

GOES-R: Understanding the Critical Role of Weather Satellites

November 27, 2024

Space-based capabilities have long played a critical role in weather and environmental monitoring on Earth, enabling innovative advancements for weather forecasting, natural disaster preparation and rescue coordination. The importance of the reliable—and potentially lifesaving—imaging and data these capabilities provide has only grown as damaging natural disasters including hurricanes and wildfires have become pronounced in recent years.



As a collaborative effort between NOAA and NASA, the Geostationary Operational Environmental Satellites (GOES) program maintains a two-satellite operational system for continual view of the Western Hemisphere from approximately 22,300 miles above Earth – one satellite in the GOES East position and the other in the GOES West position. Together, GOES-East and GOES-West watch over more than half the globe, from the west coast of Africa to New Zealand and from near the Arctic Circle to the Antarctic Circle.

The GOES constellation protects the 1 billion people who live and work in the Americas. The current generation, known as the GOES-R series, are the U.S.'s most advanced fleet of geostationary weather satellites.

Throughout the mission lifecycle, The Aerospace Corporation supported the GOES-R program across a breadth of activities and milestones, contributing its unparalleled depth of technical expertise and fostering an integrated perspective to solve the hardest problems.

“Aerospace has supported the GOES-R series since its inception,” said Peter Phillips, Principal Director in the Civil Systems Group at Aerospace. “Our primary focus is providing embedded systems engineering support, where we are working shoulder-to-shoulder with NOAA and NASA across the mission lifecycle.”

Read the [full article on Aerospace.org](#).

Not Your Average Taekwondo Joe

November 26, 2024



Master blackbelt Joe Coughlin (middle) with USA Teammates.

Submitted by Tom Kelec: Aerospace’s very own Joe Coughlin is participating in the “World Taekwondo Poomsae Championships 2024” taking place in Hong Kong from Nov. 30 through Dec. 4. Joe is an Associate Director of the Space Control and Awareness Department (SCAD) in the Mission Operations Subdivision (MOS) of the Enterprise Effects Division (EED), where he both manages SCAD staff and provides our DoD and IC customers with technical support on space protection and domain awareness.



Taekwondo World Championship Team USA
(Joe Coughlin is in the second to last row and fifth from the left).

It turns out that Joe’s technical expertise is an appropriate tie-in to his taekwondo passion. Taekwondo is a Korean martial art and combat sport involving the practiced and refined techniques of punching and kicking. “Taekwondo” can be translated as tae (“strike with foot”), kwon (“strike with hand”), and do (“the art or way”). In addition to its five worth tenets of courtesy, integrity, perseverance, self-control and indomitable spirit, the sport requires three physical skills: (1) Poomsae, which are patterns that demonstrate a range of kicking, punching, and blocking techniques, (2) Kyorugi, which involves the kind of sparring as seen in the Olympic competitions, and (3) Gyeokpa, which is the art of breaking wooden boards.

According to Joe, the history of the sport of taekwondo traces back to 1945, shortly after the end of World War II, when new martial arts schools, called “kwans,” opened in Seoul, South Korea. These schools were established by Korean martial artists with backgrounds in Japanese and Chinese martial arts. Early progenitors of taekwondo were exposed to Japanese martial arts, including karate, judo, and kendo, while others were exposed to the martial arts of China and Manchuria. More recently, the Korean government has been a significant supporter of traditionalist views in establishing the sport as a “legitimate Korean cultural activity.”

Joe’s personal taekwondo journey began in 1991 and he quickly became an instructor and participated in the U.S. Open Tournament Committee. His passion and skills for the sport grew over the subsequent three decades as he rose through the ranks in achieving higher skill levels and increasing his participation in tournaments as both a competitor and a judge. In 2021, Joe achieved the level of 5th degree blackbelt and hence became a “master,” which is just one level below the ultimate position of “grand master.” We can be thankful that Joe is applying his offensive/defensive skills on our Aerospace team.

Let’s all wish Joe Coughlin the very best as he competes at the world championships. Go poomsae some patootie, Joe!



Flyer for Taekwondo World Championship in Hong Kong.

Aerospace Strengthens Commercial Collaboration at TechCrunch Disrupt 2024

November 20, 2024



Cody Bronkar, VC and Strategic Partnerships for SpaceWERX; Dr. Tom Cwik, Chief Technologist for Jet Propulsion Laboratory; Dr. Debra Emmons, Vice President and CTO for The Aerospace Corporation, and Lee Rosen, Co-Founder and CEO of ThinkOrbital Inc. on stage at TechCrunch Disrupt 2024 on Monday, Oct. 28, 2024. (Photo: TechCrunch)

New opportunities for commercial collaboration are driving rapid innovation, opening up new pathways and options for the nation's space programs to approach mission designs and systems.

Recently held in San Francisco, TechCrunch Disrupt 2024 highlighted the latest breakthroughs in technology, and the value of collaboration between the public and private sectors. The yearly event is open to entrepreneurs, investors, tech enthusiasts and media from around the world.

The Aerospace Corporation once again joined forces with TechCrunch to deliver engaging panel discussions with leaders across defense, civil and commercial space, as well as a Space Challenge pitch-off for startups to showcase innovative concepts poised to transform commercial space operations.

During the event, Aerospace demonstrated its commitment to advancing space technology and fostering collaboration across government partners with the tech community to accelerate innovation. The company also emphasized the vital role that startups play by providing fresh perspectives, challenging traditional approaches and enhancing the agility and resilience of space operations.

Cislunar: The Next Frontier

With NASA's Artemis program aiming to return humans to the Moon by 2025 and establish a sustainable presence, cislunar space is poised to become a critical zone for future space operations. The Cislunar: The Next Frontier session delved into the exciting prospects of lunar exploration and the strategic significance of the cislunar space — the area between the Earth and the Moon.



Steve Isakowitz, President and CEO of The Aerospace Corporation and A.C. Charania, Agency Chief Technologist for NASA on stage at TechCrunch Disrupt 2024 on Monday, Oct. 28, 2024. (Photo: TechCrunch)

During this session, Aerospace President and CEO Steve Isakowitz joined NASA Chief Technologist AC Charania for a fireside chat that explored cislunar space as a key area for future commercial activity, infrastructure and technology development, and as a platform for deeper space exploration.

“The strategy at NASA is not only to return to the Moon but to have longer surface stays, maturing technologies, developing a lunar space station and getting the experience to then help us achieve a human exploration mission to Mars and to the rest of the solar system,” said Charania.

Their conversation emphasized the critical role of public-private partnerships, the opportunities and challenges of building a thriving lunar ecosystem, and how the commercial sector is positioning itself at the heart of this new era of exploration.

“It used to be true rocket science to get satellites into space,” said Isakowitz. “But it’s no longer the world’s super-powers that are doing this. It’s startups, and with a few million dollars, they can put great things in space.”

Click here for video: [Cislunar: The Next Frontier | TechCrunch Disrupt 2024](#)

Startups in Dual Use

Another prominent topic was that of “dual use” technologies or systems designed to serve both civilian and military purposes, allowing for versatile applications in areas such as satellite communications, navigation, imaging and space exploration.

Aerospace VP and CTO Dr. Debra Emmons participated in a panel focused on startups in dual use, where she joined industry leaders in discussing the challenges and opportunities for startups entering the highly regulated government and defense sectors in an environment dominated by traditional prime contractors. The panel also addressed the ways investors can help startups compete for government and defense contracts.

“If you’re a startup, you really have to be thinking about what a sustainable business is. Having advisors in the areas of policy and the regulatory can really help you build relationships and trust,” said Emmons. “Going forward, we’re going to need to see more flexible funding and a change in the culture of risk aversion, and the way you build that change in the culture is through successes.”

Click here for video: [Startups in Dual-Use | TechCrunch Disrupt 2024](#)

Future of Space Operations Challenge

Given the evolving landscape of space missions and the complexities involved in managing operations beyond Earth, the Future of Space Operations was a prominent theme at this year’s conference. As commercial space activities continue to expand, the need for robust operational frameworks and innovative solutions has become increasingly critical.

Aerospace was once again proud to sponsor and organize its yearly pitch-off, creating an open call for a competition for space startups working in five areas: robotics, autonomous systems, AI/ML, vision systems, and propulsion and navigation. Engineering and science teams at Aerospace reviewed and selected the most compelling innovations from these companies. Teams from each of the five finalist companies were given the opportunity to present four-minute pitches followed by questions from the judges.

Isakowitz congratulated this year’s winner — Xona Space Systems’ PULSAR, the first direct-to-device precision satellite navigation service. For its winning pitch, Xona Space Systems was awarded access to expert-led feedback sessions with Aerospace and government experts, and commercial space leadership.

Click here for video: [Aerospace’s Future of Space Pitch Competition | TechCrunch Disrupt 2024](#)



Isakowitz presents Brian Manning, CEO of Xona Space Systems, as the space pitch competition winner at TechCrunch Disrupt 2024 on Monday, Oct. 28, 2024. (Photo: TechCrunch)

Fostering Collaboration with Startups and Tech Innovators

Aerospace's contributions to this year's TechCrunch Disrupt serve as a reminder of the potential for space technology to transform not only how humanity explores the universe, but also how to operate within it. By engaging with industry leaders, innovators, and policymakers, Aerospace continues to showcase its expertise and vision for a collaborative, safe, and prosperous future in space.

As the space industry continues to evolve rapidly, Aerospace remains at the forefront, driving innovation and underscoring its mission to inspire, equip and nurture the next generation of space innovators.

ACIA Celebrates Native American Heritage Month at Aerospace

November 19, 2024

Recognized annually in November, Native American Heritage Month is a time to honor the traditions, culture, and ancestry of Native and Indigenous people and their communities. With leadership from the Aerospace Council for Indigenous Americans (ACIA), Aerospace began its celebration of Native American Heritage Month by organizing an Aerospace group visit to the Los Angeles Pow Wow 2024 event on Nov. 2 where participants partook in food, music and dance from various tribes.



In keeping with this year's ACIA theme, *Bridging Histories, Shaping our Future*, ACIA is hosting various events and experiences throughout the next few months for all employees to learn more about and celebrate the rich and diverse cultures, traditions, histories and important contributions of Indigenous Americans. All Aerospace employees are welcome and encouraged to participate.

"ACIA strives to increase inclusivity through the sharing of experiences, focusing on both the similarities in our cultures and an understanding of the differences," said Lauresa Stillwell, Vice President of ACIA.

"Celebrating Indigenous American culture allows us to not only honor the past but learn from it. Understanding their numerous technological advancements can add a new perspective to problem solving resulting in better solutions."

Heritage Month and the Importance of Community

Heritage months offer an opportunity to reflect upon the past and present of different communities, and their contributions to the fabric of American culture and society. Since the first Presidential proclamation in 1990 establishing National American Indian Heritage Month, the President has issued a yearly proclamation in November honoring the contributions of Indigenous Peoples to the nation. Celebrating Native American heritage plays a vital role in fostering a vibrant culture of diversity and inclusion.

Supporting Indigenous Accomplishments and Professional Development

ACIA continues to help support the communities of Indigenous People within and in conjunction with Aerospace. Their work is important to promote awareness and appreciation for the accomplishments of Indigenous People. ACIA continues to participate in the American Indian Science and Engineering Society (AISES) Conference, a three-day event focusing on educational, professional, and workforce development for Indigenous peoples of North America and the Pacific Islands in science, technology, engineering, and math (STEM) studies and careers. During the event, ACIA introduces indigenous undergraduate and graduate students to Aerospace and its mission and connects with potential job candidates.

“The AISES National Conference is the singular event for Indigenous people with a professional interest in STEM fields, and as such is critical to Aerospace’s ability to hire Indigenous Americans,” said Stillwell. “At this conference Aerospace is competing with both Federal agencies and National labs from across the U.S. for a finite group of talented individuals. Recruiting at AISES not only gives Aerospace access to the highest number of potential candidates at one time, but continued participation establishes Aerospace as a viable employer for Indigenous people interested in positions that advance Aerospace’s mission.”



ACIA's Carah Fukumoto and Alex Cosby reach out to the Indigenous community at AISES.

How to Get Involved

To get involved this heritage month, employees can donate to the giving campaign through November 22. All donations will be split between the Native Forward Scholarship Fund and the First Nations Development Institute. Aerospace employees may also volunteer by attending Native American events and track their time at the event by visiting the Volunteer Opportunity site.

This year, ACIA is sponsoring a book drive to benefit [Sherman Indian High School](#) in Riverside, CA, a boarding school whose students represent over 76 federally recognized tribes from across the United States. In celebration of Native American Heritage Month, ACIA has adopted Sherman Indian High School and obtained their wish list of books for the school library to help enrich the students’ experiences in learning.

This coming January, ACIA has scheduled keynote speaker Dr. IndigiNerd (aka Lee Francis IV, Ph.D.) to talk about early Native American scientific advancements that have advanced the space race. So don’t miss him!

“ACIA is open to all employees! Whether you are of Indigenous American heritage or simply have an interest in other cultures, please consider joining,” said Stillwell. “ACIA is open to new approaches and fresh ideas. Different viewpoints make ACIA a better advocate for diversity at Aerospace.”

The Aerospace Council for Indigenous Americans (ACIA) is an Aerospace employee resource group (ERG). Membership and participation in all ERGs are open to all employees, regardless of identity.

Cybersecurity in Orbit: How Aerospace is Evolving Defenses Against Emerging Space Threats

November 18, 2024

Space-based assets play an increasingly vital role in national security, global communications and critical infrastructure. As a result, there is real risk of cyberattacks on these assets, and related assets such as ground stations and data relay systems. Robust cybersecurity measures are essential to protect both space and ground-based assets from threats, ensure data integrity and safeguard operations.



The Aerospace Corporation is uniquely positioned for space cybersecurity research, risk assessment and prototyping due to its decades of experience working on space and ground-based segments and the connecting links between them. This holistic approach allows Aerospace to address vulnerabilities across the entire spectrum of space systems, ensuring that cybersecurity solutions are integrated rather than isolated by segment.

By bridging ground and space cybersecurity, Aerospace can innovate and test more resilient solutions that account for the complex interactions and dependencies between terrestrial and space-based systems. Aerospace's specialized expertise and long-term partnership with the U.S. government, as well as with international partners, make it ideally suited to tackle emerging cybersecurity threats in the rapidly evolving space domain.

"Space-cyber threats are dynamic, indiscriminate and always on, and the international allied space community is only as strong as its weakest link," said Jim Myers, senior vice president of Aerospace's Civil Systems Group. "The price of security is continuous vigilance, information-sharing and collaboration to integrate end-to-end resilience and rapidly and continuously introduce game-changing new cyber defense technologies into the evolving ecosystems we are building with our allies and partners in space."

To learn more about Aerospace's advancement of space cybersecurity through innovative prototypes, read the [full article on Aerospace.org](#).

National ERG Day: Celebrating our Employee Resource Groups

November 12, 2024

Written by guest author Shawne' Raiford, Program Manager in the Diversity, Equity, and Inclusion Office.



For over 50 years, Employee Resource Groups (ERGs) at Aerospace have become a vital component of our corporation by fostering inclusivity in the workplace, increasing cultural awareness, providing career development opportunities and enhancing employee engagement. Our ERGs have provided a psychologically safe space for discussion, solidarity and support, in which people can feel free to bring their authentic selves to work. November 17 marks National ERG Day, where we recognize the volunteers across the company who have been on the frontlines creating the inclusive environments our people need to thrive through various initiatives like mentorship, award recognition, and networking.

We would like to thank all of our ERG members, leaders, Sr. Management Advisers and Executive Sponsors for their commitment to the advancement of Diversity, Equity and Inclusion at the Aerospace Corporation.

“I cannot speak highly enough about the work our ERGs do for their members and our company,” said Steve Isakowitz, president and CEO of Aerospace. “They are a powerful force for the professional and personal growth of our people. The networks they build and the mentorship they provide directly contribute to enhancing the careers of their members, the impact to our communities and the strength of Aerospace’s culture as a company.”

Included below are quotes and highlights from our various ERG leaders. Please note that all employees are welcome and encouraged to join an ERG, whether you identify with a group or simply want to learn more and be an ally.

The Aerospace ERGs are voluntary groups of employees who share common interests, backgrounds, or demographics. They provide a platform for underrepresented voices to be heard and can help shape policies and practices that promote equity and fairness.

The following groups actively represent their constituencies at Aerospace:

- Aerospace Asian Pacific American Association (AAPAA)
- Aerospace Black Caucus (ABC)
- Aerospace Council for Indigenous Americans (ACIA)
- Aerospace Disabled & Abled Partnering Together (ADAPT)
- Aerospace Lambda Alliance (ALA)
- Aerospace Latino Members Association (ALMA)
- Aerospace Military Veterans (AMV)
- Aerospace Women’s Committee (AWC)

Many of the programs presented by the ERGs enhance existing company-sponsored programs. Some of these activities include but are not limited to:

- Organizing and presenting cultural awareness activities, educational/career development programs, and programs of general interest to Aerospace employees
- Sponsoring and presenting programs which enhance advancement opportunities for employees in the company
- Participating in recruitment efforts and community outreach activities
- Ensuring that equal employment opportunity is practiced in compliance with EEO state and federal regulations

These initiatives and events would not be possible without our amazing ERG leaders, who not only volunteer their time but are committed to the growth of their ERG and our diversity, equity and inclusion goals. To mark National ERG Day, which falls on Nov. 17 each year, we’re shining a spotlight on **our ERG leaders and want to share their perspective on how ERGs have impacted their career and the importance of joining an ERG.**

“As a newer Aerospace employee, I was encouraged not only to join an ERG but to join as an officer. While I was initially hesitant and nervous about doing so, I fortunately had a manager who fully supported my participation and involvement. It turned out to be a great decision. With my immediate team being widespread with mostly remote or AGO folks, I am the only team member physically located at WAO. Where my natural tendency is to keep to myself, my ERG has allowed me to form friendships with people outside of any normal work interactions I would have had. My network is larger and I’ve been exposed to more professional development opportunities than I know I would have without being a part of an ERG. If you haven’t joined an ERG yet, I highly recommend doing so.”



— **Pauline Sweeney, FY25 AAPAA National Vice President**

“Being part of an ERG has impacted my career by fostering connections and providing a sense of belonging within Aerospace. For anyone that considered joining, start small by attending an event –whether online or in person – you just might be inspired.”

— **Brandi Lemon, FY25 ABC Co-President**



“For two years, I wasn’t a part of any ERG at Aerospace. I thought, maybe, I had nothing to add or wasn’t directly connected with some of the communities. After becoming secretary for ACIA, though, I have learned so much about the culture, the food, the people, and the struggles that I am now forever invested in the success of this group, and others. Making a commitment to an ERG has been a great decision and Aerospace, and myself, are better for it.”

— **Darren Callahan, FY25 ACIA Secretary**



“The importance of joining an ERG is that you become part of a larger community and the benefits of learning and appreciating the backgrounds and perspectives of others. With understanding comes acceptance.”

— **Laura Simpson, FY25 ADAPT President**



“ERGs are a cornerstone in the development of a strong, diverse community here at the Aerospace Corporation. Starting here at Aerospace as a young engineer fresh out of college, I was unsure of myself and who I could be while in the workplace. I joined the Aerospace Lambda Alliance early on in my career and it helped me to find my lift that brought my career to soaring heights. Interacting with other employees that were also a part of the LGBTQ+ community helped me come out of my shell and bring my full self to work which in turn helped me excel in my programs and efforts. Interacting with members of the other ERGs also helped me to see just how diverse employees at Aerospace can be; not only in their identities and backgrounds, but their ideas as well. That is why I make it part of my mission working here at the Aerospace Corporation to make it a safe and welcoming place for everyone.”

— **Shannen Daly, FY25 ALA President**



“I appreciate ERGs because having grown up in a time when diversity wasn’t as celebrated, it’s pretty awesome to be part of a company where I get to talk about my heritage and share some of the traditions, foods, etc., that are familiar to me but unfamiliar to others. It’s also exciting that our co-workers are excited to learn about those differences. I have also appreciated learning from other ERGs (participating in their meetings and events) because it helps us to understand that maybe we aren’t so different in our needs. A request or a theme/topic that helps one ERG, is something that in turn could benefit all of us!”

— **Edelina Rose & Alejandro Fernandez, FY25 ALMA Presidents**



“Aerospace has just been identified by Forbes as one of America’s Best Employers for Veterans. I believe a large part of this is because the Aerospace Corporation provides Military members an environment where we can transition to the civilian workforce while still being actively “on mission” for our great Nation. Our Aerospace Military Veterans (AMV) Employee Resource Group (ERG) represents and supports veterans in the company as they support some very important missions. For me, this translated into my being recruited and welcomed into the company from the start by fellow veterans and then experiencing continuous camaraderie/encouragement by fellow veterans as we tackle some pretty wicked-hard problems together. For me as a Veteran, the AMV is the secret sauce that makes Aerospace such a great place to work. Happy to be here and proud to serve!”



— Paul Riegert, FY25 AMV National Vice President

“I have been a member of AWC since I joined Aerospace in Aug 2018, and the first AWC event I attended was just a few weeks later during Women’s Week. I attended what used to be called Speed Mentoring Tea, held in Titan, and I thoroughly enjoyed myself – so much that I volunteered for all subsequent Women’s Weeks. Eventually, that led me to becoming FY23 National Vice President, where I was Women’s Week chair, and finally FY24 National President this past year. Being a part of AWC has given me so many opportunities to lead, network, make new friends, and enjoy myself at work. I hope that all our employees can find similarly great opportunities as well.”



— Erin Hong, FY25 AWC Interim President

As we continue creating a stronger, more inclusive workplace for all, we want to thank our ERG leaders, ERG members and volunteers for driving innovative change and inclusion at Aerospace. Happy National ERG Day!



Press Release: Aerospace Recognized on Forbes America's Best Employers for Veterans 2024 List

November 07, 2024



Chantilly, Va., Nov. 8, 2024 – The Aerospace Corporation (Aerospace) was named one of America's Best Employers for Veterans 2024 by Forbes. This is Aerospace's first recognition in this category and eleventh overall recognition by Forbes.

"We're committed to attracting and retaining veterans to help us solve the nation's most complex problems across the space enterprise," said David Roberts, Aerospace's principal director of Total Rewards and Payroll. "It's an honor to have Forbes recognize Aerospace and the programs we offer that attract and support the personal and career aspirations of our veterans."

The Aerospace Corporation offers a comprehensive total rewards portfolio, including benefits such as competitive pay, healthcare, paid vacation time, military leave, sick and parental leave, a generous 401(k) match, flexible work schedules (including a 9/80 option), educational assistance, and rewards and recognition. Additional resources include professional development classes and workshops, leadership seminars, veteran-specific training and resources through the Employee Assistance Program, and employee resource groups such as the Aerospace Women's Committee and the Aerospace Military Veterans (AMV).

"The Aerospace Military Veterans employee resource group consists of veterans and veteran supporters," said Lina Cashin, who served as AMV's President until October 1 this year. "We are honored to serve our veterans and have made significant impacts for our veterans and for the company, such as improving pay and insurance benefits for our reservists and guard

members. We also support our professional workforce in understanding our military customers through instructional webinars on customs, courtesies, communication, and operational mindset.”

Earlier this year, The Aerospace Corporation was named one of Forbes’ America’s Best-In-State Employers 2024 as well as one of America’s Best Midsize Employers 2024. Aerospace was also named a Best Midsize Employer from 2016 to 2019 and 2021 to 2023, and a Best Employer for Diversity in 2019.

The [Best Employers for Veterans](#) rankings are compiled by Forbes and Statista based on survey responses from more than 24,000 veterans working for companies with more than 1,000 employees in the United States. Survey participants were asked if they would recommend their company or institution to friends and family, and to rate their employer on criteria ranging from work atmosphere and salary to health benefits, career development opportunities and programs tailored to veterans. Respondents were also asked to evaluate other companies within their respective industries.

About The Aerospace Corporation

The Aerospace Corporation is a national nonprofit corporation that operates a federally funded research and development center and has more than 4,600 employees. With major locations in Chantilly, Virginia; El Segundo, California; Albuquerque, New Mexico; and Colorado Springs, Colorado, Aerospace addresses complex problems across the space enterprise and other areas of national and international significance through agility, innovation, and objective technical leadership. For more information, visit www.aerospace.org. Follow us on [LinkedIn](#).

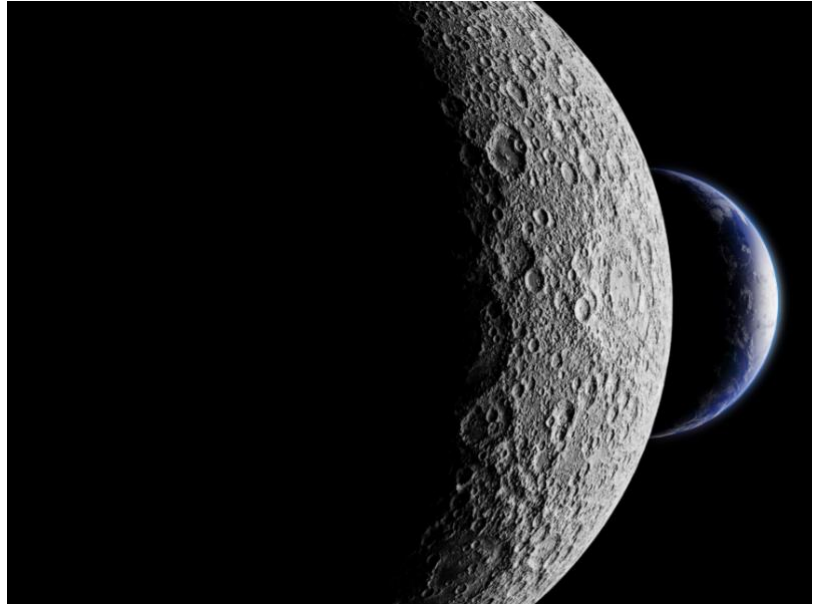
Returning to the Moon: The Next Chapter of Space Exploration

November 06, 2024

Human curiosity and aspiration have fueled the drive to explore the cosmos since well before the dawning of the space age. From the early days of stargazing to our first steps on the Moon, humanity has consistently pushed the boundaries of what is possible in its relentless pursuit of knowledge, discovery, and advancement.

Present-day efforts to return to the Moon aren't motivated by nostalgia; they represent the beginning of a sustained human presence, economy, and operations in cislunar space, paving the way for future expeditions deeper into and eventually beyond the Solar System.

The [Artemis Program](#) is harnessing our nation's expression of this passion for exploration and discovery—setting the stage for continuous lunar habitation and eventual interplanetary travel.



Innovation is essential to overcoming new, complex engineering challenges involved in human space flight. The advancements required for a successful and permanent return to the Moon span mission planning, spacecraft design, space domain awareness, human and systems safety, and the development of autonomous systems and sustainable ecosystems in space. In short, innovation in space technology is not simply about making things possible, it is also about redefining human capabilities.

To learn more about Aerospace's collaboration with government customers, commercial companies, nongovernmental organizations and others to make the vision of a permanent human presence on and around the Moon a reality, go to [Aerospace.org](#).

To learn more about the robust analysis process Aerospace has designed to align NASA's space exploration strategy, codify its supporting architecture, and strengthen opportunities for partnership with NASA and broader space community, click [here](#).

November 2024 Obituaries

November 01, 2024

Sincere sympathy is extended to the families of:

David Adams, member of technical staff June 30, 1961, retired Jan. 1, 1998, died Sept. 30, 2024

Edmund Conrow, member of technical staff, hired Dec. 4, 1980, retired Sept. 1, 2014, died Sept. 18, 2024

Mildred Dawe, member of administrative staff, hired Oct. 20, 1981, retired Oct. 1, 1993, died Sept. 28, 2024

Joyce Farr, member of technical staff, hired March 26, 1962, retired Feb. 1, 2000, died Aug. 27, 2024

Robert Klungle, member of technical staff, hired Aug. 4, 2003, retired Jan. 1, 2015, died Aug. 31, 2024

Martin Lundquist, member of technical staff, hired June 23, 1964, retired Oct. 1, 1993, died Aug. 25, 2024

Evie Mc Farlane, office of technical support, hired Sept. 4, 1984, retired Feb. 1, 1994, died Sept. 30, 2024

Robert Reid Jr., member of technical staff, hired Oct. 19, 1970, retired June 1, 2006, died Sept. 20, 2024

Sune Robins, member of technical staff, hired May 18, 1965, retired July 1, 1994, died Oct. 3, 2024

Cheryl Wall, office of technical support, hired Feb. 28, 1983, retired Aug. 1, 2024, died Sept. 20, 2024

Aloysius Ward Jr., member of administrative staff, hired March 26, 1977, retired Nov. 1, 1991, died Oct. 6, 2024

Gene Zechiel, member of administrative staff, hired March 6, 1982, retired Dec. 1, 1994, died Aug. 13, 2024

To notify Aerospace of a death and have it included in the Orbiter, please contact People Operations at (310) 3365107.

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