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# 32D ARTILLERY BRIGADE PRESENTS



## NATO MOBILITY DEMONSTRATION

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The North Atlantic  
Treaty Organization

A Band of Nations:

**PARTNERS OF PEACE**



*Brigadier General Richard T. Cassidy  
Commander General 32d Artillery Brigade*

## WELCOME

We welcome your visit to the 32d Artillery Brigade, and are happy to demonstrate for you the U.S. Army's NIKE and HAWK Air Defense missile systems, which are a part of the United States Contribution to NATO Air Defense.

The instincts of self-preservation and the continued technical advancement of weapons systems have given us a highly efficient combination of air defense weapons. These weapons form one of the most important deterrents to aggression during this cold war.

We anticipate that upon your departure this week, we of the NATO Armed Forces will have a much clearer understand-

ing of some of the weapons which contribute to our common objective of preserving the security of the free world.

During your stay you will receive briefings on and observe demonstrations of the NIKE Hercules and HAWK Missile systems which are the primary armament of this brigade. The Army units participating in these briefings and demonstrations are the 1st Missile Battalion, 67th Artillery, Nike-Hercules, and the 6th Missile Battalion, 59th Artillery, HAWK. They are attached to the 94th Artillery Group and the 10th Artillery Group respectively.

In order to provide a free exchange of ideas please feel free to ask any questions which you may desire.

## The Brigade Story

The 32d Artillery Brigade history had its beginning during World War 1, when the Brigade was constituted and organized as Headquarters and Headquarters Battery, 32d Artillery Brigade, Coast Artillery Corps, American Expeditionary Forces, in January 1918, at Key West Barracks, Florida. During the war, the Brigade earned battle honors while participating in action at St. Mihiel and Meuse Argonne. After World War I ended, the Brigade returned to the United States, where it was inactivated on January 18, 1919.

Though on the inactive list, the Brigade was added to the roster of Regular Army units after being reconstituted as Headquarters and Headquarters Battery, 32d Coast Artillery Brigade.

### WORLD WAR II ACTION

On November 20, 1942, the Brigade was activated at Fort Bliss, Texas, and a few months thereafter, on May 28, 1943, was redesignated as the 32d Anti-Aircraft Artillery Brigade.

During World War II, the Brigade participated in actions in the South Pacific. Battle honors were won for outstanding ser-

vice at Milne Bay, New Guinea, and for participation in the Leyte, Philippine Islands operations. During the period October 17, 1944, through July 1945, the Brigade was awarded the Philippine Presidential Unit Streamer, resulting from outstanding action at Leyte.

The Brigade was once more inactivated after World War II; this time at Luzon in the Philippine Islands, on May 30, 1947.

Four years elapsed before the 32d Artillery Brigade was activated again, at Mildenhall, Suffolk, England. On October 1, 1953, the Brigade moved from Mildenhall to Bushey, Herts, England. While in England, it not only provided for the air defense of Air Force bases, but also functioned as the senior Army headquarters in the United Kingdom. During June of 1957 the Brigade redeployed from England to Kaiserslautern, Germany.

#### MODERN ORGANIZATION

Today, three air defense artillery groups are organic to the Brigade, each with a number of battalions ranging from three to six. The 94th Artillery Group, in Kaiserslautern, protects central European airways with the powerful Nike System. The 10th and 69th Artillery Groups in Darmstadt and Wuerzburg, provide for the defense against low-altitude supersonic jets with the versatile HAWK surface-to-air missile system. Brigade battalions are strategically placed throughout central Germany, insuring maximum protection from air attacks. Complementing the organization of the Brigade are assorted ordnance detachments, radio relay sites, and other signal stations. The vital Communications link is provided by the Seventh U.S. Army Signal Support Unit.

## A Deterrent to Aggression

### THE MISSIONS:

The men and missiles of the 32d Artillery Brigade provide a powerful deterrent to aerial aggression against both military and industrial complexes located in central Europe. An ever-vigilant curtain of air defense is provided for by powerful missile units that are located throughout the Federal Republic of West Germany. Brigade units are manned by highly skilled, carefully selected Army personnel. These men keep the intricate mechanisms of their modern weapons tuned to the peak of operational efficiency, insuring that they are capable of detecting and destroying hostile targets at a moment's notice.

A secondary mission consists of continuing the emphasis on mutual cooperation and understanding between personnel of the Brigade and their German hosts in various localities. In many instances, 32d Brigade unit members are the only U.S. soldiers in a particular area. Because of this, all Brigade units continuously strive for improvement with regard to German-American relations.

### THE WEAPONS:

During the initial years of the past decade, the Brigade was equipped with 90 millimeter and 75 millimeter antiaircraft guns. Shortly after it redeployed from England to Germany, however, the Brigade began the conversion to NIKE-AJAX surface-to-air missiles. This conversion was accomplished by shipping "packages" of personnel and equipment from the United States and establishing them initially at temporary installations. These "package" units had been trained at Fort Bliss, Texas, and had actually test fired the equipment that they brought with them.

The year 1959 saw the arrival of the NIKE-HERCULES system, which is a more powerful, longer reaching missile, capable of carrying a nuclear warhead. The HERCULES did not replace the

AJAX but rather complemented it, adding greater depth to existing defenses.

In the following years, plans were completed and carried out to incorporate the HAWK missile, adding to the huge arsenal of air defense weapons now under the Brigade's operational control. HAWK, short for "Homing All the Way Killer" is the U.S. Army's newest surface-to-air missile, designated to detect and destroy supersonic aircraft flying at altitudes as low as tree-top level.

To gain split-second control over this vast operation, the Brigade has incorporated into its defense system several unique electronic control devices. Initial long range hostile target early warning information originates at the Sector Operations Center, a joint Army-Air Force control center. This center is responsible for selecting and designating which target or targets will be engaged by Brigade units.

The Missile Control Center receives this information and then designates the selected target to a specific firing battery, which has its missile prepared for firing the instant the target is tracked by its own radars.

## Battle Stations

The crisp pre-dawn hours are pierced by the wail of an air defense siren. Alert crews run a familiar path to the radar control vans, or the battalion operations central, the heart of a missile unit. One man checks the proper flow into the maze of electronic equipment.

Within seconds, another man energizes a multitude of switches which cause power to flow to all stations, through countless miles of wire and cable. Electron tubes glow red with heat, relays click, the computer settles out to predetermined points, antennae slew to new positions and indicator lights glimmer, giving important data to operators.

Checks are performed, reports are in, and within a few seconds the unit is ready to carry out its mission; the destruction of hostile aircraft approaching Seventh Army defenses.

## Itinerary

MONDAY 4 MAY 1964

1200—1420	Registration and Luncheon	Ambassador Arms
1420—1430	Bus Travel and Seats	Room 110, IG Farben Building
1430—1435	Welcoming Remarks	Brig General Cassidy
1435—1520	Operations and Logistics Briefing	Brig General Cassidy
1520—1540	Intelligence Briefing	Brigade S-2
1540—1600	Signal Briefing	Brigade Signal Off.
1600—1610	Bus Travel	Ambassador Arms
1610—1820	Free Time	Ambassador Arms
1820—1830	Bus Travel	Frankfurt Officers Club
1830—1930	Cocktail Party	Frankfurt Officers Club
1930—2130	Dinner	Frankfurt Officers Club
2130—2140	Bus Travel	Ambassador Arms

TUESDAY 5 MAY 1964

0745—0830	Bus Travel	A-1-67 Darmstadt
0830—1145	Nike Briefing and Tour of Nike Battery	A-1-67 Darmstadt
1145—1200	Bus Travel	Darmstadt Officers Club
1200—1300	Lunch	Darmstadt Officers Club
1300—1315	Bus Travel	A-1-67 Darmstadt
1315—1600	Observe March Order of Nike Battery	A-1-67 Darmstadt
1600—1645	Bus Travel	Ambassador Arms
1645	Free Time	Ambassador Arms



WEDNESDAY 6 MAY 1964

0845—0930	Bus Travel	A-1-67 Darmstadt
0930—1145	Integrated Fire Control Platoon Occupation of Position	A-1-67 Darmstadt
1145—1200	Bus Travel	Darmstadt Officers Club
1200—1300	Lunch	Darmstadt Officers Club
1300—1315	Bus Travel	A-1-67 Darmstadt
1315—1530	Launcher Platoon Occupa- tion of Position	A-1-67 Darmstadt
1530—1615	Bus Travel	Ambassador Arms
1615	Free Time	

THURSDAY 7 MAY 1964

0800—0900	Bus Travel	B-6-59 Babenhausen
0900—1230	Orientation and HAWK Battery Occupation of Position	B-6-59 Babenhausen
1230—1330	Lunch	Babenhausen Officers Club
1330—1530	March Order of HAWK Battery	B-6-59 Babenhausen
1530—1630	Bus Travel	Ambassador Arms
1630—	Free Time	

FRIDAY 8 MAY 1964

0900—1000	Nike Summary	Room 110, IG Farben Building
1000—1100	HAWK Summary	Room 110, IG Farben Building
1100—1110	Closing Remarks	Brigadier General Cassidy
1110—	Departure.	



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*THE PROUD BRIGADE FLAG*