

## Staff Publications and Scholarly Activities Aeronautics and Space History Departments Fiscal Year 2016

### Laurence M. Burke II

Papers presented at Professional Conferences

"What Kind of Man?: Gender in Early US Naval Aviation," Maritime Masculinities Conference, Oxford, UK; December 19-20, 2016.

Book Reviews

Review of *Striking the Hornets' Nest: Naval Aviation and the Origins of Strategic Bombing in World War I* by Geoffrey L. Rossano and Thomas Wildenberg in *H-war*, *H-net Reviews* (2016). <https://www.h-net.org/reviews/showrev.php?id=45511>

### Paul E. Ceruzzi

*Book Chapters*

"The Personal Computer and Social Media," in Judy Malloy, ed., *Social Media Archeology and Poetics*, MIT Press (2016), pp. 51-60.

*Articles and Chapters Submitted*

"Satellite Navigation and the Military-Civil Dilemma: The Geopolitics and Socio-cultural impact of the Global Positioning System and its Rivals," forthcoming in Alexander Geppert, ed., *Militarizing Outer Space: Astroculture, Dystopia, and the Cold War* (London: Palgrave Macmillan, 2017?).

"The Other Side of Moore's Law: The Apollo Guidance Computer, the Integrated Circuit, and the Microelectronics Revolution, 1962-1975," paper submitted to *Technology & Culture*, March 2016.

*Papers presented at Professional Conferences*

"The Other Side of Moore's Law: The Apollo Guidance Computer, the Integrated Circuit, and the Microelectronics Revolution, 1962-1975," paper presented at the Annual Meeting of the Society for the History of Technology, Singapore, June 25, 2016.

"The Apollo Guidance Computer and the Seeding of Technological Knowledge: NASA's Role in the Development of the Silicon Chip," Paper presented at the IFIP Working Group 9.7 Conference on "International Communities of Invention and Innovation," Brooklyn, New York, May 25-29, 2016.

*Other Professional Talks*

"The Other Side of Moore's Law: The Apollo Guidance Computer, the Integrated Circuit, and the Microelectronics Revolution, 1962-1975," paper presented at the NASM/NASA workshop on "Seeds of Discovery," NASM, December 11, 2015.

*Book Reviews*

Review of [Delete: A Design History of Computer Vapourware](#), by Paul Atkinson. *Technology & Culture*, 56/4, (fall 2015): 1013-1015. doi:10.1353/tech.2015.0120.

Review of Martin Campbell-Kelly & Daniel D. Garcia-Schwartz, From Mainframes to Smartphones: A History of the International Computer Industry, in *Business History Review* 89/4 (2015), pp. 767-769.

Review of Hugh Blair-Smith, Left Brains for the Right Stuff, in *Quest: The History of Spaceflight*, 23/2 (2016), p. 64.

Review of Arnold Thackray et al, Moore's Law: The Life of Gordon Moore, Silicon Valley's Quiet Revolutionary, in *Technology & Culture*, 57/2 (April 2016), pp. 499-500.

### *Blogs*

"Apollo Guidance Computer and the First Silicon Chips," Air & Space Blog, October 14, 2015:

<http://blog.nasm.si.edu/space/first-silicon-chips/>

Margaret Hamilton – the Rope Mother," Air & Space blog, March 11, 2016:

<http://blog.nasm.si.edu/space/the-rope-mother-margaret-hamilton/>

### *Public Programs*

"Above and Beyond: New Directions in NASM Exhibits," Ask an Expert talk, NASM, November 18, 2015.

"Not Just GPS: European, Chinese, and Indian Satellite Navigation Systems," Ask an Expert talk, NASM, December 30, 2015.

"Margaret Hamilton – the Lead Programmer for the Apollo Guidance Computers," Ask an Expert talk, March 23, 2016.

The IBM AP-101: Workhorse Computer of the Space Age," Ask an Expert talk, Udvar-Hazy Center, May 19, 2016.

## **Dorothy Cochrane**

### *Blog*

"Pioneering Aerial Archeology by Charles and Anne Lindbergh," June 16, 2016

<http://blog.nasm.si.edu/aviation/pioneering-aerial-archeology/>

## **Martin Collins**

### *Articles and Chapters Submitted*

"What do historians want from "materiality"? Reflections on theory and the humanities since the 1970s", article submitted to *Annals of Science*, September 2016

"The Global in the 1980s and 1990s: Liquid Modernity, Routines, and the Case of Motorola's Iridium Satellite Communications Venture" to be published in the edited volume *Getting It Organized: The Creation of Order and its Dynamics in Business History* (Oxford University Press, 2016)

"The 1970s: Spaceflight and the problem of historically interpreting the in-between decade." In Alexander Geppert, ed., *Envisioning Limits: Outer Space and the End of Utopia*. Palgrave Macmillan (forthcoming)

"History as intellectual and organizational tool in creating a collections rationale: The Smithsonian's National Air and Space Museum's spaceflight artifacts as case study." In *Challenging Collections*, Volume 10, *Artefacts: Studies in the History of Science and Technology*. Smithsonian Institution Scholarly Press (forthcoming)

### *Papers presented at Professional Conferences*

"The self in the material turn", presented in the session "Turning the SHOT Yacht: Changing Our Ideas about Selves, Knowledge and Material", SHOT Annual Meeting, Albuquerque, NM, October 2015

"Astroculture and Historiographies of the Modern", for the conference "Futuring the Stars: Europe in the Age of Space", Freie Universität, Berlin, Germany, March 18-19, 2016

### *Other Professional Talks*

- "Neoliberalism and Communications in the 1980s and 1990s," University of Pennsylvania, March 27, 2016"
- "'Self' as a Keyword in the History of Technology", Drexel University discussion series "Vocabularies in the Social Sciences and Humanities"
- "Globalization and Spaceflight after 1980", New York University, May 5, 2016

### *Book Reviews*

Review: Monique Laney. *German Rocketeers in the Heart of Dixie: Making Sense of the Nazi Past during the Civil Rights Era. Technology and Culture*, Volume 57, Number 3, 2016.

### *Blogs*

"Arthur C. Clarke Collection of Sri Lanka Now Publicly Available", Air & Space Blog, February 24, 2016: <http://blog.nasm.si.edu/archives/arthur-c-clarke-collection-now-available/>

### *Other Scholarly Activity*

Editor, *History and Technology*, Vol. 31/no. 3 2015

Editor, *History and Technology*, Vol. 31/no. 4 2015

Editor, *History and Technology*, Vol. 32/no. 1 2016

Editor, *History and Technology*, Vol. 32/no. 2 2016

Editor, *History and Technology*, Vol. 32/no. 3 2016

Managing Editor, *Objects in Motion: Globalizing Technology*. Nina Mollers and Brian DeWalt, eds. *Artefacts: Studies in the History of Science and Technology*, Volume 10. Smithsonian Institution Scholarly Press: Washington, D.C., 2016.

Co-organizer, History of Technology Study Group, Center for History of Science, Technology, and Medicine, Philadelphia

Co-organizer, Potomac Center for the Study of Modernity

### *Public Programs*

"Beginnings of Global Television: The Relay satellite and JFK's Assassination", Ask an Expert, UHC, November 5.

“All you need is love’: The 1967 “Our World” broadcast, the Beatles, and the beginnings of global TV”, Ask an Expert, NMB, March 30, 2016

“Cleaning Up Outer Space,” What’s New in Aerospace, May 17, 2016

“Introduction: 2001: A Space Odyssey”, NASM All Night, July 2, 2016

## **Roger Connor**

### *Articles*

“Learning to Navigate in the Air: Technological Maturity in Celestial Air Navigation, 1927–31” in the Royal Institute of Navigation’s *Navigation News*.

### *Essays/Chapters in Edited Volumes*

“Bell UH-1H Huey” and “MQ-1L Predator” in [\*Milestones of Flight: The Epic of Aviation with the National Air and Space Museum\*, ed. Robert van der Linden \(Zenith Press\)](#)

“Bell UH-1H: Steed for the Sky Cavalry” in *Engaging Smithsonian Objects through Science, History and the Arts*, ed. Mary Jo Arnoldi (Smithsonian Institution Scholarly Press)

### *Conference and Invited Presentations*

“Capronis and Chaos: Italian-American Bombing & Aircraft Production in WWI,” Over the Front society of World War One aviation historians, Mid-Atlantic Chapter, Steven F. Udvar-Hazy Center. September 2016.

“Learning to Navigate in the Air: Technological Maturity in Celestial Air Navigation, 1927–31” at the Royal Institute of Navigation’s Sea to Sky conference held at the Maritime Museum in Greenwich. June 2016

"Key Technologies for the Creation of the Helicopter," an hour long lesson as part of a rotary wing short course for aeronautical engineers looking to expand their areas of expertise at the annual American Helicopter Society Forum held in West Palm Beach. May 2016.

“Drones in the Museum” at the Mutual Concerns of Air and Space Museums conference on a panel dealing with contemporary topics in museum interpretation. Newark, NJ. April 2016.

"By the Stars to Victory: Making Aerial Celestial Navigation Practical Between the World Wars" in conjunction with the Mystic Seaport 's temporary display of the "Ships, Clocks, and Stars" exhibition. Mystic, CT. March 2016.

"Helicopters in the City: The Strange Tale of Los Angeles Airways." Dinner keynote at the American Helicopter Society Aeromechanics Conference in San Francisco. January 2016.

“The Lattice of Victory: British, Canadian, and American Cooperation in Hyperbolic Navigation, 1940-1945” at the seventy-fifth anniversary of the Tizard Mission at the Embassy of Canada. November 2015.

### *Blog Posts*

“Celebrating the Centennial of Coast Guard Aviation with the Seaguard”

“The Tizard Mission – 75 Years of Anglo-American Technical Alliance”

“Halloween Horrors of the Air: 13 Terrifying Images of Aero Fashion”

## Tom Crouch

### *Book Chapters, Articles*

"Dreams of Navigating the Air," in Bart Hacker, *Astride Two Worlds: Technology and the American Civil War* (Washington, D.C.: Smithsonian Institution Scholarly Press, 2016), 205-244.

"The Flight Claims of Gustave Whitehead, *Journal of Aeronautical History*, ( Vol. 6, No. 1, 2016), 1-9.

The Fairborn Kid," *Friends Journal: The Magazine of the Air Force Museum Foundation* (Spring 2016, Vol. 39, No. 1), pp. 8-11.

"Bleriot XI and Curtiss D-III Pusher." F.R. Van der Linden, A. Spencer and T. Paone, eds., *Milestones of Flight*, (NP: Zenith Pres, 2016), 22-20.

"Explorer II," F.R. Van der Linden, A. Spencer and T. Paone, eds., *Milestones of Flight*, (NP: Zenith Pres, 2016), 70-75.

"Foreword," Ron Miller, *Spaceships: An Illustrated History of the Real and the Imagined* (Washington, D.C.: Smithsonian Press, 2016), 7.

"Foreword," *National Museum of the United States Air Force: A Pictorial Tour of the Museum* (2016)

### *Presentations at Scholarly Conferences*

"On the Shoulders of Giants: The International Roots of the Airplane," presented at a symposium on Early Flight, Deutsches Museum, October 2016

### *Reviews:*

Dirigible Dreams: The Age of the Airship, *Air & Space Smithsonian* (March 2016, Vol. 30, No. 7), 76.

### *Web Contributions*

"Remembering Astronautics and Museum Leader Fred Durant"

<https://airandspace.si.edu/stories/editorial/remembering-astronautics-and-museum-leader-frederick-clark-durant-iii>

"A Collector's Passion for Early Ballooning," <https://airandspace.si.edu/stories/editorial/collectors-passion-early-ballooning>

"Take to the Air in the Smithsonian's Balloon," <https://airandspace.si.edu/stories/editorial/take-air-smithsonian%E2%80%99s-balloon>

"Clouds in a Bag: The Evelyn Way Kendall Ballooning and Early Aviation Collection,"

<https://airandspace.si.edu/exhibitions/clouds-bag> -- This is a new website devoted to the exhibition of the Kendall Collection, which will continue to grow with new on-line stories drawn from the collection leading up to the opening of the exhibition in February 2017.

## James E. David

### *Articles*

"What Kind of Landsat-D Ground Station Can We Export to China," *Quest: The History of Spaceflight*, Vol. 23, No. 2 (2016): 18-28.

### *Articles and Chapters Submitted*

“CORONA and the Search for Soviet ICBMs” (will be published in an unclassified December 2016 edition of *National Geospatial Intelligence Review*)

“How Much Detail Do We Need to See? High and Very High Resolution Imagery, GAMBIT, and the Manned Orbiting Laboratory” submitted to *Intelligence and National Security*

### *Professional Talks*

“Peering Behind the Bamboo Curtain: Overhead Reconnaissance of China during the Cold War” presented at a July 2016 WIP

## **David H. DeVorkin**

### *Book*

09/2016: Manuscript submitted to SISP, “Empire Building in the Cold War: The Smithsonian Astrophysical Observatory During the Whipple Years, 1955-1972” – sent out for reader comment

### *Book Chapters*

“Foreword” to Kevin Schindler, *The Far End of the Journey: Lowell Observatory’s 24-inch Clark Telescope*. Flagstaff, AZ: Lowell Observatory, 2016.

### *Articles and Chapters Published*

“Utilizing Dibner Resources at the National Air and Space Museum,” in L. Vekerdy, ed., *The Era of Experiments and the Age of Wonder*. Washington DC: Smithsonian Institution Scholarly Press, 2015. pp. 65-70

*Articles and Chapters Submitted (w/ T. Muir-Harmony). "The Development of Mauna Kea as an Astronomical Site." Focus on Astronomy. Cambridge U Press, (submitted 10/2015).*

*“Public Astronomy: LA Style” submitted 2014, revised and in press for special volume of the Griffith Observer.*

### *Papers presented at Professional and Pro/Am Conferences*

April: “The Search For Unseen Planetary Companions to the Stars, Before 1990” Southern Star Convention 30<sup>th</sup> Anniversary, North Carolina.

Aug 11: “Astronomy Comes to the Nation’s Mall” ALCON national conference

### *Other Professional Talks*

May 4: “The American Observatory Movement, and Where Van Vleck Fits In” Wesleyan University History Department.

June 18: “Empire Building in the Cold War,” Contemporary History Seminar, NASM

## *Blogs*

03/23/16: "Women who Changed the Universe, And How we Portray them"  
<http://blog.nasm.si.edu/astronomy/women-who-changed-the-universe/>

09/06/16: w/Robin Ohern "What's that Smell: Collaboration and Conservation of a Film Transport from Apollo 16," NASM Blog submitted 5/2016

<https://airandspace.si.edu/stories/editorial/what%E2%80%99s-smell-conserving-apollo-16-film-transport>

## *Other Scholarly Activity*

01/16: "Mystery Star," *Air & Space/Smithsonian*, Vol. 30 (December 2015/January 2016), 40-45.

04/04/16: Member of PhD diss. Committee (Samantha Thompson) Arizona State U.

May 26-27: Organized the 2106 Gordon Cain Conference at the Chemical Heritage Foundation, Philadelphia, on "The Evolving Search for Life in the Universe" Chair of, and participant in the public session.

08/22/16: Oral History Interview, Judith Lean, NRL 3.5 hours.

## *Public Programs*

### *Ask an Expert Talks:*

05/09/16: "Explaining the Mystery of Mercury's Motion"

09/21/16: Dark Matters

09/29/16: Space Weather

## **Hunter Hollins**

### *Articles*

"Astronaut Salesmen: Selling Savings Bonds in the Age of Heroic Spaceflight," *Quest: The History of Spaceflight Quarterly*, 23, no. 3 (2016), 3-14.

Coauthor, "Volunteers Restore Smithsonian's Ranger Spacecraft in Los Angeles," *The Affiliate: News about Smithsonian Affiliates*, Fall 2015.

### *Articles and Chapters Submitted*

"Cold War North Korea and United States naval intelligence" to *War in History*, 5/10/16

"Astronaut Salesmen: Selling Savings Bonds in the Age of Heroic Spaceflight" to *Communication Quarterly*, 5/17/16 (Declined); to *Quest*, 6/16/16.

### *Papers presented at Professional Conferences*

Attended SHOT in Albuquerque, presented at Graduate Student Workshop

### *Other Professional Talks*

DSH Brownbag presentation: "Technology on Parade: Treasury's use of Mercury Capsules"

## Book Reviews

Review of "The Road to Modern Rocketry: Launch Bases, Centers, Museums, Memorials, and Monuments," *Quest: The History of Spaceflight Quarterly*, 22:4 (2015): 64.

## Blogs

"Iconic Apollo Photography Sells Savings Bonds," Air & Space Blog, July 21, 2016:  
<https://airandspace.si.edu/stories/editorial/iconic-apollo-photography-sells-savings-bonds>

"Operation Moon Bounce," Air & Space Blog, July 24, 2016:  
<https://airandspace.si.edu/stories/editorial/operation-moon-bounce>

## Other Scholarly Activity

National History Day: Assisted students Isabel Metzler, Emma Bates, and Megan Kidd from George Washington Middle School with their project on ASTP. Their project, "The Apollo-Soyuz Test Mission" won first place in the Virginia District 5 regional National History Day for group performance.

"Other Aerospace History News: National Air and Space Museum," *News and Notes*, 33, No. 2, (Second Quarter 2016), 18-20, NASA History Program Office, National Aeronautics and Space Administration.

Courses at George Washington University:

"History for Historians" with Marcy Norton

-Term Paper: "Gender and the Cold War Astronaut"

"Modern American Foreign Policy" with Jim Hershberg

-Term Paper: "We Came in Peace for All Mankind? Nixon, Japan, and the Moon, 1969-1970"

"History and Its Uses in International Affairs" with Adam Howard

-Term Paper: "South Korea and Japan: A Forced Cold War Normalization"

"Rethinking Cold War History" with Jim Hershberg

-Term Paper: "Cold War North Korea and U.S. Naval Intelligence Gathering"

## Peter Jakab

### Articles

"Huey 10126: A Curator's Journey of Discovery." In *Engaging Smithsonian Objects through Science, History, and the Arts*, edited by Mary Jo Arnoldi. Washington, D.C.: Smithsonian Institution Scholarly Press, 2016.

"1903 Wright Flyer." In *Milestones of Flight: The Epic of Aviation with the National Air and Space Museum*, edited by F. Robert van der Linden, Alex M Spencer, and Thomas J. Paone. Minneapolis, MN: Zenith Press, 2016.

"1909 Wright Military Flyer and 1911 Wright EX *Vin Fiz*." In *Milestones of Flight: The Epic of Aviation with the National Air and Space Museum*, edited by F. Robert van der Linden, Alex M Spencer, and Thomas J. Paone. Minneapolis, MN: Zenith Press, 2016.

"Caudron G.4." In *Milestones of Flight: The Epic of Aviation with the National Air and Space Museum*, edited by F. Robert van der Linden, Alex M Spencer, and Thomas J. Paone. Minneapolis, MN: Zenith Press, 2016.

"Foreword." In *Airlines: Charting Air Transport History with R.E.G. Davies*, edited by Christopher H. Sterling and Jackie Scott-Mandeville. Strathlachlan, Argyll, Scotland: Paladwr Press, 2016.



## Layne Karafantis

### *Service to the Profession*

2016 to the Present: Reviews Editor, *Endeavour*

2016 to the Present: Sites Committee Member, Society for the History of Technology

2016 to the Present: Reviewer, *Journal of History Research*

2016-2017: Organized and hosted the 10<sup>th</sup> meeting of the Laboratory History Workshop

2016: Book Proposal Reviewer, Oxford University Press

### *Articles*

Layne Karafantis, "Telstar, the Cold War, and Global Communications," *Vulcan 4* (2016): 112-134.

### *Encyclopedia Entries*

Layne Karafantis, "SR-71," in Gregory Moore, ed., *Encyclopedia of US Intelligence*, T&F, 2016.

Layne Karafantis, "Lockheed," in Moore, ed., *Encyclopedia of US Intelligence*, 2016.

### *Book Reviews*

Layne Karafantis, Review of Monique Laney, *German Rocketeers in the Heart of Dixie: Making Sense of the Nazi Past During the Civil Rights Era* (Yale University Press, 2015), *Quest*, 23 2, 2016.

Layne Karafantis, Review of Michael Peter Johnson, *Mission Control: Inventing the Groundwork of Spaceflight* (Gainesville, FL: University Press of Florida, 2015), *Quest*, 23 2, 2016.

Layne Karafantis, Review of Everett Carl Dolman, *Can Science End War?* (Cambridge, UK: Polity, 2016), H-Net Reviews, available at: <https://www.h-net.org/reviews/showpdf.php?id=45881>

### *Blogs*

Layne Karafantis, "Setting Records with the SR-71 Blackbird," *NASM Stories*, 28 July 2016, <https://airandspace.si.edu/stories/editorial/setting-records-sr-71-blackbird>

### *Other*

Layne Karafantis, "Modern Military Aircraft," *Air & Space Collections Rationale*, 2016.

### *Invited Talks*

2016: "Under Control: Constructing the Nerve Centers of the Cold War," at the History Seminar on Contemporary Science and Technology, NASM, Washington, DC, March.

2016: "The Blue Cube: Cold War Espionage Hidden in Plain Sight," at the PACHS Technology Working Group, Philadelphia, PA, February.

### *Conference Papers Presented*

2016: "Black Operations and the Blackbird: Closed Societies and Intelligence-Gathering Technologies or Observations on the Current State of Military Aviation History," at the ICOHTEC Annual Meeting in Porto, Portugal, July.

## **Thomas C. Lassman**

### *Book*

Submitted Manuscript (tentatively titled, "From Quantum Revolution to Institutional Transformation: Edward Condon and the Dynamics of Science in the United States") to University of Pittsburgh Press in FY 2015. Bulk of revisions completed in FY 2016.

### *Book Chapters*

Drafted two book chapters for volume 4 of OSD Acquisition History Series:

Chapter 2: "Acquisition Policy and Management in the Office of the Secretary of Defense, 1981-1985."

Chapter 3: "Acquisition Policy and Management in the Office of the Secretary of Defense, 1985-1989."

### *Papers presented at Professional Conferences*

"Science, Technology, and the Reagan-Era Defense Buildup: The Management of Weapon Systems Acquisition in the Department of Defense, 1981-1989," History of Science Society Annual Meeting, San Francisco, Calif., November 19-22, 2015.

"Rethinking the History of the Reagan-Era Defense Buildup: The Challenge of Managing Weapons Acquisition in the Department of Defense, 1981-1985," Policy History Conference, Nashville, Tenn., June 1-4, 2016.

### *Other Professional Talks*

"Government Science in Cold War America: Edward Condon and the Transformation of the National Bureau of Standards, 1945-1951," National Institute of Standards and Technology Colloquium Series, Gaithersburg, Md., January 8, 2016.

### *Blogs*

Posted: August 3, 2016

<https://airandspace.si.edu/stories/editorial/peace-through-strength-two-cold-war-weapons>

### *Other Scholarly Activity*

Manager, NASM History Seminar on Contemporary Science and Technology.

Member of the SI History of Science and Technology Fellowship Committee.

Managed revision of the DSH collections rationale.

### *Public Programs*

Ask-an-Expert: "The Evolution of the U.S. Army's Advanced Attack Helicopter," UHC, October 2015

Ask-an-Expert: "Peace through Strength: The Political Meanings of the Pershing II and SS-20 Intermediate Range Ballistic Missiles," NASM Mall, June 2016

Facebook Live Event with NASA astronaut Col. Timothy Copra and Secretary of the Army Eric Fanning, Moving Beyond Earth Gallery, September 14, 2016

Participant in Ask-a-Curator Day, September 2016

Coordinator, NASM Trophy

## **Jennifer Levasseur**

### *Articles and Chapters Submitted*

"The Selfie Goes to Space? Searching for a True Original," submitted 3/31/2016 to *International Journal of Communication* (currently in review).

### *Papers Presented at Professional Conferences*

"Overcoming the Past: Using New Sources to Interpret Artifacts," Society for the History of Technology (SHOT) Annual Conference, Albuquerque, NM, October 10, 2015.

"The Astronaut Selfie: Part of a Fad or Part of Tradition?" Mid-Atlantic Popular & American Culture Association (MAPACA) Annual Conference, Philadelphia, PA, November 5, 2015.

"Digital Transformations as seen in *Outside the Spacecraft*," Museum Computer Network (MCN) Annual Conference, Minneapolis, MN, November 7, 2015.

"Possessing Time: A Narrative of Astronauts, a Museum, and the Significance of Timekeeping Device Ownership," Material Culture Symposium for Emerging Scholars, Winterthur Museum/University of Delaware, Wilmington, DE, April 23, 2016.

### *Other Professional Talks*

"What's Happening Today? The Museum and NASA," Westminster at Lake Ridge Retirement Community, Woodbridge, VA, January 14, 2016

"The Astronaut-Eye View," David Brown Planetarium, Arlington, VA, April 15, 2016.

### *Book Reviews*

*Spaceshots and Snapshots of Projects Mercury and Gemini: A Rare Photographic History*. By John Bisney and J.L. Pickering. *Quest* 22 (2015), no. 4, 58.

*The Orbital Perspective: Lessons in Seeing the Big Picture From a Journey of 71 Million Miles*. By Ron Garan. *Quest* 23 (2016), no. 1, 57.

*How Outer Space Made America: Geography, Organization and the Cosmic Sublime*. By Daniel Sage. *Quest*. *Quest* 23 (2016), no. 3, 63.

### *Blogs*

"A Most Interesting Man on the Moon: Remembering Edgar D. Mitchell," Air & Space Blog, February 9, 2016: <http://blog.nasm.si.edu/space/remembering-edgar-d-mitchell/>

"How We Saw the Moon: Top Ten Apollo Images," Air & Space Blog, March 9, 2016: <http://blog.nasm.si.edu/space/how-we-saw-the-moon-top-ten-apollo-images/>

### *Other Scholarly Activity*

Mutual Concerns of Air and Space Museums, Program Chair. New York City. April 1-4, 2016.

"Curating the Present: Challenges and Opportunities," Chair and Organizer, Mutual Concerns, New York City, April 2, 2016.

"Digital Trajectories: Transforming the Exhibition Process and the Digital/Physical Connection," Chair and Comment, Mutual Concerns, New York City, April 3, 2016.

#### *Public Programs*

Ask an Expert presentation, "Saving Time: Conserving Astronaut Chronographs," Smithsonian National Air and Space Museum, Udvar-Hazy Center, March 3, 2016.

Ask an Expert presentation, "Dr. Don Pettit: Mr. Wizard in Space," Smithsonian National Air and Space Museum, April 20, 2016.

What's New in Aerospace, "Appropriate Attire," June 9, 2016 (host, with guests Dava Newman and Cathy Lewis).

Ask an Expert presentation, "How We Saw the First Lunar Landing," Smithsonian National Air and Space Museum, July 20, 2016.

What's New in Aerospace, "Milestones – The Inside Stories," July 26, 2016 (host, with guests Margaret Weitekamp, Bob Van der Linden, Ashley Hornish, Malcolm Collum, and Vicki Portway).

#### **Cathleen S. Lewis**

##### *Book Submitted*

*Curating the Red Stuff: A Century of Russian Cosmonauts.* Submitted to SISP (under review)

##### *Articles and Chapters Submitted*

##### *Papers presented at Professional Conferences*

"Once and Future Technology at the Fair: The Rise, Fall and Unlikely Rebirth of VDNKh and the Buran Shuttle." Paper presented at the Revealing the Cosmonaut Symposium. London, UK: Science Museum London, 5 February 2016.

"Religious. Faith, Secular Culture and Technology. Converge: Cosmonaut Rituals at Baikonur." In *The Embodiment of Creative Memory*, chair Susan McCaffrey. Southern Conference on Slavic Studies. Tuscaloosa, Alabama, 19 March 2016.

##### *Other Professional Talks*

"The History of Spacesuits" at a seminar on medical profession at the Association of American Medical Colleges in Washington, D.C. on Thursday, March 30, 2016. The other panelists were Vincent J. Michaud, NASA's Deputy Chief of Health and Medical Officer and Charles H. Mathers, University of Texas, Medical Branch Assistant Professor. Medical Director, Aerospace Medicine Center and Assistant Chief Medical Officer Center for Polar Medical Operations.

"Alternatives to Traditional Historical Careers" at the George Washington University Department of History on Friday, April 8, 2016.

"The History of Spacesuit Materials," along with Lisa Young in a seminar for the Smithsonian Institution Montgomery College Fellows on Thursday, April 14, 2016.

##### *Book Reviews*

Exhibit review of "Places of Invention" at the Museum of American History to contribute to the evaluation for the Society for the History of Technology's Dibner Prize for 2016.

## *Blogs*

"Discovering Alan Eustace's Asymmetrical Gloves." In AirSpaceBlog: Behind the Scenes at the National Air and Space Museum. 20 January 2016. 12 March 2016 <<http://blog.nasm.si.edu/highlights-from-the-collection/eustaces-asymmetrical-gloves/>>.

## **Valerie Neal**

### *Book*

*Spaceflight in the Shuttle Era: Ideas, Images, Icons* in copy-edit at Yale University Press

### *Other Professional Talks*

*Works in Progress* program, "Introducing the Sally K. Ride Collection: Papers and Artifacts from America's First Woman in Space," with Dr. Margaret Weitekamp and Patricia Williams, Smithsonian National Air and Space Museum, October 20, 2015.

"Space History in Seven Quick Stories," National Defense University, Washington DC, January 14, 2016.

"Curating the Present to Preserve the Past and Preview the Future," Mutual Concerns of Air and Space Museums, Jersey City, NJ, April 2, 2016.

"Remembering David M. Brown" (on his 60<sup>th</sup> Birthday), David M. Brown Planetarium, Arlington, VA, April 16, 2016.

### *Book Reviews*

(Review) Rhea Seddon, *Go For Orbit*, in *Quest, The History of Spaceflight Quarterly*, 23:3 (2016): 55.

(Review) Roger D. Launius, John Krige, and James I. Craig, eds., *Space Shuttle Legacy: How We Did It and What We Learned*. in *Quest, The History of Spaceflight Quarterly*, 23:3 (2016): 58.

## *Blogs*

"A Surprise Call From Space," *The National Air and Space Museum Stories*.  
[https://airandspace.edu/stories/editorial/surprise\\_call\\_from\\_space](https://airandspace.edu/stories/editorial/surprise_call_from_space), 2015.

### *Public Programs*

Ask an Expert presentation (Mall), "Fifteen Years of Human Presence on the International Space Station," Smithsonian National Air and Space Museum, November 4, 2015.

Ask an Expert presentation (UHC), "Spacewalker's Workstation: The Manipulator Foot Restraint," Smithsonian National Air and Space Museum, May 12, 2016.

*What's New in Aerospace* program (live audience, telecast, webcast), "Sally Ride: Curating Her Life," with Dr. Margaret Weitekamp, Patricia Williams, and Dr. Tam O'Shaughnessy (donor of the Sally K. Ride collection), Smithsonian National Air and Space Museum, October 6, 2015.

*What's New in Aerospace* program (live audience and webcast), "John D. Olivas: From Cowboy Boots to Space Boots," Smithsonian National Air and Space Museum, April 5, 2016.

*What's New in Aerospace* program (live audience, telecast, webcast), "Kjell Lindgren: Science and Spacewalking on the International Space Station," Smithsonian National Air and Space Museum, April 26, 2016.

We Share STEM Family Day, "Being a Museum Curator," Udvar-Hazy Center, August 6, 2016.

## **Allan A. Needell**

### *Other Professional Talks*

"Webb, the New Deal and 'Space Age Management' work-in-progress presentation to the Physical Sciences Working Group of the Consortium for History of Science and Medicine, an online seminar based in Philadelphia. March 16, 2016

### *Blogs*

"*Transcribing Apollo Stowage Lists With Help from Volunteers*," Blog Posted on November 12 2015 by The National Air and Space Museum.

"[\*Apollo 11: The Writings on the Wall\*](#)," Blog Posted on February 11, 2016 by The National Air and Space Museum

"*Investigating the Writing on Columbia's Walls*," Blog Posted on March 3, 2016 by The National Air and Space Museum

"*Command Module Columbia in 3D*," Blog Posted on Wed, July 20 2016 by The National Air and Space Museum

"*Curator's Dilemma: Displaying the Lunar Module*" Blog Posted on July 21 2016 by The National Air and Space Museum

### *Other Scholarly Activity*

"[\*Analysis of Handwritten Notes inside the Cabin of Apollo 11 Spacecraft CM-107 "Columbia"\*](#)," Web Article (*Apollo Flight Journal*) (multi-author) posted on March 3, 2016.

### *Public Programs*

"*LM-2 Dressed as LM-5 (Eagle)*," *Ask an Expert presentation*, NMB 9-28-2016

"*Apollo 11 Artifacts at the Udvar Hazy Center*" *Curator's Choice Presentation*, UHC 7-21-2016

## **Michael J. Neufeld**

### *Book*

*Spacefarers: Images of Astronauts and Cosmonauts in the Heroic Age of Spaceflight*, edited by Michael J. Neufeld. Paperback edition (Washington, DC: Smithsonian Institution Scholarly Press, 2016).

### *Short Articles*

"The V-2 and the Politics of Memory at the Smithsonian," in Françoise Dupré, *Dora Project* (London: Françoise Dupré, 2016), 42-44.

## Articles

"Practicing for Space Underwater: Inventing Neutral Buoyancy Training 1963-1968." Co-authored with John B. Charles. *Endeavour* 39 (Dec. 2015), pp. 147-59.

"The Difficult Birth of NASA's Pluto Mission," *Physics Today* 69, no. 4 (April 2016), 40-47.

## Articles and Chapters Submitted

"The Discovery Program: Competition, Innovation and Risk in Planetary Exploration," *Seeds of Discovery*, edited by Roger D. Launius and Howard McCurdy.

"Cold War—But No War—in Space." *Militarizing Outer Space*, edited by Alexander C.T. Geppert, Tilman Siebeneichner and Daniel Brandau.

"The Invention and Diffusion of Neutral Buoyancy Training." IAA History series, *66<sup>th</sup> International Astronautical Congress*, edited by Tal Inbar.

## Papers presented at Professional Conferences

*66<sup>th</sup> International Astronautical Congress*, Jerusalem, Israel, "The Invention and Diffusion of Neutral Buoyancy Training," Oct. 15, 2015.

*Seeds of Discovery Workshop*, National Air and Space Museum. "The Discovery Program: Competition, Innovation and Risk in Planetary Exploration." Dec. 11, 2015.

*Futuring the Stars: Europe in the Age of Space*, Freie Universität Berlin, Germany. Panel member and commentator in "Panel VII: Revisiting Space," Mar. 19, 2016.

*Society for History of Technology Annual Meeting, Singapore*. "Thinking Beyond the State: The Rise of a Global, Transnational Space Business," June 24, 2016.

*Society for History of Technology Annual Meeting, Singapore*. "The Discovery Program: Competition, Innovation and Risk in Planetary Exploration." June 24, 2016.

## Other Professional Talks

"A Short History of the National Air and Space Museum," in the "Washington 101" class at the Catholic University of America, Feb. 12, 2016

"How We Got to Pluto," David M. Brown Planetarium, Arlington, VA, June 17, 2016

## Book Reviews

*After Apollo? Richard Nixon and the American Space Program*. By John M. Logsdon. *Quest* 22 (2015), no. 4, 62-63.

## Blogs

"The World's First Space Rendezvous," *AirSpace*, Dec. 15, 2015: <http://blog.nasm.si.edu/space/first-space-rendezvous/>

"Inventing Underwater Training for Walking in Space," *AirSpace*, Feb. 17, 2016: <http://blog.nasm.si.edu/space/inventing-underwater-training/>.

“Robert Goddard and the First Liquid-Propellant Rocket,” *AirSpace*, Mar. 16, 2016:  
<http://blog.nasm.si.edu/space/robert-goddard-and-the-first-liquid-propellant-rocket/>.

“The First Pictures from the Moon’s Surface,” NASM website story, June 15, 2016 (formerly *AirSpace*, June 1, 2016)  
<https://airandspace.si.edu/stories/editorial/first-pictures-moon%E2%80%99s-surface>

#### *Other Scholarly Activity*

Co-chair of SHOT Albatrosses aerospace history interest group, 2015- ; chair of Albatrosses meeting at the Singapore SHOT conference, June 26, 2016.

Co-Organizer of *Seeds of Discovery* workshop, NASM, Dec. 11, 2016

#### *Public Programs*

“Gemini VI and VII: 50<sup>th</sup> Anniversary of the First Rendezvous in Space,” Ask an Expert talk, NASM, Dec. 16, 2015

“Space Stations: From Disney to ISS,” Ask an Expert talk, NASM, Feb. 3, 2016

“First Americans to Walk in Space,” Ask an Expert talk, NASM, June 1, 2016

“Lunar Orbiter: Mapping the Moon for Apollo, Ask an Expert Talk, NASM, Aug. 17, 2016

“Robert Goddard’s Rockets,” Ask an Expert Talk, UHC, Aug. 18 and 23, 2016

### **Carolyn Russo**

#### *Book Review*

*Abandoned in Place – Preserving America’s Space History - Book Review*, Volume 23, #3 issue of “Quest: The History of Spaceflight” (August, 2016)

### **Matthew B. Shindell**

#### *Book*

Submitted 9/29/2016 to University of Chicago Press, “H: The Life and Science of Harold C. Urey.”

#### *Articles*

“Geophysics,” in Georgina M. Montgomery and Mark A. Largent, eds., *A Companion to the History of American Science*. Malden, MA: Wiley Blackwell, 2016. pp. 120-133.

#### *Articles and Chapters Submitted*

Submitted 8/2016, contributed to chapters for “Assessing Assessments” book written with co-authors. Contract with University of Chicago Press.



### *Papers presented at Professional Conferences*

"A Man of Peace in Times of War: Harold C. Urey, Pacifism, and National Service in the Two World Wars." History of Science Society annual meeting, San Francisco, California, November 21, 2015.

Introduction to "From Astronomy and Geology to Astrobiology." Gordon Cain Conference, Chemical Heritage Foundation, May 26-27, 2016.

### *Other Professional Talks*

"A Man of Peace in Times of War: Harold C. Urey, Pacifism, and National Service in the Two World Wars." Smithsonian Institution - History Seminar on Contemporary Science and Technology. January 21, 2016.

### *Book Reviews*

Shindell, Matthew 2016. Soviet Space Mythologies: Public Images, Private Memories, and the Making of a Cultural Identity, by Slava Gerovitch. *Quest: The History of Spaceflight Quarterly*, 23(2): 62-63.

Shindell, Matthew 2016 (forthcoming). Marketing the Moon: The Selling of the Apollo Lunar Program, by David Meerman Scott and Richard Jurek. *Distillations*, 2(2), NA.

### *Blogs*

11/21/2015: "Remembering Robert Willard Farquhar." <http://blog.nasm.si.edu/new-events/remembering-robert-w-farquhar/>

02/26/2016: "A New Moon Rises: An Exhibition Where Science and Art Meet." <http://blog.nasm.si.edu/exhibitions/a-new-moon-rises-an-exhibition-where-science-and-art-meet/>

### *Other Scholarly Activity*

01/2016: Reviewed book proposal for Oxford University Press.

Fall 2016: Teaching "Spaceflight and Society" course for Georgetown University's Science, Technology, and International Affairs program.

### *Public Programs*

Guest on STEM in 30, "Mars" episode, October 21, 2015. <http://airandspace.si.edu/explore-and-learn/stem-in-30/archive/Index.cfm?id=17779>

Host of What's New in Aerospace, "Lunar Reconnaissance Orbiter Camera" episode, March 10, 2016. <https://airandspace.si.edu/explore-and-learn/whats-new-aerospace/archive/?id=19810>

09/08/2016: Host at Udvar Hazy Center for Star Trek 50<sup>th</sup> Anniversary screening of first TV episode.

### *Ask and Expert talks*

04/14/2016 The Pathfinder Mission to Mars

05/11/2016 Mariners to Mars, Mapping the Red Planet

06/29/2016 The Viking Who Stayed Home

## Margaret A. Weitekamp

### *Book Chapters*

"Men into Space: The Space Race and Entertainment Television" in Lori Maguire, ed., *The Cold War and Entertainment Television* (Newcastle upon Tyne, United Kingdom: Cambridge Scholars, 2016), 203-17.

### *Articles*

Weitekamp, Margaret A. "Two Enterprises: Star Trek's Iconic Starship as Studio Model and Celebrity." *Journal of Popular Culture and Television*, 44 (2016): 2-13.

### *Articles and Chapters Submitted*

"'We're physicists': The image of scientists in *The Big Bang Theory*," to *Physics Today* (under review).

### *Papers presented at Professional Conferences*

"Space Stations on a Changing Frontier: Race, Gender, and Space Science Fiction," History of Science Society annual meeting, San Francisco, California, November 21, 2015

### *Other Professional Talks*

Chair, "Whose History? Museum Collections, Public Display, and Interpreting the History of Technology," Society for History of Technology annual meeting, Albuquerque, New Mexico, October 10, 2015; with Tilly Blyth, Science Museum, London; Sophie Goggins, National Museums Scotland; and Jennifer Levasseur, Smithsonian National Air and Space Museum

Panelist, *Works in Progress* presentation, "Introducing the Sally K. Ride Collection: Papers and Artifacts from America's First Woman in Space," Smithsonian National Air and Space Museum, October 20, 2015; with Valerie Neal and Patricia Williams

Speaker, People>Passion>Promise event series, Smithsonian Institution capital campaign, Seattle, December 2, 2015

### *Book Reviews*

Review of *Go, Flight!: The Unsung Heroes of Mission Control, 1965-1992* in *Quest: The Quarterly Journal of Spaceflight*, 22:1 (2016), 64.

"From twilight to limelight: Meet the human computers in heels who juggled science and family, says Margaret A. Weitekamp," Book of the Week review of Nathalia Holt, *Rise of the Rocket Girls: The Women Who Propelled Us, From Missiles to the Moon to Mars* (Little, Brown and Company, 2016) in *Times Higher Education*, July 28, 2016, 44-5.

### *Blogs*

"NASA's Early Stand on Women Astronauts: 'No Present Plans to Include Women on Space Flights,'" AIRSPACE blog, March 17, 2016, <http://blog.nasm.si.edu/archives/nasas-early-stand-on-women-astronauts/>

"Enterprise Studio Model Back on Display, June 27, 2016, <https://airandspace.si.edu/stories/editorial/enterprise-studio-model-back-display>

With Malcolm Collum and David Wilson, "Revealing the Colors of the Star Trek *Enterprise*," August 17, 2016, <https://airandspace.si.edu/stories/editorial/revealing-colors-star-trek-enterprise>

*Public Programs*

Principal investigator, "Building *Star Trek*," Smithsonian Channel, airdate September 4, 2016

Solo presentation and panel with Smithsonian Channel, "Mission: New York," New York City, September 3, 2016

Moderator/panelist, Trek Talks: "Science, Smithsonian and *Star Trek*," Comic-Con, San Diego, July 22, 2016

Presenter, "The Restoration of the USS *Enterprise* in the Smithsonian," Shore Leave, a Fan-run Science Fiction Convention, Hunt Valley, Maryland, July 16, 2016

Featured expert, "Generation X," six-part series for National Geographic, Episode 3, "The Geek Shall Inherit the Earth," original airdate February 28, 2016.

"Light Years and Warp Drives: Time/Distance in Space," Creative Mornings DC, National Air and Space Museum, December 18, 2015

*What's New in Aerospace* series:

Televised panel participant, "Sally Ride: Curating Her Life," with Dr. Valerie Neal, Patricia Williams, and Dr. Tam O'Shaughnessy, the co-founder of Sally Ride Science, October 6, 2015

"Boeing Milestones of Flight: The Inside Stories," July 26, 2016

Family Day participation:

Udvar-Hazy Open House, January 30, 2016

Women in Aviation/Space Family Day, March 12, 2016

Milestones of Flight Family Day, July 16, 2016