

THE SULLIVAN TRAIL A's NEWS

"Coming together is a beginning; keeping together is progress; working together is success."

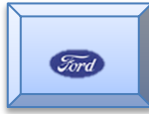
- Henry Ford



<http://www.sullivantrailas.com>
2008



1903



1927-1931
4,849,340 Produced



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Sullivan Trail A's Meetings:

- Monthly
- 2nd Tuesday September - June
- 7pm
- United Methodist Church
1034 W Broad St
Horseheads, NY

<http://sullivantrailas.com/>



<https://www.facebook.com/Sullivan-Trail-Model-A-Ford-Club-456895717849225/>



J & S Antique Auto
Odell, Illinois



In This Issue

- From The President's Garage
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- Christmas Party 2017
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- Did you know?
- MAFCA Membership

FROM THE PRESIDENT'S GARAGE

What a terrific Christmas dinner prepared by our talented and generous chef crew we had! Just as good as last year, thank you so much Bill and Barb and Larry and Bonny and Ginny and Bruce (Ginny told me B&B and L&B did all the work, but I saw Ginny and Bruce in the kitchen!).



The spaces for the Fillmore Glen Auto Show flea market have been reserved so be sure to use the winter organize your spare parts and other goodies for this opportunity to sell what you don't need and to spend the day in the shade gabbing with other Club members.

After the Fillmore Show in early September the New England Meet in Lake George will follow by only about three weeks.. think about driving your "A" to Lake George with those of us who are already planning to go. From Ithaca, NY it's about 200 miles which is easily driven in one day in a Model A. More details on this 3 day "A" weekend will be available when the Adirondack A's, the host Club, publish them on their web site.

I'll be spending time in my garage to do some necessary work on the A's this winter. I sure do appreciate having a heated garage which is something I didn't have for the first 40 or so years of Model A ownership!

Enjoy your holiday time everyone, be safe, and be well. See you next year!

All for now, Jim



REMEMBER.. MEMBERSHIP DUES FOR 2018 ARE PAYABLE NOW IF YOU HAVEN'T DONE SO ALREADY!



December 12, 2017

Meeting was called to order by President Jim Morris at about 6:45PM. A bunch of smiling and hungry people were ready to open gifts at our Christmas dinner so this was a short meeting!

- Jim gave an update regarding the Club's 10th Anniversary Celebration planned for July 14, 2018 at Jeff Barber's State Line Auto Auction in Waverly, NY; he handed out copies of a cover letter and a poster he mailed to area Model A clubs announcing the Celebration and inviting Model A hobbyists in other clubs (and non-affiliated, too) to attend.
- There was a motion by Jerry and seconded by Monty to nominate Gary Ford for the Secretary position which was open due to Beverly's 'retirement' from this highly paid job. The motion carried (fortunately). Thank you Gary for volunteering!

The meeting was adjourned moments after it opened so we could have fun with our gift exchange masterfully emceed by Bill Haag.

Respectfully submitted,

Jim Morris, President

UPCOMING EVENTS

2018 [more events will be added after January '18]

- **July 14, 2018 Sullivan Trail A's 10th Anniversary Celebration @ State Line Auto Auction, Waverly, NY**



- **September 21-23 2018 Annual New England Meet in Lake George, NY.**
[Find more information on the Adirondack A's web site: <http://www.adirondackas.org/>]

TECH TIPS

Winter Tire Pressures

If you drive your Model A in the winter, and I hope you can, remember to check the tire pressure when the mercury drops. Cold temperatures make the air pressure in the tires go down. Low tire pressure makes steering harder, and lowers your gas mileage. You may notice a little bit of a vibration, due to flat spot on the tires, when you first start driving. These should go away as the tires roll and the rubber warms up.



- Courtesy Jim Cannon, MAFCA Technical Director



- Let your Editor know if you have a classified.

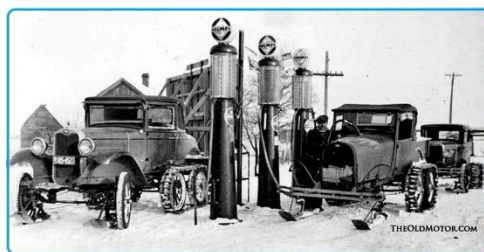
Wanted: Hood for 1929 A – either “useable” full hood or just top half. To be used on doodle bug so quality ois of no concern. Also any lead on 1929 standard coupe for sale. Prefer trunk over rumble. Older restoration or just good driver. Send details to: Harold Fishbough, Tin Lizzie Lane, Gillett, PA 16925

CHRISTMAS PARTY 2017





Winter Scenes



The Sullivan Trail A's News

Did (or do) you know ...

... this about gasoline?

History of Gasoline

The numerous processes and agents invented to improve the quality of gasoline.

Gasoline was not invented; it's 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

When the automobile was becoming the number one method of transportation there was created a need for new fuels. 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 convert crude oil into gasoline fast enough as automobiles were rolling off the assembly line.

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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. The processes that were invented to improve the yield of gasoline 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.

Thermal Cracking - William Meriam Burton

Cracking is the number one process for the commercial production of gasoline. In 1913, thermal cracking was invented by William Meriam Burton, a process that employed heat and high pressures.

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 a paraffin such as isobutane
- Isomerization: the conversion of straight-chain hydrocarbons to branched-chain hydrocarbons
- Reforming: using either heat or a catalyst to rearrange a molecular structure

Timeline of Gasoline and Fuel Improvements

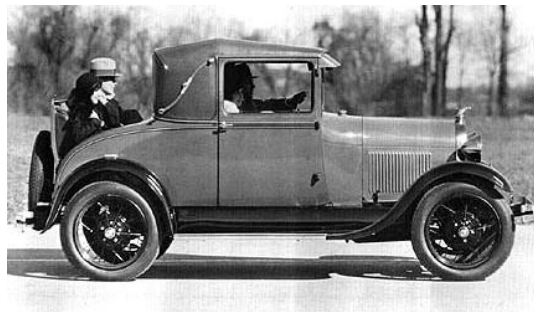
- 19th-century fuels for the automobile were coal tar distillates and the lighter fractions from the distillation of crude oil.
- On September 5, 1885, the first gasoline pump was manufactured by Sylvanus Bowser of Fort Wayne, Indiana and delivered to Jake Gumper, also of Fort Wayne. The gasoline pump tank had marble valves and wooden plungers and had a capacity of one barrel.
- On 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 drove a J. I. Case threshing machine. Froelich formed the Waterloo Gasoline Tractor Engine Company, which was later acquired by the John Deere Plow Company.
- On June 11, 1895, the first U.S. patent for a gasoline-powered automobile was issued to Charles Duryea of Springfield, Massachusetts.
- By the early 20th century, the oil companies were producing gasoline as a simple distillate from petroleum.
- During the 1910s, laws prohibited the storage of gasoline on residential properties.
- On January 7, 1913, William Meriam Burton received a patent for his cracking process to convert oil to gasoline.
- On January 1, 1918, the first U.S. gasoline pipeline began transporting gasoline through a three-inch pipe over 40 miles from Salt Creek to Casper, Wyoming.
- 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 Midgley Jr. 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.
- On February 2, 1923, for the first time in U.S. history ethyl gasoline was marketed. This took place in Dayton, Ohio.
- In 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.
- By the mid-1920s, gasoline was 40 - 60 Octane. By the 1930s, the petroleum industry stopped using kerosene.



Bowser's "Self-Measuring Gasoline Storage Pumps" became known as "filling stations." An upper clamshell closed for security when unattended.

Continued..

- Eugene Houdry invented the catalytic cracking of low-grade fuel into high test gasoline in 1937.
- During the 1950s, the increase of the compression ratio and higher octane fuels occurred. Lead levels increased and new refining processes (hydrocracking) began.
- In 1960, Charles Plank and Edward Rosinski patented (U.S. #3,140,249) the first zeolite catalyst commercially useful in the petroleum industry for catalytic cracking of petroleum into lighter products such as gasoline.
- In the 1970s, unleaded fuels were introduced.
- From 1970 until 1990 lead was phased out.
- In 1990, the Clean Air Act created major changes on gasoline, rightfully intended to eliminate pollution.



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New Membership	
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State _____ Zip _____	
Country _____ Telephone _____	
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Return this form and payment to: MAFCA 250 South Cypress Street • La Habra, CA 90631-5515	
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