued from page 1)

University of Toronto, Canada in 1982. He is no stranger to the American Institute of Physics, its Member Societies, or the History Center. He has used the Niels Bohr Library & Archives extensively for his research and has served on its Archives Grants Committee in 2000, has chaired AIP's History Advisory Committee since 2004, and most recently, served as the Master of Ceremonies for the symposium on May 9 that honored Spencer's accomplishments (see page 22).



Greg Good will assume directorship of the History Center and step into an endowed position. Photo Credit: Hillary Schwab.

The current director, Spencer Weart, is perhaps best known for his 2003 book *The Discovery of Global Warming*, which has informed many scientific debates about the history of climate science—when we knew what we know about global climate change. Greg will continue the tradition of bringing information into the public sphere with his upcoming book on the history of the discovery of Earth's magnetic field.

Spencer received a B.A. in physics from Cornell in 1963 and a Ph.D. in physics & astrophysics from the University of Colorado in 1968. After work as a postdoc at Caltech, Mount Wilson and Palomar Observatories, he studied history of science as a graduate student at the University of California, Berkeley. He became Director of the Center for History of Physics in 1974. In his retirement Spencer plans to continue to write historical works; a new edition of his book on global warming is in press, and he has begun work on *The Rise of Nuclear Fear*, a greatly revised and updated version of his well-known 1988 work *Nuclear Fear: A History of Images*. He will also assist in the continuing development of the Center's Web exhibits.

So many science textbooks unhelpfully—and above all inaccurately—cultivate a rather static image of scientific disciplines, as if they were completed with comprehensive certainty.... is it any wonder that students can have difficulty conceiving how they might ever contribute to science?

—Craeme Gooday

AAS Working Group Acts to Preserve Astronomical Heritage

By Stephen McCluskey

Among the physical sciences, astronomy has a long tradition of constructing centers of teaching and research—in a word, observatories. The heritage of these centers survives in their physical structures and instruments; in the scientific data recorded in their observing logs, photographic plates, and instrumental records of various kinds; and more commonly in the published and unpublished records of astronomers and of the observatories at which they worked. These records have continuing value for both historical and scientific research.

In January 2007 the American Astronomical Society (AAS) formed a working group to develop and disseminate procedures, criteria, and priorities for identifying, designating, and preserving structures, instruments, and records so that they will continue to be available for astronomical and historical research, for the teaching of astronomy, and for outreach to the general public.

The scope of this charge is quite broad, encompassing astronomical structures ranging from archaeoastronomical sites to modern observatories; papers of individual astronomers, observatories and professional journals; observing records; and astronomical instruments themselves.

Reflecting this wide scope, the members of the working group include historians of astronomy, practicing astronomers and observatory directors, and specialists in astronomical instruments, archives, and archaeology.

The first item on the working group's agenda was to determine how best to maintain the records of the Society's journals. Of immediate concern are the extensive and historically important records of the *Astrophysical Journal* from the editorship of Helmut Abt (1974-99), which are presently in temporary storage in Tucson.

The working group contacted a number of major libraries, many of them actively associated with astronomical research, regarding this collection. To date there has been general agreement on the importance of this collection, but its size and the restrictions placed upon its use by the AAS have made research libraries reluctant to take on the responsibility of managing the collection.

Of immediate concern to working astronomers is the problem of preserving, cataloging, and making available the extensive historical holdings of astronomical photographic plates. Two members of the working group who have previously been active in this area, Elizabeth Griffin and Wayne Osborne, organized a workshop dealing with this issue.

As a result of this workshop the working group has recommended the development of an archive of North American photographic plates at the Pisgah Astronomical Research Institute in North Carolina. As a step toward improving access to these plates, in cooperation with the

International Astronomical Union (IAU) Task Force on the Preservation and Digitization of Photographic Plates, the working group is conducting a preliminary census of astronomical photographic plates in North America.

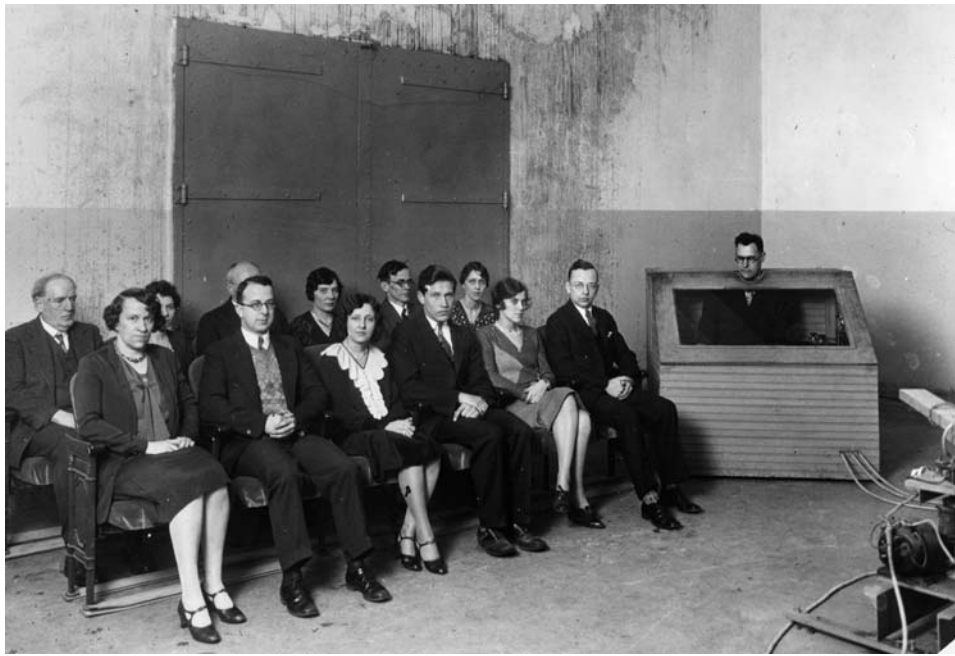
An overarching concern of the working group is to investigate the scientific and historical benefits of preserving these elements of the historical record. To meet that role we are encouraging research into the uses of historical data in astronomical research, into the uses of archival materials for historical research, and into the factors contributing to decisions to preserve nineteenth and twentieth century astronomical observatories.

The working group welcomes inquiries and can provide advice about the preservation of existing astronomical materials and records.

Further information about the working group and its members can be found on the AAS website at <http://members.aas.org/comms/wgpah.cfm>.



Robert Andrews Millikan and Greta Millikan. circa 1950. Photo courtesy of AIP Emilio Segrè Visual Archives.



MYSTERY PHOTO

This mystery photo's description is: "Vivian Leroy Chrisler is in the box." Photo courtesy of AIP Emilio Segrè Visual Archives

Can you identify who else is in the photo or explain what is going on? If so, please let us know: send e-mail to photo@aip.org; call 301-209-3184; or write to AIP History Center, One Physics Ellipse, College Park, MD 20740.

Thank you for your help!

In learning science, students need to understand that science reflects its history and is an ongoing changing enterprise.

– National Science Education Standards (National Academy of Sciences, 1996)

Posters and Poster Sessions: A History

by Françoise Waquet (CNRS, Paris)

(Dr. Waquet recently spent two weeks at the Niels Bohr Library & Archives doing research on an unusual topic, with the help of a grant-in-aid from the Friends of the Center for History of Physics.)

The poster presentation is now a common way of communicating research in scientific disciplines. Its origins are obscure. The evidence I have collected so far leads to biochemistry and to the late 60s. Initially, posters consisted of graphs, diagrams, and pictures, but did not contain text (except captions). They were “prepared cards” used to “demonstrate” the research the author was presenting. Text entered posters quite soon and the name “poster session” was already in use in 1970. Two major biochemistry conferences in America, 1974 and 1975, were instrumental in diffusing the new format to other disciplines.

Poster sessions were introduced in American physics conferences by 1975. Other names used in the beginnings—“display sessions”, “booth sessions”—suggest a certain kinship with exhibits. Short descriptions and photos published in scientific journals document the early forms of the genre at a time when physicists were not used to it (the first mention of posters and poster sessions in the instructions for submission of abstracts published in the Bulletin of the American Physical Society dates from October 1977). Comments and surveys in this initial phase show a very prompt and positive response among

scientists. They also reveal experiments in using the new format (for instance, presentation-discussion of posters in plenary sessions).

My project aims to write a history of the poster session, that is to say to reconstruct the evolution of the poster session, from the “prepared cards” used in the late 60s to the present digital posters. This diachronic perspective will serve to explore the following agenda: the spread of this format; the appropriation by scientists of a new mode of communication; the construction of a genre answering to certain intellectual needs and making use of specific material and technological inventions; the status accorded to the poster in a wider intellectual economy.

A period spent at the Center for History of Physics studying the records of several AIP Member Societies was very helpful for documenting the beginnings of poster sessions in physics, the context in which they originated, and the initial reactions of physicists to them; archives of some scientific societies provided material for detailed case studies.

Personal evidence is crucial in reconstructing the early history of poster sessions and documenting the first encounter of scientists with posters. Any suggestions and information about early poster sessions would be welcome (francoise.waquet@wanadoo.fr).

Recent Additions to the Niels Bohr Library & Archives

The Library & Archives rely almost entirely on donations. When collections are offered we try to place them in the most appropriate repository, which is usually not our own archives; even so, we continue to acquire historically valuable materials. For some we can find no better home, and we also collect copies of hard-to-find items that we can make readily available to scholars. Since the Fall 2007 report the pace of acquisitions has been steady.

Audiovisual Collections

In the Emilio Segrè Visual Archives, more than 14,000 images are now available online at <http://photos.aip.org>. That is now nearly half of the collection, following accelerated activity made possible by the hiring of a full-time summer intern. Work continues on processing the large donation we received last year from the **University of Illinois Physics Department**; so far 1,318 images from this outstanding collection have been scanned and added to ESVA.

Another set of remarkable pictures came from **Heidi Palombo** at the Department of Energy's Energy Technology Visuals Collection, who arranged for the donation of more than 100 images largely taken during the time of the Manhattan Project and Atomic Energy Commission.

We also thank the following donors for contributing images this past year: **Sidney Abrahams** (Southern Oregon University), **Douglas Allan** (Corning Inc.), **Badri Badrinarayan** (Corning Research Laboratory), **Rose Bethe**, **Roy L. Bishop**, **Louis Brus** (Columbia University), **Donald D. Clayton** (Clemson University), **Martin Harwit**, **Charles Holbrow** (Colgate University), **James N. Hollenhorst** (Agilent Technologies), **J. David Jackson** (Lawrence Berkeley National Laboratory), **John Jenkin** (La Trobe University), **L. (Rick) Kendrick** (Lockheed Martin), **Mark Kryder** (Carnegie Mellon University), **Charles Misner** (University of Maryland), **Elise Mills**, **Bill Petros**, **Julia M. Phillips** (Sandia National Laboratories), **Richard Brian Pollard** (University of Bristol), **A. Rex Rivolo**, **Juan G. Roederer** (University of Alaska Fairbanks), **Manfred R. Schroeder** (Drittes Physik. Institut), **Pat Viele** (Cornell University), **Kameshwar Wali** (Syracuse University), and **Earl Zwicker**. Responding to our requests, made of all new Nobel Laureate and AIP Member Society Presidents, Laureate **Albert Fert** (Université Paris-Sud) donated photos of himself, as did AIP Member Society Presidents **Lila M. Adair**, **Rod C. Alferness**, **Arthur Bienenstock**, **Timothy Grove**, **Marvin Hackert**, **John P. Huchra**, **Robert K. Prud'homme**, **John**

N. Russell Jr., and **Gerald A. White Jr.**

The Center for History of Physics provided advice and assistance in the production of the documentary film "*Absolute Zero*," produced by WGBH Video and based on the book *Absolute Zero and the Conquest of Cold* by **Tom Shachtman**; a copy of the video was among the items added to our audiovisual collections this year.

Other additions included **Alfred Leitner's** collection of films on low-temperature superconductivity and optics; a recording of **Richard Isaacson's** 2007 talk on the Laser Interferometer Gravitational-Wave Observatory (LIGO); a video recording and programs from the dedication ceremony of the University of Illinois at Urbana-Champaign Bardeen Quadrangle in honor of **John Bardeen**; a collection of old physics educational films from **Butler County Community College** (Butler, PA); and video interviews conducted by **George Zimmerman** with **Edward Teller** and **Wolfgang Franzen**.

Manuscript Collections

The Center for History of Physics and many other physics-related institutions and individuals regularly get letters, manuscripts and books from people who believe they have solved the mysteries of the universe, refuted Einstein, and so forth. These materials can give insight into popular beliefs about science and scientists, and we have sporadically collected items that come our way, following the principle of preserving materials of interest that others are likely to discard. This year we received two collections on crank theories in physics from individual donors, one collection from **Alex Harvey** and another from **Lawrence Badash**.

The Niels Bohr Library & Archives is the official repository for the American Institute of Physics (AIP) itself, of course, and most of the AIP member societies, and each year we receive valuable materials from them as well as from physicists, historians and other individuals. This year our archivists have begun to work closely with the staff of the American Association of Physicists in Medicine (AAPM) to start accessioning the AAPM records into the archives. Since our last report we have received many new items from our member societies, including: an addition to the American Association of Physics Teachers (AAPT) records, with materials from 1950 to 2002; records of the secretary of the AAPT Chesapeake Section; additions to the growing AVS records, including membership information and documentation of research trends of mem-

Now and then scientists are hampered by believing one of the over-simplified models of science that have been proposed by philosophers from Francis Bacon to Thomas Kuhn and Karl Popper. The best antidote to the philosophy of science is a knowledge of the history of science.

—Steven Weinberg

bers, as well as DVDs and print materials from the 50th Anniversary of AVS; and an addition to records of the secretary of the American Astronomical Society Historical Astronomy Division.

From the offices of AIP we have added interesting ephemera, including various awards and certificates, and more items for our (randomly assembled) collection of stamps, coins, and currency featuring physicists. We received a large donation from the AIP Office of the Secretary, the “office of record” for AIP, documenting the actions of AIP through the 1980s and 1990s.

We also received an addition to the **Homer L. Dodge** papers already in the archives, as well as our yearly addition to the Gravity Research Foundation essay contest records.

In addition to the manuscript collections in the archives, we will take in single items or collections of a few items in our collections of “miscellaneous physics”, manuscript biographies, and institutional histories. These collections contain a surprising amount of material that individuals have sent us over the years because they seemed just too interesting to throw away, and constitute a valuable resource for historians of science and other scholars.

Donations to these collections this year included several collections of correspondence and lecture notes: a donation from **Ted Ansbacher** of his correspondence with **Arnold Arons**; **John Jenkins**’s correspondence with **Pierre Auger**; **Arthur Knudsen**’s correspondence with **Lorene Stringer** from the 1940s; and a letter from **R.W. (Richard Wright) Henderson** to **Fen McCollum**; from **Robert H. Romer**, his notes on an **Edward Purcell** lecture at Harvard; **Kenneth S. Pitzer**’s 1949 lecture notes on quantum theory; and **George Zimmerman**’s collection of lecture notes by **Gregory Breit** and **Lars Onsager**.

As in previous years, we received many unpublished historical accounts and memoirs for our manuscript biographies and institutional histories collections. Besides the lecture notes mentioned above, **George Zimmerman** sent us his History of the Boston University Department of Physics. We also received an autobiography by **Joseph S. Levinger**; biographical materials from **Juan G. Roederer**; a personal account by **Adam G. Reiss** discussing his work in cosmology; recollections by **Thomas B. Greenslade, Jr.** of his years at Amherst and Rutgers; and “Berkeley Days: How Great Events Shaped Our Careers,” presented in honor of **Elihu Abrahams** for his 80th birthday.

Other donations to our miscellaneous physics collections include a transcript and photos of a talk by Gulf General Atomic Incorporated, titled “Fusion Research in Industry;” MIT Radiation Lab staff member address lists and placement survey from 1945 and 1946; **Fritz Rohrllich**’s collection on the Seventh Annual Conference on High Energy Nuclear Physics (1957); a National Research Council Committee on Radiation Gases report, “Molecular Spectra in Gases” (1926); **Gilbert E. Cooper**’s original script for a play titled, “The Shatterer of



Martin Harwit, in his office in the Space Sciences Building at Cornell University, circa 1982. Photo courtesy of AIP Emilio Segrè Visual Archives, Harwit Collection.

Worlds;” **Robert Kirshner**’s materials on cosmic acceleration; the 1946 newsletter from the Association of Los Alamos Scientists; and **Jean Goldberg**’s collection of physics humor.

Book Donations

The Niels Bohr Library & Archives gets more books as donations than from direct purchase, and some of the purchases themselves are supported by the sale of books that are donated but not wanted, because they duplicate items we already possess. We received many generous donations in 2008. **Frances Bernstein** gave the Library a very large donation of which we accessioned 31 books into the collection. **David C. Blewett** donated books from his library, **Robin Mower** donated books from the library of her father **Lyman Mower**, and **Helen Palmatier** sent us books from the library of **Everett Dyson Palmatier**. **Vivian Hall** made a donation of books from the library of **Thomas C. Hall**, while **Marial Poll** gave a large donation of books from her late husband **Ernest N. Poll**. We are also grateful for book donations by **David DeVorkin**, **Paul Forman**, **Dieter Hoffmann**, **Randolph A. Reeder**, **John S. Rigden**, **Morton L. Schagrin** and **Maxine Trost**

Oral History Interviews

The History Center continues to commission and receive interviews covering the biographies of particularly distinguished physicist. **Gerald Holton** sent us his taped speech given at the May 9, 2008 Symposium and Sheldon Hochheiser sent us his interview with **Joseph Giordmaine**.

William Thomas conducted an interview with **M. H. Brodsky** former Executive Director and CEO of the American Institute of Physics which is being processed now by the History staff.

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Recent Publications of Interest

Compiled by Will Thomas

This is our usual compilation of some (by no means all) recently published articles on the history of modern physics, astronomy, geophysics and allied fields. Note that these bibliographies have been posted on our Web site since 1994, and you can search the full text of all of them (along with our annual book bibliography, recent Catalog of Sources entries, exhibit materials, etc.) by using the “Search” icon on our site index: www.aip.org/history/s-index.htm

To restrict your search to the bibliographies, enter in the box: [YOUR SEARCH TERM (S)] AND “RECENT PUBLICATIONS”

Historical Studies in the Natural Sciences, Vol. 38, No. 2, presents Ionna Semendefri, “Legitimizing a Nuclear Critic: John Gofman, Radiation Safety, and Cancer Risks.” No. 3, contains three articles of likely interest to readers interested in physics and allied fields: Joan Lisa Bromberg, “New Instruments and the Meaning of Quantum Mechanics;” Daniela Monaldi, “The Indirect Measurement of the Decay of Mesotrons: Italian Experiments on Cosmic Radiation, 1937-1943;” and Edward Jones-Imhotep, “Icons and Electronics” on the representation of the transistor in circuit diagrams.

Physics in Perspective, Vol. 10, No. 1, offers Michael A. Day, “E. U. Condon: Science, Religion, and the Politics of World Peace;” Francesco Guerra and Nadia Robotti, “Ettore Majorana’s Forgotten Publications on the Thomas-Fermi Model” (continuing the recent spate of publications on Majorana); and Sara Lippincott, “A Conversation with Valentine L. Telegdi—Part II;” while A. P. French presents “In Memoriam: Philip Morrison.” Highlights of No. 2, include Osvaldo Pessoa, Jr., Olival Freire, Jr., and Alexis De Greiff, “The Tausk Contro-

versy on the Foundations of Quantum Mechanics: Physics, Philosophy, and Politics;” Joseph I. Kaputsa, “Accelerator Disaster Scenarios, the Unabomber, and Scientific Risks;” and Allen Franklin, “Are the Laws of Physics Inevitable?;” Matthew Trainer writes this issue’s “In Memoriam: Lord Kelvin, Recipient of The John Fritz Medal in 1905;” and The Physical Tourist visits Germany with “Physics in Leipzig: An Amble Through the Centuries.”

Historical highlights from Studies in the History and Philosophy of Modern Physics, Vol. 39, No. 2, include Oliver Schulte, “The Co-discovery of Conservation Laws and Particle Families;” and Slobodan Perovic, “Why Were Matrix Mechanics and Wave Mechanics Considered Equivalent?” No. 3, includes Aitor Anduaga, “The Realist Interpretation of the Atmosphere;” Amit Hagar, “Length Matters: The Einstein-Swann Correspondence and the Constructive Approach to the Special Theory of Relativity;” and Anthony Duncan and Michel Janssen, “Pascual Jordan’s Resolution of the Conundrum of the Wave-Particle Duality of Light.”

Studies in the History and Philosophy of Science, Part A, Vol. 39, No. 1, features Paolo Palmieri, “The Empirical Basis of Equilibrium: Mach, Vailati, and the Lever;” and John Preston, “Mach and Hertz’s Mechanics.”

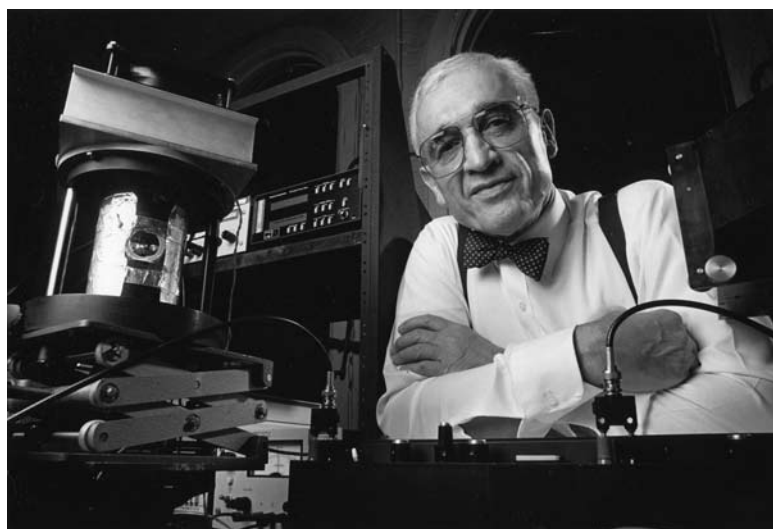
Archive for History of Exact Sciences, Vol. 62, No. 3, has one article with a bearing on physics: Paolo Palmieri, “Breaking the Circle: The Emergence of Archimedean Mechanics in the Late Renaissance;” as does No. 5, Shaul Katzir, “From Ultrasonic to Frequency Standards: Walter Cady’s Discovery of the Sharp Resonance of Crystals.”

Isis, Vol. 99, No. 1, features Alex Wellerstein, “Patenting the Bomb: Nuclear Weapons, Intellectual Property, and Technological Control.”

Vol. 23 of Isis’ yearly sister-journal **Osiris** is dedicated to the topic “Intelligentsia Science: The Russian Century, 1860-1960.” Articles of particular interest include Sonja D. Schmid, “Organizational Culture and Professional Identities in the Soviet Nuclear Industry;” Slava Gerovitch, “Stalin’s Rocket Designers’ Leap into Space: The Technical Intelligentsia Faces the Thaw;” Karl Hall, “The Schooling of Lev Landau: The European Context of Postrevolutionary Soviet Theoretical Physics;” and Asif Siddiqi, “Imagining the Cosmos: Utopians, Mystics, and the Popular Culture of Spaceflight in Revolutionary Russia.”

British Journal for the History of Science, Vol. 41, No. 2, features Part II of Russell Smith’s “Optical Reflection and Mechanical Rebound: The Shift from Analogy to Axiomatization in the Seventeenth Century.”

Historia Scientarum, Vol. 17, No. 2, presents Takehiko Hashimoto, “Leonard Bairstow as a Scientific Middleman: Early Aerodynamic



Nick Holonyak Jr. in his workshop. Photo Credit: Department of Physics, University of Illinois at Urbana-Champaign, courtesy of AIP Emilio Segrè Visual Archives.

Research on Airplane Stability in Britain, 1909-1920.”

Perspectives on Science has featured a number of articles related to physics so far this year. Vol. 16, No. 1, offers William Rehg and Kent Staley, “The CDF Collaboration and Argumentation Theory: The Role of Process in Objective Knowledge;” and Alisa Bokulich, “Paul Dirac and the Einstein-Bohr Debate.” In No. 2, Andreas Blank looks at 16th-century matter theory in “Julius Caesar Scaliger on Corpuscles and the Vacuum.” Vol. 16, No. 3, is dedicated to discussion of Miriam Solomon’s “Science and Social Epistemology.” Readers may find Alan Richardson, “Solomon’s Science without Conscience, or, On the Coherence of Epistemic Newtonianism;” and Naomi Oreskes, “The Devil is in the (Historical) Details: Continental Drift as a Case of Normatively Appropriate Consensus?” of specific interest.

Annals of Science, Vol. 65, No. 3, presents Dirk van Delft, “Zero-Point Energy: The Case of the Leiden Low Temperature Laboratory of Heike Kamerlingh Onnes.” In the last newsletter, Van Delft’s piece on Onnes from *Physics Today* was mistakenly noted as being in the February issue. It is in the March issue.

History of Science, Vol. 46, No. 1, features David Marshall Miller, “The Thirty Years War and the Galileo Affair;” and Yves Gingras, “The Collective Construction of Scientific Memory: The Einstein-Poincaré Connection and its Discontents, 1905-2005.”

Minerva, Vol. 46, No. 2, is dedicated to historical issues. Of particular relevance to the history of physics are Matthew Stanley, “Mysticism and Marxism: A. S. Eddington, Chapman Cohen, and Political Engagement Through Science Popularization;” Anja Skaar Jacobsen, “The Complementarity Between the Collective and the Individual: Rosenfeld and Cold War History of Science;” and Christian Forstner, “The Early History of David Bohm’s Quantum Mechanics Through the Perspective of Ludwig Fleck’s Thought-Collectives.”

Berichte zur Wissenschaftsgeschichte, Vol. 31, No. 2, presents Myles W. Jackson, “Music and Physics: A Cultural, Interdisciplinary History” in English; and Julia Kursell, “Hermann von Helmholtz und Karl Stumpf über Konsonanz und Dissonanz” in German.

In the **American Journal of Physics** Vol. 76, No. 6, John H. Marburger, III calls attention to how “A Historical Derivation of Heisenberg’s Uncertainty Relation is Flawed;” in No. 7, Caroline L. Herzenberg responds to the counterfactual from No. 2, (“Would Bohr be Born if Bohm were Born Before Born?”) in “Speaking of Lessons from the History of Physics, Does the Name ‘Hermann’ Ring a Bell?;” and in Vol. 76, No. 8, J. D. Jackson looks at the phenomenon of things



Enrico Fermi playing foosball in Varenna, Italy. Clockwise from left: Conversi; D. Keefe; Clark; M.G.K. (Mambillikalathil Govind Kumar) Menon; Fermi; Edoardo Amaldi; Giampietro Puppi; Porter, circa 1955. Gift of and Photo Credit: Juan G. Roederer; courtesy of AIP Emilio Segrè Visual Archives..

in physics being named after the wrong people in “Examples of the Zeroth Theorem of the History of Science.”

In Vol. 48, No. 6, of the **CERN Courier** Franco Bonaudi, Francis Farley, Guido Petrucci, Emilio Picasso, and Henk Verweij recall Frank Krienen in “A Talent for Ingenious Invention.”

Physics Today offers the following historical articles: in April 2008 we have Philip Anderson’s Reference Frame entry, “Who or what is RVB?;” as well as Edith Dudley Sylla’s discussion of “Medieval dynamics;” in May 2008 there is Giorgio Margaritondo’s look at Tantalus in “The Evolution of a Dedicated Synchrotron Light Source;” in June 2008, Peter J. Westwick presents “The Strategic Offense Initiative? The Soviets and Star Wars;” and in August 2008, we have Daniel Kleppner’s Reference Frame entry, “Hanbury Brown’s Steamroller.”

Physics World also has a number of history-related features. Robert Crease’s recurring column, *Critical Point*, discusses mathematician Alicia Boole Stott in “A Mind of Her Own” in the March 2008 issue; while in the May 2008 issue he revisits the contributions of the godfather of quantum mechanics in “The Bohr Paradox.” In the April 2008 issue, meanwhile, historian of physics Lillian Hoddeson writes about “John Bardeen: An Extraordinary Physicist.” In June 2008, Giorgio Margaritondo discusses the discovery of radioactivity in “Henri Becquerel: Serendipitous Brilliance;” while in August 2008, Alan Griffin brings us “Superfluidity: Three People, Two Papers, One Prize.”

In Vol. 39, No. 2, of the **Journal for the History of Astronomy**, François Wesemael and René Racine ask “Why Was the Companion of Sirius Not Seen Prior to 1862?;” while Michael Hoskin presents “Gravity and Light in the Newtonian Universe of Stars.”

The June 2008 issue of **Sky and Telescope** features Govert Schilling, “A Bump in the Night” about the accidental discovery of Pluto’s moon, Charon, thirty years ago.

Documentation Preserved: New Collections

Compiled by Jennifer S. Sullivan

All the information here is entered in our online *International Catalog of Sources for History of Physics and Allied Sciences*. PLEASE NOTE: This column is published in its full extended form, as in previous years, as part of our online newsletter. Please see the latest issue online at www.aip.org/history/newsletter.html

Cambridge University Library. West Road, Cambridge, CB3 9DR, United Kingdom.

The notebooks of Wilfrid Bennett Lewis. 1926-1931. 23 notebooks.

University of Toronto. University Archives. 120 St. George St., Toronto, Ontario M5S 1A5, Canada.

Donald G. Ivey papers. 1938-1994. 2.66 linear meters (19 boxes; 7 photoprints). Open for research.

A. Norman Shaw papers. 1921-1939. 0.51 linear meters (3 boxes). Open for research.

Agilent Technologies. History Center. 301 Stevens Creek Blvd, Santa Clara, CA 95051, USA.

Agilent Technologies History Center records. circa 1939-2008. For further information and access to the collection, contact Devon Dawson, History Center, Agilent Technologies.

Agilent Technologies. Library. 301 Stevens Creek Blvd, Santa Clara, CA 95051, USA.

Agilent Technologies Library records. For further information and access to the collection, contact Cindy Alfieri, Global Manager, Library, Agilent Technologies.

Alcatel-Lucent. Archives. 101 Crawford's Corner Road, Room 11G-104, Holmdel, NJ 07733 USA.

Alcatel-Lucent Archives collection. 1860s-2008. Size: 5,000 cubic feet. 6,000 artifacts. Access: with permission. Contact Public Relations.

American Association of Variable Star Observers. Archives. 25 Birch Street, Cambridge, MA 02138, USA.

American Association of Variable Star Observers (AAVSO) Archives records. 1872-2004. 120 linear feet. Requests for access to the archives should be made to the AAVSO Director.

Auburn University. Ralph B. Draughon Library. Department of Archives. Auburn, AL 36849, USA.

Auburn University Nuclear Science Center records. 1961-1967. 0.5 cubic feet (5 items).

California Institute of Technology. Institute Archives. 1201 East California Blvd, Pasadena, CA 91125, USA.

Oral history interview with Carl Anderson. 1979 January 9 -February 8. Transcript: 128 pages.

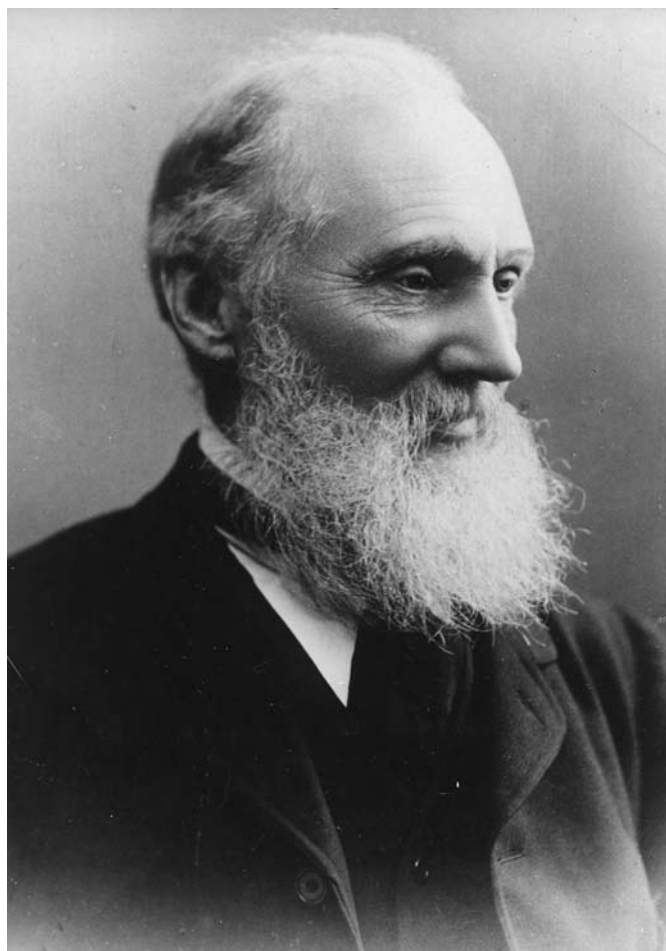
Oral history interview with Jesse Leonard Greenstein. 1982 February 25, and March 16 and 23, 1982. Transcript: 73 pages. 3 sound cassettes.

Oral history interview with Frank Oppenheimer. 1984 November 16. Transcript: 34 pages. Audio recording: 1 cassette. Permission to quote or cite required from CalTech.

Oral history interview with Charles F. Richter. 1978 February 15-September 1. Sound recordings: 5 sound cassettes. Transcript: 156 pages.

Corning Incorporated. Archives. HP-AB-02-2, Corning, NY 14831, USA.

Corning, Inc. Archives records. 1851-2008, bulk 1900-2008. 1200 cubic feet. Access with permission. Contact Michelle L. Cotton, Archives & Records Management Supervisor, Corning Incorporated, HP-AB-02-2, Corning, NY 14831.



William Thomson Lord Kelvin in old age. Photo is a gift of A. Rex Rivolo, courtesy of AIP Emilio Segrè Visual Archives.

Corning Incorporated. Technical Information Center Library. Corning, NY 14831, USA.

Corning, Inc. Technical Information Center Library records. 1917-2008, bulk 1950-2008. 7,000 books, audio visual materials, 30,000 technical reports and 300 journal titles. For access contact the Technical Information Center Library, Corning Incorporated, Corning, NY 14831.

Fermilab. Milton G. White History of Accelerators Room, WH-3SE and Archives, WH-16NE. PO Box 500, Batavia, IL 90510, USA.

John Peoples, Jr. collection. 1933-present.

Michael Witherell papers. 1999-2005.

George Mason University. Special Collections & Archives. Fairfax, VA 22030, USA.

Leonid M. Ozernoy collection. [undated]. 16.5 linear feet (31 containers). Collection is open to research.

James S. Trefil collection. [undated]. 31.7 cubic feet. Collection is open to research.

Harvard University. Archives. Pusey Library. Cambridge, MA 02138, USA.

Henry Bohm student notes and laboratory reports. 1947-1950. 0.7 cubic feet (2 boxes).

Bond Astronomical Club records. 1928-1963. 0.21 cubic feet (1 container). These records are open for research.

Seth Chandler letters to Charles H. Rockwell. 1883-1884. 3 letters (with enclosures).

Donald H. Menzel Centennial Symposium records. 2001 May 11. Size: 9 video cassettes (VHS); sound, color; 4 3/4 inches. 11:00:00 total playing time. Unavailable; contact repository for details.

Julian Calvert Eisenstein papers. 1937-1999.

George B. Field papers from his office at the Observatory. Restrictions: Unavailable; contact repository for information.

Wendell Hinkle Furry papers. circa 1927-1985. 12.2 cubic feet (36 manuscript containers). Access may be restricted. Details available at repository.



Sir Nevill Francis Mott at University of Bristol, International Conference on the Physics of Metals, organized by Mott and A. M. Tyndall, circa 1935. Photo Credit: Archives of HH Wills Physics Laboratory, University of Bristol, courtesy of AIP Emilio Segrè Visual Archives.

Walter Gilbert papers. circa 1960-circa 2005. Unavailable; contact repository for information.

Gerald James Holton papers. 1944-2007. circa 20 cubic feet (20 record cartons and 4 portfolio boxes). Access restrictions may apply; contact repository for details.

Otto Oldenberg papers. 1908-1971. 0.03 cubic feet (1 folder). Access may be restricted. Details available at repository.

Costas Papaliolios papers. 1950-2001. Unavailable; contact repository for details.

Kenneth W. Robinson papers. 1951-1985. 0.35 cubic feet (1 manuscript box). Access may be restricted. Details available at repository.

Frances Woodworth Wright papers. circa 1850-1987 (bulk 1930-1987). 5 cubic feet (17 containers). Access may be restricted. Details available at repository.

Honeywell International. Technology Library. 1985 Douglas Drive, Golden Valley, MN 55422, USA.

Honeywell International Technology Library collection. 1950s-2008. Access: with permission, depending on type of material.

Indiana University. Office of University Archives and Records Management. Bryan Hall 201, 107 South Indiana Avenue, Bloomington, IN 47405, USA.

Oral history interview with Emil Jan Konopinski. 1982.

Transcript: 39 pages. Audio recording: 2 audiotapes: analog; 1/4 inch; 1 7/8 ips. Open for research.

Oral history interview with Lawrence M. Langer. 1982. Transcript: 35 pages. Audio recording: 1 audiotape: analog; 1/4 inch; 1 7/8 ips. Open for research.

Roger G. Newton papers. 1955-2003, bulk 1970-1990. 9 cubic feet (9 boxes). Advanced notice required for access. Select files and the Reviews and evaluations series are closed to researchers at this time. Contact repository for details.

Marshal H. Wrubel papers. 1950-1969, bulk 1962-1968. 2.8 cubic feet. This collection is open for research. Advance notice is required.

Lawrence Berkeley Laboratory. Archives and Records Office. One Cyclotron Road, Bldg. 69-107, Berkeley, CA 94720, USA.



Werner Heisenberg and Enrico Fermi at Varenna, Italy. Gift of and Photo credit by Juan G. Roederer, courtesy of AIP Emilio Segrè Visual Archives.

George Smoot Cosmic Background Explorer (COBE) project case files. 1975-1995. 22 linear feet. Contact the repository for access to the collection.

Louisiana State University. Hill Memorial Library. Special Collections. Louisiana and Lower Mississippi Valley Collections. Baton Rouge, LA, 70803, USA.

Bruce M. Barker papers. 1966-1987. 13 volumes.

Max Goodrich oral history interview. 1995. Audio recording: 1 sound cassette. Transcript: 46 pages. No restrictions on access.

Massachusetts Institute of Technology. Institute Archives and Special Collections. M.I.T. Libraries, Room 14N-118, Cambridge, MA. 02139, USA.

Citizens League Against the Sonic Boom records. 1967-1978. 19 cubic feet (19 record cartons). There are no restrictions on access to the collection.

Silas W. Holman papers. 1875-1910 (bulk 1885-1900). 4.6 linear feet (4 records cartons, 1 legal manuscript box). There are no restrictions on access to the collection.

Minnesota Mining and Manufacturing Company (3M). Library and Information Services. 3M Center. St. Paul, MN 55144, USA.

3M Library and Information Services records. 1912-2008. 100,000 monographs. 1,800 journals.

Ohio State University. University Archives. 2700 Kenny Road, Columbus, OH 43210, USA.

Oral history interview with Bunny Clark. 2004 June 7. Transcript: 35 pages. Audio recording: 2 cassettes.

Oregon State University. Libraries. Special Collections. Corvallis, OR 97331, USA.

The David and Clara Shoemaker papers. 1950-2000 Contact the repository for information regarding access.

Princeton University. Department of Rare Books and Special Collections. 1 Washington Road, Princeton, NJ 08544 USA.

Robert H. Dicke papers. 1939-1996 (bulk 1953-1990). 17.5 linear feet (30 archival boxes 3 record center cartons). Collection is open for research use.

Smithsonian Institution Archives. Capital Gallery, Suite 3000, MRC 507, 600 Maryland Avenue, SW, Washington, DC 20024, USA.

Stanley Goldberg interviews for the Manhattan Project videohistory collection. 1987-1990. 29 videocassettes (VHS): sound, color; 1/2 inch.

History of Science Society editorial manuscript files. 1986-2003. 55 cubic feet.

Smithsonian Astrophysical Observatory, records. circa 1959-1986 1.25 cubic feet (1 record storage box) and (0.5 document boxes). This collection is open for research.

Smithsonian Astrophysical Observatory, records. 1973-1992 21 cubic feet (21 record storage boxes). Restricted for 15 years, until January-01-2008.

Smithsonian Institution. National Air and Space Museum. Archives Division. MRC 322, Washington, DC, 20560, USA.

James C. Elms collection. 1959-1974. 3.5 cubic feet (1 legal document box) and (3 records center boxes). No restrictions on access.

Smithsonian Institution. National Museum of American History. Archives Center. MRC 601, 12th Street and Constitution Avenue, NW, Washington, DC 20560, USA.

C. Willard Geer scrapbooks. 1944-1962. 0.5 cubic feet (1 box). There are no restrictions on access to this collection.

Roland C. Hawes papers. 1908-1997. 14.5 cubic feet (45 boxes). Unrestricted research use on site, by appointment. Gloves required with unprotected photographs. All rights transferred to Museum in Deed of Gift.

Serge A. Scherbatskoy papers. 1925-2002. Size: 17 cubic feet.

University of California, Santa Barbara. Library. Dept. of Special Collections. Santa Barbara, CA 93106, USA.

Alan J. Heeger papers.

Herbert Kroemer papers.

Oral history interviews with Herbert Kroemer.



Jeff McBride, a magician showing Philip Morrison how our eyes can fool our minds. Photo courtesy of AIP Emilio Segrè Visual Archives, Physics Today Collection.

University of Chicago. The Joseph Regenstein Library. Department of Special Collections. 1100 East 57th Street, Chicago, IL 60637, USA.

William W. Morgan papers. Collection is unprocessed; contact the University of Chicago archivist for information regarding access.

Records of Yerkes Observatory. 1897-2007. 500 linear feet.

University of Dayton. Roesch Library. Archives and Special Collections. 300 College Park, Dayton, OH 45469-1360 USA.

Michael Polanyi collection. 1940-2006 and undated. 7 linear feet (8 boxes).

University of Iowa Libraries. Main Library. Archives. Iowa City, IA 52242-1420, USA.

William R. Savage papers. 1974-1987. 0.5 linear feet. This collection is open for research.

University of Michigan. Bentley Historical Library. Ann Arbor, MI 48109, USA.

Thomas M. Donahue papers. 1939-2002 (bulk 1980-1998). 2.75 linear feet. The collection is open to research.

Orren C. Mohler papers. (1928-1979). 1 linear feet.

University of Minnesota Libraries. University Archives. Andersen Library, Minneapolis, MN 55455, USA.

Tandem Laboratory of Physics records. 1953-2007 (bulk 1961-2007). 2 cubic feet (2 boxes).

William Fuller Brown papers. 1955-1973. 5.2 linear feet.

(continued on page 15)

Each of us may be standing on the shoulders of giants; more often we stand on the graves of our predecessors. To know nothing about them is, to me, as limiting in one's self-regard as not knowing one's actual parents.

—Gerald Holton

Recognizing that a historical discovery is rarely quite the one attributed to its author in later textbooks (pedagogic goals inevitably transform a narrative), the historian should ask what his subject thought he had discovered and what he took the basis of his discovery to be. And in this process of reconstruction the historian should pay particular attention to the subject's apparent errors, not for their own sake but because they reveal far more of the mind at work than do the passages in which a scientist seems to record a result or an argument that modern science still retains.

—Thomas Kuhn



Walther Gerlach at University of Bristol; International Conference on the Physics of Metals, organized by N. F. Mott and A. M. Tyndal circa 1935. Photo Credit: Archives of HH Wills Physics Laboratory, University of Bristol; courtesy of AIP Emilio Segrè Visual Archives.

Work Continues to Preserve K-25

*From Atomic Heritage Foundation Newsletter
"Atomic Update" April 2008.*

On Tuesday, February 19, 2008, almost 200 people turned out for a public meeting on whether to preserve the North End of the K-25 building. Steve McCracken, Oak Ridge Assistant Manager for Environmental Management, asked the Oak Ridge Site Specific Advisory Board to assess public opinion on whether the North End of the K-25 should be preserved.

DOE's program manager Jack Howard presented a litany of issues ranging from the roof that needs to be replaced, hazards of the operating floor, weaknesses in the structural beams, contaminated equipment, and safety concerns. The budget for preservation work is \$26.7 million but cost estimates last June were presented at \$47 million. The Partnership for Preservation of the K-25 (PKP) worked with a team from Bechtel Jacobs to understand the costs and came up with an alternative plan whose cost is estimated to be \$28 million. This plan would use just 38 percent of the North End, with the rest separated with a fire wall beyond which no people would be allowed.

Katy Brown, director of the Oak Ridge Convention and Visitors' Bureau, Gordon Fee, retired president of Lockheed Martin Energy Systems at Oak Ridge, and Bill Wilcox, who has spearheaded PKP's efforts, made the case for preservation. Recently, both the Oak Ridge City Council and East Tennessee Economic Council passed resolutions in favor of preservation. In addition, the Oak Ridge Chamber of Commerce and sixty-five percent of the citizens polled in the "Oak Ridger" supported preservation of the K-25 North End.

A dozen speakers from the audience spoke about the importance of preservation. Considering all of these indicators, there seems to be a groundswell of support in Oak Ridge for preservation of the North End of K-25, one of the most significant monuments of the history of Oak Ridge, the nation and the world.

Fabio Fretia sent us his interview with **Prof. Dieter Zeh**. Ursula Pavish interviewed and sent us her six DVDs with **Norman Ramsey**. And Patrick McCray has sent us two sets of interviews; one with **K. Eric Drexler** and the other with **Ralph Merkle**.

Olival Freire Jr. sent us a CD that contains two interviews with physicist **Basil Hiley**. Another three interviews on CD's came from Alex Wellerstein. They are of **Keith A. Brueckner**, **Herb York** and **Ray Kidder**.

The Acoustical Society of America sent us for processing and archiving interviews of **Thomas D. Rossing** by Henry E. Bass; **Murray Gell-Mann** by William Patterson, and **Henning E. von Gierke** by Lawrence S. Finegold.

In addition, Paul H. Holloway has sent us eight interviews conducted at the 2007 AVS's International Symposium in San Francisco. They are **Steve Pearton** (John A Thornton Merorial Award); **Richard Colton** (Albert Nerken Award); **W.M.M. Kessels** (Peter Mark Memorial Award). Along with **Eric Kay**; **Larry Kazmerski**; **Bill Rogers**; **Robert Waits**; **Cedric Powell**. As well as, an interview with the 2008 AVS winner **Donna Sherman-Bakale**.

CORRECTION:

In the Spring 2008 issue, the photo accompanying the article, "Yerkes Observatory Records," by Daniel Meyer should have been dated 1933.

Big News for B Reactor

*From Atomic Heritage Foundation Newsletter
"Atomic Update" April 2008.*

Despite new interpretive exhibits installed last Fall and a recent recommendation from a Department of the Interior committee to designate it a National Historic Landmark, Hanford's B Reactor remained scheduled to be partially demolished, sealed and capped with a metal roof. In DOE's jargon, it was slated to be "cocooned."

The B Reactor's fate was changed on Wednesday, March 12, 2008 when the Department of Energy announced that the reactor would be taken off their list of facilities to be "cocooned." The facility will be preserved until a final decision is made about its future. Among other things, the Department is awaiting the National Park Service's study on whether to recommend a Manhattan Project National Historic Park Site for the major Manhattan Project sites.

Public demand to visit the reactor has prompted the Department of Energy to offer 48 public tours to Hanford's B Reactor this year, double the number in 2007. The season's first two-thousand seats were made available at midnight on Monday, March 17, and by 6:00 PM, every seat was filled. There is no substitute for experiencing this icon of atomic history in person.

Otto Herbert Schmitt papers. (1901-1998). 74.55 cubic feet (73 boxes).

University of Texas at Austin. Center for American History. Austin, TX 78713, USA.

ExxonMobil records. 1790-2004 (bulk 1880s-1990s). 1074.4 linear feet. Portions of this collection remain closed during processing and access is restricted. Publication restrictions apply. The Exxon Mobil Corporation retains copyright to the collection. Please contact the Center's Exxon Mobil Archivist for further information.

University of Wyoming. American Heritage Center. International Archive of Economic Geology. P.O. Box 3924, Laramie, WY 82071, USA.

R. Hobart Ellis papers. 1957-1967. 1.8 cubic feet (4 boxes). Available for research.

Dennis Gabor correspondence. 1961-1969. 0.45 cubic feet (1 box). Available for research.

Haines C. Hibbard papers. 1930-1987. 3.8 cubic feet (8 boxes). Available for research.

Xerox Corporation. Records Management. Xerox Wilson Research Center for Research and Technology, 800 Phillips Road, Webster, NY 14580, USA.

Xerox Corporation Records Management. circa 144,000 cubic feet of records (circa 147,000 boxes). 8,000 computer tapes. 2,100 cubic feet of laboratory notebooks. Access: with permission. Contact Corporate Public Relations, Xerox Corporation, 100 S. Clinton Avenue, Mail Stop XRX2-004, Rochester, NY 14644.

Xerox Corporation. Technical Library. Xerox Wilson Research Center for Research and Technology, 800 Phillips Road, Webster, NY 14580, USA.

Xerox Corporation technical library. circa 1940s-2008. Access: with permission. Contact Corporate Public Relations, Xerox Corporation, 100 S. Clinton Avenue, Mail Stop XRX2-004, Rochester, NY.

Finding Aids Available Online

We have learned of many new finding aids that are now available online. The finding aids, which are detailed descriptions of archival collections, were reported in 2008 to the International Catalog of Sources for History of Physics and Allied Sciences. To view the listing of collections with finding aids newly available, go to our newsletter at www.aip.org/history/newsletter/fall2008. Note also that there are now 360 finding aids from 48 repositories whose entire text is indexed and searchable on our Physics History Finding Aids Web site at www.aip.org/history/ead/.

Recent Publications on the History of Physics

A supplement to the Newsletter of The Center for History of Physics/Niels Bohr Library
and The Forum for History of Physics, American Physical Society
Compiled by Per and Eleanor Dahl

■ BOOKS

This list is the fourteenth of an annual series. It includes books on the history of modern physics and related topics (including astronomy, geophysics, and physics in medicine) published in 2004 or later. (See earlier lists for details on how the list is prepared.) Articles in journals are listed elsewhere in the *Newsletter*.

For more comprehensive coverage of publications on the history of science, consult the annual Current Bibliography in *Isis* (published by the University of Chicago Press for the History of Science Society). Publications on the history of astronomy are listed in the *Journal of Astronomical History and Heritage*.

We suggest that you use this list to recommend books for your institution's library; ISBN numbers are given, when available, for this purpose. Prices (which are for hardcover editions unless otherwise indicated) are subject to change by the publisher.

Permission is hereby granted to copy freely all or part of this list for any educational purpose. More extensive versions of this and the previous lists are available on the Center's web site at:

<http://www.aip.org/history/newsletter/archive.html>

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BIBLIOGRAPHIES & GUIDES

Burdick, Bruce Stanley. Johns Hopkins Studies in the History of Mathematics. 264 pp. Baltimore, MD: Johns Hopkins University Press, 2008. ISBN 978-0-8018-8823-6 (hc) \$55.00.

COLLECTED BIOGRAPHIES (3 or more Scientists)

Feldman, B., and K. Williams, (eds). 112 Mercer Street: Einstein, Russell, Gödel, Pauli, and the End of Innocence in Science. 243 pp. New York, NY: Arcade, 2007. ISBN 978-1-55970-704-6 (hc) \$26.00.

Freund, Peter. A Passion for Discovery. 240 pp. Hackensack, NJ: World Scientific, 2008. ISBN 978-981-277-214-5 (pb) \$29.00.

Holton, Gerald. Victory and Vexation in Science: Einstein, Bohr, Heisenberg, and Others. xi + 229 pp., Illus., index. Cambridge, Ma.: Harvard University Press, 2005. ISBN 978-0-67401519-3 (hc) \$35.00.

Nishina Memorial Lectures: Creators of Modern Physics. Nishina Memorial Foundation, ed. Lectures Notes in Physics 746. New York, NY: Springer, 2008. ISBN 978-4-431-77055-8 (hc) \$69.95.

COLLECTED WORKS OF SCIENTISTS (Including Unpublished Papers)

Gainor, C. To a Distant Day: The Rocket Pioneers. Outward Odyssey: A People's History of Spaceflight. 236 pp. Lincoln, NE: University of Nebraska Press, 2008. ISBN 978-0-8032-2209-0 (hc) \$29.95

Jones, Sheilla. The Quantum Ten: A Story of Passion, Tragedy, Ambition, and Science. 336 pp. New York: Oxford University Press, 2008. ISBN 978-0-19536909-0 (hc) \$24.95.

Weiner, Richard M. Analogies in Physics and Life: A Scientific Biography. xviii + 395 pp., Notes, app., index. New Jersey: World Scientific, 2008. ISBN 978-981-270-470-2 (hc) \$88.00. ISBN 978-981-270-471-9 (pb) \$58.00.

HISTORY OF ASTRONOMY, ASTROPHYSICS, COSMOLOGY & SPACE SCIENCES

Barbree, J. "Live From Cape Canaveral": Covering the Space Race, From Sputnik to Today. 321 pp. New York: Smithsonian Books/Harper-Collins, 2007. ISBN 978-0-06-123392-0 \$26.95.

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Hockey, T., V Trimble, and T.R. Williams (eds). The Biographical Encyclopedia of Astronomers. Vols. 1 and 2. 1345 pp. set. New York, NY: Springer, 2007. ISBN 978-0-387-31022-0 (hc) \$499.00.

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Friends of the Center for History of Physics

The panel members were (photo bottom left, l to r) Gerald Holton, Charles Weiner, Ron Doel, and John Rigden. Joining the celebration were (top row) Nancy Roman, Virginia Trimble, John Heilbron, Joe Anderson, Naomi Oreskes, (second row). Marc Brodsky, James Stith, and John Rigden. Photo Credit: Hillary Schweb.



Friends Celebrate Weart's Tenure as Center Director, and a Important Gift

On May 9, 2008, the Friends of the Center for History of Physics and the American Institute of Physics held a symposium on *History that Matters: The Life and Heritage of Science*, convening many distinguished historians of science and other scholars to celebrate Spencer Weart's tenure as Director of the AIP Center. For nearly 35 years, Spencer dedicated his professional career to preserving the heritage of our discipline. Under his direction, AIP grew a remarkable library and archive with fundamental references, documentation, oral history interviews, and photographs that provide an accurate account of the people and ideas that changed the world. In Spencer's own words, "The way we live, our entire society today would be utterly different without the physics discoveries of the past couple of centuries—and much worse off. The physics community has long recognized a need to figure out how all this happened and explain it to the public."

The symposium program: (<http://www.aip.org/history/symposium.html>) featured leading historians speaking about a variety of topics. In a panel discussion, historians described how the resources within the History Center and the Niels Bohr Library & Archives have positively impacted their research.

At the symposium, the Avenir Foundation announced a three million dollar gift to endow the "Spencer R. Weart Directorship of the Center for History of Physics." "We are deeply gratified by this very generous gift," says AIP Executive Director and CEO H. Frederick Dylla. "This endowment will help ensure the Center's stature and growth into the foreseeable future." The Avenir Foundation (avenir means "future" in French) has a special interest in the sciences and recognizes that the "principles of physics are basic to human existence, and it is of vital importance that a historical record of the application of these principles be preserved. We are humbled and gratified by this generous gift, and feel our responsibility to the scientific community deeply."

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