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Minnesota Valley

Antique Farm Power & Machinery Association



5030 Twentieth Avenue Southwest

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APRIL 2019

<http://www.heritagehill.us>

<https://www.facebook.com/heritagehillshow>

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PRESIDENTIAL STATE OF THE HILL ADDRESS:

With snow melting, water running, ice thinning and robins singing, perhaps it's safe to say that spring is here. Is it here to stay? What Nebraska, South Dakota, Iowa and now parts of Kansas and Missouri are going through is truly heartbreaking. The flooding those folks are enduring is certainly unprecedented in modern times. Livestock, grain and property lost is tremendous. I have seen a few pictures with lots of machinery, both modern and collector, under water. Grain bunkers at elevators as well as grain bins farms are inundated with water. Thousands of head of livestock have been lost as well. I heard an estimate that took into account loss of young and mature animals that would eventually have come to market will amount to millions of pounds of meat production that has been lost over the next 18 months or so. Our thoughts and prayers go out to the people who are suffering as a result of this latest natural disaster. Add this issue to the devastating African Swine Fever which has killed tens if not hundreds of millions of hogs in China and surrounding countries, perhaps now would be a good time to load up the freezer before prices get high.

There have been devastating losses right here in Minnesota as well. Many sheds and barns have collapsed, including a shed on the Denny and Patty Kurtzbein farm.

The next membership meeting, April 16, is scheduled to be out at Heritage Hill. While it is anticipated that the location will be good, this is subject to change if the weather turns adverse. Stay tuned.

As the weather warms, activity at The Hill will be picking up. April 16 will be a work day, starting at noon. There is an event at the site the following weekend so help is needed to make Heritage Hill look its best. Decisions regarding the reconditioning of the Barnaal Building roof and floor need to be reached. It is to the point where this project can no longer wait. If this is something you would be willing to help out with, let one of the directors know. If there are enough willing volunteers, perhaps Heritage Hill members can accomplish the needed repairs and save the organization some money. There are still positions that need to be filled. Some folks have stepped forward to help but it would be wonderful to have more than one person in some positions so they can take a break now and then to look around or help elsewhere. Thanks are extended to all who have helped in the past and encourage you to help again in the future.

In order for Heritage Hill to remain viable, new members need to be introduced and welcomed to the organization. You are encouraged to invite new folks to come join us, or invite those who have been gone for a while back. New people and new ideas are always welcomed and will always be listened to and considered.

On a personal note, I would like to thank the many members who have shown concern and care during my recovery from recent back, carpal tunnel and ulnar nerve surgeries. I am happy to report that at my latest checkup, the doctor said I could get rid of my back brace and that I do not need to come back until the one year anniversary. I was blessed with rapid healing. While I still need to be careful with lifting and twisting for another 8 months, I will at least be able to be more active than in the past. Get out and enjoy spring!

I hope to see you at the next membership meeting on April 16, 7PM at the Heritage Hill Threshers Kitchen, weather permitting.

Have a Happy and Blessed Easter, Chip Grube, President



MEETING NOTICES & COMING EVENTS

Membership Meeting <i>Servers for April</i>	Tuesday, April 16, 7:00 PM @ Heritage Hill Curt/Mary Ann Berg; Douglas/Marilynn Norman
Board Meeting	Sunday, May 5, 7:00 PM @ Heritage Hill
Heritage Hill 2019 Threshing Show	August 16 - 18, 2019
Membership Christmas Party	Saturday, December 14, 6:00 PM

MEMBERSHIP MEETING MINUTES: March 18, 2019 – Dustin Johnson, Acting Secretary

President Chip Grube called the meeting to order at 7:00 p.m. at the Montevideo Community Center.

Quorum: 27 members present.

The Pledge of Allegiance was recited.

In the absence of Secretary Rud, Dustin Johnson read the February 18, 2019 membership meeting minutes. M/S/P Orlynn Hegna/Mick Sellman to approve the minutes.

In the absence of Treasurer Bergquist, Orlynn Hegna presented the February 2019 Treasurer's Report. M/S/P Jim Roe/Doug Norman to approve the report.

- **Deceased Member:** Richard Oleson passed away March 3. His funeral was held on March 7.
- **Heritage Hill Positions:** Volunteers are needed for the Tractor Pull Coordinator, Tractor Registration, Nominating Committee, and assembling the presidents' and queens' picture boards in the Threshers' Kitchen.
- **Raffle:** Gerald Kleene has volunteered to print the 2019 raffle tickets. Jeff Johnson will serve as raffle coordinator.
- **Queen Candidates:** Candidates are needed for the 2019 Threshing Queen.
- **2020 Feature Tractor:** A 1960's tractor will need to be selected to represent next year's feature.
- **Barnaal Building:** Mick will get a quote for re-shingling only the south side of the Barnaal building and a quote for re-shingling the entire roof. Mick reported that no buildings at Heritage Hill lost any shingles this winter.
- **Christmas Party 2019:** A Heritage Hill membership Christmas Party has been scheduled for Saturday December 14 at the Montevideo Community Center. Doug Ohman has been scheduled to provide entertainment.
- **Transportation to Norman Museum:** Ideas are needed for a method to transport people between Heritage Hill and Doug Norman's museum during the 2019 Threshing Show.
- **Spring Cleanup Day:** Heritage Hill is scheduled to be used on April 28. M/S/P Mick Sellman/Jim Roe to schedule spring cleanup day for Tuesday April 16 beginning at noon (pending cooperative weather). This is the day of the April membership meeting.
- **Farming Committee:** It was reported that wheat seed has been ordered.
- **Kitchen Committee:** Dorraine Thompson has resigned from her position on the kitchen committee. She was thanked for her hard work over many years with a round of applause.
- **Picture Presentation:** Richard Emch presented copies of an historical photograph to President Chip Grube and Vice President Orlynn Hegna. The photo shows both Grube and Hegna standing by a tractor at a Threshing Show years ago.
- **Adjournment:** M/S/P Richard Emch/Kyle Ashling to adjourn.

DIRECTOR MEETING MINUTES: April 7, 2019 – Galen Rud, Secretary

President Grube called the meeting to order at 7:00 p.m. at Heritage Hill.

Quorum: Present – Ashling, Bergquist, Coon, Finn, Grube, Hegna, Johnson, Kleene, Rud, Thissen. Absent – None.

The Pledge of Allegiance was recited.

Secretary Rud presented the March 3, 2019 Directors' Meeting minutes. M/S/P Bergquist/Kleene to approve the minutes.

Treasurer Bergquist presented the March 2019 Treasurer's Report. M/S/P Johnson/Thissen to approve the report.

- **Eagle Scout Request:** Parker Thissen, Montevideo Boy Scouts, in pursuit of his Eagle Scout Award, presented a request to construct a portable shelter to be used at the admissions gate during the Threshing Show, and subsequently could be used at other Heritage Hill locations. M/S/P to authorize Parker Thissen to ascertain plans and specs, and related cost estimates, and report back for consideration by the board of directors.
- **Kitchen Committee:** Heritage Hill Kitchen committee members, Carla Johnson, Anne Borstad and Tim Borstad were present to discuss kitchen issues. The following issues were discussed: 1) authorization to purchase food products; 2) cleaning responsibilities; 3) kitchen equipment; 4) menu and retail pricing; 5) Thursday food service.
- **Water Testing:** Eugene Zeller agreed to collect and remit the annual Heritage Hill well water test.

- **Tractor Registration:** Jackie Coon has agreed to register tractors during the Threshing Show. A second person will be needed to assist.
- **Threshing Show Features:** The roll-over simulator and jaws-of-life will return for the 2019 Threshing Show.
- **Raffle Tickets:** Gerald Kleene has agreed to print 2019 raffle tickets.
- **Facility Usage:** Scott Thissen agreed to inspect Heritage Hill facilities after each usage.
- **Work Day:** James Roe advised that a work day has been scheduled at HH April 16, noon to 6 pm.
- **Next Board Meeting:** May 5, 7:00 pm, Heritage Hill.
- **Adjournment:** M/S/P Bergquist/Hegna to adjourn.

Andy Coulter and Michelle Achman, KDMA/KMGM Radio, Montevideo, were present prior to the meeting to discuss promotional ideas, advertising and marketing for the 2019 Threshing Show.

EXTRAS: Power Takeoff History

A power take-off or power takeoff (PTO) is any of several methods for taking power from a power source, such as a running engine, and transmitting it to an application such as an attached implement or separate machines. Most commonly, it is a splined drive shaft installed on a tractor or truck allowing implements with mating fittings to be powered directly by the engine.

Semi-permanently mounted power take-offs can also be found on industrial and marine engines. These applications typically use a drive shaft and bolted joint to transmit power to a secondary implement or accessory. In the case of a marine application, such shafts may be used to power fire pumps.

In aircraft applications, such an accessory drive may be used in conjunction with a constant speed drive. Jet aircraft have four types of PTO units: internal gearbox, external gearbox, radial drive shaft, and bleed air, which are used to power engine accessories. In some cases, aircraft power take-off systems also provide for putting power into the engine during engine start.

Various power transmission methods were available before power takeoffs became common, but there were applications left wanting for some of the attributes that PTOs would provide. Flat belts generally lent themselves only to applications where the engine was stationary, such as factory steam engines, portable stationary engines, or traction engines parked in front of the work. For moving vehicles such as a traction engine or early tractor towing a farm implement, the implement could receive rotary power by taking it from one of its own wheels (whose turning was imparted by the towing) and distributing it via roller chains (to a sickle bar's crank, for example), but such a transmission ceases if the vehicle stops traveling; and the workload's resistance tends to make the wheel skid rather than turn, even if cleated. The concept of a shaft drive with easily connected and disconnected couplings, and flexibility for driving at changing angles (such as when an articulated tractor-and-trailer combination turns), was a goal to pursue.



Experimental power take-offs were tried as early as 1878, and various homemade versions arose over the subsequent decades. International Harvester Company (IHC) was first to market with a PTO on a production tractor, with its model 8-16, introduced in 1918. Edward A. Johnston, an IHC engineer, had been impressed by a homemade PTO that he saw in France about a decade before, improvised by a French farmer and mechanic surnamed Gougis. He and his IHC colleagues incorporated the idea into the 8-16, and designed a family of implements to take advantage of the feature. IHC was not alone in the market for long, as within a year PTOs were appearing on other production tractors, such as some Case models. In 1920, IHC offered the PTO option on their 15-30 tractor, and it was the first PTO-equipped tractor to be submitted for a Nebraska tractor test. The PTO was a competitive advantage for IHC in the 1920's, and other companies eventually caught up with PTO implementation.

Inside the transmission, the exact point along the gear train where the power is taken off determines whether the PTO can be run independently of vehicle travel (ground speed). Early PTOs were often taken off the main output shaft, meaning that the vehicle had to be "in gear" in order to run the PTO. Later this was improved by so-called live PTO (LPTO) designs, which allow control of the PTO rotation independently of the tractor motion. This is an advantage when the load driven by the PTO requires the tractor motion to slow or stop running to allow the PTO driven equipment to catch up. It also allows operations where the tractor remains parked, such as silo-filling or unloading a manure spreader to a pile or lagoon rather than across a field. In 1945, Cockshutt Farm Equipment Ltd of Brantford, Ontario, Canada, introduced the Cockshutt Model 30 tractor with LPTO. Most PTOs built today are live. In modern tractors, LPTO is often controlled by push-button or selector switch. This increases safety of operators who need to get close to the PTO shaft.

TREASURER'S REPORT: March 2019

Financial Statement: March 1, 2019

Internal Accounts

\$14,494.45	General Fund
\$411.90	Building Fund
\$4,043.00	Chapel Fund
\$12,452.84	Farming Fund
\$10,000.00	Insurance Fund
\$41,402.19	TOTAL

Depository Accounts

\$2,215.10	Citizens Alliance Bank - Checking
\$39,187.09	CAB - Preferred Money Market
\$0.00	CAB - Certificate of Deposit
\$41,402.19	TOTAL
\$0.00	Loan Balance - Citizens Alliance Bank

Operating Statement

\$41,402.19 **Balance: March 1, 2019**

RECEIPTS

\$55.00	Dues/Memberships
\$16.92	Interest
\$28.00	Meeting Lunch Donation
\$99.92	TOTAL

DISBURSEMENTS

(\$126.20)	Advertising
(\$320.06)	Electricity
(\$600.00)	Pedal Pull
(\$1,046.26)	TOTAL

\$40,455.85 **Balance: March 31, 2019**

Financial Statement: March 31, 2019

Internal Accounts

\$13,548.11	General Fund
\$411.90	Building Fund
\$4,043.00	Chapel Fund
\$12,452.84	Farming Fund
\$10,000.00	Insurance Fund
\$40,455.85	TOTAL

Depository Accounts

\$1,252.12	Citizens Alliance Bank - Checking
\$39,203.73	CAB - Preferred Money Market
\$0.00	CAB - Certificate of Deposit
\$40,455.85	TOTAL
\$0.00	Loan Balance - Citizens Alliance Bank

Leslie K. Bergquist, Treasurer

