

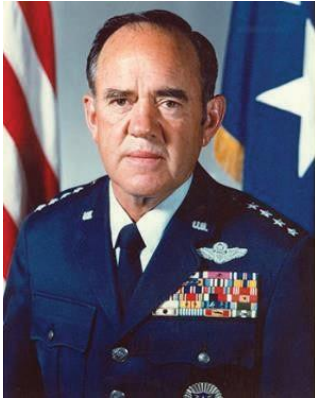


GENERAL JAMES V. HARTINGER AWARD

The General James V. Hartinger Award is named for the first Commander of the United States Air Force Space Command.

The Rocky Mountain Chapter of the National Defense Industrial Association presents the award annually to an individual from the military services, other government agencies or industry, in recognition of outstanding achievement in the military space mission of the United States.

The award commemorative is a pure silver medallion depicting the globe with orbiting satellites and a space vehicle representing our nation's involvement in space. The reverse side is the National Defense Industrial Association crest identifying the Rocky Mountain Chapter as the sponsoring organization. A plaque, exhibiting both sides of the medallion and identifying award recipients, is on permanent display at Headquarters Air Force Space Command.



GENERAL JAMES V. HARTINGER AWARD 1984 RECIPIENT

**General James V. Hartinger
United States Air Force (Retired)**

A pioneer of the space frontier and an inspiring patriot with the full force of creative and innovative thinking.

A distinguished military officer who, as Commander-in-Chief of the North American Aerospace Defense Command, recognizing the need for centralized management of Air Force space operations, through his advocacy and leadership inspired establishment of the new United States Air Force Space Command; and who served as its first Commander.

A superlative leader whose notable achievements in formulating many military space initiatives are outstanding and distinctive; including development of space strategies, promotion of space education, development of career training, incorporation of space activities in military exercise, advocacy of space systems survivability, and focus on Air Force space medicine.

Above all, an exemplary American who recognized the critical importance of public awareness regarding the necessity of space activities; and whose contributions have resulted in the universal realization that space is a vital national asset, critical to the security of the United States of America.



GENERAL JAMES V. HARTINGER AWARD 1985 RECIPIENT

Major General Carl N. Beer United States Air Force (Retired)

Major General Neil Beer (retired) was born March 25, 1935 in Buckhammon, WV. He earned a Bachelor of Science degree in Industrial Engineering magna cum laude in 1952 and his Doctorate in Operations Research in 1973, both from the University of Oklahoma.

He received his commission and pilot wings through the Air Force Aviation Cadet Program. His early assignments were with the Air Defense Command flying fighters.

In May 1967, the general was assigned to Davis-Monthan AFB, AZ. He trained F-4 aircrews for combat duty in Southeast Asia. He was then assigned to Ubon Royal Thai AFB where he flew 265 combat missions. In June 1969, he went to the U.S Air Force Academy as a mathematics instructor. Two years later he was selected for the Ph.D. program at the University of Oklahoma. He returned to the Academy eventually serving as Deputy Department Head of Mathematics.

After completing the Industrial College of the Armed Forces as a distinguished graduate, he was assigned as Chief of Fighter Division in Studies and Analysis, Headquarters U.S. Air Force.

General Beer was then selected as Executive Assistant to the Special Assistant to the Secretary of Defense. He served as the Department of Defense point of contact with the White House for meeting presidential requirements. In September 1981, General Beer was named Assistant Deputy Chief of Staff Plans, North American Aerospace Defense Command and became the first Space Command Deputy Chief of Staff Plans. He is credited with being the key architect of the Air Force Space Command and a key planner in the proposal approved by the President to establish a Unified Command for military space operations. The general is a command pilot with 3,540 hours and wears the Senior Space Badge. His military decorations and awards include the Distinguished Service Medal, Defense Superior Service Medal, Legion of Merit, and Distinguished Flying Cross with one oak leaf cluster.



GENERAL JAMES V. HARTINGER AWARD 1986 RECIPIENT

Lieutenant General Bruce K. Brown United States Air Force (Retired)

Lieutenant General Bruce K. Brown (Retired) graduated from the U.S. Naval Academy, Annapolis, MD in 1952 with a Bachelor of Science degree and was commissioned as a Second Lieutenant in the U.S. Air Force. He completed the Armed Forces Staff College in 1965, the National War College in 1969, and earned a Master's degree in international relations from George Washington University. He earned his pilot wings in August 1953 and subsequently served in the 5th Fighter Interceptor Squadron as a pilot and flight commander. He followed a succession of duties as a fighter pilot, air staff planner, executive officer, and Commander's aide.

After serving as Deputy Commander for Operations for the 14th Special Operations Wing, Phan Rang, and Republic of Vietnam, General Brown served successive tours as Vice Commander and Commander of the 97th Bombardment Wing and Commander of the 416th Bombardment Wing. He returned to the Air Staff as Deputy Assistant Chief of Staff for Studies and Analysis.

He was assigned as Deputy Director for Operations, Joint Staff, Joint Chiefs of Staff from July 1974 to August 1975 and then assumed Command of the 14th Aerospace Wing, a predecessor of today's 21st Space Wing.

In June 1976 he became the Assistant Deputy Chief of Staff for Operations, North American Air Defense Command, and Deputy Chief of Staff for Operations, Aerospace Defense Command. From May 1978 to October 1981, he served as Deputy Chief of Staff, Operations, North American Air Defense Command, Aerospace Defense Command and Air Defense Center. He then became Vice Commander in Chief, North American Aerospace Defense Command and Aerospace Defense Command and Vice Commander of the Aerospace Defense Center. In September 1982 General Brown was named the first Space Command Assistant Vice Commander. He was promoted to Lieutenant General in September 1983. His final tour was as Commander, Alaskan Air Command and Alaskan Region, North American Aerospace Defense Command. He retired from active duty in October 1985.

He is a command pilot with more than 3,000 flying hours and wears the Master Space Badge. His military decoration and awards include the Distinguished Service Medal, with oak leaf cluster, Legion of Merit with one oak leaf cluster, Distinguished Flying Cross, Meritorious Service Medal with five oakleaf clusters, Joint Service Commendation Medal, and Air Force Commendation Medal with one oak leaf cluster.



GENERAL JAMES V. HARTINGER AWARD 1987 RECIPIENT

**Lieutenant General James A. Abrahamson
Director, Strategic Defense Initiative Organization
Office of the Secretary of Defense**

Lieutenant General James A. Abrahamson, USAF, is the director of the Strategic Defense Initiative Organization, Office of the Secretary of Defense, Washington D.C. He is responsible for the nation's research and technology programs relating to defense against ballistic missiles.

Born in Williston, ND, he attended secondary schools in Oregon and graduated from the Massachusetts Institute of Technology in 1955. He earned a Master of Science degree in Aeronautical Engineering through the Air Force Institute of Technology program at the University of Oklahoma in 1961. He also completed Air Force Command and Staff College at Maxwell AFB, AL in 1966.

Commissioned a second lieutenant in the U.S. Air Force in November 1955, he completed pilot training at Laughlin AFB, TX in May 1957. His initial assignment included flight and other instructor duties in the Air Training Command.

In August 1961, he was assigned as spacecraft project officer on the VELA Nuclear Detection Satellite Program at Los Angeles AFS, CA. From October 1964 to August 1965, while assigned to Cannon AFB, NM, he served two temporary tours of duty in Southeast Asia, where he flew 49 combat missions.

Following graduation from Air Command and Staff College in July 1966, he attended the Aerospace Research Pilot School at Edwards AFB, CA. After graduating in 1967, he was selected to be an astronaut with the Air Force's Manned Orbiting Laboratory Program. He served on that program from August 1967 until its cancellation in June 1969. He was then selected to serve on the staff of the National Aeronautics and Space Council, Executive Office of the President, in Washington D.C. In March 1971, he became director of the television-guided, air-to-ground Maverick Missile Program at Wright-Patterson AFB, OH, until June 1973, when he took command of the 4950th Test Wing there.

In March 1974, he was named inspector general of the Air Force Systems Command at Andrews AFB, MD. He was assigned as director of the F-16 Air Combat Fighter Program at Aeronautical Systems Division, Wright-Patterson AFB in May 1976. He became the Deputy Chief of Staff for Systems, Air Force Systems Command in July 1980.

In November 1981, Lieutenant General Abrahamson was appointed Associate Administrator for the Space Transportation System, National Aeronautics and Space Administration, Washington, D.C. He was responsible for the NASA Space Shuttle Program and guided that program into its operational era. He assumed his present duties in April 1984.



GENERAL JAMES V. HARTINGER AWARD 1988 RECIPIENT

**The Honorable Edward C. Aldridge, Jr.
Secretary of the United States Air Force**

Mr. Aldridge, Jr. was born 18 August 1938 in Houston, TX and spent his youth in Shreveport, LA. He received a Bachelor of Science degree in aeronautical engineering from Texas Agricultural and Mechanical University in 1960, and a Master of Science degree, also in aeronautical engineering, from the Georgia Institute of Technology in 1962.

Prior to joining the Department of Defense in 1967, Mr. Aldridge held various staff and management positions with the Douglas Aircraft Company, Missile and Space Division, in Santa Monica, CA, and in Washington, D.C.

In 1967, he joined the staff of the Assistant Secretary of Defense for Systems Analysis as an operations research analyst and then served as Director of the Strategic Defensive Division until July 1972. He also served as an adviser to the Strategic Arms Limitation Talks in Helsinki and Vienna.

He re-entered private industry in 1972 as a senior manager with LTV Aerospace Corporation in Dallas for a year until he was named Senior Management Associate in the Office of Management and Budget, Executive Office of the President, Washington, D.C.

Returning to the Department of Defense in February 1974, Mr. Aldridge served as Deputy Assistant Secretary of Defense for Strategic Programs until March 1976. He was then selected to be the Director of Planning and Evaluation, a principal adviser to the Secretary of Defense in the planning and program evaluation of U.S. military forces and support structure.

He was named Vice President, National Policy and Strategic Systems Group for the Systems Planning Corporation, Arlington, VA, in March 1977. Mr. Aldridge was responsible for the corporation's study and analysis activities in the areas of strategic and conventional forces and long-range strategic planning.

In August 1981, he became Under Secretary of the Air Force with additional responsibility for providing overall direction, guidance, and supervision for Air Force space programs, including launch and on-orbit operations, and planning for future space capabilities. Prior to the space shuttle Challenger accident in January 1986, Mr. Aldridge was in astronaut training in preparation for his participation as a payload specialist on the first shuttle mission from Vandenberg AFB, CA. He assumed his present duties in June 1986.



GENERAL JAMES V. HARTINGER AWARD 1989 RECIPIENT

General John J. Piotrowski Commander-in-Chief, North American Aerospace Defense Command and the US Space Command

General John J. Piotrowski was Commander-in-Chief of the North American Aerospace Defense Command and the United States Space Command, both headquartered at Peterson AFB in Colorado Springs, CO. Born in Detroit, MI, he enlisted in the Air Force in 1952 and received his commission and navigator wings in 1954 as a distinguished graduate of the aviation cadet program. In 1957, he graduated from pilot training. He is a command pilot with more than 7,000 flying hours, including 100 combat missions and 210 combat flying hours. He served in a variety of operational and key staff assignments throughout the United States and in South Korea, Japan, Germany, Italy and Vietnam.

General Piotrowski's experience in command and operational units spans 12 years and ranges from wings with 4,000 personnel to the 9th Air Force with over 38,000 members assigned. Prior to his assignment to NORAD/USSPACECOM, he was the Vice Chief of Staff of the United States Air Force. He holds a Bachelor of Science degree from the University of Nebraska, did postgraduate work at the University of Southern California and Auburn University, and attended the program for management development at Harvard University. He was also awarded an honorary doctorate from Alliance College, PA.



GENERAL JAMES V. HARTINGER AWARD 1990 RECIPIENT

General Donald J. Kutyna United States Air Force

An aggressive leader, planner, and manager - General Donald J. Kutyna has constantly challenged himself and his colleagues to expand the envelope of opportunity in the nation's military space program to enhance the security of our nation.

The key space launch advocate - General Kutyna brought launch support into the operational realm of military warfighting. He led the development of the west coast Shuttle launch site, acquisition of the Shuttle upper stage boosters and operational aspects of launching military payloads on the shuttle. Appointed by the President, he served on the Shuttle Challenger Commission, heading the panel that determined the cause of that tragedy. Later, he spearheaded the effort to bring expendable launch vehicles back into the nation's space inventory and under the operational control of Space Command.

The leader of the most significant military space organizations - General Kutyna brings an expert's wisdom and experience to our vital space efforts. As Commander-in-Chief of the North American Aerospace Defense Command and the United States Space Command, as well as former Commander of the Air Force Space Command, his personal and professional contributions to the development and acquisition of systems, sensors, and command centers make it possible for our space and warning commands to perform their critical, worldwide surveillance, and control missions.

A leader of the first order - General Kutyna's successes have been marked by strong leadership throughout his career. This leadership has been evident in his roles as a combat fighter commander, a test pilot and major acquisition program director, and the leader of the world's first Unified space command.

In recognition of outstanding achievement in the military space mission of the United States of America, General Donald J. Kutyna is hereby presented the 1990 General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 1991 RECIPIENT

**General Colin L. Powell
Chairman, Joint Chiefs of Staff**

A brilliant leader, warrior, strategist -

As Chairman, Joint Chiefs of Staff and leader of United States Armed Forces for Operation Desert Shield and Operation Desert Storm, General Colin L. Powell changed the world's perception of modern military capability by his outstanding direction of the war to liberate Kuwait. His decisions to use the complete spectrum of space systems to enhance and multiply the effectiveness of other forces will be viewed by history as having changed forever the art and science of warfare.

A decisive, compassionate, and eloquent soldier-

General Powell marshaled land, sea, air and space assets to win a moral and temporal victory over the forces of tyranny. His actions conclusively demonstrated the utility of space systems to support warfighters and restored the confidence of the world and the American people in the Armed Forces of the United States and its leadership. He proved the functionality of space in the massive theater conflict. Nevermore will an adversary doubt that ballistic missile defense systems can and do work. His use of tactical and strategic space power will stimulate developments in space which may render warfare an obsolete strategy for aggression or disruption of world peace.

Therefore, in recognition of outstanding achievement in the military space mission of the United States of America, General Colin L. Powell is hereby presented the 1991 General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 1992 RECIPIENT

Lieutenant General Thomas S. Moorman, Jr. United States Air Force

Lieutenant General Thomas S. Moorman, Jr. has made distinctly significant contributions to the military space mission of the United States of America. His leadership in peace, decisive command in war, and vision for the future are important factors in maintaining world peace.

In peace - Lieutenant General Moorman charts a course that maintains vital national defense space systems through outstanding stewardship of resources, leadership in quality improvement, and innovation in operational concepts that reflect his personal attention to warfighter requirements.

In war - Lieutenant General Moorman's effective leadership of Air Force Space Command stimulated historically unprecedented space support to Operation Desert Storm. The communications, navigation, weather, and warning information he provided to the battlefield was pivotal in limiting loss of life and assured the success of the United States and the Coalition Forces.

For the future - Lieutenant General Moorman has a profound influence on national military space policy based upon his personal knowledge and recognized credibility. His efforts result in policies, strategies, systems, and technology advancements responsive to future national needs. Their implementation will be enhanced by the cooperation he inspires between the Air Force and its industrial partners.

In recognition of these outstanding achievements in the military space mission of the United States of America, Lieutenant General Thomas S. Moorman, Jr. is hereby presented the 1992 General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 1993 RECIPIENT

**General Merrill A. McPeak
Chief of Staff, United States Air Force**

As Chief of Staff, United States Air Force, General Merrill A. McPeak has provided the Air Force, the Department of Defense, and the nation with a sense of vision, direction, accomplishment, and partnership for its military space program.

General McPeak's vision for the world's most respected air and space force led to the unprecedented recognition that the future defense of the United States is dependent upon controlling and exploiting both air and space. Through profound personal support for national investment in space, General McPeak institutionalized space systems planning to assure achievable direction that strengthens the role and voice of space professionals and integrates space in all warfighting plans. His accomplishments are historic as the leader of the preeminent aerospace force in the "first space war". From defensive systems to real-time information, he gave fighting forces the tools needed to accomplish their mission by engaging the collective capabilities and full partnership of military, civilian, and commercial sectors.

Therefore, in recognition of outstanding achievement in the military space mission of the United States of America, General Merrill A. McPeak is hereby presented the 1993 General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 1994 RECIPIENT

General Charles A. Horner Commander-in-Chief, United States Space Command

As Commander-in-Chief, of United States Space Command, and Commander, Air Force Space Command, General Charles A. Horner's unique and significant contributions to the military space mission of the United States indelibly established the role of space in warfare and in the maintenance of peace.

With his established credibility as a warfighter in the "first space war", General Horner became a powerful and singularly effective spokesman in the successful effort to institutionalize space as a vital element in planning and execution of future military operations. He guided important initiatives related to current and future space assets for warning, communications, navigation, and weather which ensure direct utility of space products to warfighters on land, sea, and in the air.

Consistent with his vision of space as a medium for enhancing stability in peacetime and a means for providing greater advantage to future warfighters, General Horner developed policies and programs that ensure improvements in this nation's space launch and space-based warning, navigation, and remote sensing capabilities. His forceful leadership in restructuring the intercontinental ballistic missile and space forces provides timely and accurate support and maintenance of a successful deterrent that has been in place for over three decades.

Therefore, in recognition of outstanding achievements in the military space mission of the United States of America, General Charles A. Horner is hereby presented the 1994 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
1995 RECIPIENT**

**Major General Roger G. DeKok
Director of Operations
United States Space Command**

Major General Roger G. DeKok, Director of Operations, United States Space Command, is recognized for outstanding career achievements in the military space mission of the United States.

At all levels of command, Major General DeKok has been an acknowledged leader. A highly regarded and experienced operator, he directed the application of space assets to the Persian Gulf which proved to be critical to victory in the "first space war". A planner with uncommon vision, he developed and coordinated the United States National Space Policy signed by President Ronald Reagan. An innovator, he brought the Air Force and industry together to develop strategies for space, changing historical paradigms and setting a new direction for integration of space systems into the 21st century. A convincing and articulate spokesman, he achieved broad-based consensus on long range space support plans for Air Force and Department of Defense missions.

In recognition of his significant accomplishments, Major General Roger G. DeKok is hereby presented the 1995 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
1996 RECIPIENT**

**General Joseph W. Ashy
Commander-in-Chief, US Space Command and North
American Aerospace Defense Command**

As Commander-in-Chief, of the United States Space Command and the North American Aerospace Defense Command and Commander, Air Force Space Command, General Joseph W. Ashy has provided visionary leadership and superb management of space forces that direct and support the military, civil and commercial space programs of this nation and our Allies.

With insight gained from personal combat experience and years in fighter operations, General Ashy initiated broad organizational changes and critical concepts of operations to include; Ballistic Missile Defense of North America, Space-Based Infrared System and Military Satellite communications. These resulted in a major step forward to make space support to the warfighter real-time, reliable, understandable, and accessible. His focus on normalization of the space mission produced the first transfer of an active duty mission to the Air National Guard and expanded the role of the Air Force Reserve. His commitment to improving our nation's launch system was reflected in his stewardship of future expendable launch vehicles and, in partnership with industry, launch of a new generation commercial prototype from a military launch complex. Through General Ashy's decisive and pervasive efforts, space forces are now an integral partner in joint and combined military operations, and Air Force Space Command has become a full member of the Combat Air Forces, joining Air Combat Command, Pacific Air Forces, and United States Air Forces in Europe.

In recognition of his accomplishments in bringing the capabilities of space systems to the warfighters, General Joseph W. Ashy is hereby presented the 1996 General James V. Hartinger Award.:



**GENERAL JAMES V. HARTINGER AWARD
1997 RECIPIENT**

**The Honorable Jeffrey K. Harris
Assistant Secretary of the Air Force for Space**

Mr. Jeffrey K. Harris provided distinctive leadership for the military space mission of the United States of America. As both Assistant Secretary of the Air Force for Space and Director of the National Reconnaissance Office, Mr. Harris was the catalyst for change promoting the advanced integration of broad national space capabilities.

Mr. Harris' contributions to space systems management redefined cooperation at the highest levels of government through a new Space Architect and Joint Space Management Board. He was instrumental in defining an architecture for the Space-Based Infrared System aimed at serving warning and missile defenses for warfighters worldwide. The intelligence and defense communities are already benefiting from his actions to develop a cooperative joint space and unmanned aerial vehicle architecture. Assuring access to space for the total range of civil and defense systems, he defined the commercialization policy for Air Force ranges that is helping to re-establish the nation's dominance in launching satellites.

In recognition of these outstanding accomplishments, Mr. Jeffrey K. Harris is hereby presented the 1997 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
1998 RECIPIENT**

**General Howell M. Estes III
Commander-in-Chief, US Space Command and North
American Aerospace Defense Command
Commander, Air Force Space Command**

Howell M. Estes III retired in August of 1998 after entering active duty in 1965 as a graduate of the United States Air Force Academy. A command pilot with more than 4,500 flying hours, he flew 169 combat missions as an F-4 pilot during the Vietnam conflict. During the Gulf War, he served as Deputy Chief of Staff for Operations, Strategic Air Command. During his last assignment, General Estes served as Commander in Chief, North American Aerospace Defense Command (CINCNOARAD), Commander in Chief, United States Space Command (USCINCSpace), and Commander, Air Force Space Command (COMAFSPACE) headquartered at Peterson AFB, CO.

General Estes foresaw the emergence of space as a vital national interest, led the charge to increase awareness of space's importance to military operations and economic wellbeing, and provide a visionary legacy that will ensure America continues to receive the fullest benefits from space. He personally built robust partnerships, founded on trust and confidence, across the civil, military, commercial, and international space sectors. His Long Range Plan, the first of its kind for military space operations, has become the centerpiece of space modernization for the 21st century. As a result of his vision, the nation is poised to dramatically reduce the cost of access, migrate new missions, and expand its preeminence in space.

In recognition of these outstanding achievements that will help usher in a new era of national security and economic prosperity, General Howell M. Estes III is hereby presented the 1998 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
1999 RECIPIENT**

**The Honorable Sheila E. Widnall
Secretary of the United States Air Force**

The Honorable Sheila E. Widnall was Secretary of the Air Force from August 6, 1993 to October 31, 1997. In that role she was responsible for the current and future readiness of the Air Force to accomplish its missions.

Dr. Widnall led the change to ensure the Air Force is technologically ready for the future. In so doing, she started the transformation of the Air Force to a Space and Air Force of tomorrow.

A key result of her leadership as Secretary of the Air Force is the long-term overarching emphasis on the integration of space systems in our national defense policy and operations. Specific space initiatives included space based infrared sensors and the need for new expendable launch vehicles.

In previous positions with the Air Force, Dr. Widnall served on the USAF Academy Board of Visitors and on advisory committees to Military Airlift Command and Wright-Patterson AFB, OH. Dr. Widnall, a faculty member of the Massachusetts Institute of Technology for 28 years, became an associate provost at the university in January 1992. A professor of aeronautics and astronautics, she is internationally known for her work in fluid dynamics, specifically in the areas of aircraft turbulence and spiraling airflows. The Tacoma, WA native is the author of some 70 publications. During her tenure, Dr. Widnall concentrated on quality of life issues, modernization and acquisition reform and scientific and technological development.

Dr. Widnall has resumed her teaching duties and position in the senior administration at the Massachusetts Institute of Technology.

In recognition of these outstanding achievements that have ushered in a new era of space significance in national security considerations, Dr. Sheila E. Widnall is presented the 1999 General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 2000 RECIPIENT

General Richard B. Myers Commander in Chief, United States Space Command

As Commander in Chief, United States Space Command and Commander, Air Force Space Command, from August 1998 to February 2000, General Myers' unique and significant contributions to the military space mission of the United States expanded space warfighting systems and provided ground-breaking space capabilities in support of national security.

General Myers established an innovative program to ensure the security of both the United States and Russia from unintentional consequences of the year 2000 rollover by establishing the Y2K Center for Strategic Stability in Colorado Springs, CO, jointly manned by American and Russian personnel.

As CINCSPACE, he took the lead for the Department of Defense in defending our vital networks and planned the way ahead for attacking enemy networks in times of conflict. His leadership in enhancing space warfighting capabilities paid huge dividends in Kosovo with GPS-enabled precision-guided munitions resulting in extremely accurate strikes and dramatically reducing collateral damage while saving coalition lives.

He continues to serve as a key space leader in his current position as Vice Chairman of the Joint Chiefs by forcefully championing many vital U.S. military space requirements.

Therefore, in recognition of his outstanding achievement in the military aerospace mission of the United States of America, General Richard B. Myers, is hereby presented the 2000 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
2001 RECIPIENT**

**The Honorable Keith R. Hall
Director, National Reconnaissance Office**

The Honorable Keith R. Hall, Director, National Reconnaissance Office (NRO), is recognized for his exceptional service in leading the acquisition and operations of United States space-based reconnaissance and intelligence systems. His far-reaching vision and tireless efforts have guaranteed information supremacy to our nation's decision-makers and combat commanders.

During his tenure at the NRO, Mr. Hall helped bring together the leading government space organizations in developing broad synergies and partnerships across the classified and unclassified arenas of space operations. An unprecedented innovator, he co-sponsored the Air Force NRO Integration Planning Group, linking the Air Force and the NRO together in formulating a large part of our nation's overarching Space planning effort. Mr. Hall and the Commander, Air Force Space Command, formed the first-ever Space Partnership Council to consider on a regular basis, a broad range of Space issues, from Acquisition to Operations. Joined by the NASA Administrator, these meetings have increased efficiency and eliminated duplication across the entire span of civil and national defense space.

These cooperative efforts enabled a seamless integration of DoD and national security space systems. The unprecedented integration, supporting military Commanders in the field, was a major contributor to the successful Air War in Kosovo.

In recognition of his significant achievements in serving our nation and providing for our nation's security by supporting military operations, the Honorable Keith R. Hall, Director, National Reconnaissance Office, is hereby presented the General James V. Hartinger Award for 2001.



**GENERAL JAMES V. HARTINGER AWARD
2002 RECIPIENT**

**General Ralph E. "Ed" Eberhart
Commander-in-Chief, US Space Command and North
American Aerospace Defense Command
Commander, Air Force Space Command**

As the Commander in Chief of North American Aerospace Defense Command, Commander of United States Space Command, and Commander of Air Force Space Command, General Eberhart led the nation's military space forces through unprecedented change, while championing the continued integration of space capabilities with land, sea, and air forces. Through his leadership, the Department of Defense revitalized spacelift operations to a one hundred percent mission success rate, thus maintaining the nation's dominance in launching satellites. He also marshaled the efforts to increase effectiveness of America's global navigation system for military, civil and commercial applications worldwide.

General Eberhart's operational expertise and guidance served as the foundation for the Commands' unparalleled support to Operation ENDURING FREEDOM. His strong leadership and vision ensured America's fighting forces have had access to the full range of space capabilities in the global war on terrorism. General Eberhart has served as an articulate advocate for military space, and set it on a course that will ensure our national security for years to come.

In recognition of the outstanding achievements in the military space mission of the United States of America, General Ralph E. Eberhart is hereby presented the 2002 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
2003 RECIPIENT**

**The Honorable Peter B. Teets
Undersecretary of the United States Air Force and
Director, National Reconnaissance Office**

The Honorable Peter B. Teets has made significant contributions to the military space mission of the United States of America. As Undersecretary of the Air Force and Director, National Reconnaissance Office, Mr. Teets has successfully focused attention on building a national space community that delivers on its commitments in operations and acquisition, as well as developing a professional space team.

Mr. Teets has restored the credibility of the acquisition process by placing responsibility and accountability at government and industry partner program manager levels. He has been tireless in his efforts to restructure programs to gain Congressional support and industry compliance, resulting in the funding of critical systems serving the entire spectrum of national security space.

Mr. Teets has directed new ways of acquiring, deploying, operating and exploiting our nation's space capabilities, providing an overwhelming advantage in warfighting, intelligence gathering and other key elements of our national defense. He is the leading spokesperson in ensuring mission success in space operations, pursuing assured access to space and enhancing our space control capabilities. His groundbreaking emphasis on identifying, educating, mentoring and advancing space-qualified leaders will pay dividends for decades to come for our nation's space program.

In recognition of these outstanding achievements in the military space mission of the United States of America and his quest for space superiority, the Honorable Peter B. Teets is hereby presented the 2003 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
2004 RECIPIENT**

**General Lance W. Lord
Commander, Air Force Space Command**

General Lance W. Lord, USAF, Commander, Air Force Space Command, is recognized for his vision and leadership in ensuring America's fighting forces use the full range of space capabilities in the global war against terrorism. His operational expertise and insight served as the cornerstone for Air Force Space Command's unprecedented support to Operation ENDURING FREEDOM and Operation IRAQI FREEDOM. Under his leadership, Air Force Space Command conducted more than 5,000 satellite sorties and deployed nearly 1,200 personnel in support of global operations in the Middle East, thus ensuring mission success and continued integration of space capabilities with air, land, and sea.

General Lord's expertise and guidance were instrumental in the creation of a first-ever Space Professional Strategy that improved the overall effectiveness of the Military Space Cadre and Mission Support team through education, experience, and training initiatives. His determined leadership and vision were critical in defining "Commanding the Future" as the Command's plan for transforming Air Force Space Command into a full spectrum space combat command. General Lord continues to stand at the forefront of space and missile operations, charting a course that will ensure our nation's security for the future.

In recognition of his significant achievements in serving our nation, General Lance W. Lord is hereby presented the General James V. Hartinger Award for 2004.



GENERAL JAMES V. HARTINGER AWARD 2005 RECIPIENT

General T. Michael Moseley USAF Vice Chief of Staff

General T. Michael Moseley is the Vice Chief of Staff for the United States Air Force. The General assists the Chief of Staff of the Air Force in organizing, training, and equipping over 710,000 active-duty, Guard, Reserve, and civilian Airmen serving in the United States and overseas. The Vice Chief leads the Air Staff, ensuring force readiness and continued innovation. He is also a member of the Joint Chiefs of Staff Requirements Oversight Council and President of the Air Force Council.

Prior to his present duties, General Moseley commanded United States Central Command Air Forces (CENTAF) and Ninth Air Force and served as the Combined Forces Air Component Commander (CFACC) for Operation SOUTHERN WATCH, Operation ENDURING FREEDOM, and Operation IRAQI FREEDOM. General Moseley was in the Pentagon on 11 September 2001 when American Airlines Flight 77 struck the building. By November, he assumed command of CENTAF and commanded all air combat operations for the next 656 days over Afghanistan, Iraq, and the Horn of Africa.

General Moseley graduated from Texas A&M University with both a BA and MA in political science. He is an in-residence graduate of Squadron Officer School, Air Command and Staff College, and the National War College.

During his 33 years in the Air Force he has commanded combat air forces at every level; fighter squadron, fighter operations group, fighter wing, and numbered Air Force. He is an accomplished staff officer completing seven Washington D.C. tours to include five joint assignments and a weapons officer billet on the Air Staff. He also held the Chief of Staff of the Air Force's Chair to the National War College where, as a professor, he taught joint and combined operations. General Moseley is an accomplished fighter pilot who began flying at the age of 14 and has piloted a wide range of aircraft throughout his career. He is a graduate of the USAF's Fighter Weapons School and has more than 2,800 hours in high performance jet aircraft.



GENERAL JAMES V. HARTINGER AWARD 2006 RECIPIENT

**The Honorable Michael W. Wynne
Secretary, United States Air Force**

As the Secretary of the Air Force, the Honorable Michael W. Wynne has been at the forefront of our nation's space and missile activities. His contribution to the nation's High Frontier began upon his graduation from the United States Military Academy in 1966. Secretary Wynne served seven years in the United States Air Force as a mobility and computer staff officer, culminating in an assignment as an Assistant Professor of Astronautics at the United States Air Force Academy where he helped shape future air, space, and missile leaders. As a civilian, his work with the Atlas family of rockets continues to this day with the unprecedented success of the Evolved Expendable Launch Vehicle. As an industry leader, he was instrumental in merging management of the Atlas and Titan family of launch vehicles, combining the Nation's two largest launch platforms and paving the way for increased efficiency. Through his efforts with space launch vehicles, Secretary Wynne has been instrumental in guaranteeing this nation has assured access to space. His leadership as the Under Secretary of Defense for Acquisition, Technology and Logistics and the knowledge of space technology that he brought to that job were critical to the revitalization of space acquisition.

His efforts helped build the foundation of support for Operations Enduring Freedom and Iraqi Freedom. As Secretary of the Air Force he has worked ceaselessly to lead the Air Force into the future, championing total force integration, education of future technology leaders, and dominance of the new realm of cyberspace.

In recognition of his outstanding achievements contributing to the military space and missile preeminence of the United States of America, the Honorable Michael W. Wynne is hereby presented the 2006 General James V. Hartinger Award.



**GENERAL JAMES V. HARTINGER AWARD
2007 RECIPIENT**

**Lieutenant General Michael A. Hamel
Commander, Space and Missile Systems Center,
Air Force Space Command**

Lt. Gen. Michael A. Hamel is Commander, Space and Missile Systems Center, Air Force Space Command, Los Angeles AFB, CA. General Hamel is responsible for managing the research, design, development, acquisition and sustainment of space and missile systems, launch, command and control, and operational satellite systems. He is responsible for more than 6,500 employees nationwide and an annual total budget in excess of \$10 billion. General Hamel is the Air Force Program Executive Officer for Space and is responsible for the Air Force Satellite Control Network; space launch and range programs; the Space-Based Infrared System Program; military satellite communication programs; the Global Positioning System; intercontinental ballistic missile programs; Defense Meteorological Satellite Program; the space superiority system programs, and other emerging transformational space programs.

General Hamel was commissioned a second lieutenant through the U.S. Air Force Academy in June 1972. His career includes assignments in a variety of command, acquisition, operations and policy positions involving space, system development, intelligence, space operations, and launch. The general has served in senior staff positions at Headquarters U.S. Air Force and Air Force Space Command, and he was the Vice President's military adviser on defense, nonproliferation, and space policy. Prior to his current position, General Hamel commanded the 14th Air Force "Flying Tigers," and was responsible for all U.S. Air Force space forces and operations as well as the execution of assigned U.S. Strategic Command's space operations.



GENERAL JAMES V. HARTINGER AWARD 2008 RECIPIENT

Lieutenant General William L. Shelton United States Air Force

Lieutenant General Willie L. Shelton has served in a demanding array of key space and missile operations, and nuclear threat reduction positions throughout his distinguished career.

In the early 1990's he commanded the 2d Space Operations Squadron, operating the Global Positioning System satellites critical to the success of joint operations in OPERATION DESERT STORM. Later, assigned to the Office of the Secretary of Defense, he worked to eliminate weapons of mass destruction in the Former Soviet Union under the Cooperative Threat Reduction Program and managed a program to convert Russian plutonium-producing reactors to electrical power-producing nuclear reactors. In 1997, Gen Shelton Commanded the 90th Space Wing at F.E. Warren AFB, WY, leading the nation's most powerful combat wing, with 950 nuclear weapons on alert. Next at HQ Air Force, he led the Air Staff's Space Panel in building the \$8 billion space and missile budget. Then he directed requirements development at Air Force Space Command, defining the operational needs for many space systems being fielded today.

Following 9-11, Gen Shelton deployed to US Central Command Headquarters as the inaugural director of the Space and Information Operations Element. He integrated space and information systems into the USCENTCOM operational plans for OPERATION ENDURING FREEDOM, and performed initial planning for IRAQI FREEDOM. Following assignments at Headquarters Air Force Space Command as the Director of Plans and Programs and the Director of Air and Space Operations, Gen Shelton in 2003 was assigned to US Strategic Command as the Director of Programs and Requirements. Here he established a new budget authority after the Command was assigned a variety of new missions. He then became the J5 developing operational plans and defining the drawdown of nuclear weapons in accordance with US treaty obligations.

In 2005, Gen Shelton became Commander of the 14th Air Force, including responsibility as Commander, Joint Functional Component Command for Space. Here he has led over 20,000 Soldiers, Sailors, Airmen and Marines in conducting space operations for the Department of Defense. He has grown the Joint Space Operations Center capability, positioning it to meet future critical challenges facing the space domain. His command was intimately involved in successful operations of notable activities such as the North Korean Taepo Dong launch in 2006, the Chinese anti-satellite test in 2007, and OPERATION BURNT FROST, the successful engagement of the failed NRO satellite in 2008.

In recognition of his significant achievements in space and missile operations and his steadfast leadership in conducting successful joint space operations vital to combat operations, Lieutenant General Willie L. Shelton is presented the 2008 General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 2009 RECIPIENT

General C. Robert Kehler Commander, Air Force Space Command

General C. Robert Kehler, Commander, Air Force Space Command, has distinguished himself as a space and missile operations expert over his 34-year Air Force career. Currently, General Kehler is responsible for the development, acquisition and operation of the Air Force's space, missile and cyber systems. He oversees a global network of satellite command and control, communications, missile warning and launch facilities, and ensures the combat readiness of America's intercontinental ballistic missile (ICBM) force. He leads more than 39,700 space professionals who provide combat forces and capabilities to North American Aerospace Defense Command and U.S. Strategic Command. He has commanded at the squadron, group and wing levels, and has a broad range of operational and command tours in ICBM operations, space launch, space operations, missile warning and space control. He commanded a Minuteman ICBM operations group at Whiteman Air Force Base, Missouri, and the Air Force's largest ICBM operations group at Malmstrom AFB, Montana. He served as Deputy Director of Operations, Air Force Space Command; and commanded both the 30th Space Wing at Vandenberg AFB, California, and the 21st Space Wing, at Peterson AFB, Colorado. Most recently, as Deputy Commander, U.S. Strategic Command, he helped provide the President and Secretary of Defense with a broad range of strategic capabilities and options for the joint warfighter through several diverse mission areas, including space operations, integrated missile defense, computer network operations and global strike. The General's staff assignments include wing-level planning and tours with the Air Staff, Strategic Air Command headquarters and Air Force Space Command. He was also assigned to the Secretary of the Air Force's Office of Legislative Liaison, where he was the point man on Capitol Hill for matters regarding the President's ICBM Modernization Program. During an assignment to the Joint Staff, he helped formulate revolutionary changes to nuclear war plan structure and targeting. As Director of the National Security Space Office, he integrated the activities of a number of space organizations on behalf of the Under Secretary of the Air Force and Director, National Reconnaissance Office. Clearly, General Kehler has distinguished himself through outstanding achievement in the military space mission of the United States. It is the distinct pleasure of the National Defense Industrial Association Rocky Mountain Chapter to present the 2009 Hartinger Award to General C. Robert Kehler.



GENERAL JAMES V. HARTINGER AWARD 2010 RECIPIENT

Major General G. Wesley Clark

Major General G. Wesley Clark has distinguished himself as an early military space pioneer and National Security Space expert over his 41-year Air Force and civilian career.

Major General G. Wesley Clark led the Space Mission Planning Study in 1979 that ultimately resulted in the creation of the United States Air Force Space Command in 1982. Subsequently, he was instrumental in developing the Consolidated Space Operations Center at Falcon, now Schriever AFB, and establishing Air Force Space Command's operational capabilities through transitioning both the AF Satellite Control Network and Space Launch Ranges from Air Force Systems Command to Air Force Space Command.

General Clark was the military executive responsible for a comprehensive review of the Integrated Tactical Warning and Attack Assessment System. The results of the study were briefed to the highest levels of government including the White House, Central Intelligence Agency, and Congress. His findings and recommendations directly enhanced our use and understanding of space and ground assets which significantly improved the National Warning System.

Following General Clark's retirement from the United States Air Force, he continued to serve the Colorado Springs Community and the Aerospace/Defense Industrial Base. Most recently, General Clark was a key catalyst and leader in defining, supporting, and acquiring a meaningful and visible role in Cyber warfare. Beginning in 2007, Major General Clark identified a close relationship between the Cyber and Space communities. He then made the initial proposal to Colorado Senator Ken Salazar to establish a state wide Cyber Task Force to address the possible standup of a Cyber mission for the Air Force and then, due to the close relationship between Space and Cyber, locating that mission with Air Force Space Command. As a result, in 2008 Air Force Space Command was designated the lead Air Force Command to plan and conduct Cyberspace operations. In 2009, General C. Robert Kehler, Commander, Air Force Space Command, activated the 24th Air Force. As a result of General Clark's unselfish and diligent efforts, Cyber is now integrated into the United States Air Force's Space activities.

Major General G. Wesley Clark has distinguished himself through a lifetime of outstanding achievement in the military space and cyber mission of the United States. It is the distinct pleasure of the National Defense Industrial Association Rocky Mountain Chapter to present the 2010 James V. Hartinger Award to Major General G. Wesley Clark.:



GENERAL JAMES V. HARTINGER AWARD 2011 RECIPIENT

General Kevin Chilton United States Air Force (Retired)

Gen. Kevin P. Chilton is recognized for outstanding achievements in the military and national security space missions of the United States of America over a 34-year Air Force career.

His military service included contributions as a fighter pilot, test pilot and astronaut. General Chilton logged more than 700 hours in space as a three-time shuttle veteran. He commanded STS-76, the third shuttle docking mission to the Mir and piloted *Endeavour* on its maiden voyage in 1992 which included a record four space walks to retrieve, repair and deploy a communications satellite.

As deputy director of Operations and later commander of Air Force Space Command, General Chilton executed key responsibilities in providing joint commanders with trained and ready space forces and critical space systems capabilities. During his tenure the command reached an impressive string of 56 successful national security payload launches, including the first Delta IV launched from Vandenberg AFB. By the end of 2006 over 18,000 mission essential products had been delivered to support Operations IRAQI FREEDOM, ENDURING FREEDOM and NOBLE EAGLE, and over 4,000 airmen had deployed forward, providing important support to combatant commanders.

In 2007 General Chilton was selected as commander, U.S. Strategic Command, responsible for advocating, planning and integrating space capabilities for joint forces worldwide. General Chilton's leadership contributed to supporting national security in and from space - from ballistic missile defense to tracking and reducing orbital debris. Under his leadership, USSTRATCOM and Air Force Space Command initiated efforts to improve global coverage and provide enhanced capability for all GPS users, and in particular military forces operating in Afghanistan. He instituted an annual deterrence symposium that brought together academic, military, commercial and coalition leaders to advance the application of deterrence theory to real applications for space and other missions.

A visionary space leader, General Chilton highlighted key areas of operational risk and called for efforts to improve the stockpile of current space assets that could be launched at a moment's notice. As co-chair of the Operationally Responsive Space (ORS) executive committee, his efforts helped identify and address the urgent space needs of joint warfighters. He provided advocacy to assemble and deploy space assets to demonstrate improved technologies. The successful transition of TACSAT-3 from an experimental payload to an operational asset and the launch of ORS-1 validated the concept.

General Chilton led the planning and execution of Burnt Frost, a complex operation in which a defective U.S. satellite was shot down under controlled circumstances. The destruction the satellite with minimal resultant orbital debris sent a powerful message worldwide, demonstrating the United States' commitment to the safe and responsible use of space. Following the Iridium/Cosmos satellite collision in 2009, General Chilton supported closer cooperation and information-sharing between governments and commercial satellite operators resulting in providing important collision avoidance data to over sixty nations and space system owners.

General Kevin Chilton distinguished himself by exceptional leadership, achievements and support to the military, civil and national security space missions of the United States. It is with distinct pleasure that the National Defense Industrial Association Rocky Mountain Chapter presents the 2011 James V. Hartinger award to General Kevin P. Chilton.



GENERAL JAMES V. HARTINGER AWARD 2012 RECIPIENT

General Bruce Carlson United States Air Force (Retired)

Gen. Bruce A. Carlson is recognized for outstanding achievements in the military and national security space missions of the United States of America over 37-year Air Force career and as director, National Reconnaissance Office (NRO).

Prior to becoming the director of the NRO, General Carlson contributed significantly to the advancement of military space capabilities. In numerous key assignments he supported the value and integration of space including: director, Operational Requirements, Headquarters U.S. Air Force; director for Force Structure, Resources and Assessment, J8 the Joint Staff; and Joint Functional Component commander for Space and Global Strike, U.S. Strategic Command.

Since 2009, Director Carlson provided the inspiring leadership, vision, and organizational climate that enabled the NRO to achieve unqualified success in its mission areas of space acquisition, launch, and operations.

In acquisition, one of his most significant contributions was restructuring the architecture to reduce cost and development risk and place programs on a more achievable path. He clarified the future national security space architecture to ensure decision makers are assured access to critical overhead intelligence information. In addition:

- Director Carlson led the NRO's implementation of a new Evolutionary Acquisition Strategy that sustains core NRO mission systems while developing key technologies to address future intelligence challenges.
- He aggressively managed the NRO's space vehicle acquisition programs and ensured these programs provided world-class collection capabilities while achieving cost efficiencies and keeping launch date commitments.
- His emphasis on sound fiscal management principles resulted in the NRO receiving three consecutive successful financial audits, a first for any Defense and Intelligence Community organization and, under his leadership, all major NRO programs received a "green" rating against established Program Management criteria.

Achievements in the space launch mission area were remarkable during his tenure, where he skillfully led the most ambitious and successful NRO satellite launch campaign in over 25 years. In 2011, his efforts contributed to six highly successful launches, and in 2012 he oversaw another active campaign involving four successful launches in six months. The new capabilities delivered by these satellites, as well as other technical capabilities the NRO developed and delivered, provided tremendous benefit to the intelligence community, the Department of Defense, the State Department and other governmental organizations.

In the operations area, Director Carlson focused the NRO on extracting operational utility from a satellite constellation beyond its design life. The NRO kept this constellation flying and developed new methods of processing data that yielded improved products for the Department of Defense-reducing delivery timelines, and improving geo-locational accuracy and exploitation techniques. His focus on delivering capabilities to a wide range of users during a period of conflict advanced the security of the United States, enabled critical military missions and contributed to protecting soldiers, sailors, airmen and marines engaged in combat operations around the globe. His emphasis on enhanced collaboration among military, civil, national and foreign users contributed immeasurably to the overall effectiveness of the NRO.

General Bruce Carlson distinguished himself by exceptional leadership, achievements and support to the military and national security space missions of the United States. It is with distinct pleasure that the National Defense Industrial Association Rocky Mountain Chapter presents the 2012 James V. Hartinger Award to General Bruce A. Carlson.



**GENERAL JAMES V. HARTINGER AWARD
2013 RECIPIENT**

**Charles P. Zimkas, Jr.
Chief Master Sergeant (Retired)
United States Air Force**

Chief Master Sergeant Charles P. Zimkas served for 26 years in the U.S. Air Force, during which he was selected in 1978 as one of the initial cadre of the "Twelve Outstanding Airmen of the Year" for the United States Air Force. In 1980 he was competitively selected to be the Senior Enlisted Advisor for North American Aerospace Defense Command, or NORAD. In 1982, he was hand-picked by General Hartinger to be the "first" Air Force Space Command Senior Enlisted Advisor and the Senior Enlisted Advisor for NORAD. He worked constantly for the betterment of the quality of life for everyone in NORAD and Air Force Space Command by making the right decisions in key areas at the right time.

He retired from the Air Force in 1984. In 1998, Air Force Space Command dedicated its Enlisted Heritage Room as the "Chief Master Sergeant Charles P. Zimkas, Jr., Enlisted Heritage Room." in his honor.

Chief Zimkas joined the Space Foundation in July 1986, as the Director of Operations becoming the Chief Operating Officer until 2012. As the Chief Operating Officer, he was responsible for the operations and logistical support functions of the Foundation. In 2012, he was chosen as President of the Space Foundation. As President, he was responsible for operations, education programs, marketing and communications, customer service, facilities, human resources, event planning, information technology, logistics and operation of the new Space Foundation Visitors Center. Throughout his career with the Space Foundation he played a key role in the continued success of the annual Space Symposium, relocation of the Space Foundation to its new world headquarters and creation of the Space Foundation Discovery Center. Chief Zimkas was also the Program Manager for the "Reaching for the Stars," a highly successful program that recognized the need to bring technology into the field of education.

Chief Zimkas retired from the Space Foundation on July 1st, 2013 after a distinguished 27-year career. At that time, the Space Foundation announced the establishment of the "Zimkas Space Library" to serve students, teachers, tutors, book clubs, and space-related interest groups.

Chief Master Sergeant Charles P. Zimkas has distinguished himself through a lifetime of outstanding accomplishment both in the military, supporting the Air Force space mission and in industry by laying the foundation and advancing the Space Foundation's commitment to international space development. The Rocky Mountain Chapter of the National Defense Industrial Association is pleased to present the 2013 James V. Hartinger Award to Chief Master Sergeant Charles P. Zimkas, Jr.



GENERAL JAMES V. HARTINGER AWARD 2014 RECIPIENT

Lieutenant General (USAF, Ret) Susan J. Helms Former Commander, 14th Air Force, Air Force Space Command

Lt. Gen. (USAF, Ret) Susan J. Helms retired as the Commander, 14th Air Force (Air Forces Strategic), Air Force Space Command; and Commander, Joint Functional Component Command for Space, U.S. Strategic Command, Vandenberg Air Force Base, California. As the U.S. Air Force's operational space component to USSTRATCOM, General Helms led more than 20,500 personnel responsible for providing missile warning, space superiority, space situational awareness, satellite operations, space launch and range operations. As Commander, JFCC SPACE, she directed all assigned and attached USSTRATCOM space forces providing tailored, responsive, local and global space effects in support of national, USSTRATCOM and combatant commander objectives.

General Helms was commissioned from the U.S. Air Force Academy in 1980. She has served as an F-15 and F-16 weapons separation engineer and a flight test engineer. As a flight test engineer, General Helms has flown in 30 types of U.S. and Canadian military aircraft. She has also served as project officer on the CF-18 aircraft as a U.S. Air Force Exchange Officer to the Canadian Aerospace Engineering Test Establishment.

Selected by NASA in January 1990, General Helms became an astronaut in July 1991. On Jan. 13, 1993, then an Air Force major and a member of the space shuttle Endeavour crew, she became the first U.S. military woman in space. She flew on STS-54 (1993), STS-64 (1994), STS-78 (1996) and STS-101 (2000), and served aboard the International Space Station as a member of the Expedition-2 crew (2001). A veteran of five space flights, General Helms has logged 211 days in space, including a spacewalk of eight hours and 56 minutes, a world record. General Helms commanded the 45th Space Wing at Patrick AFB, Fla. Her staff assignments include tours at Headquarters Air Force Space Command, Air Education and Training Command, and U.S. Strategic Command.



GENERAL JAMES V. HARTINGER AWARD 2015 RECIPIENT

**General John E. Hyten
Commander, Air Force Space Command
Peterson Air Force Base, Colorado**

General Hyten's vision, foresight and unsurpassed understanding of space and cyberspace have accelerated our nation's ability to exploit new capabilities and defend space and cyberspace like never before. Leading over 38,000 Active Duty, Guard and Reserve Airmen; government civilians and contractors, he provided unparalleled 24/7 satellite Command and Control, next-generation Missile Warning and Space Situational Awareness capability, and record-breaking launch operations.

Last year alone, his professionals at Air Force Space Command delivered six new satellites into operations, providing essential Global Positioning, Satellite Communications and weather sensing capabilities. The data delivered by these platforms was provided across the spectrum of operations to Combatant Commands and Coalition partners. Through a fiscally constrained environment, General Hyten ensured continued operation of critical mission warfighter capabilities, led assured access to space through strong partnerships with commercial and government agencies, continued the success of block buy acquisitions, and ensuring new entrant safety standards for National Security launches.

His vision is creating the most responsive, resilient force ever in the face of daunting challenges in the space domain. Specifically, he is the driving force behind launch range modernization which has paved the way for commercial partnerships, a critical step to providing our nation with affordable assured access to space. In order to meet the dynamic challenge in space, General Hyten is driving towards improved Command and Control and training with Air Force Space Command's Space Mission Force constructs. This fundamental shift in how we present forces not only makes Command and Control clearer but allows for dramatic enhancements in training operators to meet the challenges of the contested domain. Of even greater importance, General Hyten created a new culture in Air Force Space Command. He championed the importance of cultivating and maintaining the expertise, innovation and passion of our space and cyber Airmen through an unwavering commitment of mutual respect. This "Wingman" culture strengthens our Airmen and their families, fostering care, support and success.

General Hyten is a recognized voice in the Department of Defense community for the attributes that space and cyberspace provide to the warfighter. He is a recipient of the General Jerome F. O'Malley Distinguished Space Leadership Award, "For Vision and Leadership in pursuit of Space Excellence", the Wernher von Braun Space Flight Trophy, "For Outstanding Leadership in Advancing the U.S. Space Program", and the General Thomas D. White Space Award, "For the Most Outstanding Contribution to the Nation's Progress in Aerospace".

General John E. Hyten is hereby awarded the Rocky Mountain Chapter of NDIA prestigious General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 2016 RECIPIENT

**General Ellen M. Pawlikowski
Commander, Air Force Materiel Command
Wright-Patterson Air Force Base, Ohio**

General Pawlikowski currently serves as Commander, Air Force Materiel Command. Her career has spanned a wide variety of technical management, leadership and staff positions including command at the wing and center levels. She is nationally recognized for her leadership in the U.S. science and technology community. She is a fellow of the American Institute of Aeronautics and Astronautics and a member of the National Academy of Engineers.

As Commander of Air Force Materiel Command, she masterfully manages 80,000 people and a \$60 billion budget, executing the critical mission of warfighter support through leading-edge science and technology, cradle-to-grave life cycle weapon system management, world-class developmental test and evaluation, world class depot maintenance, and installation and mission support. She spearheaded implementation of the Command's new mission and vision to align with the SECAF directive for a more agile Air Force. Also, she brought the Installation and Mission Support Center to initial operating capability, taking it from a provisional center to a fully functioning, consolidated enterprise for six Air Force support agencies.

As Commander, Space and Missile Systems Center, she directed her launch team in negotiations for five contracts valued at over \$14 billion, saving \$4.5 billion across 42 missions while launching 22 successful national security space satellites into nearly perfect orbits. She led the Space-Based Infrared System (SBIRS) team to deliver the inaugural \$3 billion geosynchronous satellite and awarded a \$2.5 billion production contract for two additional satellites; saving \$500 million in costs through a fixed-price contract negotiation. She also led the launch and operational acceptance of two Advanced Extremely High-Frequency satellites, ensuring secure, survivable anti-jam communications at ten times the capacity of the heritage systems.

Gen Pawlikowski fundamentally changed the Eastern and Western range operations through an innovative new service contract, resulting in elevated range support while saving \$50 million per year without affecting operations. Also, she championed the move towards a more resilient, disaggregated space vehicle architecture, mitigating risks related to large, expensive satellite payloads in favor of smaller, more affordable systems.

General Pawlikowski's distinctive accomplishments have earned her the distinguished 2016 Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD

2017 RECIPIENT

General John W. "Jay" Raymond Commander, Air Force Space Command Peterson Air Force Base, CO

General John "Jay" Raymond serves as Commander, Air Force Space Command, where he leads over 35,000 total force airmen, government civilians and contractors providing military focused space and cyberspace capabilities to the nation. His command provides unparalleled 24/7 satellite command and control, next-generation missile warning and space situational awareness capability, record-breaking launch operations and premier cyberspace operations. Directly responsible for two of the Air Force's three warfighting domains, General Raymond is advancing multi-domain operations by integrating all space and cyberspace mission areas to protect and defend Joint use of both domains against emerging threats.

Significant initiatives include the completion of multiple warfighting concepts of operations, the refinement of advanced battle management system requirements and the initial shift of the Air Force from an antiquated information technology infrastructure to a data-centric infrastructure leveraging commercial sector cloud and network services, which enables the reallocation of critical cyberspace manpower towards emerging warfighting missions.

Prior to his current command, General Raymond was the Deputy Chief of Staff for Operations, Headquarters, United States Air Force. As the first and only space operator to serve in this capacity, he ensured the integration of space with other domains of warfare in the joint environment, and formulated policy supporting the breath of Air Force mission areas.

General Raymond previously commanded both the 14th Air Force and the United States Strategic Command's Joint Functional Component Command for Space. In these roles, his visionary leadership of 19,500 people, executed 27 weapons systems across 58 worldwide locations, ensured the successful operation of 120 billion dollars in critical space capabilities for the Nation's defense and drove a national dialogue on command and control of the space enterprise.

General Raymond is a recipient of the General Jerome F. O'Malley Distinguished Space Leadership Award, the General Thomas D. White Space Award and the 2016 Peter B. Teets Government Award.

General Raymond's steady guidance and dedication to duty have earned him the distinguished 2017 Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 2018 RECIPIENT

General David H. Goldfein Chief of Staff, United States Air Force

General David L. Goldfein is Chief of Staff, United States Air Force. He is responsible for organizing, training, and equipping 670,000 active duty, Guard, and Reserve Airmen serving throughout the world. As a member of the Joint Chiefs of Staff, General Goldfein is a military adviser to the Secretary of Defense, National Security Council, and the President. Prior to his current position, General Goldfein was United States Air Force Vice Chief of Staff, where he presided over the Air Staff and served as on the Joint Chiefs of Staff Requirements Oversight Council and Deputy Advisory Working Group.

General Goldfein is leading historic changes in national security space as one of military space's most vocal advocates. As senior military officer for the Department of Defense's lead Service for space, General Goldfein emphasized Soldiers, Sailors, Marines, and Coast Guardsmen reliance on space capabilities to accomplish joint missions. Drawing on his experience as the space coordinating authority for United States Central Command, he expanded joint presence in space organizations to ensure Air Force addressed all military services' requirements.

To streamline military space, General Goldfein convinced added manpower to better develop joint space requirements. He regained Milestone Decision Authority on multiple major space acquisition programs. He fully supported elevation of the Commander, Air Force Space Command to the Joint Force Space Component Commander under United States Strategic Command, focused on joint military space operations.

The United States Air Force, under General Goldfein, led establishment of the National Space Defense Center transforming focus, resources, and energy from an experimentation office to a new center for space warfighting operations. General Goldfein is aggressively improving military space training by applying air domain best practices to the space domain. In an historic move, General Goldfein selected the 50 SW/CC as the first non-flying Air Expeditionary Wing Commander for Red Flag Exercise 16-3.

General Goldfein significantly increased the number of force development opportunities for Air Force space operators. He endorsed an Air Force Space Command initiative to create a space-centric Intermediate Developmental Education curriculum at Air University. He also supported an 80% increase in space operators attending Air Command and Staff College, and increased the number of space operators attending the School of Advanced Air and Space Studies.

General Goldfein received his commission from the USAF Academy in 1983. He is a graduate of USAF Weapons School and is command pilot with more than 4,200 flying hours in the T-37, T-38, F-16C/D, F-117A, MQ-9, and MC-12W. He flew combat missions in operations Desert Storm, Allied Force, and Enduring Freedom.



**GENERAL JAMES V. HARTINGER AWARD
2019 RECIPIENT**

**Mr. Andrew D. Cox
Headquarters Air Force Space Command
Director, Space Security and Defense Program**

Andrew Cox was appointed Director, Space Security and Defense Program (D/SSDP) headquartered at Air Force Space Command, Peterson AFB, CO in March 2013. As SSDP Director, Mr. Cox is responsible for jointly focusing the Department of Defense and the Intelligence Community's space survivability and protection efforts. Responsible to the Deputy Secretary of Defense (DEPSECDEF) and Principal Deputy Director of National Intelligence (PDDNI), Mr. Cox develops strategies to protect National Security Space from adversary capabilities. In July 2011 Mr. Cox was appointed Director of the Space Protection Program which was the predecessor organization to SSDP.

In December 2008, Mr. Cox was appointed Director, Communications Systems Directorate (COMM) at the NRO. As COMM Director, Mr. Cox was responsible for the successful execution of all communications satellite systems acquisitions within the NRO, as well as the acquisition of all global terrestrial networks. His responsibilities spanned the design, acquisition, launch, deployment and operations support for current and future COMM systems. For the one year prior to accepting this position, Mr. Cox was Deputy Director, COMM.

In 2006, Mr. Cox was assigned as Deputy Program Executive Officer, Space Systems, providing acquisition oversight for Navy satellite programs, including the Mobile User Objective System (MUOS), UHF Follow on (UFO), and LEASAT. He was assigned concurrently as Executive Director of the Space and Naval Warfare Systems Command (SPAWAR) Space Field Activity, responsible for Navy personnel assigned to the NRO.

Mr. Cox was selected as a member of the Senior Executive Service in 2004 and served as Deputy PEO C4I and Space. He entered government service in 1997 at the Space and Naval Warfare Systems Command (SPAWAR), serving in several engineering positions until becoming the Technical Director for the command. Mr. Cox began his career as a software programmer and integrator in the Defense industry. Mr. Cox has received several awards for his service, to include the Presidential Rank Award, the Director of National Intelligence Meritorious Unit Award, and Navy Superior and Meritorious Civilian Service Awards. He has also been recognized with the 2019 James V. Hartinger Award and the 2018 General Jerome F. O'Malley Distinguished Space Leader Award. Mr. Cox graduated well below his wife from Colgate University, and they have one daughter and one son, both of whom exhibit signs of their mother's brilliance.



GENERAL JAMES V. HARTINGER AWARD 2020 RECIPIENT

**Lieutenant General John F. Thompson
Commander, Space and Missile Systems Center**

Lt. Gen. John F. Thompson is the Commander, Space and Missile Systems Center, Los Angeles Air Force Base, California. He is responsible for approximately 6,000 employees nationwide and an annual budget of \$7 billion. As the Air Force Program Executive Officer for Space, General Thompson manages the research, design, development, acquisition and sustainment of satellites and the associated command and control systems. His extensive portfolio includes military satellite communication, missile warning, navigation and timing, space-based weather, space launch and test ranges, certification for launch, space superiority, responsive space and other emerging evolutionary space programs.

Highlights of General Thompson's military space accomplishments include:

- Managed the Secretary of the Air Force-directed Space Acquisition Transformation to re-architect the Space and Missile Systems Center and implement innovative approaches that rapidly address emerging threats. Expertly drove SMC 2.0 re-org to initial ops cape...stood up 3 new PEOs & cut 25 years from acquisition cycle; cut 3 layers bureaucracy/reduced decision timelines by 50%.
- Implemented Section 804 prototyping authorities on 12 programs, shaving years off acq timelines & exceeding objective. Via triannual reports & strategic comm w/Congressional staffs, maintained full transparency on 804 programs as demonstrated by successful engagements to remove budget marks and/or gain Above Threshold Reprogramming approvals.
- Pioneered the use of Fiscal Year 2016 National Defense Authorization Act Section 804 Middle Tier Acquisition authorities on eight space programs, enabling the delivery of space capabilities a combined 19 years ahead of schedule.
- Japan partnership on track w/ their satellite RFP issued in Dec 18 & agreement on US payload interface standards; Memo of Understanding w/Norway signed May 19, satellite bus selection Jun 19; multiple allied partnerships established w/Italy, UK, Australia & Canada.
- Awarded \$312 M on Space Enterprise Consortium w/many targeted to convert to operational capability; SpEC ceiling on track for \$1.3 B.
- Launch Block Buy Request for Proposal issued May 19; negotiated reduction of the decade old launch claim payout by 50%, saving nation \$260 M; Multi-manifest office up and running, STP-2 launched 24 payloads on a single launch AND demonstrated reusable boosters.
- Advance Enhance High Frequency five satellite delivered for launch Jul 19 & launched Aug 19; Wideband Global Satellite delivered for launch Feb 19, launched Mar 19; WGS satellite with greater capacity awarded in Feb 19 at a not to exceed of \$600 M.
- Successfully launched 12 National Security Space payloads with 100% mission success, bolstering the Global Positioning System, Advanced Extremely High Frequency, Wideband Global Satellite Communications, Space Based Infrared System, and National Reconnaissance Office satellite constellations.

General Thompson's inspirational and innovative leadership has delivered superior space capabilities to the warfighter, served as a masterful steward of our Nation's resources, established effective partnerships in the development of space systems and technologies, and provided successful access to space in support of Air Force and National objectives. It is my distinct honor to nominate Lieutenant General John F. Thompson for the prestigious General James V. Hartinger Award.



GENERAL JAMES V. HARTINGER AWARD 2021 RECIPIENT

General David “DT” Thompson Vice Chief Space Operations

Gen. David D. Thompson is the Vice Chief of Space Operations, United States Space Force. As Vice Chief, he is responsible for assisting the Chief of Space Operations in organizing, training, and equipping space forces in the United States and overseas, integrating space policy and guidance, and coordinating space-related activities for the U.S. Space Force and Department of the Air Force.

The U.S. Space Force organizes, trains, equips and maintains mission-ready space forces that provide missile warning, space domain awareness, positioning, navigation and timing, communications, and space electronic warfare for North American Aerospace Defense Command, U.S. Strategic Command, U.S. Space Command, and other combatant commands.

Gen. Thompson was commissioned in 1985 as a graduate of the U.S. Air Force Academy. He is a career space officer with assignments in operations, acquisition, research and development, and academia. Gen. Thompson has commanded operational space units at the squadron, group, and wing levels; he is also an Olmsted Scholar, a graduate of the Senior Acquisition Course, and Level III-Certified Program Manager. Prior to his assignment as Vice Chief of Space Operations, Gen. Thompson was the Vice Commander, U.S. Space Force.

EDUCATION

1985 Bachelor of Science, Astronautical Engineering, U.S. Air Force Academy, Colo.

1989 Master of Science, Aeronautics and Astronautics, Purdue University, West Lafayette, Ind.

1990 Squadron Officer School, Maxwell Air Force Base, Ala.

1993 Olmsted Scholar, Johannes Kepler University, Linz, Austria

1998 Air Command and Staff College, Maxwell AFB, Ala.

2000 Advanced Program Managers Course, Defense Systems Management College, Fort Belvoir, Va.

2001 Air War College, Maxwell AFB, Ala.

2005 Master of Science, National Security Industrial Policy, Industrial College of the Armed Forces, Fort Lesley J. McNair, Washington, D.C.

2005 Senior Acquisition Course, National Defense University, Fort Lesley J. McNair, Washington, D.C.

ASSIGNMENTS

1. July 1985–May 1988, Experimental Rocket Propulsion Engineer and Chief, Motor/ Component Operations Section, Air Force Rocket Propulsion Laboratory, Edwards Air Force Base, Calif.

2. June 1988–July 1989, Graduate Student, Purdue University, West Lafayette, Ind.

3. August 1989–October 1992, Instructor of Astronautics, Assistant Professor and Executive Officer, Department of Astronautics, U.S. Air Force Academy, Colo.

4. October 1992–May 1993, Student, Defense Language Institute, Presidio of Monterey, Calif.

5. June 1993–July 1995, Olmsted Scholar, Johannes Kepler University, Linz, Austria

6. August 1995–July 1997, Program Manager, Advanced MILSATCOM Program, MILSATCOM Joint Program Office, Space and Missile Systems Center, Los Angeles AFB, Calif.

7. August 1997–June 1998, Student, Air Command and Staff College, Maxwell AFB, Ala.
8. July 1998–August 2000, Spacelift Requirements Officer and Chief, Spacelift Vehicle Requirements Branch, Headquarters Air Force Space Command, Peterson AFB, Colorado Springs, Colo.
9. September 2000–April 2002, Deputy Director, Commander's Action Group, Headquarters Air Force Space Command, Peterson AFB, Colo.
10. June 2002–July 2004, Operations Officer and Commander, 2nd Space Launch Squadron, Vandenberg AFB, Calif.
11. August 2004–June 2005, Student, Industrial College of the Armed Forces, Fort Lesley J. McNair, Washington, D.C.
12. June 2005–July 2007, Commander, 45th Operations Group, Cape Canaveral Air Force Station, Fla.
13. July 2007–May 2009, Commander, Aerospace Data Facility – Colorado, Buckley AFB, Colo.
14. June 2009–June 2010, Director of Space Forces, U.S. Air Forces Central Command, Southwest Asia
15. July 2010–May 2011, Vice Commander, U.S. Air Force Warfare Center, Nellis AFB, Nev.
16. May 2011–March 2012, Director of Air, Space and Cyberspace Operations, Air Force Space Command, Peterson AFB, Colo.
17. March 2012–January 2014, Deputy Director of Global Operations, U.S. Strategic Command, Offutt AFB, Neb.
18. January 2014–June 2015, Director of Plans and Policy, U.S. Strategic Command, Offutt AFB, Neb.
19. July 2015–July 2017, Vice Commander, Air Force Space Command, Peterson AFB, Colo.
20. July 2017–April 2018, Special Assistant to the Commander, Air Force Space Command, Peterson AFB, Colo.
21. April 2018–December 2019, Vice Commander, Air Force Space Command, Washington, D.C.
22. December 2019–September 2020, Vice Commander, U.S. Space Force, Washington, D.C.
23. October 2020–present, Vice Chief of Space Operations, U.S. Space Force, Washington, D.C.

SUMMARY OF JOINT ASSIGNMENTS

1. July 2007–May 2009, Commander, Aerospace Data Facility – Colorado, Buckley Air Force Base, Colo., as a colonel
2. March 2012–January 2014, Deputy Director of Global Operations (DJ3), U.S. Strategic Command, Offutt AFB, Neb., as a brigadier general and major general
3. January 2014–June 2015, Director of Plans and Policy (J5), U.S. Strategic Command, Offutt AFB, Neb., as a major general

BADGES

Command-Space Operations Badge

Parachutist Badge

Master Acquisition Badge

Missile Maintenance Badge

MAJOR AWARDS AND DECORATIONS

Defense Superior Service Medal with oak leaf cluster

Legion of Merit

Bronze Star Medal

Defense Meritorious Service Medal

Meritorious Service Medal with two oak leaf clusters

Air Force Commendation Medal

Air Force Achievement Medal with two oak leaf clusters

OTHER ACHIEVEMENTS

2006 Outstanding Space Operations Crew, Air Force Association

2009 National Reconnaissance Office Gold Medal

2012 General Jerome F. O'Malley Distinguished Space Leadership Award, Air Force Association

2018 Peter B. Teets Government Award, National Defense Industrial Association

2019 Space Leadership Award, Federation of Galaxy Explorers
2019 Outstanding Aerospace Engineer, Purdue University

EFFECTIVE DATES OF PROMOTION

- Second Lieutenant May 29, 1985
- First Lieutenant May 29, 1987
- Captain May 29, 1989
- Major Aug. 1, 1996
- Lieutenant Colonel May 1, 2000
- Colonel Aug. 1, 2004
- Brigadier General June 18, 2010
- Major General Oct. 10, 2013
- Lieutenant General April 4, 2018
- General Oct. 1, 2020



GENERAL JAMES V. HARTINGER AWARD 2022 RECIPIENT

Lt. Gen. Stephen N. Whiting
Commander, Space Operations Command

Lt. Gen. Stephen N. Whiting is Commander, Space Operations Command, Peterson Air Force Base, Colorado.

Space Operations Command is a Field Command of the U.S. Space Force, comprising thousands of Space Professionals and Airmen worldwide. As Commander, Lt. Gen Whiting leads the preparation, generation, and sustainment of combat-ready intelligence, cyber, space and combat support forces and serves as the U.S. Space Force Service Component to U.S. Space Command.

Lt. Gen. Whiting is a 1989 distinguished graduate of the U.S. Air Force Academy with a degree in aeronautical engineering. He is a space operations officer and has commanded the 13th Space Warning Squadron; the 614th Air and Space Operations Center and Joint Space Operations Center; the 21st Space Wing; and the Combined Force Space Component Command and 14th Air Force.

Lt. Gen. Whiting's staff assignments include positions at Headquarters U.S. Air Force; U.S. Space Command; U.S. Strategic Command; the Chief of Naval Operations' Strategic Studies Group; the Office of the Deputy Secretary of Defense; Headquarters Air Force Space Command; and Headquarters U.S. Space Force.

EDUCATION

1989 Distinguished Graduate, Bachelors of Science degree in Aeronautical Engineering, U.S. Air Force Academy, Colo.

1990 Top Graduate and Distinguished Graduate, Undergraduate Space Training, Lowry AFB, Colo.

1993 Distinguished Graduate, Squadron Officer School, Maxwell AFB, Ala.

1997 Master of Arts degree in Administrative Sciences (Organizational Management), The George Washington University, Washington, D.C.

2001 Top Graduate (tied) and Distinguished Graduate, Master of Arts degree in Military Operational Arts and Sciences, Air Command and Staff College, Maxwell AFB, Ala.

2002 Master of Arts in Airpower Strategy, School of Advanced Air and Space Studies, Maxwell AFB, Ala.

2008 Joint Forces Staff College, Norfolk, Va.

2017 Senior Executives in National and International Security, John F. Kennedy School of Government at Harvard University, Executive Education, Cambridge, Mass.

ASSIGNMENTS

1. July 1989 - November 1990, Student, 14th Student Squadron, Columbus AFB, Miss.

2. November 1990 - November 1993, Crew Commander, Deputy Chief of Training, and Chief of Standardization and Evaluation, 6th Space Warning Squadron, Cape Cod AFS, Mass.

3. November 1993 - December 1994, Radar Systems Officer, 21st Operations Support Squadron, Peterson AFB, Colo.

4. December 1994 - July 1995, Executive Officer, 21st Operations Group, Peterson AFB, Colo.

5. August 1995 - May 1997, Air Force Intern, HQ U.S. Air Force and The George Washington University, Washington, D.C.

7. June 1999 - July 2000, Operations Officer, 22nd Space Operations Squadron, Schriever AFB, Colo.
8. August 2000 - June 2001, Student, Air Command and Staff College, Maxwell AFB, Ala.
9. July 2001 - June 2002, Student, School of Advanced Air and Space Studies, Maxwell AFB, Ala.
10. July 2002 - June 2003, Regional Policy Officer, Headquarters U.S. Space Command and U.S. Strategic Command West, Peterson AFB, Colo.
11. June 2003 - June 2004, Special Assistant to the Commander, Headquarters U.S. Strategic Command, Offutt AFB, Neb.
12. July 2004 - July 2005, Commander, 13th Space Warning Squadron, Clear AFS, Alaska
13. July 2005 - May 2006, Air Force Fellow, RAND Corporation, Santa Monica, Calif.
14. June 2006 - June 2008, Commander, 614th Air and Space Operations Center and Director, Joint Space Operations Center, Vandenberg AFB, Calif.
15. September 2008 - August 2009, Chief of Staff U.S. Air Force Fellow, with duty at the Chief of Naval Operations' Strategic Studies Group, Newport, R.I.
16. August 2009 - June 2011, Commander, 21st Space Wing, Peterson AFB, Colo.
17. July 2011 - July 2013, Military Assistant and Acting Senior Military Assistant to the Deputy Secretary of Defense, Washington, D.C.
18. July 2013 - July 2015, Vice Commander, U.S. Air Force Warfare Center, Nellis AFB, Nev.
19. July 2015 - October 2015, Space Enterprise Vision Team Lead, Headquarters Air Force Space Command, Peterson AFB, Colo.
20. November 2015 - August 2017, Director of Integrated Air, Space, Cyberspace and ISR Operations, Headquarters Air Force Space Command, Peterson AFB, Colo.
21. August 2017 - November 2017, Joint Force Space Component Command Integration Team Lead, Headquarters Air Force Space Command, Peterson AFB, Colo.
22. December 2017 - August 2019, Commander, 14th Air Force, Air Force Space Command, and Deputy Joint Force Space Component Commander, U.S. Strategic Command, Vandenberg AFB, Calif.
23. August 2019 - November 2019, Combined Force Space Component Commander, U.S. Space Command, and Commander, 14th Air Force, Air Force Space Command, Vandenberg AFB, Calif.
24. November 2019 - December 2019, Deputy Commander, Air Force Space Command, Peterson AFB, Colo.
25. December 2019 - October 2020, Deputy Commander, Headquarters U.S. Space Force, Peterson AFB, Colo.
26. October 2020 - present, Commander, Space Operations Command, Peterson AFB, Colo.

SUMMARY OF JOINT ASSIGNMENTS

1. July 2002 - June 2003, Regional Policy Officer, Headquarters U.S. Space Command and U.S. Strategic Command West, Peterson AFB, Colo., as a Lieutenant Colonel
2. June 2003 - June 2004, Special Assistant to the Commander, Headquarters U.S. Strategic Command, Offutt AFB, Neb., as a Lieutenant Colonel
3. June 2006 - June 2008, Director, Joint Space Operations Center, Vandenberg AFB, Calif., as a Colonel
4. July 2011 - July 2013, Military Assistant and Acting Senior Military Assistant to the Deputy Secretary of Defense, Washington, D.C., as a Colonel
5. December 2017 - August 2019, Deputy Joint Force Space Component Commander, U.S. Strategic Command, Vandenberg AFB, Calif., as a Major General
6. August 2019 - November 2019, Combined Force Space Component Commander, U.S. Space Command, Vandenberg AFB, Calif., as a Major General

MAJOR AWARDS AND DECORATIONS

Distinguished Service Medal with oak leaf cluster
Defense Superior Service Medal
Legion of Merit with two oak leaf clusters
Defense Meritorious Service Medal
Meritorious Service Medal with oak leaf cluster

Air Force Commendation Medal with oak leaf cluster
Air Force Achievement Medal
Combat Readiness Medal
National Defense Service Medal
French Order of Merit

DATES OF PROMOTIONS

Second Lieutenant May 31, 1989
First Lieutenant May 31, 1991
Captain May 31, 1993
Major July 1, 1999
Lieutenant Colonel March 1, 2002
Colonel March 1, 2006
Brigadier General July 8, 2013
Major General May 2, 2017
Lieutenant General October 21, 2020



**GENERAL JAMES V. HARTINGER AWARD
2023 RECIPIENT**

GEN JAMES H. DICKINSON
Commander of U.S. Space Command, General

U.S. Army General James H. Dickinson is the Commander, U.S. Space Command, the 11th and newest unified combatant command. He assumed command on Aug. 20, 2020, after serving as the first Deputy Commander of U.S. Space Command.

General Dickinson is a native of Estes Park, Colorado and a 1985 graduate of Colorado State University where he earned a Bachelor of Science in Mechanical Engineering. He holds a Master of Science in Operations Research and Systems Analysis from the Colorado School of Mines and later earned a Master's degree in Strategic Studies from the United States Army War College.

As the Commander of U.S. Space Command, General Dickinson is responsible for defending U.S. and Allied interests in the space domain while providing space-enabled combat effects to joint warfighters around the world. He exercises combatant command authority over 18,000 Soldiers, Marines, Sailors, Airmen, and Guardians operating ground and space-based systems around the world that provide satellite communication, space domain awareness, offensive and defensive space control effects, and position, navigation, and timing services.

General Dickinson has commanded at every level in the United States Army from Platoon to Combatant Command and is the Senior Air and Missile Defense Officer in the Department of Defense.

January 2022