



Tycho Brahe, from the book Great Men of Science: a History of Scientific Progress, by Philip Lenard, New York: The Macmillan Co., 1933. Photo courtesy AIP Emilio Segrè Visual Archives, Brittle Books Collection.

Improved Online Visual Archives

by Heather Lindsay: Photo Administrator/Associate Librarian

The AIP History Center's Emilio Segrè Visual Archive (ESVA) went online in early 1999—a generation ago, as computer technology goes. Since then, our staff have made regular improvements in the interface while continually adding photographs. With more than 7000 images currently in its searchable database, the ESVA has become a powerful aid to anyone seeking visual materials on the history of physics, astronomy, geophysics and allied fields. We can now offer users the ability to download digital scans directly from the Web site, and process our service fees by credit card online. The improved efficiencies make savings that we can pass on to our customers: the ESVA, like all the Center's services, is essentially not-for-profit. In fact, it operates at a loss, with the difference made up by donations from the Friends of the Center for History of Physics

(continued on page 3)

Einstein Posts to the arXiv

By Bill Steele*

Cornell University's arXiv e-print service on the Web is a place to find reports on the latest research almost as soon as it happens. But as television networks are fond of saying, if you haven't seen it before, it is new, so it is appropriate that the arXiv now includes a previously obscure paper by a then up-and-coming young physicist named Albert Einstein.

The paper, "Theoretical Remark on the Superconductivity of Metals," was written in 1922 for a symposium honoring Dutch scientist Kamerlingh Onnes, the discoverer of superconductivity, and published by the University of Leiden in the proceedings of the symposium. And there, apparently, it remained largely unnoticed until this year, when it was rediscovered by Neil Ashcroft, the Horace White Professor of Physics at Cornell, and translated from German into English by Björn Schmekel, then a Cornell graduate student and now a postdoctoral researcher at the University of California-Berkeley.

The paper contains nothing revolutionary from the point of view of today's researchers in superconductivity, but it is, Ashcroft said, "a totally charming paper," with significant insights for its time. Among other things, Ashcroft said, Einstein correctly predicted that a strong magnetic field would destroy superconductivity, something verified later by experiment.

"It's just wonderful to know that the greatest scientist had an interest in this dramatic phenomenon," added Ashcroft, whose own research partly deals with superconductivity in metallic hydrogen.

The paper was discovered through a series of serendipitous events. Some years ago Ashcroft happened to be visiting Leiden when a retiring professor was cleaning out his office. The professor was about to throw away his personal collection of the old Leiden Communications (a journal devoted mainly to low-temperature physics), but Ashcroft arranged to have the books shipped to Cornell. Reading through these books, Ashcroft found hints that the Einstein paper existed, and he asked Patricia Viele, physics and astronomy librarian at Cornell's Edna McConnell Clark Physical Sciences Library, to try to locate it. Viele located it in a library in Europe. No English translation seemed to exist, so Ashcroft arranged for Schmekel to translate it. Schmekel then obtained permission from Leiden to copyright

(continued on page 2)

(Einstein Posts to the arXiv, continued from page 1)

the English translation and submitted it to the history of science section of the arXiv, where it can be found at http://arxiv.org/find/physics/1/au:+Einstein_A/0/1/0/all/0/1.

Ashcroft cautions that this may not be a true first. “Scientists in Germany must surely have known about this paper, and some may have produced translations for English-speaking colleagues,” he speculated, adding that he has asked several Europeans to search further.

The arXiv e-print service, maintained by Cornell University Library, is a repository where physicists, mathematicians, astronomers and some biologists post reports of their research as soon as they are available, in advance of

publication in professional journals. *Reprinted from the Cornell Chronicle, November 2005. Copyright © 2005 Cornell University, used by permission.

URL for this search is: http://arxiv.org/find/physics/1/au:+Einstein_A/0/1/0/all/0/1 **Title:** Theoretical remark on the superconductivity of metals. **Authors:** Albert Einstein **Comments:** Translation of Albert Einstein’s article “Theoretische Bemerkungen zur Supraleitung der Metalle”, Gedenkenboek aangeb. aan H. Kamerlingh Onnes, eaz. Leiden, E. IJdo, 1922 (page 435) Translated by Bjoern S. Schmekel with the courtesy of the Kamerlingh Onnes Laboratory, Leiden-Institute of Physics, Leiden University. **Subject-class:** History of Physics; Superconductivity.

John Heilbron Recipient of Pais Prize

Report from the Chair

The 2006 Pais Prize for History of Physics, awarded jointly by the American Physical Society and the American Institute of Physics, has gone to John L. Heilbron, Professor Emeritus of History and History of Science at the University of California at Berkeley and a Member of the Modern History Faculty of the University of Oxford and Senior Research Fellow in the Oxford Museum for History of Science and Worcester College, Oxford. He receives this award “For his ground-breaking and broad historical studies, ranging from the use of renaissance churches for astronomy, through 17th and 18th century electrical science, to modern quantum mechanics.”

Heilbron was educated at the University of California at Berkeley, where he received A.B. and M.A. degrees in physics in 1955 and 1958 and a Ph.D. degree in history in 1964 under Thomas S. Kuhn. After a term as Assistant Director of the Sources for History of Quantum Physics Project, he began his academic career as an Assistant Professor of History at the University of Pennsylvania (1964-1967) and then returned to Berkeley, rising through the academic ranks to become Professor and Director of the Office for the History of Science and Technology in 1973; among his post-doctoral students there was Spencer Weart, current Director of the AIP Center for History of Physics. Heilbron became Class of 1936 Professor of History and History of Science in 1985, and Professor Emeritus in 1994. He also served as Vice Chancellor of the University of California at Berkeley from 1990 to 1994. Since 1996 he has been a Member of the Modern History Faculty of the University of Oxford and Senior Research Fellow in the Oxford Museum for History of Science and Worcester College, Oxford.

Heilbron’s publications on the history of physics have been groundbreaking and of astonishing breadth. As one writer said, “his major books deal with a stunning variety of subjects including electricity in the 17th and 18th centuries, Max



John Heilbron, is the winner of the 2006 APS/AIP Prize for History of Physics. Photo courtesy of APS.

Planck and his moral dilemmas, the use of churches in early modern Europe as solar observatories, the development of geometry, Henry Moseley, and Ernest Lawrence and his laboratory.” These works, and the large number of papers he has published, are uniformly of outstanding quality and display an ability to deal with the technical aspects of science as well as the social, political, and institu-

tional contexts in which science has been pursued in the past. His book, “The Sun in the Church: Cathedrals as Solar Observatories,” (Harvard University Press, 1999), was awarded the Pfizer Prize of the History of Science Society, its highest book award, in 2001.

Simultaneously with producing this splendid body of work, Heilbron has enthusiastically and effectively taught many undergraduate and graduate courses and has directed a variety of doctoral dissertations. He also has edited, for the past 25 years, Historical Studies in the Physical Sciences (which he expanded in 1986 to include the biological sciences), one of the leading journals in the history of science. As an editor he has had an enormous and beneficial influence on work done in the history of physics, both because he has published only work that meets his own exacting standards, and because of his legendary critical and clarifying editorial comments and revisions of the papers he has published in this journal.

(Improved Online Visual Archives, continued from page 1)

and the ESVA's Endowment Fund, established by Rosa Segrè in honor of her late husband, the noted physicist, historian of physics, and amateur photographer Emilio Segrè.

The initial ESVA Web site was designed so that researchers could look up photographs using name and/or keyword, and then submit an order for a reproduction by contacting the ESVA staff. An online form provided a quick way to send the staff an order by e-mail. The Web forms that the staff used to enter photo data and upload photos to the Web site were accessible only to AIP's information technology staff, so making changes was a lengthy process. The database for photo orders was separately maintained, generating an invoice which was then sent to the accounting department, who entered it into yet another system. Thus every photograph had to be cataloged twice, once in the online database viewed by customers and once in the photo-orders database. Orders were also entered twice, once in the photo-orders database and once in the accounting system. As usual with such patched-together systems, staff could not maintain complete consistency among all the data entries.



L-R: William Fowler, Donald Clayton and Maarten Schmidt in Fowler's office in Kellogg Radiation Laboratory at California Institute of Technology, February 1967. Photo courtesy AIP Emilio Segrè Visual Archives, Clayton Collection.

In 2001 the online catalog began to malfunction due to a server "upgrade." Meanwhile AIP decided to develop a broad e-commerce initiative for all its work, and chose an Oracle database system with an online "Store" interface. The ESVA was chosen as a pilot project, due to the complicated nature of the data and the variety of transactions involved. AIP's technical staff felt that if Oracle could handle the ESVA, it could easily handle AIP's other products.

Unfortunately, we eventually realized that the Oracle implementation could not handle the ESVA well (nor even some simpler

tasks). The online store functioned, but it required frequent personal help for order problems and other troubleshooting. The online store ended up duplicating the same unwieldy system as before: we were still cataloging photos in two databases and entering orders in two different systems.



Russian 680 MeV Cyclotron, DUBNA Synchroclotron USSR, 1963, courtesy AIP Emilio Segrè Visual Archives. The Lawrence Jones Collection.

Toward the end of 2004, AIP realized that the Oracle online store system was not working and was too expensive to maintain. Management elected to try a new online e-commerce system employing open source software, called MerchantSpace (now ElasticPath). Once again, the ESVA was chosen as the test case. This new store system, while unable to function as a database for the photo data, could interface easily with standard Microsoft SQL Server database software.

The Microsoft SQL Server database is basically a more robust version of MS Access software, which we were already using for our photo-order database, so we seized upon the chance to finally merge all of the photo data into one database.

After time-consuming detailed data cleanup we were able to complete the merger. As an added bonus, we can now directly access all the data ourselves, so we can update and change any aspect of it as needed. With complete integration, the orders go directly from the users to our accounting department, cutting out entry duplication.

Meanwhile, with extensive help from AIP's technical staff, we completely redesigned and streamlined the ESVA Web site's interface with users. Rather than describe it here, we urge you to take a look at <http://photos.aip.org/>. We would welcome your comments. We have found that for some users, the search facility is not intuitively easy, and we will continue to troubleshoot and upgrade the online interface as we receive feedback.

The Archives for the History of the Max Planck Society

By Marion Kazemi, *Archiv Zur Geschichte der Max-Planck-Gesellschaft*

The Max Planck Society for the Advancement of Science (MPS) is probably one of the most well known German scientific research organizations. It promotes basic research in the natural sciences, life sciences, social sciences, and the humanities, primarily in its own 78 institutes.

The Archives for the History of the Max Planck Society started their work thirty years ago in the former Kaiser Wilhelm/Max Planck Institute (KWI/MPI) for Cell Physiology in Berlin-Dahlem, which was part of West Berlin at the time. Five years ago, the Archives were extended through the utilization of additional storage space in the former accelerator tower of the KWI for Physics next door.

The main aims of the Archives are the preservation of documents of historic interest for the Max Planck Society for the Advancement of Science (founded in 1948) and for its predecessor organization, the Kaiser Wilhelm Society (founded in 1911) as well as making such documents available for research (currently approx. 3.5 shelf kilometers).

Documents include records from the Administrative Headquarters and the governing bodies of the Society, as well as those from the institutes, individual departments, research units and working groups. Another major focus of the Archives is on preserving the personal papers of outstanding personalities who were once active with the Kaiser Wilhelm or Max Planck Society, among them several Nobel laureates. We also keep the building plans and drawings of the institutes. These holdings are complemented by a number of person- or subject-related



The "Atom smasher" of the Kaiser Wilhelm Institute for Physics, in the 1930's. Photo courtesy of the Max Planck Society for the Advancement of Science (MPS).



The Archives for the History of the Max Planck Society at Berlin-Dahlem, in the building of the former Kaiser Wilhelm Institute/Max-Planck Institute for Cell Physiology, with the former Kaiser Wilhelm Institute for Physics behind. Both institutes were built with funds from the Rockefeller Foundation in 1930 resp. 1936/37. The round tower once housed a cascade generator: since 1999 it serves as stockroom for the Archives. Photo courtesy of the Max Planck Society for the Advancement of Science (MPS).

collections, autographs, manuscripts, certificates, prize medals, a major collection of audiovisual materials (about 70,000 photographs as well as films and tapes), as well as museum pieces and additional documentation material related to the history of the Max Planck Society and its members, such as collections of news-paper cuttings and so-called grey literature.

While the Administrative Headquarters and the Society's bodies turn over those of their records which they no longer need; institutes, individual departments, research units or working groups generally do not make their records available to the Archives until their closure. On the deaths of directors or Scientific Members of the Max Planck Society, the Archives enquire with the families and institutes if they can obtain the personal papers. In most cases there are no problems in acquiring such papers, sometimes as a deposit rather than a gift. In the past few years we have often successfully contacted Scientific Members before their retirement to enquire if they wish to entrust their papers to the Archives during their lifetime. Today, we keep the papers of 220 people in our Archives, of which more than a quarter are still alive. Among them we keep those of 11 Nobel Laureates, including Walther Bothe, Peter Debye, Otto Hahn, Max von Laue, Ernst Ruska, and collections of Albert Einstein and Max Planck, whose papers were destroyed in World War II.

The records of the institutes and Administrative Headquarters are available to historians thirty years after their initial inclusion, with the exception of personnel files. Access to personal archives is restricted until thirty years after the death of the individual unless otherwise agreed on during their lifetime. To access the papers of living scientists, the latter's permission is required.

Most of the holdings relevant to the history of physics and related disciplines are kept in the personal archives, but there are also records of some individual institutes that should be of interest. It should be noted that most of the institutes carry out interdisciplinary research, *i.e.* chemical institutes often have physics departments or physicists working there. One of the most important institutes is the KWI for Physics, whose first director—until his emigration to the United States in 1932—was none other than Albert Einstein, followed by Peter Debye and Werner Heisenberg; Max von Laue was deputy director. The Archives keep a small autograph collection of Albert Einstein as well as the office papers of Debye and von Laue. While the records of the MPI for Physics (as well as for the MPI for Astrophysics/ MPI for Extraterrestrial Physics originating from it) are not yet in the Archives, we possess the personal papers of the directors and Scientific Members Ludwig Biermann, Gerd

Buschhorn, Hans-Peter Dürr, Klaus Gottstein, Reimar Lüst, Norbert Schmitz, Ulrich Stierlin, Eleonore Treffitz, and Carl Friedrich Freiherr von Weizsäcker. For editorial reasons, the archive of Werner Heisenberg is still kept in the MPI for Physics in Munich.

The Archives also contain files from the Aerodynamical Research Institute of the KWG/MPG and the KWI/MPI for Flow Research, temporarily affiliated to it, next to the papers of the directors and Scientific Members Albert Betz, Ernst Kleinschmidt, Kurt Kraemer, Ernst-August Müller, Ludwig Prandtl, Hans Reichardt, Walter Tollmien, and Georg Vogelpohl.

The MPI for Plasma Physics has made some of its older records available to us. These papers are completed by the papers of Karl-Heinz Schmitter.

The Archives have only a few records from the KWI for Physical Chemistry and Electrochemistry (renamed Fritz Haber Institute in 1953), but have obtained the personal papers of Jochen H. Block, Karl Friedrich Bonhoeffer, Gerhard Ertl, Heinz Gerischer, Rolf Hosemann, Max von Laue, Ernst Ruska as well as collections from Fritz Haber and Rudolf Ladenburg.

What has survived from the KWI for Chemistry are mainly the correspondence and personnel files of the department of Otto Hahn and Lise Meitner. There is a collection on Meitner whose letters to Otto Hahn are kept in his archive.

Physical research is also carried out in the KWI/MPI for Metals Research. In addition to some institute records, the Archives have received the papers of Hellmut Fischmeister, Emil Heyn, Werner Köster, and Ernst Schiebold. We acquired the papers of Heinz Bilz and Ludwig Genzel from the MPI for Solid State Research. The MPI for Aeronomy (since 2005: MPI for Solar System Research) is represented by the papers of Erich Regener and Sir Ian Axford.

The archives of the radiation physicists Karl Wilhelm and Isolde Hausser (both Institute for Physics of the KWI/MPI for Medical Research) are preserved, just as are those of their son Karl Hermann Hausser, who was elected as a Scientific Member of the MPI some decades later.

The most well known scientist of this institute (which later became an institute itself, the MPI for Nuclear Physics) is Nobel Laureate Walther Bothe. The Archives are in possession of his papers as well as those of his successor Wolfgang Gentner and those of Hugo Fechtig, Hans A. Weidenmüller, and Heinrich J. Völk. The field of Astronomy is represented by the papers of Peter G. Mezger and Richard Wielebinski.

This is only a short survey of the holdings of interest to the history of physics. More detailed information can be found on the MPG Archives Web site: www.archiv-berlin.mpg.de. (The Web site is now also available in English.) Or contact Dr. Marion Kazemi, at e-mail: kazemi@archiv-berlin.mpg.de.

Jet Propulsion Laboratory (JPL) the Lead NASA Center for Robotic Exploration

by Margo E. Young

The Jet Propulsion Laboratory (JPL) is a federally funded research and development facility managed by the California Institute of Technology (Caltech) for National Aeronautics and Space Administration (NASA). JPL is justly famed as the lead NASA center for robotic exploration of the solar system, and its archives contain a wide range of materials useful to historians of the space sciences and allied fields.

JPL began as an off-shoot of Caltech's GALCIT (Guggenheim Aeronautical Laboratory) and did work for the Army, beginning with jet-assisted take-off rockets and moving on to aerodynamics and propellant chemistry, resulting in the Corporal missile. JPL built and operated Explorer 1, the first satellite launched by the United States. JPL designed and built the satellite in less than three months. The primary science instrument on Explorer 1 was a cosmic ray detector, which led to the discovery of the Van Allen Belts.

Shortly after NASA was created in 1958, JPL was transferred to the new agency. JPL was involved in lunar exploration almost immediately with the Ranger and Surveyor missions to the moon. Surveyor 3 carried an electromechanical scoop device with which scientists were able to dig four trenches by remote control, scoop up samples of lunar soil, perform eight static bearing tests by pressing the scoop against the lunar surface, and 14 impact tests. These tests confirmed (contrary to what some scientists had feared) that the lunar surface could support a landing craft and that astronauts would be able to walk on the Moon. The JPL Archives has a collection of project documents and images from Surveyor.



Explorer 1 satellite payload, technicians lowered the Explorer 1 satellite payload onto the launch vehicle's fourth stage motor. The photo was taken in the gantry at Launch Complex 26, Patrick Air Force Base, Florida, on January 20, 1958. Photo courtesy NASA/JPL-Caltech.

America's first successful planetary mission, Mariner 1962 to Venus, was also a JPL mission. Later Mariners included Mariner Mars 1969 with two spacecraft (Mariner 6 and 7) designed to fly by Mars, analyze the atmosphere and surface with remote sensors, and take pictures of the equator and south pole of the planet. Archival collections include the Spacecraft Design Book and the Status Bulletins from the Mariner missions.

The JPL Archives has records from many other projects: Viking orbiters to Mars (1975); Voyager twin spacecraft (1977) visited Jupiter, Saturn while Voyager 2 went on to Uranus and Neptune; Magellan to Venus (1989); Galileo to Jupiter (1989); Ulysses (1999) to study the sun's poles, and Mars Pathfinder (1997) whose rover, Sojourner, roved Mars for almost 3 months. The JPL Archives also has project collections for some of JPL's failed missions: Mars Observer (lost in 1993) and Mars Climate Orbiter (1999).

In addition to collections of project documents, the JPL Archives has collections relating to the administrative history of JPL, extensive image collections, and over 100 oral histories. Cargill Hall, JPL's first historian, began the History Collection now in the Archives. Within this collection are materials on Army Ordnance projects such as Corporal and Sergeant; NASA flight projects, including Ranger, Surveyor, and Mariner; other JPL activities; and material generated by organizations other than JPL but relevant to JPL's activities.

The JPL Archives was established by Michael Q. Hooks in 1989 with the mission of documenting the history of the Laboratory's flight projects, research and development activities, and administrative operations. The primary holdings are listed on the BEACON Archives Web site at <http://beacon.jpl.nasa.gov>. The Web site also features the *Archives' Historical Photo of the Month*, from which the image accompanying this article was selected.

In the past two years, the JPL Archives has been revamping its approach to processing in order to make more of its materials accessible. High priority accessions are listed in the online, publicly accessible catalog and include contents lists as provided by the donor. Catalyzed by the Greene and Meissner article in *American Archivist* in 2005, our processing approach will continue to evolve.

For more information, contact Margo E. Young, NASA, e-mail: margo.e.young@jpl.nasa.gov.

Recent Publications of Interest

Compiled by Babak Ashrafi

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 map: www.aip.org/history/s-indx.htm

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

Stephen Cole's "Weather on Demand" in the Fall 2005 issue of **American Heritage of Invention and Technology** is about controlling weather from Langmuir to the present.

The **American Journal of Physics** has several interesting articles including Jeremy Bernstein's "Max Born and the Quantum Theory" and Frieda A. Stahl's "Frances Whiting: A Foremother of American Women Physicists" in Issue 11 of Vol. **73**, November 2005. Issue 2 of Vol. **74** contains an erratum to Bernstein's article on Born as well as Jay M. Pasachoff's discussion of "Student Knowledge of Physics History," J. H. Hannay's "Carnot and the Fields Formulation of Elementary Thermodynamics" about the original formulation of thermodynamics, and Ralph Baierlein's article, "Two Myths about Special Relativity," about Einstein's use of the phrase "the constancy of the speed of light."

Daniela Monaldi writes about how the study of meson decay shaped some of the basic concepts of particle physics in her "Life of μ : The Observation of the Spontaneous Decay of Mesotrons and its Consequences, 1938-1947," in **Annals of Science**, Vol. **62**, No. 4.

Unexpected developments beginning with cosmic ray experiments of the 1940's and 50's are the topic of "From Pions to Proton Decay: Tales of the Unexpected," by D.H. Perkins, in **Annual Review of Nuclear and Particle Science**, Vol. **55**.

The October 2005 issue of **Astronomy Magazine** has "The Accident that Saved the Big Bang" by James Trefil, about the discovery of the cosmic microwave background. The December 2005 issue has "The Man who Doubled the Sky," by Robert Zimmerman, about John Herschel's trip to South Africa to map the southern sky. The January 2006 issue has "The Woman who Cracked the Stellar Code," by C. Renee James, about Cecilia Payne-Gaposchkin. The February 2006 issue has "More than a One-Hit Wonder," by Dan Falk, about Clyde Tombaugh.

Anne O'Connor examines professionalization in nineteenth-century science in "The Competition for the Woodwardian Chair of Geology: Cambridge, 1873" in Vol. **38** of **The British Journal for the History of Science**.

André Heck writes about "Strasbourg Observatory: A Multi-national History," in the July/August 2005 issue of **Mercury**, Vol. **34**, No. 4.

Dieter Hoffman writes a critical appraisal of Robert Rompes in "Die Graue Eminenz der DDR-Physik" in **Physik Journal**, Vol. **4**, No. 10.

"Lessons Lost" is the depressing title of Joseph Cirincione's article in Vol. **61**, No. 6 of the **Bulletin of the Atomic Scientists**, about 60 years of attempts to contain the nuclear threat.

Vol. **47** of **Centaurus**, Issue 3, has "National Styles? Jacques Loeb's Analysis of German and American Science around 1900

in his Correspondence with Ernst Mach.” Issue 4, has Jaime Navarro’s “J. J. Thomson on the Nature of Matter: Corpuscles and the Continuum.”

Vol. 96 of *Isis* contains “Cartographic Inscription and Exploration Narrative in Late Victorian Representations of the Red Planet,” by K. Maria and D. Lane; “The Influence of Niels Bohr on Max Delbrück: Revisiting the Hopes Inspired by ‘Light and Life’,” by Daniel J. McKaughan; and “On the Co-Creation of Classical and Modern Physics,” by Richard Staley.

Vol. 35, No. 2 of **Historical Studies in the Physical and Biological Sciences** has “Neutron Physics in the Early 1930s” by Alberto G. de Gregorio. Vol. 36, No. 1 has “Ellen Gleditsch: Duty and Responsibility in a Research and Teaching Career, 1916-1946,” by Annette Lykknes, Lise Kvittingen, and Anne Kristine Børrensen, about Norway’s first authority on radioactivity; “Ions, Electrometers, and Physical Constants: Paul Langevin’s Laboratory Work on Gas Discharges, 1896-1903,” by Benoit Lelong; “The Politics of Phosphorus-32: A Cold War Fable Based on Fact,” by John Krige; “From White Elephant to Nobel Prize: Dennis Gabor’s Wavefront Reconstruction,” by Sean F. Johnston; and “Science and Exile: David Bohm, the Cold War, and a New Interpretation of Quantum Mechanics,” by Olival Freire Jr. Sean F. Johnston also has “Attributing Scientific and Technological Progress: the Case of Holography,” in **History and Technology**, Vol. 21, No. 4.

“The Education of an Astronomical Maverick: T. J. J. See and the University of Missouri,” by Charles J. Peterson, appears in Vol. 35, Part 3, of **Journal of the History of Astronomy**. “Jules Janssen’s ‘Revolver Photographique’ and its British Derivative, ‘The Janssen Slide’,” by Françoise Launay and Peter D. Hingley, appears in Vol. 36, Part 1.

The first systematic study of weights and measures in the U.S. is the topic of Albert C. Parr’s “A Tale about the First Weights and Measures Intercomparison in the United States in 1832,” in the **Journal of Research of the National Institute of Standards and Technology**, Vol. III, No. 1.

Shaul Katzirl’s “Poincaré’s Relativistic Physics: Its Origins and Nature,” Dieter Hoffmann’s “Between Autonomy and Accommodation: the German Physical Society during the Third Reich,” and Robert P. Crease’s “Quenched! The ISABELLE Saga,” all appear in Vol. 7, No. 3 of **Physics in Perspective**.

Richard Noakes describes “Ethers, Religion and Politics in Late-Victorian Physics: Beyond the Wynne Thesis,” in **History of Science**, Vol. 43, Part 4.

Vol. 59, No. 3 of the **Notes and Records of the Royal Society** offers “Newton’s Calendar, Einstein and 340 Years of Philosophical Transactions,” by Terry Quinn; “Einstein: the Classical Physicist,” by J.S. Rowlinson; “Lawrence Bragg’s Role in the Development of Sound-Ranging in World War I,” by William Van der Kloot; and “Science in the Nineteenth-Century

Nobody could think of extemporizing lessons on, say, Greek history or the history of German literature, but one finds it quite natural that a professor of mathematics for instance, starts a series of lectures on the history of mathematics without any serious preparation. This is another proof of the low esteem in which History of Science is held.

—George Sarton, 1916

Periodical: An Electronic Index,” by Richard Noakes. Vol. 60, No. 1 offers “Recollection. The Nature and Origin of Multiplex Fourier Spectrometry,” by P. B. Fellgett.

Daniel Kennefick writes about peer review in “Einstein Versus the Physical Review” in the September 2005 issue of **Physics Today**. The October 2005 issue focuses on Hans Bethe. It is edited by Kurt Gottfried and contains “The Happy Thirties,” by Silvan S. Schweber; “Stellar Energy Generation and Solar Neutrinos,” by John N. Bahcall and Edwin E. Salpeter; “Hans Bethe and Quantum Electrodynamics,” by Freeman Dyson; “Hans in War and Peace,” by Richard L. Garwin and Kurt Gottfried; “Hans Bethe and the Theory of Nuclear Matter,” by John W. Negele; and “Hans Bethe and Astrophysical Theory,” by Gerald E. Brown. The November 2005 issue has Steven Weinberg’s “Einstein’s Mistakes.” The December 2005 issue has “Albert Einstein as a Philosopher of Science,” by Don A. Howard, and “Ludwig Prandtl’s Boundary Layer,” by John D. Anderson Jr. The January 2006 issue celebrates Benjamin Franklin’s 300th birthday with “Oil on Troubled Waters: Benjamin Franklin and the Honor of Dutch Seamen,” by Joost Mertens, and “Benjamin Franklin and Lightning Rods,” by E. Philip Krider. The March 2006 issue has “Fifty Years of Seeing Atoms,” by Tien T. Tsong, and “Two Hundred Years of Capillarity Research,” by Yves Pomeau and Emmanuel Villemaux.

Lynn Yarris recounts “Fifty Years of Antiprotons” in the November 2005 issue of the **CERN Courier**.

Matthew Stanley describes “Explorer of Stars and Souls: Arthur Stanley Eddington” in the September 2005 issue of **Physics World**. Andrew Robinson describes “Thomas Young: Physicist, Physician and Polymath” in the March 2006 issue.

V. B. Braginsky writes about “Geometry and Physics after 100 Years of Einstein’s Relativity,” which was a meeting held in Germany in April 2005, in Vol. 48, No. 6 of **Physics-Uspekhi**. G. E. Gorelik writes about “Matvei Bronstein and Quantum Gravity: 70th Anniversary of the Unsolved Problem,” in No. 10 of the same volume. No. 11 contains “One Hundred Years of the Photon,” by V. P. Milant’ev, and G. A. Goncharov celebrates the first Soviet two-stage thermonuclear charge in “The Extraordinarily Beautiful Physical Principle of Thermonuclear Charge Design.” No. 12 contains more about the history of Soviet nuclear weapons in “Moscow State University Physics Alumni and the Soviet Atomic Project,” by G. V. Kiselev, as well as “‘Prout’s Law’ and the Discovery of Argon,” by A. A. Matyshev.

“Onsager and the Theory of Hydrodynamic Turbulence,” by Gregory L. Eyink and Katepalli R. Sreenivasan, appears in Vol. 78 of **Reviews of Modern Physics**.

L. Bonolis takes us “From the Rise of the Group Concept to the Stormy Onset of Group Theory in the New Quantum Mechanics. A Saga of the Invariant Characterization of Physical Objects, Events and Theories,” in **Rivista del Nuovo Cimento**, Vol. 27, No. 4-5.

Diego Hurtado de Mendoza and Miguel de Asúa write about the reception of relativity in Argentina in “The Poetry of Relativity: Leopoldo Lugones’ the Size of Space,” in **Science in Context**, Vol. 18. The same volume also offers “Poor Taste as a Bright Character Trait: Emmy Noether and the Independent Social Democratic Party,” by Colin McLarty; “An Astronomical Road to General Relativity: The Continuity between Classical and Relativistic Cosmology in the Work of Karl Schwarzschild,” by Matthias Schemmel; and “Moving Objects, Moved Observers: On the Treatment of the Problem of Relativity in Poetic Texts and Scientific Prose,” by Ulrich Stadler.

Chunglin Kwa examines the impact of the interdisciplinary cooperation in “Local Ecologies and Global Science Discourses and Strategies of the International Geosphere-Biosphere Programme,” in Vol. 35, No. 6 of **Social Studies of Science**.

Hasok Chang and Sabina Leonelli write part 2 of their “Infra-red Metaphysics: Radiation and Theory-Choice,” in Vol. 36, issue 4 of **Studies in History and Philosophy of Science**. Vol. 37, issue 1 celebrates “The Centenary of Einstein’s Annus Mirabilis.” This issue is edited by M. Janssen and contains “The Turning Point for Einstein’s Annus Mirabilis,” by Robert Rynasiewicz and Jürgen Renn; “Insuperable Difficulties: Einstein’s Statistical Road to Molecular Physics,” by Jos Uffink; “Atoms, Entropy, Quanta: Einstein’s Miraculous Argument of 1905,” by John D. Norton; “Confusion and Clarification: Albert Einstein and Walther Nernst’s Heat Theorem, 1911-1916,” by A.J. Kox; “Einstein’s Impact on the Physics of the Twentieth Century,” by Domenico Giulini and Norbert Straumann; and “Another Look at General Covariance and the Equivalence of Reference Frames,” by Dennis Dieks.

Vol. 31, No.1 of **Science, Technology & Human Values** has “Ozone and Climate: Scientific Consensus and Leadership,” by Reiner Grundmann.

Mathias Frisch writes about “Mechanisms, Principles, and Lorentz’s Cautious Realism” in **Studies in History and Philosophy of Modern Physics**, Vol. 36, Issue 4.

Documentation Preserved

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/web-news.htm.

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Oral history interview with **William A. Fowler**. Session Dates: May 3, 1983 - May 31, 1984. Transcript: 154 pages. Restriction: Permission to quote or cite required from CalTech.

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Sir Hermann Bondi Papers. Size: 109 Archive boxes.

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Felix Hans Boehm Oral History Interview. Session Date: 1999. Transcript: 65 pages.

Roy Gould Oral History Interview. Session Dates: March 1 - April 10, 1996. Transcript: 106 pages. Restrictions: Permission to quote or cite required from CalTech.

Robert L. Walker Papers. Size: 6 linear feet.

Hertha Gutenberg Oral History Interview. Session Dates: February 6 - February 13, 1980. Transcript: 43 pages. Restrictions: Per-

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—Frederick L. Holmes

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Rudolph A. Marcus Papers. Collection Dates: 1951-2001. Size: 20 linear feet.

John Schwarz Oral History Interview. Session Date: 2000. Transcript: 94 pages.

Robert Sharp Papers. Collection Dates: 1933-1996. Size: 19 linear feet.

Gerald Wasserburg Papers. Size: 100 linear feet. Restrictions: Collection is partially processed.

James Westphal Oral History Interview. Session Date: 1998. Transcript: 199 pages.

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Joseph P. Allen Speech "Physics at the Edge of the Earth". Collection Date: 1988. Size: 1 audiocassette.

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Robert G. Parr Papers. Collection Dates: 1941-2003. Size: 69 linear feet. Restrictions: A limited number of files are restricted due to their confidential academic nature—these files are notated as such in the finding aid.

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Study team for the Bellinghousen Solar Eclipse, May 30, 1965. L-R: Spencer Weart, Jim Faller, John Malville, Jack Brandt, Jim Brault, Jack Eddy, John Jefferies, Frank Orrall, Paul Kellogg, Tau Mairau (with bird and bottle of Hinano), M. Drollet (with Lynda), Dave Hultquist, Jim Rosen, Bill Curtis, Bill Varbel (Cook), Serge Korff, Don Trumbo, Bill Livingston (not present). Photo courtesy AIP Emilio Segré Visual Archives, Jefferies Collection.

Charles Greeley Abbot Papers. Collection Dates: 1918-1920. Size: circa 200 items.

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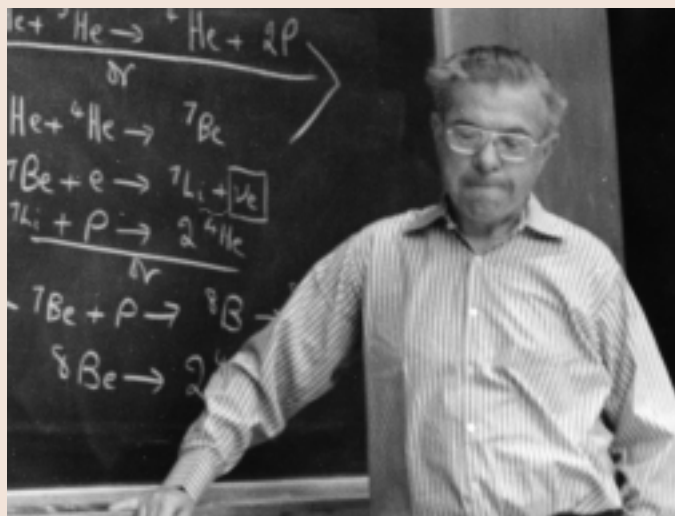
Thomas Wood Papers. Collection Dates: 1860-1920. Size: Circa 6 feet.

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Fred Hoyle lecturing at Rice University, March 1975. Photo courtesy AIP Emilio Segrè Visual Archives, Clayton Collection.

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Astronomical Journal Records. Collection Dates: 1896-1941. Size: 5 linear feet.

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Papers of **P.A.M. Dirac**. Collection dates: 1888-1999. Size: 190 linear feet. Restrictions: Two small groups of documents are restricted; until declassification of some World War II era papers occurs, they cannot be made available.

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Papers of **Kenneth Carr**. Collection dates: 1986-1991. Size: 171 manuscript boxes. Restrictions: Closed to researchers.

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Papers of **Victor Gilinsky**. Collection dates: 1943-1984. Size: 632 manuscript boxes, 1 oversize box, 3 envelopes, 12 slides.

Papers of **Richard Kennedy**. Collection dates: 1974-1980. Size: 92 manuscript boxes, 2 envelopes, 17 phonotapes, 2 video tapes.

Papers of **Robert LeBaron**. Collection dates: 1946-1983. Size: 4 manuscript boxes, 2 oversize boxes, 1 phonotape cassette.

Papers of **Karl Raimund Popper**. Collection dates: 1928-1987. Size: circa 575 linear feet. Restrictions: Boxes 582-583 closed until July 31, 2029.

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Oral history interview with **Nick Holonyak, Jr.** Session date: June 22, 1993. Transcript: 32 pages.

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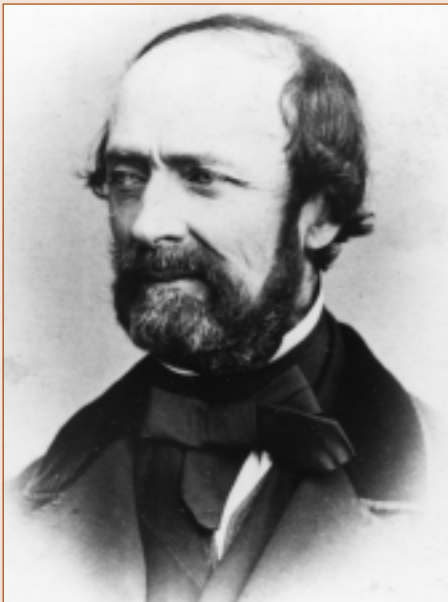
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Miscellaneous lectures and writings of **Lauriston Sale Taylor**. Collection dates: 1928-1978. Size: 7 volumes.

Oral history interview with **Lauriston Sale Taylor**. Session dates: December, 1986. Transcript: 88 pages.

Oral history interview with **Lauriston Sale Taylor**. Session dates: April 10, 1990. Transcript: 28 pages.

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— John Heilbron [“History as a Collaborator of Science”]

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Last year, Mildred Dresselhaus, first woman Chair of the American Institute of Physics' Governing Board and member of the Friends of the Center for History of Physics Development Committee, received the 11th Heinz Award for Technology, the Economy and Employment. The prize commended her for a body of scientific scholarship that has advanced the world's understanding of the multi-faceted field of carbon science, and blazed a trail of opportunity and inspiration for women in science.



*Photo courtesy Heinz Award photo, Jim Harrison photographer
 Dr. Mildred Dresselhaus received the 2005 11th Heinz Award for Technology, The Economy and Employment.*

In recognition of the value and quality of the work conducted by Center for History of Physics, Millie designated a share of the prize money to go towards our endowment.

"Throughout her career, Dr. Mildred Dresselhaus has combined significant scientific accomplishments and prominent leadership roles with an abiding commitment to support the advancement of women in the sciences," said Teresa Heinz Kerry, chairman of the Heinz Family Foundation.

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"Individuals can achieve great things, and the teacher of history ought to make this clear to his pupils. For without hope nothing of importance is accomplished." —Bertrand Russell

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Niels Bohr and grandson Christian Bohr

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Center for History of Physics Newsletter

Volume XXXVIII, No. 1

Spring 2006

TABLE OF CONTENTS

Improved Online Visual Archives	1
Einstein Posts to the arXiv	1
John Heilbron Recipient of Pais Prize	2
The Archives for the History of the Max Planck Society	4
Jet Propulsion Laboratory (JPL) the Lead NASA Center for Robotic Exploration	5
Recent Publications of Interest	6
Documentation Preserved	8
Mystery Photo	11
Friends of the Center for History of Physics	12
A Prize Gift to the Center's Endowment	14

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