

Conference: The Next Generation of Historians of Physical Science

Early-career historians of the physical sciences converged on the American Center for Physics at the end of July for a four-day conference, sponsored by AIP's Center for History of Physics. The conference theme was 'Continuity and Discontinuity in the Physical Sciences since the Enlightenment'. In the 1970s and 80s, a grad student conference was held each year—the Joint Atlantic Seminar in History of the Physical Sciences (JASHoPS); it drew mainly from the eastern US. This meeting attracted speakers from around the world. Fifty-four participants came from fifteen countries, including China, Japan, Brazil, Mexico, Canada, nine European countries, and the US.



Amy's committee members included Fábio Freitas (Brazil), Anna Holterhoff and Christian Joas (Germany), Joe Martin and Ann Robinson (US), Pierre Teissier (France), and Xiaodong Yin (China). They wrote the call for papers, selected the papers to be presented, and developed the program. The Center's goal is to

and the development of the Geiger-Müller counter to interactions of the medical and physics communities in the early-20th century over control of X-ray diagnostics and treatments. There was a session on instrumentation, one on earth and space sciences, and another on theory and experiment. The topic

attracting the most attention was the history of quantum mechanics, with papers on Louis de Broglie, quantum optics, quantum measurement in the 1960s, and more.

Conference attendees broke into small groups for tours provided by Joe Anderson and the staff of the Niels Bohr Library & Archives. Although they had heard of NBLA's collections before, many attendees did not realize

The unique feature of the conference was the way it was organized. This meeting was by and for early-career historians of physics. The organizing committee was chaired by 2010 CHP intern Amy Fisher, who recently defended her dissertation.

reinvigorate the community of historians of physics and to make this a broadly international community.

The presentations covered a wide range of topics from physics in Latin America

just how rich the collections are. Indeed, altogether 23 researchers worked in NBLA before and after the conference. We hope that by introducing young historians to NBLA in person, we will

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		<i>Attendees of the Summer 2011 conference "Continuity and Discontinuity in the Physical Sciences since the Enlightenment."</i>	



Marta Jordi Taltavull of the Max-Planck-Institut für Wissenschaftsgeschichte presents her talk “On the Border between Light and Matter: Continuity and Discontinuity in the Development of Optical Dispersion” at the Summer 2011 conference for young scholars. Credit: AIP Center for History of Physics.

transform them into long-term users and supporters of the library.

Two keynote talks were given. Jaume Navarro (MPI for History of Science, Berlin) spoke on transformations in how physics was taught in England in the 19th century. Michel Janssen (University of Minnesota) discussed ‘arcs and scaffoldings’ in the history of relativity and quantum theory. The Center for

History of Physics also sponsored the first in a new series of Science Heritage Public Lectures. David DeVorkin, senior curator of astronomy and space science at the National Air and Space Museum, Smithsonian Institution, gave a lively talk on how the Cold War changed the Smithsonian’s Astrophysical Observatory.

Our thanks go out to long-term supporters of CHP who accepted invitations to comment on papers presented: Dieter Hoffman, Richard Staley, Alexei Kojevnikov, Michel Janssen, Roger Launius, Christoph Lehner, and Joan Bromberg. Their presence made this an intergenerational conference, too, and provided some extra continuity in scholarship.

The energy levels of the young historians were wonderful to witness. Discussions were lively and cheerful, both during and outside of sessions. Almost half of the participants attended a baseball game between the Washington Nationals

and the NY Mets, proving that some things are even more mysterious to the Brazilians and Europeans than Max Planck’s feelings about the quantum. The conference closed with a round-table discussion of publication of some of the talks and with great hopes for more such meetings in the future.

After the conference closed, an international soccer match started at noon in the AIP oval and didn’t finish until after 6pm! All our visitors went home with a warm remembrance of AIP. Several said this was the best conference they had yet attended. The next one will be even better! ■

Joe Anderson Presents at Scientific Archives Conference

Joe Anderson, Director of the Niels Bohr Library & Archives, gave the opening presentation at the 5th Annual Scientific Archives Conference in Rio de Janeiro on September 27.

The conference, which is sponsored bi-annually by the Museu de Astronomia e Ciências Afins and Fundação Casa de Rui Barbosa, brings together Brazilian, American, and European archivists to share information and discuss solutions to common problems.

Anderson’s talk, “Pragmatic Appraisal, Collecting the Records of Science,” focused on determining the likely historical value of science records. Archivists are faced with the problem of identifying a small amount of the total universe of records—somewhere around 1 to 5% according to many authorities—that may reasonably be preserved and that represents a fair reflection of the important aspects of the area being documented. Anderson discussed documentation strategy research, an approach to appraisal that was developed at AIP and at the MIT Archives, and that has helped to create an international network of contributing repositories that works to document the history of physics and allied sciences. Contact janderson@aip.org for more information. ■



David R. Crawford of Duke University and the University of Pittsburgh presents his talk “Boltzmann and Fisher: The Role of Statistical Mechanical Theory in the Development of Mathematical Population Genetics” at the Summer 2011 conference for young scholars. Credit: AIP Center for History of Physics.

The National Archives Agrees to Accession Personal Papers of Department of Energy Scientists

By John Stoner and Jean Deken

Thanks to the perseverance of contract laboratory records managers and archivists,* the U.S. Department of Energy (DOE) has successfully revised its Records Retention and Disposition Schedule for research and development records to allow the “private” records of DOE laboratory scientists and engineers to be preserved in the U.S. National Archives.

Like the people who create them, the records of highly skilled, multi-talented, variously occupied practitioners defy easy categorization, and yet such records provide a fascinating glimpse into the inner workings of day-to-day science. However, until now regulations separated “federal” records—those created by DOE staff as government employees—from their overlapping “personal” records created in their parallel careers as university faculty, members of national commissions, and other similar activities. The former records, if deemed of historical value, would eventually go to the National Archives, while the latter were not eligible for the National Archives and were often scattered or lost. Over a period of many years, the DOE Records Managers and Archivists have struggled to appropriately appraise and schedule the valuable and sometimes voluminous records created by these individual researchers.

The DOE achieved a major breakthrough in August 1998 when its new Records Retention and Disposition Schedule for R&D records (N1-434-96-9) was officially approved by the National Archives and Records Administration (NARA). This culminated a multi-year effort by a working group that included archivists and records managers from most if not all of the DOE national laboratories, as well as representatives from NARA. The working group followed much of the thinking outlined in the reports of the AIP Study of DOE National Laboratories and also of the 1998 AIP Study of Multi-Institu-

tional Collaborations, both led by Joan Warnow-Blewett, and the new schedule was a major improvement over the earlier version. The final schedule divided R&D records into four main types: case files; individual records series; program planning and management records; and medical research records.

However, some members of the working group thought that what was missing from the schedule was an item on individual scientists’ records collections. Many scientists at national laboratories hold multiple positions during their careers, both within and outside of DOE—as post-doctoral researchers, principal investigators, research group leaders, program and division heads and, in some cases, laboratory directors. The unifying principle of the records of such individuals is their careers, not a single records series or project case file. To (re-)organize their records based on the latter schemas would do damage to the original order and context of the records. When members of the working group proposed a schedule item for individual scientists’ collections, the NARA repre-

sentative indicated that such collections were all secondary reference materials and that inclusion of such an item would guarantee rejection of the schedule by NARA. In the interest of expediting approval, the item was not included in the final version of the schedule.

Implementation of the approved DOE R&D schedule resulted in improved management of LBNL’s scientific and technical records and the transfer of a significant volume of R&D records to the Federal Records Center. However, after a few years, it became apparent that several gaps left by the exclusion of the item covering individual scientists’ records as well as other records series needed to be closed. Therefore, in 2001 John Stoner, Archivist and Records Manager at the Lawrence Berkeley National Laboratory (LBNL), submitted a request for three revisions to the records schedule. The changes covered individual scientists’ records, internal publications, and committee and conventions files. The second and third revisions were approved, but the proposed individual scientists’ col-

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John Cockcroft at the controls of Cockcroft Walton Accelerator in Cavendish Laboratory, 1934. Credit: AIP Emilio Segrè Visual Archives, Bainbridge Collection.

(Personal Papers, cont'd from previous page)

lection schedule item was not approved. In 2006 Lee Michael, the Records Manager at the National Renewable Energy Laboratory (NREL), contacted Stoner about resurrecting the proposed revision, and Stoner agreed to send a revised recommendation for individual scientists' files to a recently established DOE Working Group on R&D Records if there were enough archivists and records managers in the DOE complex who would support such a move. Michael and Jean Deken, SLAC National Accelerator Laboratory Archivist, volunteered to work with Stoner to revise and update his original proposal based on the input received from working group members.

The different missions and institutional affiliations of the three labs ensured that a wide range of viewpoints would be captured in the final product. The trio researched issues about scientists who are also university faculty, about having the scientists (rather than the records managers) declare when records are no longer needed for current research, and changing the proposed new item title to

“researchers” (rather than “scientists”) collections, so as to include the records of prominent engineers and technicians.

As a result of the Working Group's efforts, an “Individual Researchers Collections” item was included in a proposed revised DOE R&D Schedule (N1-434-08-2) submitted to NARA for review on October 3, 2007 and NARA's Rich Noble, was tasked with its review. Noble, other NARA staff, and Stoner made a site visit to SLAC in February 2008, where Deken was able to provide unaccessioned examples of individual researchers collections for review, including the records of W. K. H. “Pief” Panofsky, Burton Richter (SLAC's first and second directors) and David Fryberger, physicist and long-time head of SLAC's Experimental Program Advisory Committee.

Satisfied as to the appropriateness of the proposed schedule item for such records, there remained a lingering concern at NARA that the item might be overused, but Deken and others estimated an annual accumulation of no more than 10 cubic feet. The schedule

makes clear that “It is anticipated that very limited use will be made” of the individual researchers collection schedule item and, thus far, that has indeed been the case. The revised R&D Schedule, this time with the Individual Researchers Collection item included, was approved on May 30, 2008, just a few months shy of 10 years after approval of the original schedule. Though the volume of such records remains small, their importance is quite high, and through this scheduling innovation, DOE and the national labs are succeeding in preserving the integrity of the records of individual researchers whose efforts span multiple roles, projects and experiments. ■

** John Stoner, Archivist and Records Manager at the Lawrence Berkeley National Laboratory (LBNL), led the multi-year effort described here, assisted by Jean Deken, Archivist, SLAC National Accelerator Laboratory and Lee Michael, National Renewable Energy Laboratory (NREL).*

For additional information contact John Stoner at jwstoner@lbl.gov or Jean Deken jmdeken@slac.stanford.edu.



Dedication ceremonies for Scyllac, a major experiment in controlled thermonuclear research at Los Alamos Scientific Laboratory (LASL), 1974. Members of the news media and families of employees ringed the balcony. The ceremonies were held after the series of brief talks in the LASL auditorium. Credit: Los Alamos National Laboratory, courtesy AIP Emilio Segrè Visual Archives, Physics Today Collection

An Almost New Journal in the History of Physical Science

A new journal for the history of physics appeared in 2010—well, an almost new journal: *European Physical Journal: Historical Perspectives on Contemporary Physics*—EPJ H for short. The fourth issue is now available and it shows that this is an important new venue for our community.

The journal is produced jointly by Springer Verlag, the Italian Physical Society, and EDPS (the publishing part of the French Physical Society).

This first volume is numbered 35, an indication that this is, in a sense, a continuation of an earlier journal, *Annales de Physique*. So this new title continues a venerable tradition.

In these first years of renewal, the editor has established a solid basis for publishing quality articles in history of physics.

These first four issues contain 18 articles:

Vol. 35, no. 1, 2010

P. Söding, “On the discovery of the gluon”

M. Eckert, “The troublesome birth of hydrodynamic stability theory: Sommerfeld and the turbulence problem”

B. Schroer, “Jorge A. Swieca’s contributions to quantum field theory in the 60s and 70s and their relevance in present research”

V. Trimble, “The origins and abundances of the chemical elements before 1957: from Prout’s hypothesis to Pasadena”

Vol. 35, no. 2, 2010

O. Darrigol and S. Shatashvili, “Editorial: In honour of James MacCullagh (1809–1847)”

T.D. Spearman, “James MacCullagh 1809–1847”

J. Bennett, “MacCullough’s Ireland: the institutional and cultural space for geometry and physics”



Los Alamos Scientific Laboratory scientists during a 1945 party at Los Alamos, New Mexico. L–R: Julian K. Knipp, Nicholas Metropolis, Stanislaw Ulam, Raymond Herb. In foreground, left to right, are Luis W. Alvarez and Edwin McMillan. Credit: Los Alamos National Laboratory, courtesy AIP Emilio Segrè Visual Archives, Fermi Film Collection, Physics Today Collection.

O. Darrigol, “James MacCullagh’s ether: An optical route to Maxwell’s equations?”

S. Goldstein, J.L. Lebowitz, R. Tumulka, and N. Zanghi, “Long-time behavior of macroscopic quantum systems: Commentary accompanying the English translation of John von Neumann’s 1929 article on the quantum ergodic theorem”

J. von Neumann, “Proof of the ergodic theorem and the H-theorem in quantum mechanics”

Vol. 35, no. 3, 2010

Klaus Fredenhagen, “Lille 1957: The birth of the concept of local algebras of observables”

Rudolf Haag, Discussion of the ‘axioms’ and the asymptotic properties of a local field theory with composite particles

Rudolf Haag, Local algebras: A look back at the early years and at some achievements and missed opportunities

Rudolf Haag, Some people and some problems met in half a century of commitment to mathematical physics

Vol. 35, no. 4, April 2011

P. Carlson and A. De Angelis, Nationalism and internationalism in science: the case of the discovery of cosmic rays

H.G. Dosch and V.F. Müller, The facets of relativistic quantum field theory

B. Schroer, Pasqual Jordan’s legacy and the ongoing research in quantum field theory

These articles present a strong indication that the history of physics is thriving. The concentration is decidedly on mathematical and theoretical physics, but the article on the history of cosmic ray research indicates that this may reflect the accident of submission and that the journal editor accepts a broader sense of the history of physics. Historians should consider this journal for their work, without neglecting the existing journals whose scope includes history of physical science. ■

Visit our online catalogs at
www.aip.org/history/icos

Emilio Segrè Visual Archives 2012 Calendar

Perfect for
**Holiday
Gifts!**

The 2012 wall calendar from the Emilio Segrè Visual Archives at the American Institute of Physics features a year's worth of physicists at work and play, with representation from each of AIP's Member Societies! Each month's image has a unique historical caption, and most months also have links to extended historical content on the web.

11" x 17" (hanging) / \$19.99



Walter Ritz and his wife Margarete riding a motorcycle owned by George Lawrence at the Segrè summer home in Trivulzio, Italy. Ritz's father had won a lifetime pension award from Italy for his work, which contributed to the development of quantum mechanics. "I am sure," Ritz said, "that the days of the bike / is over up with work, it was 15 years ago today!"
— from *Walter Ritz*, *Emilio Segrè Visual Archives*

MAY 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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APS physics



Order it online: <http://photos.aip.org/calendar/>

Recent Additions to the Niels Bohr Library & Archives

Donations to the Library & Archives allow us to acquire historically relevant and valuable materials. Since we are mainly the collecting body of AIP and its member societies, as new collections are offered to us we work hard to find an appropriate home for them. This often means that they are not kept here, but at a repository with stronger ties to the subject of the records. Though some collections are sent away, we continue to grow our archives and help give a home to records, photos, and books that fit within our realm of collecting. Again this year we have collected at a steady pace with many new and interesting materials.

Audiovisual Collections

The Emilio Segrè Visual Archives (ESVA) now makes over 22,500 images available online at <http://photos.aip.org>.

The **American Geophysical Union (AGU)** donated nearly 600 images which were processed by a spring 2010 intern from the University of Maryland's iSchool. **Peter Armbruster** of the Gesellschaft für Schwerionenforschung (GSI) in Darmstadt, Germany donated several photos depicting his life and work. **Lucien Baillaud** donated a few photos of his grandfather, Benjamin Baillaud, the first President of the International Astronomical Union (IAU). **Leo Beranek** donated dozens of stereo slides taken before 1975 documenting employees of Bolt, Beranek, and Newman. **Hilmar W. Duerberbeck** donated several photos featuring his wife, Waltraut Seitter, a German astronomer who taught at Smith College and Vanderbilt University in the U.S. as well as Bonn University and Muenster University in Germany. **Jonathan Logan** made a large donation of prints largely from the collections of Samuel Goudsmit and Brookhaven National Laboratory. **George Tressel** gave us several photos of physicist and composer Art Roberts at a recording session for music he composed for a film on the 1964 Atoms for Peace Conference as well as images of John Wheeler, Leslie Groves, and Wal-

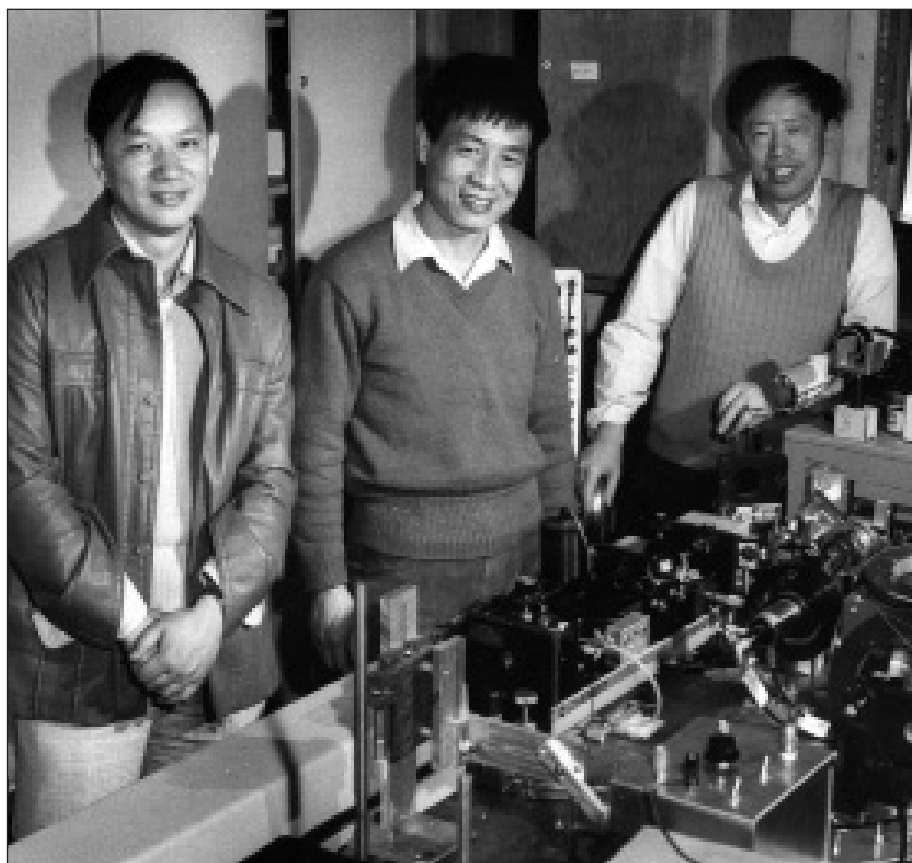
ter Ziin made while making the film 'The Day Tomorrow Began.' **Kameshwar Wali**, a previous donor, gave us several images of Subrahmanyam Chandrasekhar and family via Physics Today magazine, who featured Chandrasekhar in their December 2010 issue.

The 2010 Nobel Laureates in Physics, **Andre Geim** and **Konstantin Novoselov**, donated photos at our request. We also thank these generous donors for giving us their images: **Donald D. Clayton**, **Michael Duncan**, **John C. Hardy**, **Randall G. Hulet**, **Maureen A. Rafferty**, **Veerabhadran Ramanathan**, **Martin Walt**, and **Benjamin P. Weiss**.

Lastly, we thank the following AIP Member Society Presidents for sending us their photos for our Gallery of Member Society Presidents: **Christopher Dainty**, **George V. Frisk**, **Thomas Koetzle**, **Angus A. Rockett**, **J. Anthony Seibert**, and **David R. Sokoloff**.

Manuscript Collections

As always, being the official repository of the American Institute of Physics (AIP) and its ten member societies, we have continued in our effort this year to preserve their records. We have received large donations from the **American Physical Society (APS)**, and smaller donations from the **American Association of Physicists in Medicine (AAPM)**, the **AVS**, and the **Society of Rheology (SoR)**. In addition, we have worked to complete our collections of back issues of each member society's and AIP division's printed newsletters that are part of our **Miscellaneous Publications collection**. Each division or society has their own finding aid that can be found on our website (<http://www.aip.org/history/ead/browse.html>), which will allow researchers easier access to these resources. From the Library & Archives, we have added to our collection on the **Center for the History of Physics' (CHP)**
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Chinese physicists doing research at Harvard in nonlinear optics as part of a Chinese-American program in atomic, molecular and condensed-matter physics sponsored by the American Physical Society (APS). L-R: Guo-Zhen Yang, Ying-Hua Zhou, and Wen-Kui Wang, ca 1970's. Credit: Photo by Joe Wrinn, courtesy AIP Emilio Segrè Visual Archives, Physics Today Collection.



Earl Shaw (left), who worked at Bell Labs before joining Rutgers University, with an unidentified student, ca 1990's Credit: Rutgers University, courtesy AIP Emilio Segrè Visual Archives, Gift of Dr. Shaw.

Project on the History of Recent Physics records and the administrative materials and interviews from the **History of Physicists in Industry project** are also available.

Along with these collections from AIP and its member societies we have received the **Lillian Hoddeson papers**, which include transcripts from some of the oral history interviews she conducted throughout her career and much of her research material and from the grant funded projects she worked on, especially those she did in conjunction with CHP. This collection has been processed and a finding aid is available online (<http://www.aip.org/history/ead/20110335.html>). Furthermore, we were sent an addition to the **Samuel Goudsmit papers**, the records of **William C. "Bill" Kelly** from his time at the **American Association of Physics Teachers (AAPT)** along with a roll of microfilm on **AAPT's Committee on Apparatus for Educational Institutions lecture demonstrations**, and a set of **Edson Wolcott's** diplomas.

In addition to our larger manuscript collections, we collect audio visual recordings, institutional histories, unpublished manuscript biographies and single or few item collections of "miscellaneous physics." These types of materials make up a majority of our collection and

often offer new points of views on historical events and people important to the physical sciences.

This year our audio visual donations ranged from speeches for awards given by member societies, such as **B. C. Wang's acceptance of the Patterson Award**, **Frank Herbststein's acceptance of the Fankuchen Award**, and **Angelo Gavezzoti's acceptance of the Trueblood award for the American Crystallographic Association (ACA)**; to presentations that are history focused from large confer-

ences, for example we received recordings from the **AAPT Winter meeting from Jacksonville, Florida** and the **APS March and April meetings**. We also received audio reels from **AAPT's Women in Science** series of interviews with women of physics and astronomy from the 1970s and 80s and a recording of the actor **Clay Jenkinson's portrayal of J. Robert Oppenheimer**.

More information is now available about the **Niels Bohr Institute** and the **APS's collected papers relating to their formation of the division of nuclear physics** in our institutional histories collection. In our manuscript biographies, we have received memoirs, autobiographies or unpublished biographies about **Henry Paul**, **Raymond McAllister**, **Donald B. Keck**, **David K. C. Cooper**, **Morris Berg**, **Sidney C. Abrahams**, **Vesto Melvin Slipher** and **Jack Eddy**. Finally, in our miscellaneous physics collection, we received more course notes from a nuclear physics class taught by **Julian Schwinger** that were compiled by **Martin J. Klein** and from a neutron physics course at Los Alamos University taught by **Enrico Fermi** that were written by **Isaac Halpern**; and a report from the first workshop of the **National Resource for Computation in Chemistry** from **Lawrence Berkeley Laboratory**. ■



Herbert York and Petr Kapitsa in Moscow with faked San Diego Daily Transcript newspaper headline, 'Kapitsa Wins Bet, York Humiliated.' 1975. Credit: AIP Emilio Segrè Visual Archives, Physics Today Collection.

Niels Bohr Library & Archives 2011 Book Donations

The Niels Bohr Library & Archives greatly benefited from the generosity of its donors this year, receiving over 500 books in 2011. Two of our biggest donations included 180 books from Kenneth W. Ford and 108 books from the library of the late Norriss S. Hetherington, donated to the library by his wife, Edith. Kenneth Ford's donation included many textbooks, biographies, and technical monographs. We were also grateful to receive so many well selected titles from the library of the late Norriss S. Hetherington in the areas of physics, astronomy, and in both the history and philosophy of science.

Other large donations included over 80 monographs from David Berns; a large number of books in geology, geophysics and the history of science from our History Center director, Gregory A. Good; a number of conference proceedings and monographs from Armen Jermakian; and a dozen theoretical physics monographs from Randolph Reeder. We also received a large donation last year from Elizabeth Ivey which we processed this

year, a donation strong in the areas of physics and especially acoustics.

In addition to the major donations, we received several generous donations from Charles J. Peterson, Sally Boskin, Dr. and Mrs. Michael G. Ruby, Dr. Charles E. Atchley, Warren Hein, Alexei Kojevnikov, Peter Broughton, and former History Center director Spencer Weart.

Individual titles donated by their authors and editors this year included:

John T. Blackmore and Setsuko Tanaka *Ernst Mach's Graz, 1864–1897* (Enfield, 2010)

John T. Blackmore and Setsuko Tanaka *Ernst Mach's Prague 1867–1895 As a Human Adventure* (Enfield, 2010)

Benjamin Bederson and Henry H. Stroke *History of the NYU Physics Department, 1831–2000* (BookMasters, 2010)

Alfons Carpio Rovira *Ciència i política*

exterior francesa a l'Espanya de Franco: el cas dels físics Catalans (Institute d'Estudis Catalans, 2010)

William Fickinger *Miller's Waves: An Informal Scientific Biography* (Case Western Reserve University, 2011)

Kenneth W. Ford *101 Quantum Questions: What you Need to Know About the World You Can't See* (Harvard UP, 2011)

George Greenstein *The Quantum Challenge: Modern Research on the Foundations of Quantum Mechanics* (Jones and Bartlett, 1996 and 2007)

David J. Lockwood *Light scattering in magnetic solids* (co-authored with Michael G. Cottam; Wiley, 1986)

David J. Lockwood (Ed.) *P.L. Kapitsa—Letters to Mother: The Early Cambridge Period* (NRCC, 1989)

Karl von Meyenn (Ed.) *Eine Entdeckung*
(Continued on page 19)



Grants-in-Aid Help Young Scholars Connect

Alexander Blum of the Max-Planck-Institut für Wissenschaftsgeschichte writes about how a Grant-in-Aid from the Center for History of Physics helped him attend the Summer 2011 conference for young scholars in College Park, MD.

The Grant-in-Aid of the Friends of the Center for History of Physics allowed me to attend this summer's young scholars conference on 'Continuity and Discontinuity in the Physical Sciences since the Enlightenment' and present a paper on the history of the concept of vacuum polarization.

This was an important milestone for me, since it was the first conference in the history of physics at which

I got to present my own work, after I switched from physics to history of physics after my PhD last year.

The costs of traveling to the United States from Europe are often prohibitive for young scholars, but it is extremely important for us to keep contact with the vibrant history of science community in the U.S. In fact, from the discussions I had at the conference, there emerged a collaborative project with a PhD student from Pittsburgh, which he and I are currently working on. ■

For more information on the Grants-in-Aid and Grants to Archives programs, visit www.aip.org/history/grants.html.

Documentation Preserved

Compiled by Melanie Brown

Our report of new collections or new finding aids is based on our regular survey of archives and other repositories. Many of the collections are new accessions, which may not be processed, and we also include previously reported collections that now have an online finding aid available.

To learn more about any of the collections listed below, use the International Catalog of Sources for History of Physics and Allied Sciences at www.aip.org/history/icos. You can search in a variety of ways including by author or by repository.

Please contact the repository mentioned for information on restrictions and access to the collections.

NEW COLLECTIONS

National Archives of Australia. Queen Victoria Terrace, PARKES ACT 2600, GPO Box 7425, CANBERRA BC ACT 2610, Australia

George Hector Munro papers. Collection dates: circa 1941-1976. Size: approximately 1 linear foot.

American Museum of Natural History. Library. Special Collections. Central Park West at 79th Street, New York, NY 10024 USA

The Peruvian Eclipse Expedition [video-recording]. Collection dates: 1937. Size: 1 videocassette. Restrictions: Not available through interlibrary loan. Contact AMNH Library Special Collections for terms of access.

Brigham Young University. Harold B. Lee Library. Special Collections Division. P.O. Box 26835, Provo, UT 84602-6835, USA

Oral history interview with Carl Joseph Christensen. Collection Date: 1985 February 10. Size: Transcript: 55 pages. Audio recording: 3 cassettes.

Willard Gardner biography. Collection Date: 1978. Size: 1 volume (60 pages).

History of the Department of Physics and Astronomy, Brigham Young University, compiled by Richard W. Hales, E. John

Eastmond and O. Norman Geertson. Collection dates: 1961. Size: 28 centimeters (187 pages).

Richard Wayne Hales lecture notes. Collection dates: circa 1936-1961. Size: 3 linear feet (3 cartons).

Wayne B. Hales records. Collection dates: 1944-1945. Size: 27 items.

Clark University. Goddard Library. Archives and Special Collections. Worcester, MA 01610-11477, USA

Joseph George Coffin collected papers. Collection dates: 1900-1935. Size: 3 volumes.

J. E. Ives collected papers. Collection dates: 1888-1913. Size: 1 volume.

College of William and Mary. Earl Gregg Swem Library. Special Collections Research Center. Williamsburg, VA 23185, USA

Oral history interview with Robert T. Siegel. Collection Date: 1976 August 11. Size: Transcript: 37 pages. Audio recording: 82 minutes.

Hans C. von Baeyer papers. Collection dates: 1979-1984. Size: 5 cubic feet. Restrictions: This collection contains material which may be restricted related to personnel matters, student records, or other reasons. A Special Collections

Research Center staff member must review the collection for restricted material before any researchers may use the collection. Consult a staff member for assistance.

Oral history interview with Lewis W. Webb, Jr. Collection Date: 1975 September 3. Size: Transcript: 53 pages. Audio recording: 80 minutes.

Columbia University. Oral History Research Office. Box 20, Room 801 Butler Library, New York, NY 10027, USA

Oral history interview with Michael Late Benedum. Collection Date: 1951. Size: Transcript: 144 leaves. Audio recording: 1 tape reel.

Oral history interview with Charles Stark Draper. Collection Date: 1983. Size: Transcript: 146 leaves. Audio recording: 5 cassettes. Restrictions: This collection is closed for research. Contact the Oral History Research Office for more information.

Oral history interview with Dennis Flanagan. Collection Date: 1986. Size: Transcript: 69 pages.

Oral history interview with Neil Tyson. Collection dates: 2001 December 12, 2003 March 12, and 2005 June 23. Size: Transcript: 124 pages. Audio recording: 2 cassettes (163 minutes). Video recording: 2 DVDs (118 minutes).

Columbia University. Rare Book and Manuscript Library. Butler Library, 6th Floor East, New York, NY 10027, USA

Columbia University Department of Astronomy records. Collection dates: 1880-1917. Size: 5 linear feet (4 record storage cartons, 2 document boxes). Restrictions: This collection is located off-site. You will need to request this material at least 24 hours in advance to use the collection in the Columbia Univer-

sity Library's Rare Book and Manuscript Library reading room.

Mariia Vladimirovna Volkonskaia papers. Collection dates: 1858-1959. Size: 14 boxes.

Georgia Institute of Technology. Library and Information Center, Atlanta, Georgia 30332-0900, USA

Helen E. Grenga papers. Collection dates: 1963-1994 (bulk 1972-1983). Size: 2.4 linear feet.

Hagley Museum and Library. Manuscripts and Archives Department. 298 Buck Road East, Greenville, DE 19807, USA

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

Associates of Physical Science of Harvard University records. Collection dates: 1937-1941, undated. Size: 1 container.

Blue Hill Meteorological Observatory records. Collection dates: 1884-1960. Size: 126 containers.

Lewis McAdory Branscomb papers. Collection dates: 1950-2004. Size: 37 cubic feet. Restrictions: Restrictions may apply. Consult reference staff for details.

Helen L. Brooks papers. Collection dates: 1958-1982.

Cambridge Electron Accelerator accident investigation records. Collection dates: 1965. Size: 3 boxes.

Cambridge Electron Accelerator drawings of apparatus. Collection dates: 1968-1973. Size: 5 containers. Restrictions: Access may be restricted. Details available at the repository.

Cambridge Electron Accelerator logbooks, manuals, reports, registration cards, and shift summaries. Collection

dates: 1956-1973. Size: 32 containers. Restrictions: Access may be restricted. Details available at the repository.

Cambridge Electron Accelerator motion picture films. Collection dates: circa 1962-1967. Size: 0.45 cubic foot (1 container, 3 film reels). Restrictions: Access may be restricted. Details available at repository.

Cambridge Electron Accelerator records of Sixth International conference on High Energy Accelerators. Collection dates: 1967. Size: 2 boxes. Restrictions: Access may be restricted. Details available at the repository.

Cambridge Electron Accelerator records of staff meetings. Collection dates: 1957-1973. Size: 2 containers. Restrictions: Access may be restricted. Details available at the repository.

Cambridge Electron Accelerator records of various committees. Collection dates: 1959-1973. Size: 9 containers. Restrictions: Access may be restricted. Details available at the repository.

Cambridge Electron Accelerator records: photographs of bubble chamber ex-

posure in the experimental hall of the Cambridge Electron Accelerator. Collection dates: undated. Restrictions: Unprocessed collection.

Julian Calvert Eisenstein autobiography and scrapbooks. Collection dates: 1937-1948. Size: 0.5 cubic feet (1 typed manuscript, 3 volumes in 2 flat boxes).

Leo Goldberg photograph albums. Collection dates: 1960-1975. Size: 3 volumes.

Harvard College Observatory Agassiz Station records. Collection dates: 1938-1953. Size: 1 container. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Boyden Station miscellaneous items. Collection dates: 1887-1951. Size: 4 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Boyden Station records. Collection dates: 1889-1958. Size: 38 containers. Restrictions: Access may be restricted. Details available at the repository.

(Continued on next page)



Los Alamos Scientific Laboratory scientists hiking during 1945 in the rugged area of Frijoles National Park near Los Alamos, New Mexico. L-R: Joseph McKibben, Richard Feynman, Edwin McMillan, Bengt Carlsson, Theodore Jorgensen, Jr., Emilio Segrè (with hat and glasses), David Inglis, and Mrs. Jorgensen. Credit: Los Alamos National Laboratory, courtesy AIP Emilio Segrè Visual Archives, Fermi Film Collection, Physics Today Collection.

(*New Collections, cont'd from previous page*)

Harvard College Observatory Committee minutes. Collection dates: 1958-1967. Size: 0.2 cubic foot (1 container). Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory Oak Ridge Station records. Collection dates: 1932-1938. Size: 2 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Russian Observatory records. Collection dates: circa 1899. Size: 1 folder. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Sacramento Peak Station records. Collection dates: undated. Size: 1 container. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory and Harvard Observatory Safety Council forms and notices. Collection dates: undated.

Size: 8 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory astronomical and meteorological scrapbooks. Collection dates: 1843-1867. Size: 2 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory chronometric expedition records. Collection dates: 1849-1855. Size: 15 boxes. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory computations by Robert Treat Paine. Collection dates: 1852-circa 1861. Size: 0.01 cubic foot (1 container).

Harvard College Observatory correspondence and tabulations on meteor shower of 1898. Collection dates: circa 1898. Size: 2 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory finding charts: Magellanic clouds. Collection

dates: undated. Size: 1 folder. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory general records. Collection dates: 1970-1993. Size: 2.7 cubic feet (8 containers). Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory history and book of facts. Collection dates: 1839-circa 1900. Size: 1 container. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory journal of observations made with 12" horizontal telescope. Collection dates: 1888-1889. Size: 1 volume. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory photographs of the construction of Agassiz Station. Collection dates: 1961. Size: 0.4 cubic feet. Restrictions: Access may be restricted. Details available at repository.



Please help us contact...

...the individuals listed below or their heirs so we can put their oral history interview transcripts online. The Library's project to mount the transcripts of our most valuable oral histories on the web has come to a successful conclusion, with hopefully a new stage of the project beginning soon.

Currently, one can read interviews with over 500 physicists and astronomers, including figures like Bohr, Bethe, Chandrasekhar, Gell-Mann, and Rabi, and listen to voice clips of Heisenberg, Gamow, and others, by clicking on the list of names at <http://www.aip.org/history/nbl/oralhistory.html>. For a full description of the project, which was funded by a grant from the National Endowment for the Humanities, see our Fall 2008 newsletter (<http://www.aip.org/history/newsletter/fall2008/oral-history.html>).

Contacting interviewees and heirs for permissions is one of the most important and most time consuming parts of the project, and you and other newsletter readers have been of enormous help in the past. We are counting on you now to help us include these important individuals in our new online archive. If you have contact or other information, please get in touch with Amanda Nelson at anelson@aip.org or 301-209-3172.

Agnew, Duncan Carr
Bell, Leon
Black, James Findley
Bleuler, Konrad
Brakel, Henry Louis
Bromley, D. Allan
Buck, Paul H.
Burns, Fred Paul
Case, Stephen

Cross, Lee A.
Fumi, Fausto
Geballe, Ronald
Green, Robert
Haworth, Leland J.
Hill, David Lawrence
Hinz, Karl
Huggins, Maurice
Jeffreys, Bertha Swirles

Levi, Hilda
Meyers, C. J.
Pederson, Johannes
Teichman, Raymond
Tian Yu Cao
Uehling, Edwin
Vila, Fernando
Wiegand, Clyde
Wilson, James G.

Harvard College Observatory project and staff files. Collection dates: 1971-1976. Size: 5 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory records from scientific conferences and meetings. Collection dates: 1910-1975. Size: 10 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory records of E. S. King. Collection dates: 1913-1931. Size: 1 container. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory records of Northeast Radio Observatory Corporation and Cambridge Radio Observatory Committee. Collection dates: 1964-1972. Size: 10 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory records of W. P. Gerrish. Collection dates: 1887-1939. Size: 5 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory records of Willard J. Fisher. Collection dates: 1925-1934. Size: 11 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory records of astronomical work. Collection dates: 1912-1919. Size: 1 container. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory records of the Associate Director, Bart J. Bok. Collection dates: 1913-1957. Size: 5 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory records relating to Harvard Observatory series. Collection dates: 1940. Size: 2 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory records relating to the National Radio Astronomy Observatory. Collection dates: 1971-1991. Size: 1.4 cubic feet (4 containers). Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory reports to visiting committees. Collection dates: 1846-1874. Size: 3 containers. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory research proposals. Collection dates: 1953-1956. Size: 2 containers. Restrictions: Access may be restricted. Details available.

History of the Harvard College Observatory's Bruce photographic telescope. Collection dates: 1888-1894. Size: 1 volume. Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory Administrative Officer correspondence. Collection dates: 1959-1983. Size: 1 cubic foot (2 containers). Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Administrative Officer correspondence. Collection dates: 1953-1985. Size: 12 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director correspondence. Collection dates: 1926-1975. Size: 0.7 cubic foot (2 containers). Restrictions: Access may be



The dedication of the nation's largest solar heating and cooling system then in operation took place November 26, 1975, at the George A. Towns Elementary School in Atlanta, Georgia. Solar collector panels mounted on the roof are pictured during construction. It was expected that the system would supply more than 60 percent of the year-round heating and cooling for the 32,000 square-foot building. A conventional gas-fired boiler supplements the solar system. Credit: ERDA Photo by Frank Hoffman, courtesy AIP Emilio Segrè Visual Archives, Physics Today Collection.

restricted. Details available at repository.

Harvard College Observatory Office of the Director records of Donald H. Menzel. Collection dates: 1952-1969. Size: 73 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director records of Edward C. Pickering. Collection dates: 1864-1926. Size: 168 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director records of George B. Field. Collection dates: 1972-1983. Size: 2 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director records of Harlow Shapley. Collection dates: 1921-1956. Size: 100 containers. Restrictions: Access may be re-

(Continued on next page)

(New Collections, cont'd from previous page)

stricted. Details available at the repository.

Harvard College Observatory Office of the Director records of Joseph Winlock. Collection dates: 1866-1875. Size: 8 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director records of Leo Goldberg. Collection dates: 1960-1970. Size: 10 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director records of W. C. Bond and G. P. Bond. Collection dates: 1845-1865. Size: 26 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director records. Collection dates: 1863-1958. Size: 118 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard College Observatory Office of the Director records. Collection dates: 1964-1991. Size: 8.7 cubic feet (25 containers). Restrictions: Access may be restricted. Details available at repository.

Harvard College Observatory Office of the Director subject files. Collection dates: 1960-1978. Size: 5 containers. Restrictions: Access may be restricted. Details available at the repository.

Harvard Cyclotron Laboratory records. Collection dates: 1930-2002, undated. Restrictions: Unprocessed accessions, unavailable for use.

Publications by and about Harvard Project Physics. Collection dates: 1962-1973. Restrictions: Access may be restricted. Details available at repository.

Harvard University general information files. Collection dates: 1839-, undated. Details available at the repository.

Harvard University records regarding the appointment of a director for the Harvard College Observatory. Collection dates: 1865. Size: 1 container. Restrictions: Access may be restricted. Details available at repository.

Harvard University Committee on Higher Degrees in Biophysics student records. Collection dates: (1962-1998). Size: 6 cubic feet (17 containers). Restrictions: Access may be restricted. Details available at repository.

Harvard University Corporation Panel on Physics and Engineering memoranda, reports, and other items. Collection dates: 1944-1945. Size: 1 container.

Harvard University Department of Astronomy student and departmental records. Collection dates: 1933-1983. Size: 0.6 cubic foot (2 containers). Restrictions: Access may be restricted. Details available in repository.

Harvard University Department of Physics teaching material. Collection dates: 1939-1974. Size: 2 boxes.

Harvard University Division of Engineering and Applied Physics records of professor Allan R. Robinson relating to the Geophysics Study Committee. Collection dates: 1970-1977. Size: 0.7 cubic foot (2 containers). Restrictions: Access may be restricted. Details available at repository.

Harvard-Smithsonian Center for Astrophysics Office of the Director correspondence. Collection dates: 1960-1990.

Harvard-Smithsonian Center for Astrophysics Office of the Director records of Irwin Shapiro. Collection dates: 1964-1986.

Harvard-Smithsonian Center for Astrophysics records of the May 11, 2001 Donald H. Menzel Centennial Symposium. Collection dates: undated. Size: 1 program, 9 VHS cassettes, 9 audio cassettes.

Donald H. Menzel notes of a course on astronomical geophysics presented in

1954 at Harvard College Observatory. Collection dates: 1954 Size: 28 centimeters (19 leaves).

Don C. Wiley papers. Collection dates: 1965-2000, 2002. Size: 59.21 cubic feet (59 record cartons, 1 document box). Restrictions: Restrictions may apply.

Henry E. Huntington Library. 1151 Oxford Road, San Marino, CA 91108, USA

Mount Wilson Observatory Optical Shop papers. Collection dates: 1903-1938. Size: 931 items.

Mount Wilson Observatory legal papers. Collection dates: 1903-1938. Size: 84 items (1 box).

Seth Barnes Nicholson papers. Collection dates: 1914-1963. Size: 445 items (3 boxes).

Alexander Pogo papers. Collection dates: 1952-1959. Size: 936 items.

John Wesley Powell collection [microform]. Collection dates: undated Size: 1 35 mm microfilm reel.

Henrietta Hill Swope papers. Collection dates: 1923-1979. Size: 2,400 items (12 boxes).

Frederic Eugene Wright papers. Collection dates: 1924-1961. Size: 865 items (6 boxes, 3 oversize folders).

Johns Hopkins University. Special Collections, Milton S. Eisenhower Library. 3400 N. Charles St., Baltimore, MD 21218, USA

R. Bowling Barnes papers. Collection dates: circa 1930-1970. Size: 11.25 linear feet (9 records boxes).

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

Norman C. Rasmussen papers. Collection dates: 1956-1995. Size: 15 cubic feet (15 records boxes). Restrictions: This collection is open for research. Access to box 15 is restricted as it contains student work. The collection is not yet fully processed.

National Radio Astronomy Observatory. Archives. 520 Edgemont Road, Charlottesville, VA 22903, USA

Marshall H. Cohen papers. Collection dates: 1957-2002. Size: 4 linear feet. Restrictions: No restrictions.

David S. Heeschen papers. Collection dates: 1945-1998. Size: 7.5 linear feet. Restrictions: No restrictions.

Northwestern University. Library. University Archives. Evanston, IL 60201, USA

Su-Shu Huang papers. Collection dates: 1944-1980. Size: 15 boxes.

J. Allen Hynek papers. Collection dates: 1925-1988. Size: 14 boxes.

Dearborn Observatory Organ Mountain Station logbooks. Collection dates: 1961-1965. Size: 4 notebooks.

University of Virginia. Alderman Library. Special Collections. Charlottesville, VA 22903, USA

Oral history interview with Frederick L. Brown. Collection dates: 1975 November 19. Size: 3 items.

Schenectady Museum. Nott Terrace Heights, Schenectady, NY 12308, USA

Albert W. Hull papers. Collection dates: 1920-1964. Size: 0.3 linear feet.

Irving Langmuir papers. Collection dates: 1911-1959. Size: 0.5 linear feet.

Francis J. Norton papers. Collection dates: 1930-1986. Size: 3.6 linear feet.

University of California, San Diego. Mandeville Special Collections Library. 9500 Gilman Drive, La Jolla, CA 92093, USA

Geoffrey Burbidge papers. Collection dates: 1955-2008. Size: 52.4 linear feet.

Helen S. Hawkins collection. Collection dates: 1974-1987. Size: 5.1 linear feet (11 archives boxes).

University of Michigan. Bentley Historical Library. Ann Arbor, Michigan 48109-2113, USA

S. P. Langley papers. Collection dates: 1866-1926. Size: 0.2 linear feet.

Harry E. Moses student notebooks. Collection dates: 1943-1947. Size: 8 volumes (in 1 box).

University of Michigan Department of Atmospheric, Oceanic and Space Sciences publications. Collection dates: 1956-2004.

Size: 0.2 linear feet. Restrictions: The records are open without restriction.

University of Michigan Detroit Observatory records. Collection dates: 1800-2004 (bulk 1994-2001). Size: 26 linear feet and 1 flat file drawer. Restrictions: The records are open without restriction.

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

Oral history interview with Russell K. Hobbie. Collection dates: 1994 September 29. Size: Transcript: 28 pages.

Roger H. Stuewer papers. Collection dates: 1921-1970s. Size: 1 cubic foot (1 box). Restrictions: Items in this collection do not circulate and may be used in-house only.

University of Nevada, Las Vegas. Lied Library Special Collections.. 4505 Maryland Parkway Box 457001, Las Vegas, NV 89154-7001, USA

Cliff Olses papers. Collection dates: 1958-2002. Size: 6 boxes.



L-R: John Graham, Paul Foster, and John McCone, the United States delegation to the General Conference of the International Atomic Energy Agency (IAEA) in Vienna, Austria. September 20, 1960. Credit: AIP Emilio Segrè Visual Archives, Physics Today Collection.

(New Collections, cont'd from previous page)

University of Pennsylvania University Archives and Records Center Philadelphia, Pennsylvania 19104-6320.

Britton Chance papers. Collection dates: 1940-1995. Size: 17 cubic feet. Restrictions: Access to collection is granted in accordance with the Protocols for the University Archives and Records Center; the collection includes a large quantity of personal, employment, and personnel material, which, according to the Protocol of the University Archives, will be closed for seventy-five years after its generation.

Oral history interviews with Arsene N. Lucian. Collection dates: 1969-1971. Size: 0.3 cubic feet.

Horace Clark Richards collection. Collection dates: 1871-1944. Size: 0.5 cubic feet. Restrictions: Access to collection is granted in accordance with the Protocols for the University Archives and Records Center.

University of Pittsburgh. University Archives. 7500 Thomas Boulevard, Pittsburgh, PA 15208, USA

Abner Shimony papers. Collection dates: 1947-2009. Size: 6 linear feet (7 document cases).

University of Rochester. Rush Rhees Library. Dept. of Rare Books, Manuscripts and Archives. Rochester, New York 14627.

Rudolf and Hilda Kingslake papers. Collection dates: 1903-2003. Size: 27 boxes.

University of Tennessee, Knoxville. Special Collections Library. James D. Hoskins Library, Knoxville, TN 37996, USA

Alexander Hollaender addition to papers. Collection dates: 1951-1972. Size: 3 linear feet. Restrictions: Collections

are stored offsite, and a minimum of 24 hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

Herbert L. Mette physics textbooks and studienbuch. Collection dates: 1913-1951. Size: 0.3 linear feet. Restrictions: Collections are stored offsite, and a minimum of 24 hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

Karl Z. Morgan addition to papers. Collection dates: 1946-1996 (bulk 1970-1991). Size: 2.75 linear feet. Restrictions: Collections are stored offsite, and a minimum of 24 hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

Alvin Nielsen collection. Collection dates: 1910-1994. Size: 1.0 linear feet. Restrictions: Collections are stored offsite, and a minimum of 24 hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

Warren Sinclair papers. Collection dates: 1960-1972. Size: 12 linear feet. Restrictions: Manuscript collections are stored offsite, and a minimum of 24 hours is needed to retrieve these items for research use. Readers interested in consulting any of the collections are advised to contact Special Collections.

Joshua Tabatchnik scientific papers. Collection dates: 1938-1967 (bulk 1962-1967). Size: 0.1 linear feet. Restrictions: Collections are stored offsite, and a minimum of 24 hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

University of Tennessee Space Institute self-study. Collection dates: 1970. Size: 9.1 linear feet. Restrictions: Collections are stored offsite, and a minimum of 24

hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

Harry D. Youmans Jr. papers. Collection dates: 1952-1987 May 13. Size: 1.5 linear feet. Restrictions: Collections are stored offsite, and a minimum of 24 hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

University of Utah. Marriott Library. Special Collections. Salt Lake City, UT 84112, USA

National Cold Fusion Institute records. Collection dates: 1988-1991. Size: 7 linear feet. Restrictions: Materials must be used on-site; advance notice suggested. Access to parts of this collection may be restricted under provisions of state or federal law.

University of Utah Seismograph Stations records. Collection dates: 1971-1980. Size: 1.0 linear feet. Restrictions: Materials must be used on-site; advance notice suggested. Access to parts of this collection may be restricted under provisions of state or federal law.

University of Virginia. Alderman Library. Special Collections. Charlottesville, VA 22903, USA

University of Virginia Department of Physics Physics Accelerator Building photographs. Collection dates: 1966. Size: 35 photographs.

University of Wisconsin-Madison. University Archives. Steenbock Library, Madison, WI 53706, USA

Theodore Edwin Houck Royal Observatory logbook. Collection dates: 1953. Size: 1 volume (22 centimeters).

University of Wisconsin Department of Astronomy records. Collection dates:

1867-1986. Size: 11 cubic feet (30 archives boxes, 1 record carton) plus, unprocessed accession of 13.5 cubic feet and 11 volumes.

University of Wisconsin Department of Astronomy High Speed Photometer records. Size: 8 cubic feet.

University of Wisconsin Department of Astronomy Project Gemini records. Collection dates: 1989-1995. Size: 2 cubic feet (2 record cartons).

University of Wisconsin Department of Astronomy blueprints. Size: 170 blueprints.

University of Wisconsin Department of Astronomy records. Collection dates: 1877-2007. Size: 18 cubic feet.

University of Wisconsin Department of Astronomy orbiting astrophysical observatory records. Collection dates: 1959-1973. Size: 4 cubic feet.

University of Wisconsin Space Astronomy Laboratory addition to records. Collection dates: 1972-1978. Size: 0.5 cubic feet.

Washburn Observatory observation books. Collection dates: 1867-1958. Size: 6 record cartons.

A. E. Whitford observation books. Collection dates: 1934-1956. Size: 3 volumes.

Vanderbilt University. Special Collections and University Archives. Jean and Alexander Heard Library, 419 21st Avenue South, Nashville, TN 37203, USA

Newton Underwood papers. Collection dates: 1938-1941. Size: 3 items.

Worcester Polytechnic Institute. Archives. George C. Gordon Library. 100 Institute Road, Worcester, MA 01609

Carle W. Highberg papers. Collection dates: 1940s-1980s. Size: 3 boxes.

Harold Osterberg papers. Size: 1 box.

Richard T. Whitcomb collection. Collection dates: 1954-1980. Size: 7 boxes and 1 cabinet drawer.

NEW FINDING AIDS

College of Charleston. Library. Department of Archives and Manuscripts. Charleston, SC 29424, USA

Frank R. Fisher papers. Collection dates: 1869-1902. Size: 1 volume. (0.25 linear feet).

Lewis Reeves Gibbes papers. Collection dates: 1834-1898. Size: 7 boxes (4.5 linear feet).

Columbia University. Rare Book and Manuscript Library. Butler Library, 6th Floor East, New York, NY 10027, USA

Henry J. Anderson copies of letters. Collection dates: 1823-1900. Size: 0.5 linear feet (1 box).

Clarisse Doris Hellman papers. Collection dates: [circa 1925]-1973. Size: 30 linear feet (61 boxes).

Jan Schilt papers. Collection dates: 1931-1963. Size: 23.5 linear feet (circa 13,500 items in 27 boxes).

Earlham College. Archives. Lilly Library, Richmond, IN 47374. USA

Clifford C. Crump papers. Collection dates: 1920-1969. Size: 4 feet.

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

Harlow Shapley papers. Collection dates: 1906-1966 (inclusive). Size: 53 cu-

bic feet (1671 containers). Restrictions: Access may be restricted. Details at the repository.

John Winthrop papers. Collection dates: 1728-1789 (inclusive). Size: circa 2 linear feet. Restrictions: Access may be restricted. Details at the repository.

Johns Hopkins University. Special Collections, Milton S. Eisenhower Library. 3400 N. Charles St., Baltimore, MD 21218, USA

Joseph Sweetman Ames papers. Collection dates: 1888-1968. Size: 0.5 linear feet (1 document box).

W. J. A. Bliss papers. Collection dates: 1892-1927. Size: 1 linear foot (2 document boxes).

Walter M. Elsasser papers. Collection dates: 1927-1987. Size: 4 linear feet (10 boxes).

Gustav A. Liebig collection. Collection dates: 1886-1887. Size: 5 items.

Jan Michael Minkowski papers. Collection dates: 1946-1987. Size: 6.7 linear feet (4 document boxes, 4 records boxes).

David Sterrett Pindell notebook. Collection dates: 1895-1933. Size: 1.25 linear feet (1 records box).

Henry Augustus Rowland papers. Collection dates: 1793-1970. Size: 30 linear feet (52 document boxes, 56 volumes).

Robert Williams Wood papers. Collection dates: 1927-1942. Size: 0.4 linear feet (1 document box).

Princeton University. Seeley G. Mudd Manuscript Library. 65 Olden Street, Princeton, NJ 08544, USA

G. Edward Pendray papers. Collection dates: 1829-1891. Size: 68.35 linear feet (99 boxes).

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(Finding Aids, cont'd from previous page)

Schenectady Museum. Nott Terrace Heights, Schenectady, NY 12308, USA

Charles Steinmetz papers. Collection dates: 1895-2001. Size: 2.5 linear feet.

Smithsonian Institution Archives. Capital Gallery, Suite 3000, MRC 507, 600 Maryland Avenue, SW; Washington, DC 20024-2520, USA

National Museum of American History Department of the History of Science and Technology records. Collection dates: circa 1925-1937, 1954-1985. Size: 2.9 linear meters. Restrictions: Use of this record unit requires prior arrangement with the Archives staff.

National Museum of History and Technology Division of Physical Sciences records. Collection dates: 1956-1976. Size: 0.9 linear meter.

Smithsonian Astrophysical Observatory Office of the Director records of the George Field and Irwin Shapiro. Collection dates: 1971-1987. Size: 12.3 linear feet.

Southern Illinois University at Carbondale. Morris Library. Special Collections. Carbondale, IL 62901, USA

Open Court Publishing Company records. Collection dates: 1887-1920. Size: 408 cubic feet. Restrictions: Open for research.

Otis B. Young photograph collection. Collection dates: 1936-1964. Size: 1 box.

University of Michigan. Bentley Historical Library, Ann Arbor, Michigan 48109-2113, USA

Ralph Belknap Baldwin papers. Collection dates: 1949-1992. Size: 7 linear feet.

K. M. Siegel papers. Collection dates: 1957-1973. Size: 1 linear foot.

University of Michigan. Bentley Historical Library. Ann Arbor, Michigan 48109-2113, USA

Association of Universities for Research in Astronomy records. Collection dates: 1953-1974. Size: 16 linear feet.

William G. Dow papers. Collection dates: 1927-1964. Size: 6 linear feet.

Kasimir Fajans papers. Collection dates: 1912-1975. Size: 13 linear feet.

William P. Favorite papers. Collection dates: 1918-1977. Size: 9 linear inches.

University of Puget Sound. Library/Archives. Tacoma, WA 98416, USA

B. A. Gould papers. Collection dates: 1874-1918. Size: 1.0 linear foot (1 box).

University of Tennessee, Knoxville. Special Collections Library. James D. Hoskins Library, Knoxville, TN 37996, USA

Radiation Biology Photograph collection. Size: 1.5 feet (79 items).

Farrington Daniels Jr. addition to papers. Collection dates: 1960-1997. Size: 0.1 linear foot. Restrictions: Collections are stored offsite, and a minimum of 24 hours is needed to retrieve these items for use. Researchers interested in consulting any of the collections are advised to contact Special Collections.

University of Utah. Marriott Library. Special Collections. Salt Lake City, UT 84112, USA

Franklin Stewart Harris Jr. papers. Collection dates: 1920s-1997. Size: 3.25 linear feet. Restrictions: Twenty-four hours advance notice encouraged. Access to parts of this collection may be restricted under provisions of state or federal law.

Yale University Library. Beinecke Rare Book and Manuscript Library. Box 208240, New Haven, CT 06520, USA

Rachel Carson papers. Collection dates: 1921-1989. Size: 53.5 linear feet (117 boxes).

Yale University Library. Manuscripts and Archives. Box 208240, New Haven, CT 06520, USA

Bertram Borden Boltwood papers. Collection dates: 1890-1932. Size: 3 linear feet (8 boxes and 1 folio).

George Jarvis Brush family papers. Collection dates: 1834-1960. Size: 4 linear feet (10 boxes, 1 folio).

Connecticut Academy of Arts and Sciences records. Collection dates: 1799-1987. Size: 8.5 linear feet (21 boxes).

Dana family papers. Collection dates: 1805-1961. Size: 7.25 linear feet (20 boxes, 5 folios).

Jean André DeLuc papers. Collection dates: 1746-1847. Size: 17 linear feet (42 boxes, 1 folio).

Armand H. L. Fizeau papers. Collection dates: 1870-1879. Size: 0.5 linear feet (1 box).

Edward Claudius Herrick papers. Collection dates: 1797-1862. Size: 8 linear feet (15 boxes).

Elias Loomis family papers. Collection dates: 1727-1947. Size: 14 linear feet (30 boxes).

Othniel Charles Marsh papers. Collection dates: 1817-1899. Size: 29.5 linear feet (59 boxes, 1 folio).

Horace Dwight Taft papers. Collection dates: 1888-1983. Size: 34.5 linear feet (85 boxes).

Todd-Bingham picture collection. Collection dates: 1837-1966. Size: 49.5 linear feet (93 boxes, 33 folios, 2 volumes).

William Weldon Watson papers. Collection dates: 1924-1983. Size: 3 linear feet (8 boxes).

Yale University Department of Molecular Biophysics and Biochemistry records. Collection dates: 1948-1969. Size: 0.75 linear feet (2 boxes).

John Zeleny papers. Collection dates: 1897-1951. Size: 3 linear feet (2 boxes). ■

Did you know?

The American Physical Society (APS) maintains a Physics Timeline at <http://timeline.aps.org>.



The Center for History of Physics offers grants-in-aid for research in the history of modern physics and allied sciences. Visit <http://www.aip.org/history/grants.html> for more information.

Online Access to Historical CERN Council and Committee Documents

Historical records of CERN's governing body, the CERN Council, are now more easily available thanks to a digitisation and cataloguing project carried out by the CERN Archive team. Over 12,000 official documents of the CERN Council, Committee of Council, Finance Committee and Scientific Policy Committee are now available here: <http://cdsweb.cern.ch/collection/Council-related%20Committees?ln=en>. They date from before CERN's creation in 1954, and most are available in both English and French.

Optical character recognition means that the full texts, as well as the cataloguing information, are searchable; just place the prefix "fulltext:" before your search term in the database, e.g. "fulltext:Austria". Various combinations of metadata and full-text searching are possible to make your search as precise as you wish; for more details see the CDS Search Guide (<http://cdsweb.cern.ch/help/search-guide>). Ac-

cess restrictions apply (there is a 5-year closure period for non-confidential Council records and a 30-year period for the rest); however, new rules approved by Council in March 2009 now make many more documents publicly available immediately after the Council Sessions (see the Council web pages <http://council.web.cern.ch/council/en/Welcome.html>).

This project has absorbed the bulk of the CERN Archive's resources for the last two years; we hope you are pleased with the result. Now we are working hard to catch up with other tasks, such as tackling the cataloguing backlog and processing some interesting new accessions, including correspondence and other files of Georges Charpak (mostly dating from after 1992, when he was awarded the Nobel Prize in Physics "for his invention and development of particle detectors, in particular the multiwire proportional chamber". ■

(Book Donations, continued from page 9)

von ganz ausserordentlicher Tragweite: Schrödingers Briefwechsel zur Wellenmechanik und zum Katzenparadoxon. Band 1-2 (Springer-Verlag, 2011)

Neil C. Schoen and Kim Schoen *74 Steps* (Paperchase Press, 2011)

We also received publications from institutions including the NASA History Program, the Department of Physics at the University of Arkansas, and the Museu de Astronomia e Ciências Afins.

We are grateful to all of our donors this year who have helped to strengthen and fill in the gaps in our collection with these contributions. ■

For information on donating books, contact Kim Hukill, Librarian, at 301-209-3182 or khukill@aip.org.

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Right to left: Chr. Schmelzer, J. B. Adams, X, C.J. Bakker, L. Kowarski, P. Preiswerk. The meeting took place in the old "Batiment electoral" in Geneva. Credit: CERN.

Recent Publications of Interest

Compiled by Alex Wellerstein

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 website 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”

Notes and Records of the Royal Society

Vol. 65, No. 4: David B. Wilson, “William Whewell, Galileo, and reconceptualizing the history of science and religion”; William Van der Kloot, “Mirrors and smoke: A. V. Hill, his Brigands, and the science of anti-aircraft gunnery in World War I.”

British Journal for the History of Science

Vol. 44, No. 2: Falk Müller, “Johann Wilhelm Hittorf and the material culture of nineteenth-century gas discharge research.”

Vol. 44, No. 3: Victor D. Boantza and Ofer Gal, “The ‘absolute existence’ of phlogiston: the losing party’s point of view”; Gildo Magalhães Santos, “A debate on magnetic current: the troubled Einstein–Ehrenhaft correspondence.”

Historical Studies in the Natural Sciences

Vol. 41, No. 3: Júlia Gaspar and Ana Simões, “Physics on the Periphery: A Research School at the University of Lisbon under Salazar’s Dictatorship.”

Physics in Perspective

Vol. 13, No. 2: John G. Jenkin, “Atomic Energy is ‘Moonshine’: What did Rutherford Really Mean?”; Ezno F. Haussecker and Alexander W. Chao, “The Influence of Accelerator Science on Physics Research”; B. Cameron Reed, “Liquid Thermal Diffusion during the Manhattan Project”; Ursula Pavlish, “Gerson Goldhaber: A Life in Science.”

Vol. 13, No. 3: Benjamin Bederson and H. Henry Stroke, “History of the New York University Physics Department”; Stefania Jha, “Wigner’s ‘Polanyian’ Epistemology and the Measurement Problem: The Wigner–Polanyi Dialog on Tacit Knowledge.”

Vol. 13, No. 4: Christopher M. Graney, “Contra Galileo: Riccioli’s ‘Coriolis-Force’ Argument on the Earth’s Diurnal Rotation”; Stephan Schwarz, “Science, Technology, and the Niels Bohr Institute in Occupied Denmark”; David K. C. Cooper, “Edward Gerjuoy: From Physics to Law and Back Again.”

Physics Today

Vol. 64, No. 7: Sigfried Hecker, “Adventures in scientific nuclear diplomacy.”

Vol. 64, No. 8: Steven Weinberg, “Particle physics, from Rutherford to the LHC.”

Vol. 64, No. 9: Bruce Parker, “The tide predictions for D-Day”; Owen Gingerich, “The great Martian catastrophe and how Kepler fixed it.”

Vol. 64, No. 10: Steven Sherwood, “Science controversies past and present.”

Studies in History and Philosophy of Modern Physics

Vol. 41, No. 4: Peter Hayes, “Popper’s response to Dingle on special relativity and the problem of the observer.”

Isis

Vol. 102, No. 2: William R. Newman, “What Have We Learned from the Recent Historiography of Alchemy?”



Prof. Bassam Shkhashiri’s chemistry lecture/College for Kids, University of Wisconsin-Madison, 1983. Credit: Photo by Norman Lenburg, courtesy of the University of Wisconsin Madison Archives, Image ID Number 8306-118-4, courtesy AIP Emilio Segrè Visual Archives, Physics Today Collection.

Vol. 102, No. 3: Eileen Reeves, "The Ingenious Gentleman Galileo Galilei" [essay review].

Centaurus

Vol. 52, No. 4: John Krige, "Building the Arsenal of Knowledge"; Naomi Oreskes, "Science, Technology, and Free Enterprise"; Ronald E. Doel, "Does Scientific Intelligence Matter?"; Peter J. Westwick, "The International History of the Strategic Defense Initiative: American Influence and Economic Competition in the Late Cold War";

Vol. 53, No. 1: Stefano Bordoni, "Beyond Electromagnetic and Mechanical Worldviews: J. Larmor's Models of Matter and Energy in the Early 1890s."

Vol. 53, No. 2: Gregory A. Good, "Measuring the Inaccessible Earth: Geomagnetism, In situ Measurements, Remote Sensing, and Proxy Data."

Vol. 53, No. 3: Martin Clutton-Brock and David Topper, "The Plausibility of Galileo's Tidal Theory";

Archive for History of Exact Sciences

Vol. 65, No. 4: Chen-Pang Yeang, "Tubes, randomness, and Brownian motions: or, how engineers learned to start worrying about electronic noise."



James O'Brien, American Geophysical Union's Oceanography Section President 1980-1982, seated at equipment, while students look on. Credit: American Geophysical Union (AGU), courtesy AIP Emilio Segrè Visual Archives.

Vol. 65, No. 6: Sandro Petruccioli, "Complementarity before uncertainty"; Giulio Peruzzi and Matteo Realdi, "The quest for the size of the universe in early relativistic cosmology (1917-1930)."

Annals of Science

Vol. 68, No. 1: David Philip Miller, "The Political Economy of Discovery Stories: The Case of Dr Irving Langmuir and General Electric"; Terje Brundtland, "After Boyle and the Leviathan: the Second Generation of British Air Pumps."

Vol. 68, No. 2: A. E. Hui, "Instruments of Music, Instruments of Science: Hermann von Helmholtz's Musical Practices, his Classicism, and his Beethoven Sonata"; Robert Deltete, "How Relativity Got Accepted and How Einstein Came to be Regarded as its Author" [essay review]; Alberto A. Martínez, "The Myriad Pieces of Einstein's Remains" [essay review].

Vol. 68, No. 3: Chen-Pang Yeang, "Engineering Entanglement, Conceptualizing Quantum Information"; Maria Rentetzi, "Packaging Radium, Selling Science: Boxes, Bottles and Other Mundane Things in the World of Science."

Journal for the History of Astronomy

Vol. 42, No. 2: Owen Gingerich and Albert Van Helden, "How Galileo Constructed the Moons of Jupiter."

CERN Courier

Vol. 51, No. 5: "Simon van der Meer: a quiet giant of engineering and physics."

Vol. 51, No. 6: "Hildred Blewett: a life with particle accelerators." ■



L-R; possibly Avery Jones and Harold Hopkins with the Hopkins Endoscope, ca. 1990. Credit: Kelvin Hopkins, courtesy AIP Emilio Segrè Visual Archives, Hecht Collection.

Give Us Your Dirty Old Books!

The Niels Bohr Library & Archives at the American Institute of Physics is looking for book donations that will help our goal of documenting the history of physics, astronomy and geophysics from the 19th and 20th centuries.

What type of books do we collect?

- Textbooks
- Laboratory manuals and other instructional materials
- Physical science monographs
- Conference proceedings
- Instrument catalogs
- Published correspondence
- Biographies and history of science monographs

What subjects does the collection cover?

- The history of physics and its allied sciences (astronomy, optics, acoustics, geophysics, vacuum science, rheology, crystallography and physics in medicine.)
- Biography, institutional history and social aspects of the scientific community

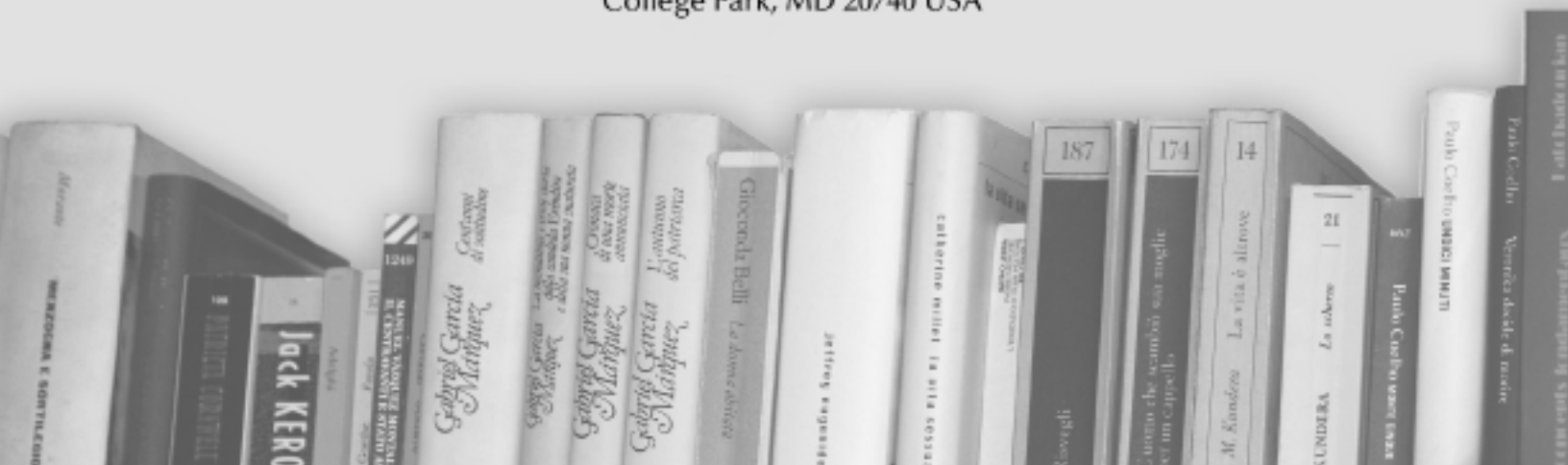
Successive editions of texts and conference proceedings are particularly important to us.

Through collecting books that document the history of science, the Niels Bohr Library & Archives aims to preserve this valuable information for future generations and to provide access for researchers who wish to study it.

We appreciate your help in preserving historical documentation and we will reimburse shipping costs.

Please contact Greg Good at ggood@aip.org or Joe Anderson at janderso@aip.org if you have any questions or books you wish to donate. Fax: 301-209-0882.

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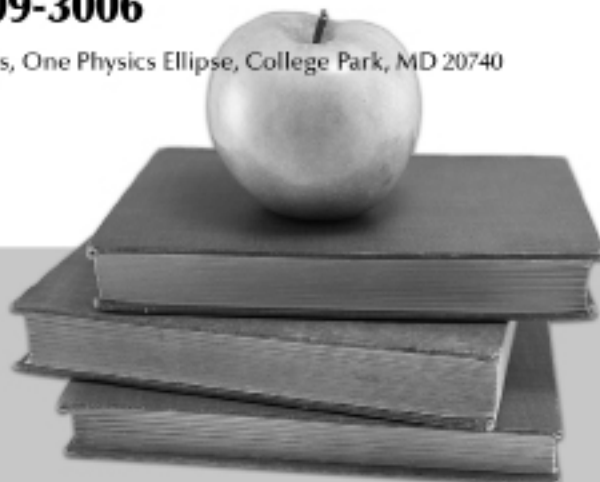
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