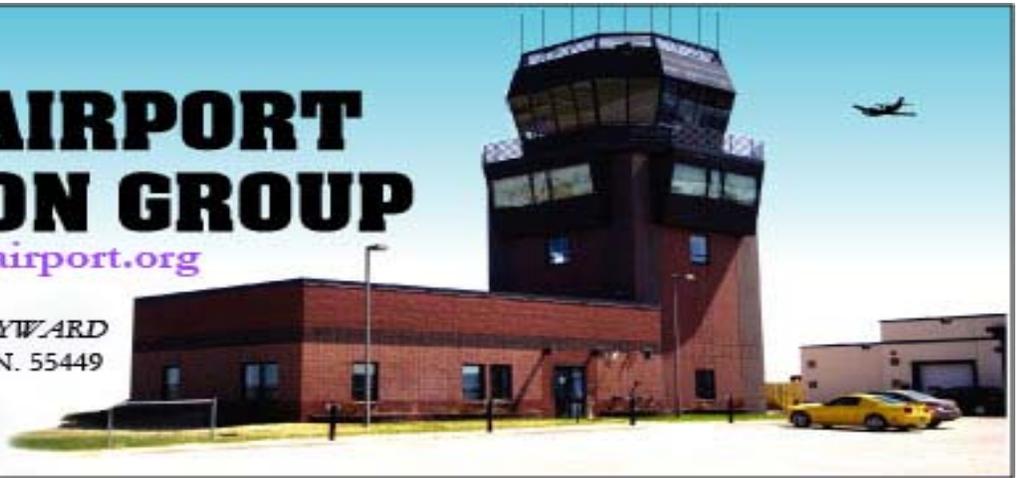


BLAINE AIRPORT PROMOTION GROUP



www.aneairport.org

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8891 Airport Road C-2, Blaine MN. 55449

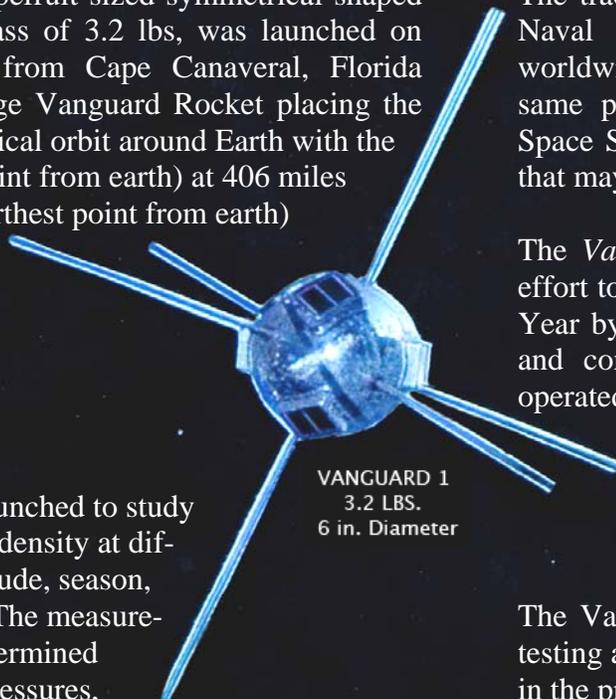


EDUCATION COORDINATOR - MARCH 8, 2012

Prior to the launch of *Friendship 7*, piloted by John Glenn, in February 1962, there were four artificial Earth satellite launches. The fourth launch was *Vanguard 1* I.D. 1958-Beta2. *Vanguard 1* would carry a 10 mW, mercury battery powered transmitter on the 108MHz band and a first ever for satellite use; six solar cells to power a 5mW, 108.03 MHz transmitter used as part of a radio phase-comparison angle tracking system. This tracking system would occasionally describe the shape of Earth as pear-shaped with a stem at the North Pole.

Vanguard 1; a grapefruit sized symmetrical shaped satellite with a mass of 3.2 lbs, was launched on March 17, 1958 from Cape Canaveral, Florida aboard a three stage Vanguard Rocket placing the satellite in an elliptical orbit around Earth with the *Perigee* (closest point from earth) at 406 miles and the *Apogee* (farthest point from earth) 2,466 miles.

Vanguard 1 was launched to study upper atmospheric density at different altitude, latitude, season, and solar activity. The measurements gathered determined that atmospheric pressures, drag, and orbital decay, were higher than expected, because Earth's atmosphere tapers off into space.



The satellite's orbit was calculated to last up to 2000 years but solar radiation and atmospheric drag during high levels of solar activity during the *Perigee* height of the satellite required re-calculating the duration of orbit to 240 years.

The mercury battery powered transmitter provided internal temperature for about sixteen days and sent tracking signals for twenty days. The solar powered transmitter provided signals for 7 years.

The tracking of the satellite was conducted by the Naval Research Laboratory (NRL) through a worldwide tracking system called Mintrack. The same principles were used in development of a Space Surveillance System to track silent satellites that may pass over the U.S.

The *Vanguard 1* was a launch planned as a joint effort to participate in the International Geophysical Year by the United States. Beginning in July 1957 and concluded December 1958, the U.S. Army operated tracking stations, U.S. Air force provided the launch site, and the Naval Research Laboratory was responsible for placing the satellite with scientific experiment into orbit around the Earth.

The Vanguard project was based on experience in testing and study of German V-2 and Viking rockets in the probing of Earth's upper atmosphere.

Follow the track: www.n2yo.com/?s=5



City of Spring Lake Park

THE BLAINE AIRPORT PROMOTION GROUP has made application for a booth to be located at the Spring Lake Park Tower Days Community Craft and Business Fair to be held on Sunday, June 10, 2012, 10 a.m. – 5 p.m.

The Tower Days Committee plans this community event for June 7th – 10th and provides most of the events free with the purchase of a \$3.00 Tower Days Participation Button, with estimated sales of 7,000 buttons sold. For more information visit their website at:

www.TowerDays.com

Our promotion group will have a 10x10 tent and will display information about the history and features of the airport as well as provide hand-out materials that will promote various businesses and clubs that are operational at the airport.

We are also working with the SLP, Parks and Recreation Department to promote workshops for students and adult tours as a part of their summer Community Education Programs. **For more information.** CEP at Phone: 763-792-7201



THE WALL—“AMERICAN VETERANS TRAVELING TRIBUTE” AN 80% REPLICA OF THE VIETNAM MEMORIAL WALL LOCATED IN WASHINGTON DC.

We will be here for the opening of this event at 12:00 noon on Friday June 1st and will have the event open to the public 24 hours a day through Sunday June 3rd located on the south end of the airport. For more information: www.AVTT.org
And: www.DiscoverAviationDays.org



The Girl Scout Troop 13522 from the Anoka area visited the airport and spent time at Twin City Aviation on February 27th in work shops that gained them achievement for their Aerospace Badge. The Girl Scouts were required to complete at least 6 requirements that included airplane and flight knowledge and space exploration. Four staff personnel from the Civil Air Patrol Unit provided instruction for the two hour work shop.

Discover Aviation Days



June 2nd & 3rd, 2012



Photo by: Linnelldesign.com



BLAINE AIRPORT PROMOTION GROUP

FOR MORE INFORMATION, SCAN THE BAR CODE AT THE RIGHT WITH YOUR SMARTPHONE OR VISIT:

www.ANEairport.org

