


# GRAA NEWSLETTER

P.O. Box 1184, Greenbelt, MD 20768-1184

February 2023 <http://GoddardRetirees.org> 39th Year of Publication

**UPCOMING LUNCHEONS:** We meet at 11:15 AM on the 2<sup>nd</sup> Tuesday of each month at the American Legion Post #136 at 6900 Greenbelt Road. **Reservations are required;** please contact [graalunch@gmail.com](mailto:graalunch@gmail.com) (preferred) or call (240) 720-7833 **before Thursday, February 9th.**

<b>February 14</b>	 <p><b>Mark Lupisella</b>, Exploration Integration Manager, Exploration and Space Communications Division, with specialists Dave Folta (Lunar IceCube flight dynamics), Cliff Brambora (Lunar IceCube instrument), and Ruthan Lewis (lunar base site planning) will present “<b>How Goddard is Contributing to Artemis</b>”.</p>
<b>March 14</b>	<p><b>Elaine Shell, Jonathan Wilmot, and David McComas</b> will present “<b>The core Flight System (cFS) Software</b>”. The cFS, originally engineered to apply the “faster, better, cheaper” principle to Goddard mission flight software, has since been licensed as open source and is now being used in the classroom and on projects ranging from CubeSats to the Artemis Gateway program.</p>

## **COMMENTS FROM TONY COMBERIATE AND ARLIN KRUEGER**

We started our 39<sup>th</sup> year with a presentation entitled “Library Information Services” from Michael Chesnes, Deputy Program Manager for Select Federal, who manages the new 21<sup>st</sup> Century Goddard Library. The Library underwent a physical renovation in the 2015-2016 timeframe. The multipurpose facility still has a desk for circulation, but now includes movable tables and furniture to accommodate any type of group function or research effort. Organizationally, the Library is part of the Goddard Information and Collaboration Center, which also includes the Goddard Institutional Repository and the Goddard Archives, all under the Goddard Office of Communications (Code 130). The Archives' scope is evolving into an agency-wide model. Future capabilities will include greater interoperability among library facilities and an agency-wide History and Information Services Division, which will include History, Archives, and FOIA organizations.

The Library has all the traditional information services including circulation and reference but emphasizes in-depth searches on a subject or on people, overviews of a particular topic for a proposal team or for intern research, and historical research leading to supplementing research details and properties. Before COVID, it had a Mobile Librarian presence in Buildings 33 and 34 and now has an outreach capability and provides other services for teleworkers. The new capabilities are having a significant impact on missions, instruments,

campaigns, and the researchers themselves. Recent examples include citation counts, bibliometric visualization, and article-level networks, which provide valuable information for authors, institutions, and publishers. The Library has provided data on a number of Goddard-authored publications for the 60<sup>th</sup> Anniversary, researched peer-reviewed articles for specific missions, provided publication lists associated with particular spacecraft, and did an extensive literature search on the bibliometric impact of missions that were candidates for robotic servicing.

Trends and capabilities for the future include more open access to all resources; providing more “beautiful” data sets, citing data sets, scientometrics (measuring and analyzing scientific output as well as scholarly literature), geographics mashups, institutional repositories, user experience ecosystems, and the identification of collaborators and funders.

Goddard retirees can email the library at [gsfc-dl-library@mail.nasa.gov](mailto:gsfc-dl-library@mail.nasa.gov) or call 301 286-7218. They have a Facebook site at <https://facebook.com/GSFCLibrary>.

**SPECIAL NOTE:** GRAA depends on donations to print and mail Newsletters and biennial Directories. Send donations to **GRAA, P. O. Box 1184, Greenbelt, MD 20768-1184**. Please send us your email address so that we can send electronic copies to save postal costs. Past Newsletters and videos of recent luncheon talks are available at our website <https://goddardretirees.org>.

**TREASURER’S REPORT:** Jackie Gasch received tax-deductible donations from the following: Robert DeFazio, Richard Strafella, Lynda Willingham, Carmie Peavler, Ed Powers, in memory of Elmer Travis, and Mark Walther, in memory of all 2022 departed GRAA members.

**FROM THE GODDARD ARCHIVES:** On February 20, 1993, the Astro-D/ASCA-X-ray Astronomy satellite was launched on a Japanese JAXA M-3 SII rocket.

#### **REMEMBERING OUR FORMER COLLEAGUES:**

**James P. Shaughnessy**, 91, passed away naturally on September 4, 2022. Jim was born in Pittsburgh, Pa., on August 4, 1931. He had a very successful career at the Johnson Space Center before coming to Goddard in the early 1970s, where he was the Network Procedures and Evaluation Branch Head until he retired in 1984. He sent men to the moon during his career with NASA and was a lifelong learner, valuing education and curiosity.

**Judith N. Brunner**, 74, passed away on December 13, 2022; the notice in the December 2022-January 2023 GRAA newsletter incorrectly listed her date of death as July 24, 2022.

**Vincent J. Gigliotti**, 94, died from natural causes on December 17, 2022, at his home in Lanham, MD. Vincent was born December 23, 1927, in Norristown, PA, and attended Temple University. His military service spanned 43 years. In 1963, he moved to Greenbelt, MD to begin his career as a Contract Specialist at NASA’s Goddard Space Flight Center. His tenure, working in various positions for 47 years until his retirement in 2012 at the age of 84, allowed him the honor of supporting many historic NASA Space Missions.

**Elmer W. Travis**, 90, passed away peacefully on December 24, 2022. Born in Marion, Kentucky, Elmer was a Mechanical Engineer who held positions at the U.S. Naval Ordnance Laboratory, served as a Branch Chief at Goddard, Vice President of Operations at McDonnell Douglas (Boeing), and finished out his career as President and Chief Operating Officer at Swales Aerospace. He is survived by his wife, Ann, who is also a Goddard retiree.

**Daniel C. McHugh**, 90, died peacefully at his home in Arlington on December 25, 2022. Daniel worked as a technician for NASA at Goddard for more than 40 years, receiving many honors and awards during his career.

**John M. Klineberg**, 84, died on December 31, 2022, in Davis, CA. After earning an engineering degree from Princeton and an MS and Ph.D. from Cal Tech, Dr. Klineberg was drawn to the Space Program. He was inspired by President Kennedy's call to public service for America's best and brightest. His NASA career began in 1970 at Ames Research Center and then HQ, where he championed several aeronautics research projects. He was appointed Deputy and ultimately Director of Lewis Research Center, and in 1990, he was appointed Goddard Center Director winning numerous medals and awards of distinction, including an Emmy, the Presidential Rank of Distinguished Executive, and Meritorious Executive. Through his career, he was able to establish partnerships with local universities and businesses to source talent and support local communities, re-invigorate investment in basic research, launch the GOES environmental satellite network, and lead the successful mission to repair the Hubble Space Telescope. In 1995, Dr. Klineberg left NASA and moved to the San Francisco Bay Area, where he continued contributing to aeronautics and space systems through private industry.

**Martin D. "Marty" Menton, Jr.**, 89, an 18-year resident of Annapolis and previously of New Carrollton, passed away on January 3, 2023. Born in Queens, NY on April 18, 1933, he graduated from New York University with honors, then earned a master's degree from George Washington University. He served his country in the U.S. Navy as an air traffic controller from 1952-1955, then joined Goddard in 1966 before retiring in 1994 as a Deputy Project Manager.

**Robert "Bob" Nagel**, 100, died on January 5, 2023 at the Buckingham's Choice Retirement Home in Adamstown, MD. Robert served in the U. S. Navy during WWII as a gun captain on the Destroyer Escort PF41 El Paso in both the European and Pacific conflicts. After his discharge, he completed a machinist apprenticeship program at the U. S. Naval Gun factory, and after many years of government service he retired from NASA as an Aerospace Machinist. He is survived by his brother Walt, also a GSFC retiree, and his wife Betty Lou.

**William L. "Bill" Woodruff**, 85, of The Villages, Florida, died on January 11, 2023. Born on October 18, 1937, in Meridian, Mississippi, he graduated from the University of Dayton in 1960. Bill received a second degree from the University of Maryland in 1968. After working in the Propulsion Laboratory at Wright Patterson Air Force Base testing jet engines, he began working at Goddard on rocket propulsion systems for scientific satellites. He was responsible for testing rocket engines for attitude control systems and orbit maneuver systems. He headed the

Propulsion and the Flight Safety Branches. After retiring from NASA, he worked on GOES and TDRS as a contractor for another 10 years.

**Wilma Ann Branchflower**, 86, passed away peacefully Thursday, January 12, 2023, in Washington D.C. Born in Cincinnati Ohio, she earned a bachelor's degree in Education from the Memorial University of Newfoundland and started as a secretary at NASA, and eventually retired as a contract specialist with the Peace Corps. Wilma is survived by her husband, Gilbert Branchflower.

**Ludwig (Lou) Umscheid**, 85, of Skillman, New Jersey, died January 14, 2023, after a brief COVID-related illness. After graduating from Fordham University, he served in the U.S. Air Force as a weather forecaster in the Florida Panhandle. He earned master's degrees from New York University and Adelphi University and spent his career as a research meteorologist working with numerical weather prediction models at NASA's Goddard Institute for Space Studies in New York.

**Aaron Temkin, 93**, of Washington, DC passed away on January 27, 2023, after a long illness. Aaron was born in Morristown, New Jersey, graduated summa cum laude in physics from Rutgers University in 1951, and obtained his Ph.D. in physics from MIT in 1956. He completed a Fulbright fellowship at the University of Heidelberg and was subsequently awarded an associateship at the Naval Research Laboratory (NRL). From NRL he went to the National Bureau of Standards. In 1960, he began his long and distinguished career in the Solar Physics Branch (Code 682) at Goddard as a theorist in atomic physics, specializing in low-energy electron-atom collisions and electron-molecule scattering. He authored or co-authored over 200 technical papers and wrote portions of several books. Aaron retired from NASA in 2005.