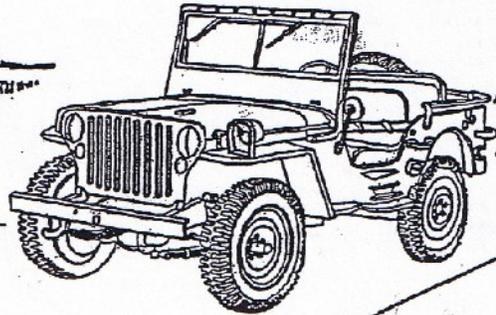


ALASKA TERRITORIAL CAVALRY (MOTORIZED)



TRUCK TRACKS



5910 DeBarr Rd.
Anchorage, AK 99504

An Affiliated Chapter of the Military Vehicle Preservation Association

Monthly Newsletter

Volume 8, Issue 4

April 2012

Minutes of the Meeting

The March meeting of The Alaska Territorial Cavalry (Motorized) was held on Wednesday, March 21st 2012, at Peggy's Restaurant on 5th Avenue. The members and guests who attended and also signed in were: Mark, Sue, and Philip Strumsky, Betty Larson, Doc Porter, John Ruthe, Fred Scharper, Jerry Peters, Ralph Centoni, Leland P. Glenn, Peter Hewko, Richard A. Napoleon, Don Kitchen, B. Tatum, Barry Ingalls, Dennis and Diane Allen, Lester G Black, Mary Black, and Jim Garrigues, David Hewko. The club president, Richard Napoleon, called the meeting to order at 7pm. He noted that we did have a quorum. The minutes of the last meeting were then accepted. New correspondence was passed around and included a thank you letter from the Fur Rondy Parade Committee. It was then noted that Lester and Mary Black were joining us that evening and they were welcomed. Richard then asked for any new bills. Betty Larson had one for \$14.97 for stamps. We then heard from the various events committees. The Alaska Veteran's Museum had mentioned having us come to the first anniversary

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Editor's Spot

It's starting to look like breakup might finally be here. The annual ritual of getting our vehicles ready for the show season has begun. Some of us will be spending the next few weeks fixing, cleaning, and preparing our historic military vehicles and equipment. Some of us will probably need to dig our projects out of the snow bank first. Fur Rondy did provide a chance for some of the members to take their vehicles out for a short drive in February. Be sure to check the schedule on the last page of the newsletter. There are a lot of events this year and some are coming up soon. The air show at JBEAR will no doubt give us the most exposure this year. Lots of people are also looking forward to the trail ride and picnic on Fort Richardson. Last year was lots of fun and a large number of vehicles participated.

Mark Strumsky
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"Did someone say trail ride?"



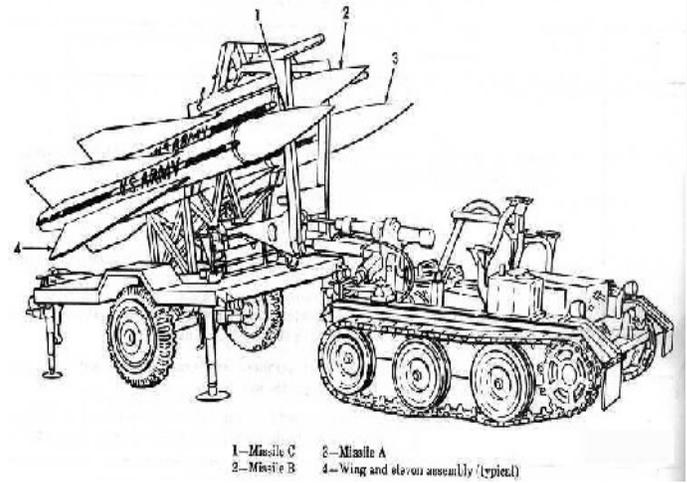
gathering in April. We had not heard anything lately, so Mark Strumsky agreed to contact them and get something about it to put in the next newsletter. Richard then asked for any old business, but there was none. He then asked for any new business, and there was none. Betty Larson then handed out the Treasurer's report. Time was given to review it. There were no questions. Betty Larson noted that we all owe a bunch of thanks to Larry Wilkinson for buying the items we needed for our food concession at this year's event, and that he did a great job. We then discussed a possible date for this year's trail ride and picnic on Fort Richardson. We decided on June 23rd, and would pass that on to John Goodman to coordinate. That date is not final by any means. The Allen's agreed to be contact people if anyone wants to participate in this year's Show and Shine on the Park Strip from 9-4 on Sunday, August 1st. You can contact them at 345-6355. The club gaming committee had nothing to report. The membership committee reported 138 life memberships and 200 total memberships. As far as the Alcan 2012 trip, there is no interest at this time in doing anything as a group. Some people are planning to drive out and take some pictures, but there's no interest in meeting up with the convoy officially. Richard Napoleon then mentioned a letter received from the July 4th Veteran's Parade Committee. They are hoping our club will consider donating \$500 this year to help pay their costs of over \$12,000 to run the parade. No decision was made and it was tabled until the next meeting. The split the pot was then held. The pot contained \$62, and \$31 was won by Betty Larson. The meeting was adjourned at 7:40. It was noted that the next meeting would be on Wednesday, April 18th, again at Peggy's Café.

The Hawk Missile XM501 E2 Loader/transporter

The ATCM recently acquired an XM501 E2 Hawk missile transporter/loader. So, with no events to report on, I thought a quick history of the system was in order. The Raytheon MIM-23 Hawk is a U.S. medium range surface-to-air missile. It was initially designed to destroy aircraft and was later adapted to destroy other missiles in flight. The missile entered service in 1960, and a program of extensive upgrades has kept it from becoming obsolete. It was superseded by the MIM-104 Patriot in United States Army service by 1994. It was



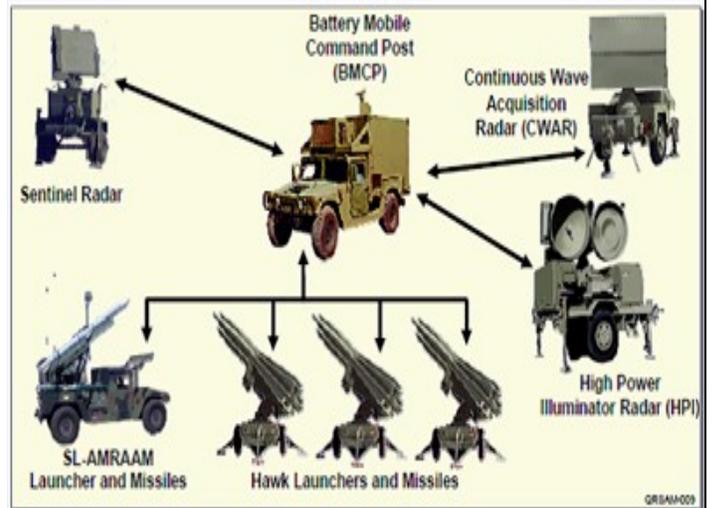
finally phased out of U.S. service in 2002, the last users, the U.S. Marine Corps, replacing it with the man-portable infrared-guided visual range FIM-92 Stinger. The missile was also produced outside of the U.S. in Western Europe, Japan and even Iran. Although the U.S. never used the Hawk in combat, it has been employed numerous times by other nations. Approximately 40,000 of the missiles were produced. Jane's reported that the original system's single shot kill probability was 56%. This was improved to 85% with the I-Hawk. The original Hawk system had problems engaging targets at low altitude - the missile had difficulty picking the target out against ground clutter. The US army began a program to address these issues in 1964 - called the Hawk Improvement Program (Hawk/HIP). This involved numerous upgrades to the Hawk systems Product Improvement Plan. In 1973 the U.S. Army started an extensive multi-phase Hawk PIP (Product Improvement Plan), mainly intended to improve and upgrade the numerous items of ground equipment. The Hawk system consists of a large number of component elements. These elements were typically fitted on wheeled trailers making the system semi-mobile. During the system's 40-year life span, components



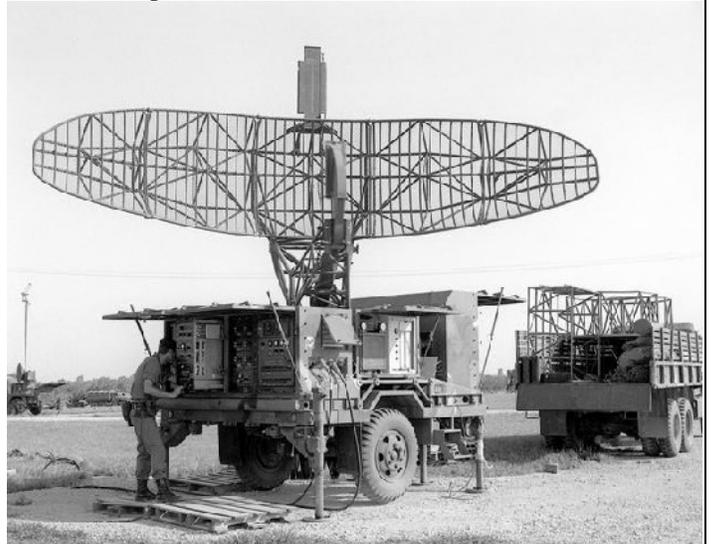
were continually upgraded. The Hawk missile is transported on and launched from the M192 towed triple-missile launcher. Eventually, a self propelled Hawk launcher, the SP-Hawk, was fielded in 1969. It simply mounted the launcher on a tracked M727 (modified M548), however the project was dropped and all activity terminated in August 1971. The missile is propelled by a dual thrust motor, with a boost phase and a sustain phase. The MIM-23A missiles were fitted with an M22E8 motor which burns for 25 to 32 seconds. The MIM-23B and later missiles are fitted with an M112 motor with a 5 second boost phase and a sustain phase of around 21 seconds. The M112 motor has greater thrust, thus increasing the engagement envelope. The Original MIM-23A missiles used a parabolic reflector, but the antenna directional focus was insufficient. When engaging low flying targets the missile would dive on them, only to lose them in the ground clutter. The MIM-23B I-Hawk missiles system uses a low side lobe, high-gain plane. This antenna reduces sensitivity to ground clutter. In addition, an inverted receiver developed in the late 1960s gave the missile enhanced ECCM ability and increased the Doppler frequency resolution. The missile had a range of up to 50 km and could reach an altitude of up to 45,000 feet. The missiles cost \$250,000 each, and the price for a complete battery was over \$30 million. The transporter/loader is not a common item to find, but a number of other military vehicle clubs seem to have acquired one. The one we now have is in good running condition, but minor modifications have been done and the loading equipment is missing.



The XM501 E2 loader/transporter was designed used for loading missiles on the launcher and transporting them in and around the battery area.



A typical Hawk missile battery includes the command unit, continuous wave acquisition radar, high power illumination radar, Sentinel tracking radar, a short range SAM vehicle, and three triple Hawk launchers.



This photo shows the early PAR radar system designed for the Hawk. Radars were constantly improved and upgraded throughout the life of the system.



This photo shows the later CWAR version of the Hawk missile radar system. It was much more compact than earlier models and a real improvement over the PAR.



This is a photo of the combined Doppler illumination and targeting missile tracking radar.



Oops. Apparently loading the missiles is not an easy task.



This is a photo of the M548 tracked launcher. It was a modified version of the M113 chassis that could transport and launch the Hawk missiles. It could carry the missiles for long distances and had a built-in launcher for quick deployment. They were only used for a short period of time and never fully adopted by the US Army.

Schedule of upcoming events:

The 3rd Wednesday of every month – The ATC (M) meeting, at Peggy’s Restaurant on 5th Ave. Dining at 6pm, and the meeting starts at 7pm.

Memorial Day Car Show & BBQ: May 28th @ Northway Mall sponsored by Anchorage Corvette Club to benefit Armed Forces YMCA. Contact Sue 333 0562

4th of July Parade: Wednesday, July 4th.

ALCAN Highway 70th Anniversary Celebration: It will be at the Alaska Veteran’s Museum on 4th Avenue. Dates and times are not known yet. Contact is Mark Strumsky: 333-0562.

Club Picnic: We’re thinking maybe June. Contact is John Goodman: 529-5446.

JBER Air Show: July 27-29th. Staging will possibly be on the 26th. The contact person will be John Goodman 529-5446.

Show and Shine on the Park Strip from 9-4 on Sunday, August 1st. Contact is Dennis and Diane Allen at 345-6355.

Alcan 2012 Convoy Arrival: The middle of August. See the MVPA website for details.

Freedom Flag Run: September 9th.

ADVERTISING

For Sale: One-ton trailer, late WW2 model. Owned by the ATC (M). Went to Normandy several years ago. Bids start at \$1000. Call Don Kitchen 696 6236

For Sale: M38A1 Military Jeep. \$10,000.00. Call Bud Peterman 683-2370.

For Sale: 1941 Dodge Command Car W/extra body, new tires, new front bumper, and top bows. Asking \$3000 or best offer. Call Ralph Centoni at 345-0869.

For Sale: 1943 Dodge WC54 ¾ ton Ambulance. Looks good and runs well. Asking \$9000.00. Call Fred Scharper at 529-1972.

ALASKA TERRITORIAL CAVALRY (MOTORIZED)

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IF YOU ARE INTERESTED IN MILITARY VEHICLES
OR IF YOU ARE SIMPLY INTERESTED
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