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CURRICULUM VITÆ

Employment

Indiana University, Bloomington, 1990-present

Associate Professor, Department of History and Philosophy of Science, 1996-
Director of Graduate Studies, Department of History and Philosophy of Science, 1998-2005

Assistant Professor, Department of History and Philosophy of Science, 1990-96
Assistant Director, Program on Scientific Dimensions of Society, 1990-
Adjunct Faculty:

History Department, American Studies Program, Philanthropic Studies, School of Education

University of Maryland, College Park, 1986-89

Research Associate, Department of History
Principal Investigator, Goddard History Project, NASA History Office

Education

University of Pennsylvania, Philadelphia, Pa., 1980-86

Ph.D., History and Sociology of Science, 1986

A.M., History and Sociology of Science, 1982

Indiana University, Bloomington, Ind., 1976-79

B.A. with distinction, Honors in Psychology, 1979

Prizes and Honors

Trustees Teaching Award, Indiana University, 2006

Teaching Excellence Recognition Award, Indiana University, 1999

Joan Cahalin Robinson Prize, Society for the History of Technology, 1986

Prize for Best Graduate Student Paper, History of Psychology Division,
American Psychological Association, 1984

Phi Beta Kappa, 1979

Fellowships and Grants

College Arts & Humanities Institute Grant, 2005
 Wells Biography Project Grant, Chancellor's Office, Indiana University, 2003-2004
 Wells Centennial Web Site Project, Indiana University, 2002
 Wells Biography Project, Clio Grant, Indiana Historical Society, 2002-2003
 Wells Biography Project Grant, IU Arts & Humanities Initiative, 2001-2002
 Wells Biography Project Grant, Indiana University Foundation, 1999-2000
 Sigma Chi Scholars Program Grant, Indiana University, 1994
 Curriculum Development Grant, Center on Philanthropy, Indiana University, 1991-92
 Summer Faculty Fellowship, Indiana University, 1991
 Aerospace History Dissertation Fellowship, Air Force History Office, Washington, DC, 1985-86
 Mellon Graduate Fellowship, University of Pennsylvania, 1985-86
 Sigma Xi, Grant-in-Aid, 1984
 Rockefeller Archive Center, Grant-in-Aid, 1982
 National Science Foundation Graduate Fellowship, 1980-84

Publications

(* refereed work)

Book

* *Psychologists on the March: Science, Practice, and Professional Identity in America, 1929-1969* (New York/ Cambridge: Cambridge University Press, 1999).

Reviews:

American Historical Review, 2001, 106, 212-13 by Judith M. Hughes.
Annals of Science, 2000, 57, 322-23 by Kurt Danziger.
Bulletin of the History of Medicine, 2000, 74, 856-57 by Leila Zenderland.
Canadian Journal of History/Annales canadiennes d'histoire, 2000, 35, 184-86 by John A. Mills.
Contemporary Psychology, 2000, 45, 396-98 by Roger Smith.
Isis, 2000, 91, 637-38 by Donald S. Napoli.
Journal of American History, 2001, 87, 1589-90 by Theodore M. Brown.
Journal of the History of Medicine, 2000, 55, 437-39 by Jill G. Morawski.
Journal of the History of the Behavioral Sciences, 2000, 36, 46-49 by Richard T. von Mayrhauser.
Journal of the History of the Neurosciences, 2001, 10, 124-25 by Donald A. Dewsbury.
Lychmos, 2000, by Rikard Eriksson (in Swedish).
Nuncius, 2000, 15, 472-74 by Ferdinando Abbri (in Italian).
Revista Latinoamericana de Psicología, 2000, 32, 181-86 by Federico Sanabria (in Spanish).
Social History of Medicine, 2000, 13, 578-79 by Nadine Weidman.

Edited Monographs

Philip C. Bantin & James H. Capshew, eds., *The Wells Archive: Exploring the World of Higher Education* (Bloomington: Indiana University Libraries, 2000).

Eliot Hearst & James H. Capshew, eds., *Psychology at Indiana University: A Centennial Review and Compendium* (Bloomington: Indiana University Department of Psychology, 1988).

Articles

- * "Reflexivity Revisited: Changing Psychology's Frame of Reference," in M. G. Ash, ed., *Psychology's Territories: Historical and Contemporary Perspectives from Different Disciplines* (Hillsdale, NJ: Lawrence Erlbaum Associates, 2006).
- * "Kinsey's Biographers: A Historiographical Reconnaissance," *Journal of the History of Sexuality*, 2003, 12, 465-486. (with M.H. Adamson, P.A. Buchanan, N. Murray, N. Wake)
- "Psychology," *Dictionary of American History*, 3rd ed., Stanley I. Kutler, ed. (New York: Scribner's, 2003), 6: 523-526.
- * "Home Design for Indiana University: Herman B Wells and the Furnishing of the Campus," *Traces of Indiana and Midwestern History*, 2002, 14 (3), 28-39.
- "Alma Mater: Herman B Wells and the Rise of Indiana University," in P.C. Bantin & J.H. Capshew, eds., *The Wells Archive: Exploring the World of Higher Education* (Bloomington: IU Libraries, 2000), pp. 1-17.
- "The Yale Connection in American Psychology: Philanthropy, War, and the Emergence of an Academic Elite," in Theresa R. Richardson & Donald Fisher, eds., *The Development of the Social Sciences in the United States and Canada: The Role of Philanthropy* (Greenwich, Conn.: Ablex Publishing Corporation, 1999), pp. 143-154.
- * "Engineering Behavior: Project Pigeon, World War II, and the Conditioning of B. F. Skinner," *Technology and Culture*, 1993, 34, 835-857.
- Reprinted in Laurence D. Smith & William R. Woodward, eds., *B. F. Skinner in American Culture* (Bethlehem, Pa.: Lehigh University Press, 1996).
- Reprinted in Ludy T. Benjamin, Jr., ed., *A History of Psychology: Original Sources and Contemporary Research*, 2nd edition (New York: McGraw-Hill, 1996).
- * "Big Science: Price to the Present," *Osiris*, 1992, 7, 3-25. (with K.A. Rader)
- Co-published in Arnold Thackray, ed., *Science After '40* (Chicago: University of Chicago Press, 1992), pp. 3-25.
- * "Psychologists on Site: A Reconnaissance of the Historiography of the Laboratory," *American Psychologist*, 1992, 47, 132-142.
- "The Power of Service: World War II and Professional Reform in the American Psychological Association," in Rand B. Evans, Virginia S. Sexton, & Thomas C. Cadwallader, eds., *The American Psychological Association: A Historical Perspective* (Washington: American Psychological Association, 1992), pp. 149-175. (with E.R. Hilgard)
- "The Legacy of the Laboratory (1888-1988): A History of the Department of Psychology at Indiana University," in E. Hearst & J.H. Capshew, eds., *Psychology at Indiana University: A Centennial Review and Compendium* (Bloomington: Indiana University Department of Psychology, 1988), pp. 1-83.
- * "Networks of Leadership: A Quantitative Study of SPSSI Presidents, 1936-1986," *Journal of Social Issues*, 1986, 42 (1), 75-106.
- * "'We would not take no for an answer': Women Psychologists and Gender Politics During World War II," *Journal of Social Issues*, 1986, 42 (1), 157-180. (with A. Laszlo)
- * "Psychology at Indiana University: From Bryan to Skinner," *Psychological Record*, 1980, 30, 319-342. (with E. Hearst)

Essay Reviews

"Frankenstein," *Isis*, 1993, 84, 758-761.

"Constructing Subjects, Reconstructing Psychology," *Theory & Psychology*, 1992, 2, 243-247.

Miscellaneous

"Herman B. Wells, 7 June 1902-18 March 2000 - In memoriam (Memorial resolution of the Bloomington Faculty Council)," *Proceedings of the American Philosophical Society*, 2002, 146 (2): 225-228. (with G. E. Walker, D.J. Gray & H.H.H. Remak)

"Investing in Beauty: The Legacy of an Artful Genius," *The Ryder*, October 2001, pp. 10, 12.

"Remembering a Friend, Remembering a Legend," *Sunday Hoosier Times*, March 18, 2001, p. C8.

"Studying the History of Psychology at Indiana University," *History of Psychology*, 1999, 2, 66.

"Bryan, William Lowe," *American National Biography*, 1999, 3, 815-816.

"Jack D. Pressman" [obituary], *History of Psychology*, 1998, 1, 154-155.

"Indiana University in the Light of History," *Indiana Alumni*, 1994, (Nov/Dec), 4 pp.

Reprinted in the program for the installation ceremony of Sharon Stephens Brehm, IUB Chancellor, 10 October 2001.

"Introduction," in Emily Styron Duncan & Karen L. Perry, *Bloomington Environmental Quality Indicators* (Bloomington: Environmental Commission, 1994), 61 pp. (editor and contributor)

"'Jimtown'," in John Gallman, Rosann Greene, Jim Weigand, & Doug Wilson, eds., *Herman Wells Stories, As Told by his Friends on his 90th Birthday* (Bloomington: Indiana University Press, 1992), p. 10.

Students in Residence: At Home with Herman B Wells (Bloomington: Privately printed, 1991), 16 pp. (editor and contributor)

Book Reviews

Hunter Crowther-Heyck, *Herbert A. Simon: The Bounds of Reason in Modern America* in *Journal of American History*, in press.

L. T. Benjamin Jr. and D.B. Baker, *From Séance to Science: A History of the Psychological Profession in America*, in *Journal of the History of the Behavioral Sciences*, 2005, 41, 388-389.

Review of Lucy Jane King, *From Under the Cloud at Seven Steeples, 1878-1885*, in *Indiana Magazine of History*, 2004, 100, 388-389.

Review note of J. Schwarb, *The Little 500: The Story of the World's Greatest College Weekend*, in *Indiana Magazine of History*, 2002, 48, 258.

Review of K. Pandora, *Rebels within the Ranks: Psychologists' Critiques of Scientific Authority and Democratic Realities in New Deal America*, in *Journal of the History of the Behavioral Sciences*, 2001, 37, 197.

Review of D.W. Bjork, *B. F. Skinner: A Life*, in *Technology and Culture*, 1995, 36, 427-428.

Review of U. Geuter, *The Professionalization of Psychology in Nazi Germany*, in *Isis*, 1994, 85: 357-358.

Review of F.L. McGuire, *Psychology Aweigh! A History of Clinical Psychology in the United States Navy*, in *Isis*, 1994, 85, 188-189.

Review of H.M. Sapolsky, *Science and the Navy*, in *Isis*, 1992, 83, 170-171.

Review of J.F. Guilmartin, Jr. & J.W. Mauer, *A Shuttle Chronology 1964-1973*, in *Technology and Culture*, 1990, 31, 899-900.

Review of E.R. Hilgard, *Psychology in America*, and T.H. Leahey, *A History of Psychology*, in *Isis*, 1988, 79, 111-112.

Review of A.R. Gilgen, *American Psychology Since World War II*, in *Journal of the History of the Behavioral Sciences*, 1985, 21, 84-86.

Teaching Experience

Faculty Fellow, Human Biology Program, 2006

Member, Environmental Literacy and Sustainability Initiative (ELSI), 2003-

Assistant/ Associate Professor, Department of History and Philosophy of Science, Indiana University:

Undergraduate Courses

S103: Memoirs of Madness (Freshman Seminar)

X112: Traditions and Cultures of Indiana University (WWW course)

X220: Earth's Body: The Environment in Context

E103: Earth's Body: Environmental History and the Politics of Science (Intensive Freshman Seminar)

H263: Indiana University, Past and Present

X110: Scientists at Work: From Frankenstein to Einstein

S103: Scientists at Work: From Frankenstein to Einstein (Intensive Freshman Seminar)

X111: IU 101: Exploring the History and Traditions of Indiana University

S103: The University as Cultural Artifact (Intensive Freshman Seminar)

S102: Scientific Dimensions of Society

X369: History of American Science

P459: History and Systems of Psychology

Graduate Courses

X507: History of Science since 1800

X521: Research Topics in the History of Science

X705: Seminar on Big Science

X645: Seminar on History of American Science

X642: Seminar on History of Psychology

PhD committees chaired

Naoko Wake, "Private Practices: Harry Stack Sullivan, Homosexuality, and the Limits of Psychiatric Liberalism," PhD, History, 2005.

Matthew H. Adamson, "Commissariat of the Atom: The Expansion of the French Nuclear Complex, 1945-1960," PhD, HPS, 2005.

John H. Jones, "The Legacy of School Psychology: Toward a Reevaluation of Lightner Witmer (1867-1956)," PhD, School of Education, 2002.

Brad D. Hume, "The Naturalization of Humanity, 1776-1861," PhD, HPS, 2000.

Jordan D. Marché, II, "Theaters of Time and Space: The American Planetarium Community, 1930-1970," PhD, HPS, 1999. (Published as: *Theaters of Time and Space: American Planetaria, 1930-1970* by Rutgers University Press, 2005.)

Frederic W. Lieber, "The Legacy of Empathy: The History of a Psychological Concept," EdD, School of Education, 1995. (Awarded the School of Education Proffitt prize for the outstanding dissertation of the year)

Karen A. Rader, "Making Mice: C.C. Little, the Jackson Laboratory, and the Standardization of *Mus Musculus* for Research," PhD, HPS, 1995. (Published as: *Making Mice: Standardizing Animals for American Biomedical Research, 1900-1955* by Princeton University Press, 2004)

BA honors committee chaired

R. Paul Musgrave, "Fractional Reform: Herman Wells and Indiana Bankers," BA honors in History, 2004. (Author awarded: George Mitchell Scholarship; Herman B Wells Senior Recognition Award)

Editorial Work

History of Psychology (journal of Division 26, American Psychological Assn.), Consulting Editor, 1998-2004; Editor, 2005-

New Dictionary of Scientific Biography, Advisory Board, 2004; Subject editor for Psychology, 2005-

Journal of the History of the Behavioral Sciences, Editorial Board, 1998-2000

American Historical Review, Consultant on book reviews, 1992-95

Occasional manuscript and proposal reviewer: *Isis*; *Social Studies of Science*; *Journal of the History of the Behavioral Sciences*; *Social Problems*; *Smithsonian Institution Press*; *Science, Technology, and Human Values*; *Naval Historical Center*; *National Science Foundation*; *National Endowment for the Humanities*; *Indiana University Press*; *Indiana Magazine of History*; *Journal of American History*; *American Psychological Association Books*; *Blackwell Publishers*; *Journal of American History*; *Theory & Psychology*; *Harvard University Press*; *The Public Historian*

Professional Activities

Member, Advisory Committee, Research Fellowships Selection Committee, Archives of the History of American Psychology, University of Akron, 2002-

Organizer, Workshop on "Making Sense of Science, Past and Present," Indiana University, 1994

Participant, International Summer School in History of Science, Berkeley, Calif., 1992

Historian, Midwestern Psychological Association, 1989-

Founding Chair, Steering Committee, Forum for History of Human Science, 1988-90

Consultant, American Psychological Association Task Force on Centennial Celebrations, 1986-91

Archivist, Center for Advanced Study in the Behavioral Sciences, Stanford, Calif., 1984

Cheiron: The International Society for the History of the Behavioral and Social Sciences:

Featured author, book session, annual meeting, 2000

Session chair, annual meeting, 1998

Session chair, annual meeting, 1989

Symposium organizer, annual meeting, 1987

Session chair, annual meeting, 1986

Member, Review (ie, Executive) Committee, 1985-88; 1999-2002

Local arrangements organizer, annual meeting, 1985; 2001

Session organizer, annual meeting, 1985

European Society for the History of the Human Sciences

Panel discussant, annual meeting, 2006

Forum for History of Human Science:

Essay Prize Committee, 2000-01
Corresponding Secretary, 1991
Founding Chair, Steering Committee, 1988-90

Forum for the History of Science in America:

Member, Coordinating Committee, 1995-98

History of Science Society:

Session chair, annual meeting, 1997
Session chair, annual meeting, 1996
Session chair, annual meeting, 1995
Member, Committee on Research and the Profession, 1994-96
Liaison from Forum for the History of Science in America to the Cheiron Society, 1985-
Member, Coordinating Committee for Joint 4-Society Meeting, 1982

Society for the History of Technology:

Representative, Selection Committee, AHA Fellowship in Aerospace History, 1993-96

Society for Social Studies of Science:

Session organizer, annual meeting, 1983

Society for History in the Federal Government:

Chair, Henry Adams Prize Subcommittee, 1989
Member, Program Committee, 1986-88

American Association of University Professors:

Member, Executive Committee, Bloomington Chapter, 1996-97

Member:

Cheiron Society
European Society for the History of the Human Sciences
Forum for History of Human Science
Forum for the History of Science in America
History of Science Society
American Association of University Professors

Former Member:

History of Education Society
Society for Social Studies of Science
Society for the History of Technology
Society for History in the Federal Government
Indiana Historical Society

University Service

Member, Research Misconduct Investigation Committee, 2005

Member, Graduate Council, 2003-07

Member, Student Academic Center Review Committee, 2002

Member, Geography Department External Review Committee, 2001

Member, Hilltop Educational Foundation Board, 1999- 2004

Treasurer, 2000-01; Vice President, 2002; President, 2003-04

Member, Collins Living-Learning Center Curriculum Committee, 1999-2002

Advisor, Wells Scholars Program, 1998-

Member, Council for Environmental Stewardship, 1998-2004

Bloomington Faculty Council, Indiana University, 1997-2001; 2006-08

Member, Distance Education Committee, 2000-02; Co-chair, 2006-07

Co-chair, Library Committee, 2000-01; Member, 2001-02

Co-chair, Foundation Relations Committee, 1999-2000

Member, Individualized Major Program Faculty Committee, 1997-2002

Faculty Fellow, Collins Living-Learning Center, Indiana University, 1997-99

Member, Rhodes/Marshall Selection Committee, Indiana University, 1996, 1998, 2000, 2001, 2004, 2006

Faculty Representative, Indiana Memorial Union Board of Directors, Indiana University, 1996-99

Member, Committee on External Relations, Bloomington Faculty Council, Indiana University, 1995-96

Member, Governing Board, Institute for Advanced Study, Indiana University, 1993-96

Member, Organizing Committee, Workshop on "Science and Technology in the Developing World:

Liberation or Dependence?", Indiana University, 1992

Member, Lilly Library Faculty Advisory Committee, Indiana University, 1992-98

Member, Search and Screen Committee for Director of University Archives, Indiana University, 1992

Director of Admissions, Dept. History & Philosophy of Science, Indiana University, 1992

Member, Patten Foundation Committee, Indiana University, 1991-94; Chair, 1993-94

Civic Service

Member, Board of Directors, Farmer House Museum, 1999-

Member, Protect Griffy Alliance, 1999-2000

Member, Tree Commission, City of Bloomington, 1993-94; Co-chair, 1993-94

Member, Environmental Commission, City of Bloomington, 1991-2001; Chair, 1993

Certified Emergency Medical Technician, Indiana, 1991

Presentations (since 1990)

(* indicates invited address)

* "Herman B Wells: The Man, the Myth, and the Biography," Meadowood Retirement Center, Bloomington, IN, April 2005.

* "Herman B Wells, Roots and Branches," 19th Century Club meeting, Bloomington, IN, December 2004.

"Herman B Wells, Indiana University, and the Prehistory of the Black Culture Center," Association of Black Culture Centers annual meeting, Indiana University, November 2004.

* "Wells of Indiana: Domestic Demigod on Campus, Academic Statesman Abroad," Emeriti House, Indiana University, September 2004.

* "American Psychology Regnant: Popular Depictions of a Scientific Discipline in the 20th Century," Cheiron Society annual meeting, Akron, OH, June 2004.

* "Reflexivity Revisited: Changing Psychology's Frame of Reference," Berlin-Brandenburg Academy of Sciences, Berlin, July 2003.

"In Search of the Psychological Century," Cheiron Society annual meeting, Durham, NH, June 2003.

* "Professor Kinsey, President Wells, and Academic Freedom at Indiana University: Notes on the Early Years," AAUP Forum on Academic Freedom, Indiana University, February 2003.

Remarks on "Social Scientific Expertise and the Problem of Self: Prejudice, Cognition, and Authenticity in Post World War II America," American Historical Association annual meeting, Chicago, January 2003.

* "The President, the Patron, and the Librarians," Friends of the Lilly Library annual meeting, Indiana University, November 2002.

"Beyond the Standard View," Workshop on Teaching the History of Psychology, Cheiron Society annual meeting, Eugene, OR, June 2002.

"Home Design for Indiana University: Herman B Wells and the Furnishing of the Campus," School of Fine Arts noon talk series, Indiana University, October 2001.

"The Man Behind Kinsey," History and Philosophy of Science colloquium, Indiana University, October 2000.

* Remarks on Herman B Wells, The Wells Archive symposium, Indiana University, September 2000.

* Remarks on book session, "James Capshew's *Psychologists on the March*," Cheiron Society annual meeting, Gorham, ME, June 2000.

* "Herman B Wells," Lecture, Wells Scholars Program, Indiana University, January 2000.

* "Organized Philanthropy in Higher Education: A Case Study of the Indiana University Foundation," Seminar on the History of Philanthropy, Indiana University, October 1999.

"A Lucky Being: Herman B Wells in Historical Context," Continuing Studies Course N972, Indiana University, September-October 1999.

* "History of Indiana University," Lecture, IU Foundation Staff Awards Luncheon, May 1999; Rotary International, Bloomington, June 1999; University Club, Bloomington, January 2000.

"Learning from *Last Resort* by Jack Pressman," History of Science Society annual meeting, Kansas City, October 1998. (paper read in absentia)

* "Learning from Earth's Body," Conference on Ecology/Spirituality: No Separation, Bloomington, IN, September 1998.

* "Learning from the History of Psychology: Notes towards a Neuropsychological Pathography," Colloquium, Department of Psychology, Indiana University-Purdue University at Indianapolis, December 1997.

"Boring From Within," Cheiron Society annual meeting, Richmond, Va., June 1997.

* "Learning from the History of Psychology: Notes towards a Neuropsychological Pathography," Clinical Psychology Colloquium, Indiana University, April 1997.

* "A Case of Neurogenic Stuttering," Clinical Grand Rounds, Speech and Hearing Center, Indiana University, November 1996.

* Comments on "J.R. Kantor's Interbehavioral Psychology: Beyond Mechanism and Mentalism," Workshop, Cheiron Society annual meeting, Richmond, Ind., June 1996.

* "Scientists at Work, Indiana-Style," Lecture, Exploration of Careers in Science Summer Institute, Indiana University, June 1995.

* "Indiana University's 175th Year," Lecture, Mini University, Indiana University, June 1995.

* "The Yale Connection in American Psychology: Philanthropy, War, and the Emergence of an Academic Elite, 1930-1955," Conference on Rockefeller Philanthropy and the Development of the Social Sciences in Canada and the United States, University of British Columbia, April 1995.

"The Psychologists' War: Launching a Technoscientific Profession," American Historical Association annual meeting, Chicago, January 1995.

* "Learning from Frankenstein, in Words and Pictures," History of Science Society annual meeting, New Orleans, October 1994.

"Institutionalizing History and Philosophy of Science: People, Places, and Programs after 1945," Workshop on Making Sense of Science, Past and Present, Indiana University, September 1994.

* "History of Indiana University," Lecture, Admissions Office Retreat, Indiana University, June 1994; Meadowood Retirement Community, Bloomington, Ind., August 1994.

* Comments on "Science as a Socially Responsible Community" by Mark S. Frankel, Conference on Scientific (Mis)Conduct and Social (Ir)Responsibility, Indiana University, May 1994.

Comments on "Inducing Psychology Majors to Question Their Basic Assumptions," Panel Discussion, Midwestern Psychological Association annual meeting, Chicago, May 1994.

* "Indiana University, The Past in the Present," Lecture, Leadership Bloomington • Monroe County, Bloomington, Ind., October 1993.

"History, Traditions, and Spirit of Indiana University," Lecture, Mini University, Indiana University, June 1993.

* "History of Indiana University," Lecture, Business-Higher Education Forum, Indiana University, June 1993.

"Scientists at Work, Indiana-Style," Lecture, Freshman Orientation Program, Indiana University, August 1992.

* "Science and the Local Community: A Personal Perspective," Lecture, American Studies for University Educators, American Studies Program, Indiana University, July 1992.

"New Voices in the History of Psychology: Chorus or Cacophony?" Symposium, Midwestern Psychological Association annual meeting, Chicago, April 1992.

* "Constructing Subjects, Reconstructing Psychology," Symposium, Cheiron Society annual meeting, Slippery Rock, Pa., June 1991.

* Comments on "The Age of Cybernetics or How Cybernetics Aged" by Geof Bowker, Mellon Workshop on Shifting Meanings and Representations of Life: What Defines 'Cutting Edge' Biology?, MIT, April 1991.

"Compartmentalization in Big Geophysics: Research on Artificial Radiation Belts, 1958/1962," History of Science Society annual meeting, Seattle, October 1990.