

Richard Hallion

Education:

BA (High Honors in History), University of Maryland, 1970

Ph.D, University of Maryland, 1975

Leadership Program, Federal Executive Institute, Charlottesville, VA, 1992

National Security Studies Program, John F. Kennedy School of Government, Harvard University, 1993

Positions Held:

Curator of Science and Technology, and subsequently Curator of Space Science, National Air and Space Museum, Smithsonian Institution, 1974-1980

NASA Contract Historian, and Instructor in the history of aerospace engineering; adjunct faculty, graduate program in general administration, University of Maryland and UM University College; and independent aerospace consultant, 1980-1982.

Air Force Flight Test Center Chief Historian, Edwards AFB, CA 1982-1986

Director, Special Staff Office, Aeronautical Systems Division, Wright-Patterson AFB, OH, 1986-1987

Harold Keith Johnson Visiting Chair in Military History, US Army War College, Carlisle, PA, 1987-1988

Executive Historian for AF Special Programs, Headquarters Air Force Systems Command, Andrews AFB, MD 1988-1990; simultaneously held the 1990-1991 Charles Lindbergh Visiting Professorship in Aerospace History, National Air and Space Museum, Smithsonian Institution

Senior Issues and Policy Analyst, Secretary's Staff Group, Office of the Secretary of the Air Force, 1991

The Air Force Historian, Headquarters United States Air Force, Pentagon, Washington, D.C., 1991-2002

Panel Member, USAF Scientific Advisory Board "Why and Whither Hypersonics in the USAF?" Study, 2000

Coordinator for Air Force Centennial of Flight, and representative to the Centennial of Flight Federal Advisory Board, 2002-2003

Senior Advisor for Air and Space Issues, Directorate for Security, Counter-intelligence, and Special Programs Oversight, Office of the Secretary of the Air Force, 2004-2006 (retired from AF civil service Nov 2006)

Special Advisor for Aerospace Technology to the Air Force Chief Scientist, 2006-2008

Verville Fellow, National Air and Space Museum, Smithsonian Institution, 2007-2008

Senior Advisor, Commonwealth Research Institute/Concurrent Technologies Corporation, 2007-

Member, Board of Advisors, Royal Air Force Centre for Air Power Studies, RAF Cranwell, UK

Member, Editorial Advisory Board, *Air & Space Magazine*

Panel Member, National Research Council Committee on the Examination of the U. S. Air Force's Science, Technology, Engineering, and Mathematics (STEM) Workforce Needs, 2008-2009

Vice President, Earth Shine Institute, 2009-

Member, Airpower Experts Group, Air Force Association, 2009-

Member, Transformational Technologies Studies Panel, Office of the Air Force Chief Scientist, 2009-2010

MediaFusion Inc. Editor for the Aeronautics Directorate, Headquarters, National Aeronautics and Space Administration, Washington, D.C. 2009-

Research Associate in Aeronautics, National Air and Space Museum, Smithsonian Institution, 2010-

Academic Honoraries:

Phi Alpha Theta (History);

Pi Sigma Alpha (Political Science);

Phi Kappa Phi (General Scholarship)

Clubs:

Royal Air Force Club (Piccadilly, London)

National Aviation Club (Arlington, VA)

Shalimar Pointe Golf Club (Shalimar, FL)

Memberships:

Air Commando Association

Air Force Association

American Institute of Aeronautics and Astronautics

Association of Former Intelligence Officers

Association of Naval Aviation

Inter-Agency Study Group

Intercollegiate Studies Institute

International Test and Evaluation Association

National Association of Scholars

National Defense Industrial Association

Royal Aeronautical Society

Royal United Services Institute for Defence Studies

The Tailhook Association

United States Naval Institute

University of Maryland Alumni Association

Historical Associations

Air Force Historical Foundation

American Historical Association

American Aviation Historical Society

Naval Historical Foundation

Organization of American Historians

Royal Historical Society

Society for the History of Technology

Awards and Honors:

- 1974 Daniel and Florence Guggenheim Foundation Fellow.
- 1976 History Manuscript Award, Amer. Inst. of Aeronautics & Astronautics (AIAA).
- 1979 Dr. Robert H. Goddard Essay Award, National Space Club.
- 1979 Young Engineer-Scientist Award, National Capitol Section, AIAA.
- 1982 AIAA Distinguished Lecturer in the History of Flight.
- 1984 Lt. Col. Roy Mase Trophy, Air Force Systems Command.
- 1984 Commander's Distinguished Paper, Air Force Systems Command.
- 1985 Lt. Col. Roy Mase Trophy, Air Force Systems Command.
- 1985 Commander's Distinguished Paper, Air Force Systems Command.
- 1985 Citation of Honor, Air Force Association.
- 1986 Meritorious Civilian Service Medal, U.S. Air Force.
- 1988 Commander's Award for Public Service, U.S. Army.
- 1990 Ira Eaker Award, Air University.
- 1993 Aviation-Space Writers Association Premier Award for defense coverage.
- 1999 Louis H. Bauer Lecturer, Aerospace Medical Association.
- 2000 Friend of the Society of Experimental Test Pilots.
- 2004 Inaugural Fellow, Earth Shine Institute.
- 2005 Annual Award of the Conference of Historic Aviation Writers (CHAW).
- 2006 Outstanding Civilian Career Service Award, HQ USAF.
- 2006 National Aviation Hall of Fame Combs-Gates Award.
- 2006 Jalonick Distinguished Lecturer, University of Texas at Dallas.
- 2007 AIAA Gardner Lasser Aerospace History Literature Prize.
- 2008 Fellow, American Institute of Aeronautics and Astronautics.
- 2009 Fellow, Royal Aeronautical Society.

2010 Fellow, Royal Historical Society.

2011 Citation of Honor, Air Force Association.

Publications:

Authored Books:

Supersonic Flight: Breaking the Sound Barrier and Beyond (New York: The Macmillan Co., in association with the Smithsonian Institution, 1972); reissued in expanded format by Brassey's in 1997, ISBN 1-85753-253-8.

Legacy of Flight: The Guggenheim Contribution (Seattle: University of Washington Press, 1977), ISBN 0-295-95542-2.

Test Pilots: The Frontiersmen of Flight (Garden City, NY: Doubleday, 1981); reissued in expanded format by the Smithsonian Institution Press, 1988), ISBN 0-385-15469-0.

Designers and Test Pilots, a volume in the *Time-Life Epic of Flight* series (Alexandria, VA: Time-Life Books, 1982), ISBN 0-8094-3316-8.

Rise of the Fighter Aircraft, 1914-1918, (Annapolis: Nautical and Aviation Publishing, 1984), ISBN 0-933852-42-8.

On the Frontier: Flight Research at Dryden, 1946-1981 (Washington, D.C.: National Aeronautics and Space Administration, 1985); reissued in expanded format by the Smithsonian Institution Press in 2003, with additional material furnished by Michael H. Gorn covering post-1981 developments, ISBN 1-58834-134-8.

The Naval Air War in Korea (Baltimore: Nautical & Aviation Publishing 1986); to be reissued in 2011 by University of Alabama Press, ISBN 0-933852-47-9.

Strike from the Sky: The History of Battlefield Air Attack, 1911-1945 (Washington, D.C.: Smithsonian Institution Press in association with the U.S. Army Military History Institute, 1989); to be reissued in 2010 by Univ. of Alabama Press, ISBN 0-87474-452-0.

Storm Over Iraq: Air Power and the Gulf War, (Washington, D.C.: Smithsonian Institution Press, 1992), ISBN 1-56098-190-3.

Taking Flight: Inventing the Aerial Age from Antiquity to the First World War, (Oxford: Oxford University Press, 2003), ISBN 0-19-516035-5.

Edited Books:

The Wright Brothers: Heirs of Prometheus (Washington, D.C.: Smithsonian Institution Press, 1978), ISBN 0-87474-504-7.

Apollo: Ten Years Since Tranquility Base (Washington, D.C.: Smithsonian Institution Press, 1979); co-edited with Tom D. Crouch, ISBN 0-87474-505-5.

The Hypersonic Revolution: Eight Case Studies in the History of Hypersonic Technology, two volumes (Wright-Patterson AFB, OH: Air Force Aeronautical Systems Division, 1987-1988); expanded to three volumes, with the third authored by Lawrence Schweikart, and published by the Air Force History and Museums Program in 1997 [no ISBN number issued].

Air Power Confronts an Unstable World (London: Brassey's, 1997), ISBN 1-85753-238-4.

Silver Wings, Golden Valor: The USAF Remembers Korea (Washington, D.C.: Headquarters U.S. Air Force, 2006) [no ISBN number issued].

NASA's Contributions to Aeronautics, two volumes, (Washington: NASA, 2010), ISBN 978-0-16-084637-3.

Unclassified Monographs, Studies, and Position Papers:

Fighting Scouts: The Emergence of the Fighter Over the Western Front, 1914-1917 (Edwards AFB, CA: Air Force Flight Test Center, 1983) [no ISBN number issued].

The Path to the Space Shuttle (Edwards AFB, CA: Air Force Flight Test Center, 1983) [no ISBN number issued].

The Literature of Aeronautics, Astronautics, and Air Power, (Washington, D.C.: Headquarters U.S. Air Force, 1984) [no ISBN number issued].

The Evolution of Commonality in Fighter and Attack Aircraft Development and Usage, (Edwards AFB, CA: Air Force Flight Test Center, 1985) [no ISBN number issued].

The Commonality Chimera: Joint Service Development of Fighter and Attack Aircraft and its Implications for the Advanced Tactical Fighter (Edwards AFB: CA: Air Force Flight Test Center, 1985) [no ISBN number issued].

Armored and Mechanized Force Ground Movement and Air Attack: Lessons from Previous Conflicts (Washington, D.C.: Office of the Secretary of the Air Force, 1990) [no ISBN number issued].

Reaching Globally, Reaching Powerfully: The United States Air Force in the Gulf War—A Report (Washington, D.C.: Office of the Secretary of the Air Force, 1991) [no ISBN number issued].

Air Warfare and Maritime Operations, Number 45 of the *Air Power Studies Centre Paper* series (RAAF Base Fairbairn: Royal Australian Air Force Air Power Studies Centre, 1996), ISBN 0-642-25256-4.

Decisive Air Power Prior to 1950 (Washington, D.C.: Air Force History and Museums Program, 1999) [no ISBN number issued]; available at <http://www.airforcehistory.hq.af.mil/EARS/Hallionpapers/decisiveairpower1950.htm>.

Control of the Air: The Essential Requirement (Washington, D.C.: Air Force History and Museums Program, 1999) [no ISBN number issued], available at <http://www.ausairpower.net/Hallion-Bolling-1999.pdf>.

Quick Look: Light Fighter and Attack Aircraft—What's Out There, and Implications for the U.S. (Washington, D.C.: Directorate for Security, Counterintelligence, and Special Programs Oversight [SAF/AAZ], HQ USAF, 2005) [no ISBN number issued].

Hypersonic Power Projection, Mitchell Paper 6 (Arlington, VA: Mitchell Institute for Airpower Studies, 2010) [no ISBN number issued].

Chapters, Biographical Entries and Miscellaneous Book Entries

Catalog descriptions for the Bell X-1, Douglas D-558-2, North American X-15, Hughes H-1 Racer, Lockheed 5C Vega, Hawker XV-6A Kestrel, and Bell XP-59A in Claudia M. Oakes, ed., *Aircraft of the National Air and Space Museum* (Washington, D.C.: Smithsonian Institution Press, 1976), [no ISBN number issued].

"Commercial Aviation, 1919-1976," in Eugene M. Emme, ed., *Two Hundred Years of Flight in America: A Bicentennial Survey* 1 of the American Astronautical Society History Series (San Diego: American Astronautical Society / Univelt, Inc., 1977), 155-180, ISBN 87703-091-X.

"Charles A. Lindbergh and Aviation Technology," in Tom D. Crouch, ed., *Charles A. Lindbergh: An American Life* (Washington, D.C.: Smithsonian Institution Press, 1977), 39-48, ISBN 0-87474-342-7.

"Irmgard Flügge-Lotz," in Barbara Sicherman, Carol Hurd Green, Ilene Kantrov, and Harriette Walker, eds., *Notable American Women: The Modern Period—A Biographical Dictionary* (Cambridge: Harvard University Press in association with Radcliffe College, 1980), 241-242, ISBN 0-674-62732-6.

"The Development of American Launch Vehicles Since 1945," in Paul A. Hanle and Von Del Chamberlain, eds., *Space Science Comes of Age: Perspectives in the History of the Space Sciences* (Washington, D.C.: Smithsonian Institution Press, 1981), 115-134, ISBN 0-87474-508-X.

"The Next Assignment: The State of the Literature on Space," in Alex Roland, ed., *A Spacefaring People: Perspectives on Early Spaceflight* (Washington, D.C.: National Aeronautics and Space Administration, 1985), 61-67.

"Daniel and Harry Guggenheim and the Philanthropy of Flight," in William M. Leary, ed., *Aviation's Golden Age: Portraits from the 1920s and 1930s* (Iowa City: University of Iowa Press, 1989), 18-34, ISBN 0-87745-242-3.

"American Rocket Aircraft: Precursors to Manned Flight Beyond the Atmosphere," in R. Cargill Hall and Kristan R. Lattu, eds., *History of Rocketry and Astronautics: Proceedings of the Seventh and Eighth History Symposia of the International Academy of Astronautics (IAA)* 8 of the American Astronautical Society History Series (San Diego: American Astronautical Society / Univelt, Inc., 1989), 283-313, ISBN 0-87703-308-0.

"Commentary on Postwar Aeronautical Research in the Federal Laboratory," in Martin J. Collins and Sylvia D. Fries, eds., *A Spacefaring Nation: Perspectives on American Space History and Policy* (Washington, D.C.: Smithsonian Institution Press, 1991), 191-200, ISBN 0-87874-907-7.

"X-15: The Perspective of History," in NASA, *Proceedings of the X-15 First Flight 30th Anniversary Celebration* (Edwards, CA: Dryden Flight Research Center, 1991), 54-93.

"Daniel and Harry Guggenheim," and "Charles A. Lindbergh," in William M. Leary, ed., *The Airline Industry*, a volume in the *Encyclopedia of American Business History and Biography* series (New York: Bruccoli Clark Layman Books and Facts on File, 1992), 195-197, 268-274, ISBN 0-8160-2675-0.

"The U.S. Army Air Forces' Role," in Derek Wood, ed., *Reaping the Whirlwind: A Symposium on the Strategic Bomber Offensive, 1939-45*, Number 4 in the *Bracknell Papers* series (Bracknell: Royal Air Force Historical Society and the Royal Air Force Staff College, 1993), 14-18, ISBN 0-9519824-2-7.

"Naval Air Operations in Korea," in William J. Williams, ed., *Korea and the Transformation of the Postwar World* (Chicago: Imprint Publications, 1993), 129-147, ISBN 1-879176-16-5.

"The Future of Air Power," in Alan Stephens, ed., *The War in the Air: 1914-1994* (RAAF Base Fairbairn: Royal Australian Air Force Aerospace Centre, 1994), 377-413, subsequently published by Air University Press in 2001, ISBN 1-58566-087-6.

"Air and Space Superiority" (co-authored with Michael Irish), in Daniel Gouré and Christopher M. Szara, eds., *Air and Space Power in the New Millennium* (Washington, D.C.: The Center for Strategic & International Studies, in cooperation with VII Inc., 1997), 88-105, ISBN 0-89206-330-0.

"The Air Force and the Supersonic Breakthrough," in Jacob Neufeld, George M. Watson, Jr., and David Chenoweth, eds., *Technology and the Air Force: A Retrospective Assessment* (Washington, D.C.: Air Force History and Museums Program, 1997), 49-73, [no ISBN number issued].

"Conclusion," [co-authored with Bernard C. Nalty] in Bernard C. Nalty, ed., *Winged Shield, Winged Sword: A History of the United States Air Force*, 2 vols. (Washington, D.C.: Air Force History and Museums Program, 1997) 2, 555-570, [no ISBN number issued].

"Air Power in Peripheral Conflict: Korea and Vietnam," in Hugues Silvestre de Sacy, et. al., ed. *Aviation militaire: Survol d'un siècle* (Paris: Service historique de l'armée de l'air and École militaire, 1999), 225-242, ISBN 2-904521-36-4; at <http://www.airforcehistory.hq.af.mil/EARS/Hallionpapers/airpowerinperip.htm>.

"The American Perspective," in Paul Addison and Jeremy A. Crang, eds., *The Burning Blue: A New History of the Battle of Britain* (London: Random House-Pimlico, 2000), 82-107, ISBN 0-7126-6475-0.

"Military Technology and the Pacific War," in Jacob Neufeld, William T. Y'Blood, and Mary Lee Jefferson, eds., *Pearl to VJ Day: World War II in the Pacific* (Washington: Air Force History and Museums Program, 2000), 69-89 [no ISBN number issued].

"Air Power and the Modern World," in Rebecca H. Cameron and Barbara Wittig, eds., *Golden Legacy, Boundless Future: Essays on the United States Air Force and the Rise of Aerospace Power* (Washington: Air Force History and Museums Program, 2000), 277-290 [no ISBN number issued].

"Air Power and Asymmetric Threats," in Keith Brent, ed., *Air Power and Joint Forces* (RAAF Base Fairbairn: Royal Australian Air Force Aerospace Centre, 2000), 61-87, ISBN 0-0642-26557-7.

"The Twentieth Century: A Century Shaped by Air Power," in John Andreas Olsen, ed., *A Second Aerospace Century* (Trondheim: The Royal Norwegian Air Force Academy, 2001), 47-68 [no ISBN number issued].

"The Second World War as a Turning Point in Air Power," in Sebastian Cox and Peter Gray, eds., *Air Power History: Turning Points from Kitty Hawk to Kosovo* (London: Frank Cass, 2002), 93-124, ISBN 0-7146-5291-1.

"Technology for the Supersonic Era," in Philip Jarrett, ed., *Faster, Further, Higher: Leading-Edge Aviation Technology Since 1945*, a volume in the *Putnam's History of Aircraft* series (London: Putnam, 2002), 29-52, ISBN 0-85177-876-3.

"One Hundred Years of Air Power: Have We Learned Anything?" in Keith Brent, ed., *100 Years of Aviation: The Australian Military Experience* (RAAF Base Fairbairn: Royal Australian Air Force Aerospace Centre, 2004), 129-143, ISBN 0-642-26587-9.

"The Halcyon Years," in Walter J. Boyne, ed., *Moving America Safely: 50 Years of the Federal Aviation Administration* (Tampa: Faircourt, 2008), 20-27 [no ISBN number issued].

"Expeditionary Air Power in the First Gulf War," in Keith Brent, ed., *Air Expeditionary Operations from World War II Until Today* (RAAF Base Fairbairn: Royal Australian Air Force Air Power Development Centre, 2009), 79-95, [no ISBN number issued].

"Air and Space Power: Climbing and Accelerating," in John Andreas Olsen, ed., *A History of Air Warfare* (Washington, D.C.: Potomac Books, Inc., 2010), 371-393, ISBN 978-1-59797-440-0.

"The NACA, NASA, and the Supersonic-Hypersonic Frontier," in Steven J. Dick, ed., *NASA's First 50 Years: Historical Perspectives* (Washington: National Aeronautics and Space Administration, 2010), 223-274, ISBN 978-0-16-084965-7.

"U.S. Air Power," in John Andreas Olsen, ed., *Global Air Power* (Washington, D.C.: Potomac Books, inc., 2011), 63-136, ISBN 978-1-59797-680-0.

Articles and Papers

"The American Buzz-Bombs," *Aeroplane Monthly* 4, no. 11 (Nov. 1976): 566-571.

"Convair's Delta Alpha: The XF-92A," *Air Enthusiast Quarterly*, no. 2 (Nov. 1976-Feb. 1977): 177-185.

"Twilight of the Piston-Powered Airplane: The Republic XF-12 / RC-2 Rainbow," *Aviation Quarterly* 3, no. 1, (Spring 1977).

"X-4: The Bantam Explorer," *Air Enthusiast Quarterly*, no. 3 (Mar.-Jun. 1977), 18-25.

"Serendipity from Santa Monica: The Story of the Douglas X-3," *Air Enthusiast Quarterly*, no. 4 (Jul.-Oct. 1977): 129-136.

"American Flight Research and Flight Testing: An Overview from the Wright Brothers to the Space Shuttle," *Cockpit: The Society of Experimental Test Pilots Technical Review* 13, no. 3 (Fall 1977): 37-49.

"Saga of the Rocket Ships: The X-1, D-558-2, and the X-2," *Air Enthusiast Five* (Nov. 1977-Feb. 1978): 68-78.

"Saga of the Rocket Ships: The X-15," *Air Enthusiast Six* (Mar.-Jun. 1978): 90-93, 134-138.

"Saga of the Rocket Ships: The Lifting Bodies," *Air Enthusiast Eight* (Oct. 1978-Jan. 1979): 51-59.

"X-15: Highest and Fastest of Them All," *Flight International* 114, no. 3640 (Dec. 23, 1978): 2256-2258, 2262.

"The Soviet Stovepipes," *Air Enthusiast Nine* (Feb.-Mar. 1979): 55-60.

"Lippisch, Gluhareff, and Jones: The Emergence of the Delta Planform and the Origins of the Sweptwing in the United States," *Aerospace Historian* 26, no. 1 (Spring 1979): 1-10.

"P-80: Story of a Star," *Air Enthusiast Eleven* (Nov. 1979-Feb. 1980): 54-70.

"T-33 and F-94: More Stars in the Lockheed Galaxy," *Air Enthusiast Twelve* (Apr.-Jun. 1980): 11-23.

"Mach 3 Aircraft in the 1960's," *Exxon Air World* 33, no. 2 (1981): 20-23.

"The Rise of Air and Space," *Astronautics & Aeronautics* 19, no. 5 (May 1981): 64-77.

"The Path to Space Shuttle: The Evolution of Lifting Reentry Technology," *Journal of the British Interplanetary Society* 36, no. 12 (Dec. 1983): 523-541.

"Breaking Through Mach 2," *Air World* 37, no. 2 (Summer 1985): 15-18.

"Girding for War: Perspectives on Research, Development, Acquisition, and the Decision-making Environment of the 1980s," *Air University Review* 37, no. 6 (Sep.-Oct. 1986): 46-62.

"Doctrine, Technology, and Air Warfare: A Late Twentieth-Century Perspective," *Airpower Journal* 1, no. 2 (Fall 1987): 16-27, available at <http://www.airpower.maxwell.af.mil/airchronicles/apj/apj87/fal87/hallion.html>.

"Battlefield Air Support: A Retrospective Assessment," *Airpower Journal* 4, no. 1 (Spring 1990): 8-28.

"Air Power in Historical and Contemporary Perspective," a Defense and Arms Control Studies Seminar Paper (Cambridge: Center for International Studies, Massachusetts Institute of Technology, Mar. 1991).

"Armour, Ground Movement, and Air Attack: Lessons from Previous Conflicts," *Air Clues: The Royal Air Force Magazine* 45, n. 7 (Jul. 1991): 244-250.

"Federal History in the Twenty-First Century: Looking to the Future," Annual Meeting, The Society for History in the Federal Government, Library of Congress, Washington, D.C., 14 April 1992.

"Naval Air Operations in Korea," *Air Power History* 40, no. 3 (Fall 1993): 31-41.

"Pioneer of Flight: Jimmy Doolittle as Aviation Technologist," *Air Power History* 40, no. 4 (Winter 1993): 9-15.

"An American Hero: Snapshots from a Life on the Edge," *Air Power History* 40, no. 4 (Winter 1993): 22-26.

"Air Power and the Battle for Normandy," *Air Power History* 41, no. 2 (Summer 1994): 49-61.

"Air Power Today and Tomorrow: A Post-Gulf War View," *The RUSI Journal* [Royal United Services Institute for Defence Studies] 139, no. 5 (Oct. 1994): 23-29.

"The Anti-Surface Campaign: An Overview," 1995 Air Power Symposium of The Royal Norwegian Air Force Academy, Trondheim, Norway, 31 Jan. 1995.

"Prelude to Armageddon: The Troubled Beginning of the Air Offensive Against Japan," *Air Power History* 42 no. 3 (Fall 1995): 38-54.

"America Returns to the Hump," *Air Power History* 42 no. 3 (Fall 1995): 55-57.

"FDR and Truman: Continuity and Context in the A-bomb Decision" [coauthored with Herman S. Wolk], *Air Power Journal* 9, no. 3 (Fall 1995): 1-5.

"Precision Guided Munitions and the New Era of Warfare," *Air Power History* 43, no. 3 (Fall 1996): 4-21.

"Military Power and the Revolution in Military Affairs," Higher Command & Staff Course, Joint Services Command and Staff College, Bracknell, Mar 1999 at <http://www.airforcehistory.hq.af.mil/EARS/Hallionpapers/militarypowerrevolution.htm>

"The USAF & NATO: From the Berlin Airlift to the Balkans," DFI International Aerospace Breakfast Series, Army and Navy Club, Washington, D.C., April 1999, at <http://www.airforcehistory.hq.af.mil/EARS/Hallionpapers/usafandnato.htm>.

"Precision Weapons, Power Projection, & the Revolution in Military Affairs," USAF Air Armament Summit, Air Armament Center, Eglin AFB, FL, May 1999, at <http://www.airforcehistory.hq.af.mil/EARS/Hallionpapers/precisionweaponspower.htm>.

"Aerospace Medicine Nears the Millennium," Louis H. Bauer Lecture, Annual Meeting of the Aerospace Medical Association, Detroit, MI, May 1999, at: <http://www.airforcehistory.hq.af.mil/EARS/Hallionpapers/aerospacemedicine.htm>.

"Why We Need the F-22," guest editorial, *The Washington Post*, 22 July 1999, 23.

"Arms and Men: Aircraft of the Korean War," *MHQ: The Quarterly Journal of Military History* 12, no. 4 (Summer 2000): 52-59.

"Air Power from the Ground Up," *Air Force Magazine* 83, no. 11 (Nov. 2000): 39-43.

"A Short History of Aircraft Survivability," paper presented at the Aircraft Survivability Science and Technology Initiatives Symposium, Naval Postgraduate School, Monterey, CA, Nov. 2000, published in abbreviated form in *Aircraft Survivability*, no. 2 (Summer 2001): 10-13; full text of original paper at http://airforcemedicine.afms.mil/idc/groups/public/documents/afms/ctb_074782.pdf.

"The Future of Air Power," *RUSI Journal* 146, no. 3 (June 2001): 52-61.

"The X-Vehicles: Advancing the Limits of Technology," paper presented at the Joint NASA-USAF-AIAA X-Vehicle Symposium, Santa Clara, CA, May 2002, available at <http://www.aiaa.org/documents/conferences/Presentations/Hallion.pdf>.

"The Wright Brothers: How They Flew," *American Heritage of Invention and Technology* 19, no. 2 (Fall 2003): 18-40.

"The Wright Flyers," *Aeroplane*, special Centenary of Powered Flight edition, (Dec. 2003): 53-74.

"Remembering the Legacy: Highlights of the First 100 Years of Aviation," *The Bridge: Linking Engineering and Society* 34, no. 1 (Spring 2004): 5-11.

"The History of Hypersonics: or, 'Back to the Future—Again and Again,'" a paper presented at the 43rd Aerospace Sciences Meeting, American Institute of Aeronautics and Astronautics, Reno, NV, Jan. 2005, Paper AIAA 2005-0329 (Jan. 2005): 1-40.

"Herald of Victory: Battlefield Air Attack in the Second World War," The 2006 George W. Jalonick III and Dorothy Cockrell Jalonick Memorial Distinguished Lecture (Richardson, TX: The University of Texas at Dallas, McDermott Library Special Collections Department, The History of Aviation Collection, 2006).

"Smart Bombs Ahead of Their Time," *World War II* 22, no. 5 (Sep. 2007).

"Precursor to Pearl?" *World War II* 22, no. 8 (Dec. 2007) 54-61.

"Operation Starvation," *World War II* 23, no. 1 (Apr.-May 2008): 48-55.

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"Streamline Revolution: How Northrop, Boeing, and Douglas Reinvented the Airliner 75 Years Ago," *Aviation History* 19, no. 5 (May 2009): 42-47.

"Off to Oz," *Aviation History* 20, no. 2 (Nov. 2009): 44-49.

"Richard Whitcomb's Triple Play," *Air Force Magazine* 93, no. 2 (Feb. 2010): 68-72.

"Ethereal Dreams of Imperial Airships," *Aviation History* 20, no. 6 (Jul. 2010): 52-57.

"An Inflection Point in the Space Race," *Air Force Magazine* 93, no. 10 (Oct 2010): 54-57.

"Supersonic Revolution," *Aviation History* 21, no. 6 (Jul. 2011): 38-43.

"The Naval Air War in Korea: Maritime Air Power in a Limited War," a paper presented at the Centennial of Naval Aviation Forum, *100 Years of Achievement*

and Progress symposium, American Institute of Aeronautics and Astronautics, Virginia Beach, VA, Sep. 2011, Paper AIAA 2011-7036 (Sep 2011): 1-50.

"American Eagle," *Aviation History* 22, no. 2 (Nov. 2011): 36-43.

"Solving the Problem of 'Fog Flying,'" *Aviation History* 22, no. 3 (Jan. 2012): 44-49.

"Across the Hypersonic Divide," *Aviation History* 22, no. 6 (Jul. 2012): 36-43.

Lectures and PowerPoint Presentations

"Hypersonics: Or, Back to the Future—Again and Again," *Aviation Week's* Aerospace and Defense Conference, Arlington, TX, 29 October 2003.

"Developing and Integrating Air and Space Technology for the War-Fighter: The Continuing Challenge," Royal United Services Institute for Defence Studies, Whitehall, London, UK, April 2004.

"Some Reflections on the First Century of Air and Space Power," Royal Air Force-US Air Force Senior Leadership Conference, Washington, D.C., Oct. 2004.

"American Aerospace: Accomplishments, Challenges, Opportunities," San Diego Section, American Institute of Aeronautics and Astronautics, San Diego, CA, May 2005.

"German Soaring in the Weimar and Nazi Eras, XIIth Meeting of the Conference of Historic Aviation Writers, Herndon, VA, Oct. 2005.

"The Rise of Naval Aviation: A Flight Test Perspective," U.S. Naval Test Pilot School, Patuxent River Naval Air Station, May 2006.

"Air Force Contributions to Aerospace Technology," National Museum of the USAF, Dayton, OH, Oct 2006

"*The Wave of the Future*: Anne Morrow Lindbergh as Social Commentator," Earth Shine Institute, Washington, D.C., Nov. 2006.

"Aerospace Research and Development: A Flight Test Perspective," Great Lakes Section, Society of Experimental Test Pilots, Wright-Patterson AFB, OH, Apr. 2007.

"Hypersonic Power Projection: Challenges and Opportunities" [with Dr. Mark J. Lewis], Air Combat Command General Officer Hypersonic Forum, Langley AFB, VA, May 2007.

"Emulation, Innovation, and Invention: American Aerospace in Perspective," Northrop-Grumman Management Seminar, El Segundo, CA, May 2007.

“Coalition Air Operations: The Historical Experience,” Air Force Association Annual Symposium, Washington, D.C. Sep. 2007.

“The History of Hypersonics: Or, ‘Back to the Future—Again and Again,’” Fundamental Aeronautics Program First Annual Review, Aeronautics Directorate, National Aeronautics and Space Administration, New Orleans, LA, Oct. 2007.

“Assessing International Aviation: The Lindberghs as Acquirers and Analyzers of Air Intelligence,” Earth Shine Institute, Washington, D.C., Nov. 2007.

“American Aerospace and the Second Century of Winged Flight,” Inter-Agency Seminar Group, Brookings Institution, Washington, D.C. Jan. 2008.

“Air Power in the First Gulf War,” a presentation at the Air Power in Recent Wars seminar, Madingley Hall, Cambridge University, Cambridge, UK, Feb. 2008.

“Is What You See What You Get? Reflections on the Visual Image,” International Society of Aviation Photography, Dallas, TX, March 2008.

“Expeditionary Air Power in the First Gulf War,” Royal Australian Air Force History Conference, Canberra, Australia, April 2008.

“Reflections on America’s Military Aviation History,” National Air and Space Museum, Smithsonian Institution, Washington, D.C. May 2008.

“Mutual Debt: Europe, America, and the Transfer of Aeronautical Knowledge and Practice, 1908-1958,” The International Community of Flight Conference, Wright State University, Dayton, OH, May 2008.

“Air Dominance: The *Essential* Requirement,” Air Force Association Annual Symposium, Washington, D.C. Sep. 2008.

“Supersonics and Hypersonics: Where We’ve Been, Where We Are, Where We May Be Going,” House of Representatives Space and Aeronautics Subcommittee, Washington, D.C. Nov. 2008.

“Air Power and the Air Force: Reflections and Perspectives,” 8th Air Force Commander’s Air-Mindedness Seminar, Barksdale AFB, LA, Feb. 2009.

“Air Power and Air Vehicles: Old Lessons, Evolving Technology, and New Challenges,” Air Force Research Laboratories’ Air Vehicles Directorate, Wright-Patterson AFB, OH, Feb. 2009.

“The History of Hypersonics,” National Space & Missiles Materials Symposium, Henderson, NV, June 2009.

“Crete: Confronting the Realities of Emerging Sea-Air War;” “The Maltese Bottle-Stopper: Malta’s Role and Influence in the Mediterranean Sea-Air-Land War;” and “Sicily, Salerno, Anzio: Setting the Stage for the Death of Fascism and the Liberation of Europe;” three PPT presentations made while leading a Smithsonian

Journeys / Stanford University Alumni Study Tour through the Mediterranean in June 2009.

“The Application of Air Power in Combating Terrorism,” ASEAN [Association of Southeast Asian Nations] Air Chiefs Conference, Brunei Darussalam, Aug. 2009.

“A Century of Flight Test and Flight Research,” Annual Joe Sutter Dinner, Museum of Flight and Seattle Branch of the Royal Aeronautical Society, Nov. 2009.

“Historical Perspective on Current Air Force Issues,” Air Force Materiel Command Commanders’ Conference, Air Armament Center, Eglin AFB, Apr. 2010.

“Propulsion & Performance: Reflections on Innovation, Research, and Application,” JANNAF [Joint Army-Navy-NASA-Air Force] Propulsion Conference, Colorado Springs, CO, May 2010.

“Airworthiness and Sustainment: The Continuing Challenge,” Aircraft Airworthiness and Sustainment Conference, Austin, TX, May 2010.

“Air Power in the Korean War: America’s First Jet Age Air War,” National Museum of the USAF, Dayton, OH, June 2010.

“Hypersonics and Power Projection: Challenges and Opportunities,” Mitchell Institute for Airpower Studies, Arlington, VA, June 2010.

“The Battle of Britain in American Context and Perspective,” Battle of Britain 70th Anniversary Symposium, Museum of Flight, Seattle, WA, Sep 2010

“Resolving Unknowns, Closing Gaps, and Refining Understanding: Flight Test and Test Pilots in the First Century After Kitty Hawk,” Central Section, Society of Experimental Test Pilots, Wichita, KS, Oct 2010.

“Hypersonic Flight Test,” Southeast Section, Society of Experimental Test Pilots, Ft. Walton Beach, FL, Feb 2011.

“Rhythms of Speed and Streamlining: The Transformation of American Aviation,” Hofstra Cultural Center 1935: *The Reality and Promise* symposium, Hofstra University, Hempstead, Long Island, NY, Apr 2011.

“A Century of Naval Aviation,” National Council on Public History *Crossing Borders/Building Communities—Real and Imagined* conference, National Museum of Naval Aviation, Pensacola Naval Air Station, Pensacola, FL, April 2011.

“Bridging Oceans, Bridging Cultures;” “The Atlantic Millennium;” “The Atlantic Skyway;” “Grey Seas, Stormy Skies;” “This New Ocean: From Seafarers to Spacefarers;” five PPT presentations made as a Lecturer on Celebrity Cruise Lines Atlantic-Mediterranean Voyage in May 2011.

“The Naval Air War in Korea: Maritime Air Power in a Limited War,” Centennial of Naval Aviation Forum, *100 Years of Achievement and Progress* symposium, Virginia Beach Convention Center, Virginia Beach, VA, Sep 2011.

“The Air War in Korea: Coalition Air Power in the Context of Limited War, *Korea: In from the Cold* symposium, Australian War Memorial, Canberra, Australia, Oct. 2011

“Hypersonics: Where We’ve Been, Where We’re Going,” Order of Daedalians, Seagull Flight #61, Ft. Walton Beach, FL, Oct. 2011.

“American Air Power,” Global Air Power Conference, Finnish Air Force Academy, Jyväskylä, Finland, Oct. 2011.

“The Aerospace Sciences Meeting at 50: Tracking a Half-Century of Advancement,” 50th AIAA Aerospace Sciences Meeting and Symposium, Nashville, TN, Jan 2012.

“Flight Test Engineering’s Contributions to Aviation Testing,” Society of Flight Test Engineers Emerald Coast Chapter, in association with the American Institute of Aeronautics and Astronautics, National Defense Industrial Association, International Test and Evaluation Association, Society of Old Crows, and the Air Force Association, Eglin AFB, FL, Jan 2012.

“Fighter Technology and Tactics in the Great War,” Aviation in the First World War symposium, Museum of Flight, Seattle, Washington, April 2012.

Flying Experience (as observer, not pilot) in Various Military Aircraft:

Northrop T-38A Talon	Aero-Commander L-26 (NASA)
Calspan VStab Learjet	Beech C-12
Lockheed TF-104G Starfighter	BAe Canberra T.4 (RAF)
Republic F-105F Thunderchief	Boeing KC-135A / E / R Stratotanker
McDonnell-Douglas F-4G Phantom II	Cessna O-2A
GD-Grumman EF-111A Sparkvark	Lockheed C-130B / E / H Hercules
McDonnell-Douglas F-15D Eagle	McDonnell-Doug. VC-9C Nightingale
McDonnell-Doug. F-15E Strike Eagle	Convair C-131D Samaritan
General Dyn. NF-16B Fighting Falcon	Lockheed C-141B Starlifter

Lockheed C-5A / B Galaxy	North American TF-51D Mustang
McDonnell-Douglas KC-10A Extender	Boeing-Stearman PT-13D Kaydet
McD-Doug. C-17A Globemaster III	Boeing B-17G Flying Fortress
Pilatus PC-12 (Finnish AF)	Bell AH-1S Cobra
Vickers VC.10K.2 (RAF)	Bell HH-1H Huey
Lockheed Tristar K.1 (RAF)	Westland Sea King HAR 3 (RAF)

[Current as of 1 May 2012]