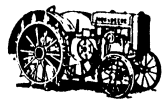


President
Wesley Thompson
320-269-8470

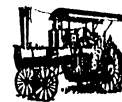
Vice-President
Orlynn Hegna
320-894-8698

Secretary
Marlys Heath
320-769-4638

Treasurer
Leslie Bergquist
320-226-7878



Minnesota Valley
Antique Farm Power & Machinery Association



5030 Twentieth Avenue Southwest
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MARCH 2014
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Directors

LuVerne Bangsund
320-843-3836

Chip Grube
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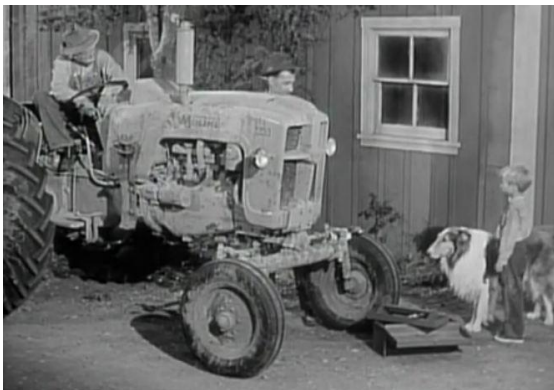
Ex-Officio
James Roe
320-269-7507

PRESIDENTIAL STATE OF THE HILL ADDRESS:

Greetings from Heritage Hill. One of the coldest winters on record he continues. I believe most of us are looking forward to the end of this extreme winter season. It will not be long and the snow will melt and the rural landscape will be turning green. If nothing else the hope for spring gives us some optimism. As noted in the February newsletter the 2014 Heritage Hill raffle is off to a great start. Selling tickets at the Great Minnesota Get Together spurred a question regarding the annual pedal tractor raffle. In past years tickets for the pedal tractor raffle have been sold exclusively at the Threshing Show. Respectively, the pedal tractor make and model raffled always paralleled the feature tractor brand. For the past three years Heritage Hill was fortunate to have been gifted a pedal tractor from various farm equipment vendors in the area bringing the cost of the raffle to near \$0. Locating these pedal tractors was easy as they were all currently being manufactured. In 2014 the situation is different as the Minneapolis-Moline pedal tractor is no longer being produced. After making a few phone calls a Minneapolis-Moline G750 was found. It was currently owned by an old acquaintance and avid toy collector Richard Clemons. The pedal tractor was still new in the box. Heritage was able to purchase the unit for \$295. Although the 2014 pedal tractor prize was not free, Heritage Hill is fortunate to find the unit and continue the tradition of a pedal tractor raffle. On Saturday February 15, Dorraine and I attended the annual Greater Midwest Toy Show in Sioux Falls. There I met up with Richard Clemons and made the purchase on behalf of Heritage Hill. The pedal tractor will need to be assembled sometime in the near future. Our annual visit to the toy show was fun as usual. I had the opportunity to visit many old friends who share the hobby and enjoyment of collecting farm toys. Dorraine enjoyed time spent in Sioux Falls shopping to her heart's content!



Heritage Hill has recently been approached by a Montevideo based group interested in establishing a trap shoot range at Heritage Hill. Currently, the only local trap range is located at the county brush dump site. The two activities at this site are no longer compatible as individuals wanting to deposit compost when the trap range is open are turned away; the trap range is unavailable when the dump is open to receive such debris. Jan Payne, Montevideo is the coach of the recently established youth trap league, a sport activity that is affiliated with the Montevideo High School. The focus of the sport includes gun safety, marksmanship, and respect for all people and community. There are 40 students enrolled in the sport, which currently is the maximum number allowed. The hope is to expand the program to all interested students. High school trap shooting is rapidly expanding with 160 Minnesota schools now participating in the sport. Ed Picht, Conservation Officer with the Minnesota Department of Natural Resources is also assisting with the high school youth trap shooting efforts. Other groups including the Tri-County Sportsman's Club, the Montevideo Police Department and the Chippewa County Sheriff's Office also have expressed interest in relocating the current trap shoot and supporting the possible trap range development at Heritage Hill. All of these ideas are currently in the exploration stage – nothing has been decided. At the February 6th Heritage Hill directors' meeting, action was taken to form a committee to further explore these possibilities. LuVerne Bangsund, James Roe and Leslie Bergquist were appointed to the committee. The committee met with Payne and Picht on February 26th to further discuss possibilities. The committee plans to present more information at the forthcoming directors' and membership meetings. On the surface the concept of a trap shoot range sounds very appealing. Non-profit organizations everywhere are all about service to the community. Any support provided to youth programs is commendable and hopefully Heritage Hill can move forward and be part of this interesting project.



agricultural use as a prop.

It is always fun and interesting to discover some new tractor trivia. Recently I read an article about a tie between Minneapolis-Moline and the television series *Lassie*. I would guess most members clearly remember the long running series which featured the most lovable and famous television dog ever. The female dog even had a real life name, Pal, and stage name, Lassie. The television series originated from a MGM movie filmed in 1941 titled *Lassie Come Home*. In 1954 the long-running television series *Lassie* debuted, and continue for 19 years. Over the life of the television series, many of Lassie's descendents were needed as replacements to fulfill the role. Being a very family friendly show, it was a favorite of every young child. Timmy was the young lad whose best friend was Lassie. Paul was Timmy's father, and the setting for the series was a farm. Featured in a few of the episodes was Paul driving a Minneapolis-Moline 445 tractor. It would be fun to know where that tractor may be today. Obviously it did not receive too much

The next membership meeting is scheduled for Monday, March 17 at the Montevideo Community Center. I hope to see you there.

Thank you, Wesley Thompson, President

MEETING NOTICES & COMING EVENTS

Heritage Hill Membership Meeting – Montevideo Community Center

(Servers: James Roe; Robert Christensen)

Heritage Hill Directors' Meeting – Heritage Hill

Montevideo Xpo – Heritage Hill

Lawn Mowing – Heritage Hill

Annual Threshing Show featuring IH Tractors & Gas Engines

Monday, March 17, 2014

Thursday, April 3, 2014

Friday/Saturday, April 25 & 26, 2014

Tuesday, May 6, 2014 – 9 am

August 15, 16 & 17, 2014

MEMBERSHIP MEETING MINUTES: February 17, 2014 – Marlys Heath, Secretary

President Thompson called the meeting to order at 7:00 pm at The Community Center, Montevideo. Quorum: 26.

Vice President Hegna led the Pledge of Allegiance.

Secretary Heath read the January 20, 2014 membership meeting minutes. M/S/P Les Bergquist/Orlynn Hegna to approve the minutes.

Treasurer Bergquist presented the January 2014 financial report. M/S/P Doug Norman/Jim Roe to approve the report.

- **Insurance:** In response to a question presented during the February Directors meeting, concerning the physical damage insurance coverage on the antique and collectable items contained in the HH buildings. President Thompson and Treasurer Bergquist researched the policy coverage. Five of the HH buildings at HH include content coverage, in the event of catastrophic damage. Individual items cannot be separately insured. A \$500.00 deductible applies to each claim. Each building is insured for different content amounts.
- **Willmar Ag Show:** Due to the past limited raffle ticket sales and the relatively high entry fees, HH will not be selling tickets at the March Willmar Ag Show.
- **Shooting Range:** A presentation was given during the February directors' meeting regarding a possible trap shooting range at HH. Jim Roe, LuVerne Bangsund and Les Bergquist were appointed to a HH committee members ascertain information from the other organizations. All information and plans are preliminary at this time.
- **Arts Meander:** Jim Roe reported that HH does not currently have an artist interested in displaying at HH in 2014.
- **Threshing Show Events:** A 2014 HH Threshing Show schedule of events is in the process of being drafted. Event times need to be presented to the directors in the near future.
- **Raffle Tickets:** 167 tickets were sold during the February 8 & 9 at the Lac qui Parle Valley High School - Great Minnesota Get Together. 2 toy tractors costing \$60.00 were given as daily door prizes; one tractor was given away each day, drawn from the tickets purchase on that day. 45 tickets were sold during the February 1 Granite Falls Ole and Lena Days.
- **By-laws:** Vice President Orlynn Hegna presented the bylaw proposed changes for a vote, which were first presented at the January 20, 2014 membership meeting. The proposed changes include:
 1. Nominating Committee: Nominating committee consist of three Heritage Hill members rather than the newly elected directors.
 2. President and Vice President Term Limits: None
 3. Ex-Officio Term Limits: NoneM/S/P Les Bergquist/Wilbert Macziewski to adopt the bylaw changes which will go into effect during the October 2014 election. A 3 members nominating committee will be needed to complete the nomination process.
- **Pedal Tractor:** President Thompson coordinated the purchased of a new and rare 750 Minneapolis Moline Pedal Tractor costing \$295, to be raffled at the 2014 HH Threshing Show, \$2.00 per raffle ticket.
- **M/S/P Orlynn Hegna/ Peter Anderson to adjourn the meeting.**



DIRECTORS' MEETING MINUTES: March 6, 2014 – Marlys Heath, Secretary

President Thompson called the meeting to order at 7:00 pm at The Rivers Restaurant, Montevideo.

Quorum: *Present* – Thompson, Hegna, Bergquist, Heath, Molde, Bangsund, Kanten, Grube, Roe. Absent – Kleene *Guests*: 4.

Secretary Heath read the minutes of the February 6, 2014 meeting M/S/P Hegna/Grube to approve the minutes.

Treasurer Bergquist gave the February 2014 financial report M/S/P Molde/Bangsund to approve the report.

- **Pedal Tractor:** President Thompson has purchased and assembled a G750 Minneapolis-Moline Pedal Tractor to be raffled at the August 2014 Threshing Show.
- **Montevideo Chamber:** Emily Sumner is the new Chamber of Commerce contact person.
- **Show Guide:** Sally Phillips has agreed to be the 2014 Show Guide coordinator and will be working with the publishers.
- **Website:** Threshing Show poster show date error, which were posted on the HH website has been corrected and concerned parties have been notified.
- **Arts Meander:** James Roe reported recent committee meeting discussions. No meander artist has expressed interest in displaying at the HH in 2014. HH will not be included in the 2014 Arts Meander publication. Bob Christenson suggested several other events which could be held at HH during that weekend to encourage public exposure. M/S/P Bangsund/Hegna to have Bob Christenson proceed with planning other weekend events.
- **Shooting Range:** The shooting range committee, including Les Bergquist, Jim Roe and LuVerne Bangsund, has met with the representatives from the other organizations involved in the planning. The plans will continue but are still in the preliminary stages.
- **Membership Dues:** Several members have not paid their 2014 dues. A discussion was held about how to remind the unpaid members to pay their dues. Les Bergquist will mail post card reminders.
- **Unused Equipment Sales:** Floyd Kanten has located potential buyers in purchasing HH tractors for sale. M/S/P Roe/Bergquist to authorize Floyd Kanten to negotiate the tractor prices and sell to the highest bidder at his own discretion.
- **Montevideo Xpo:** Bob Christenson has been contacting the Montevideo Chamber of Commerce and the Montevideo Mayor with suggestions to enhance the 2014 Montevideo Xpo. Due to chamber office personnel changes, the Xpo plans have not received adequate attention.
- **Property Insurance:** Property insurance coverage for the contents within the buildings, especially the antique and collectable items was discussed. The insurance company has increased content coverage for the Hagen House, the School House, and the HH Chapel to \$5000.00 on each building. The deductible remains at \$500.00. The extra cost will only be \$35.00 per year.
- M/S/P: Grube/Roe to adjourn the meeting.

TREASURER'S REPORT: February 2014

Financial Statement: February 1, 2014

<u>Internal Accounts</u>		<u>Investment Accounts</u>	
\$18,980.09	General Fund	\$1,457.43	Citizens Alliance Bank - Checking
\$6,017.11	Building Fund	\$43,848.16	CAB - Preferred Money Market
\$2,808.39	Chapel Fund	\$0.00	CAB - Certificate of Deposit
			TOTA
\$17,500.00	Farming Fund	\$45,305.59	L
\$45,305.59	TOTAL	\$0.00	Loan Balance - Citizens Alliance Bank

Operating Statement

\$45,305.59 Balance: February 1, 2014

Donations:

\$100.00	Marvel Moen
\$25.00	Jeff, Karla & Dustin Johnson - Donald Holtan Memorial
\$104.00	Threshers' Kitchen Usage

<u>RECEIPTS</u>		<u>DISBURSEMENTS</u>	
\$5.00	Buttons	(\$836.00)	Farming - tillage
\$5.23	Interest	(\$400.00)	Pedal Pull
\$24.00	Meeting Lunch Donation	(\$371.21)	Electricity
\$229.00	Donations	(\$355.00)	Raffle Expense
\$240.00	Dues/Membership	(\$300.00)	Tractor Pull
\$2,120.00	Raffle	(\$71.99)	Office/Postage
\$5,248.00	Crop Insurance Claim	(\$20.00)	Donald Holtan Memorial
\$7,871.23	TOTAL	(\$2,354.20)	TOTAL
\$50,822.62	Balance: February 28, 2014		

Financial Statement: February 28, 2014

<u>Internal Accounts</u>		<u>Investment Accounts</u>	
\$24,268.12	General Fund	\$6,969.41	Citizens Alliance Bank - Checking
\$6,017.11	Building Fund	\$43,853.21	CAB - Preferred Money Market
\$3,037.39	Chapel Fund	\$0.00	CAB - Certificate of Deposit
\$17,500.00	Farming Fund	\$50,822.62	TOTAL
\$50,822.62	TOTAL	\$0.00	Loan Balance - Citizens Alliance Bank

Leslie K. Bergquist, Treasurer

The Evolution of Gasoline

Gasoline, the automobile and the road system were all developed together, and each was the driving force for the improvement of the others. Gasoline was not invented; it is a natural by-product of the petroleum industry, kerosene being the principal product. Gasoline is produced by distillation, the separating of the volatile, more valuable fractions of crude petroleum. However, what was invented were the numerous processes and agents needed to improve the quality of gasoline making it a better commodity.

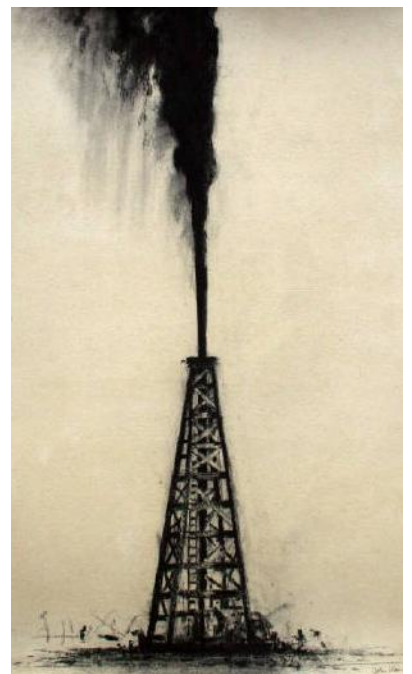
The Automobile: The demand for fuels was created when the history of the automobile was heading in the direction of becoming the number one method of transportation. In the nineteenth century, coal, gas, camphene, and kerosene made from petroleum were being used as fuels and in lamps. However, automobile engines required fuels that needed petroleum as a raw material. Refineries could not produce and meet the demand for crude oil fuels as fast automobiles were rolling off the assembly line.

Cracking: There was a need for improvement in the refining process for fuels that would prevent engine knocking and increase engine efficiency. Especially for the new high compression automobile engines that were being designed. Processes were invented to improve the gasoline quantities refined from crude oil were known as cracking. In petroleum refining, cracking is a process by which heavy hydrocarbon molecules are broken up into lighter molecules by means of heat, pressure, and sometimes catalysts. Cracking is the number one process for the commercial production of gasoline. A process which uses heat and high pressures was invented by William Meriam Burton in 1913 identified as thermal cracking.

Catalytic Cracking: Eventually, catalytic cracking replaced thermal cracking in gasoline production. Catalytic cracking is the application of catalysts that create chemical reactions, producing more gasoline. The catalytic cracking process was invented by Eugene Houdry in 1937.

Additional Processes: Other methods used to improve the quality of gasoline and increase its supply including:

- **Polymerization:** converting gaseous olefins, such as propylene and butylene, into larger molecules in the gasoline range.
- **Alkylation:** a process combining an olefin and paraffin such as isobutene.
- **Isomerization:** the conversion of straight-chain hydrocarbons to branched-chain hydrocarbons



- **Reforming:** using either heat or a catalyst to rearrange a molecular structure

Other Notable Gasoline Evolutionary Events: 19th century fuels for the automobile were coal tar distillates and the lighter fractions from the distillation of crude oil.

- **September 5, 1885:** The first gasoline pump was manufactured by Sylvanus Bowser, Fort Wayne, Indiana and delivered to Jake Gumper, also of Fort Wayne. The gasoline pump tank had marble valves and wooden plungers and had a one-barrel capacity.
- **September 6, 1892:** The first gasoline-powered tractor, manufactured by John Froelich of Iowa, was shipped to Langford, South Dakota, where it was employed in threshing for approximately 2 months. It had a vertical single-cylinder gasoline engine mounted on wooden beams and operated a J. I. Case threshing machine. Froelich formed the Waterloo Gasoline Tractor Engine Company, which was later acquired by the John Deere Plow Company.
- **June 11, 1895:** The first United States patent for a gasoline-powered automobile was issued to Charles Duryea, Springfield, Massachusetts.
- **Early 1900's:** The oil companies were producing gasoline as a simple distillate from petroleum.
- **1910's:** Laws prohibited the storage of gasoline on residential properties.
- **January 7, 1913:** William Meriam Burton received a patent for his cracking process to convert oil to gasoline.
- **January 1, 1918:** The first United States gasoline pipeline began transporting gasoline through a three inch pipe over 40 miles from Salt Creek to Casper, Wyoming.
- **1920's:** Charles Kettering modified an internal combustion engine to run on kerosene. However, kerosene fueled engine knocked and would crack the cylinder head and pistons. *Thomas* discovered that the cause of the knocking was from the kerosene droplets vaporizing on combustion. Anti-knock agents were researched by Midgley, culminating in tetra ethyl lead being added to fuel.
- **February 2, 1923:** For the first time in United States history ethyl gasoline was marketed. This took place in Dayton, Ohio.
- **1923:** Almer McDuffie McAfee developed the petroleum industry's first commercially viable catalytic cracking process, a method that could double or even triple the gasoline yielded from crude oil by then-standard distillation methods.
- **Mid-1920's:** Gasoline was 40 - 60 Octanes.
- **1930's:** The petroleum industry stopped using kerosene.
- **1937:** Eugene Houdry invented the catalytic cracking of low-grade fuel into high test gasoline.
- **1950's:** The increase of the compression ratio and higher octane fuels occurred. Lead levels increased and new refining processes called hydrocracking began.
- **1960:** Charles Plank and Edward Rosinski patented, United States Patent #3,140,249, the first zeolite catalyst commercially useful in the petroleum industry for catalytic cracking of petroleum into lighter products such as gasoline.
- **1970's:** Unleaded fuels were introduced. From 1970 until 1990 lead was phased out.
- **1990:** The Clean Air Act created major changes on gasoline, rightfully intended to eliminate pollution.



Raffle 2014

The 2014 Heritage Hill raffle is off to a great start. At the February 1 Ole and Lena Days, Granite Falls, 45 tickets were sold. The Great Minnesota Get Together was held at Lac qui Parle High School February 8 and 9, with 167 tickets sold. Daily prizes were given away at the Great Minnesota Get Together. **Congratulations are extended to Gary Eliason, Appleton, MN and Scott Croatt, Madison, MN for each winning a toy 1/16th scale tractor.** Thanks are extended to all members who attended these events and helped with the sales. The 2014 raffle prizes include Benelli Eagle 12-gauge shotgun, \$750 cash and \$250 cash. Ticket prices are \$10 and the 2014 raffle is limited to 750 tickets. Members are encouraged to participate in the ticket sales. Please contact Ron Molde, raffle coordinator, for a supply of tickets.

March Extras

"Lexophile" is a word used to describe those that love using words in rather unique ways, such as "you can tune a piano, but you can't tuna fish", or "to write with a broken pencil is pointless." A competition to see who can come up with the best one is held every year. This year's winning submission is posted at the very end: When fish are in schools, they sometimes take debate • A thief who stole a calendar got twelve months • When the smog lifts in Los Angeles U.C.L.A. • The batteries were given out free of charge • A dentist and a manicurist married - they fought tooth and nail • A will is a dead giveaway • With her marriage, she got a new name and a dress • A boiled egg is hard to beat • When you have seen one shopping center you have seen a mall • Police were called to a day care center where a three-year-old was resisting a rest • Did you hear about the fellow whose whole left side was cut off? He's all right now • A bicycle cannot stand alone; it is two tired • When a clock is hungry it goes back four seconds • The guy who fell onto an upholstery machine is now fully recovered.

