



MMOCC Newsletter –

MARCH 2022

*Mid Mo Old Car Club
PO Box 1594,
Jefferson City, MO 65102*

SCHOLARSHIP FUND AUCTION!

The March 24 MMOCC meeting (at 6pm at HyVee-JC Community Room) will be the annual Scholarship Fund Auction, so bring your donated items for sale and bring your cash for purchases. All proceeds go to the Scholarship Fund.

Popular items from the 2021 Auction included baked goods and vintage items. For 2022, MMOCC Member Sam Bushman has donated automotive items (many of them Mustang related) from when he retired and closed his store. Bring your cash to buy a bargain!

MMOCC gives multiple scholarships. Applicants must be a MMOCC member or be sponsored by a MMOCC member. Applicant must be enrolled in a technical school, community college, or four year college. We would encourage those seeking a vocation in the automobile industry to apply, but would accept applicants with other career goals. Awards will be based on academic

performance. Career goals and other information to be provided on the application form.

Applications to be received by July 31 of each year and will be awarded by the end of September each year, usually at the MMOCC Old Car Roundup / Car Show.

Scholarship applications available at

<http://midmooldcar.club/scholarship>

2021 Scholarship Winners:



\$1000 scholarship to Nikolai Careaga of Jefferson City. Nikolai is studying mechanical engineering at SIU-E (Southern Illinois University Edwardsville).

\$500 scholarship to Allison Morrow of Russellville. Allison is enrolled at State Tech in Linn as a diesel mechanic.

\$500 scholarship to Daniel Brown of Jefferson City. Daniel is enrolled at Ranken Tech in St. Louis as an automotive technician.

How the Chevy Vega was shipped in 1971



SONIC SUMMER NIGHTS 2022 DATES

April 16th - Darrell Bias Memorial Cruise

May 21st

June 18th

July 16th

August 20th

September 17th - End of Year Bash



TOP QUALITY USED CARS

49 DeSoto Club Coupe
Radio - Heater
Automatic Shift
One Owner
\$1475

49 Pontiac Fordor
Hydramatic
Radio - Heater
One Owner
\$1595

49 Nash 600 Fordor
Radio - Heater
One Owner
Like New
\$1195

51 DeSoto Fordor
Radio - Heater
Automatic Shift
One Owner
New Car Warranty
\$2295

47 Ford 1/2-Ton Pickup
Perfect Shape
A Real Bargain
\$650

ALL GUARANTEED
GET OUR DEAL
PURSLEY MOTORS

DESOTO - PLYMOUTH
Hy 50 West Dial 6-7135

did you kno?

On October 6, 1909, Vancouver revealed its first Auto Ambulance and took it on a test drive. They ran over and almost instantly killed a wealthy man from Texas. This man became the first person the ambulance picked up.



nowyoukno.com



WD-40, Jack Boswell, and Nuclear Annihilation

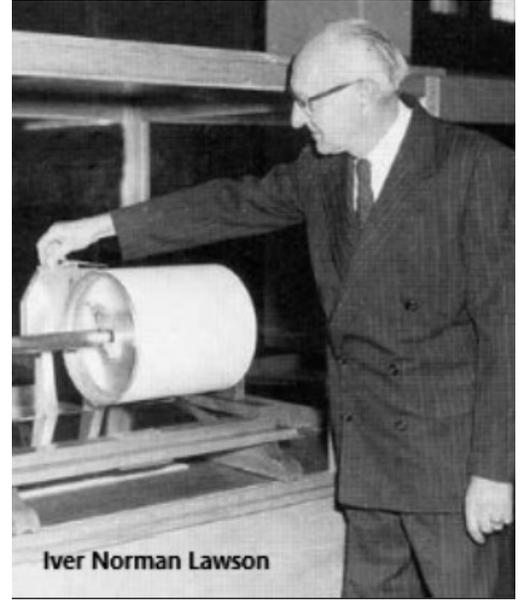
Sheep and Ships

In the early 1950's, the Australian sheep-shearing industry was in need of a chemical which would "chase" the water out of wool during shipment and could be later washed out. The humidity would mildew and ruin the wool in container ships bound for other continents. At the same time the U.S. Navy was in need of a chemical which would prevent corrosion from sea

salts affecting gears on ships.

In the Beginning

Iver "Norman" Lawson Jr. was born in Oak Park (Chicago) Illinois on 4 Oct 1891. At age six he moved with his parents to the Bankers Hill area of San Diego, California. In 1918 he earned a degree of mechanical engineering from the California Institute of Technology and then worked for the San Diego Gas & Electric Company. In 1928 he founded Airtech, a private flying service at Lindbergh Field. This was a municipal airport built by the city of San Diego. Charles Lindbergh agreed to use of his name in honor of his 1927 transatlantic flight and his aircraft "The Spirit of St. Louis" was built in San Diego. During this time period Norman also continued his studies in chemistry. In the 1950's Norman joined some colleagues, one of whom was Cyril "Cy" E. Irving and along with Norman B. Larsen, Gordon Dawson and John B. Gregory formed the Rocket Chemical Company, founded 23 Sep 1953.



Iver Norman Lawson

What's in a Name

While working at the Rocket Chemical Company, Norman was approached by a friend of the Lawson family, who was a naval commander, asking to help the Navy in developing an anti-corrosion chemical

for their ships. Norman experimented during evenings at his house in a make-shift laboratory over his garage at 1048 Myrtle Way, San Diego. The house still exists but the garage has been converted into living space.



After 39 chemical combination tries, he settled on a working version of his "water displacement 40th formula", and in 1953 WD-40 was invented.

Stand Up and be Recognized

Norman Lawson sold his idea to the Rocket Chemical Company for \$500, so they could market and distribute it. The man who often mistakenly gets credit for inventing it was the president of the company from 1957-1958, Norman B. Larsen. It was Larsen who expanded the use of WD-40 by selling it in aerosol cans.



**HOUSEWIVES LOVE
WD-40**

A fingertip spray keeps away rust on screens, tarnish on chrome fixtures. Frees rust-stuck window cranks, traverse drapery rods. . . stops squeaks, even loosens nail-tearing dress zippers.

12 OZ. SPRAY CAN
Money-back guarantee! At your hardware, paint, marine, bike or sporting goods store . . . or send

195

WD-40 prevents re-rusting, tool Dealer inquiries invited.

money order (ppd) to

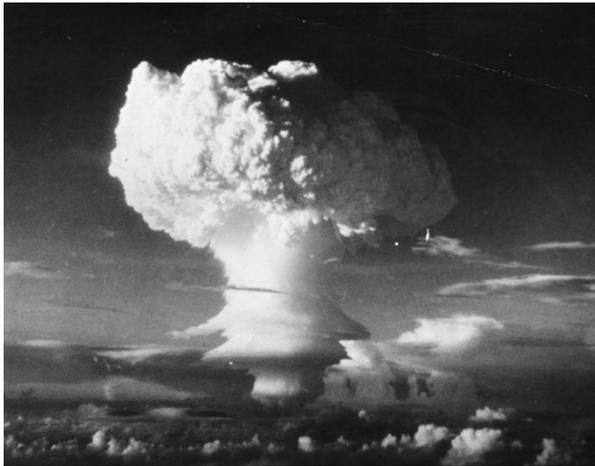
ROCKET CHEMICAL CO., INC.
P.O. Box 20027 San Diego 20, Cal.

The Rocket Age

In 1943 Consolidated Aircraft and Vultee Aircraft companies merged to create Convair, an aerospace company with headquarters in San Diego which manufactured aircraft. In 1947 Convair was acquired by the Atlas Corporation and in 1953 it was purchased by General Dynamics which established the Convair Division. In the early 1950's a missile subsidiary was established and in 1957 Convair developed the Atlas missile for the U.S. Air Force to be used as an intercontinental ballistic missile (ICBM).

The SM-65 Atlas missile was a unique design. To cut down on weight so they could reach their Russia targets, they were not painted and used a "balloon tank" design. The outer skin was made with very thin stainless steel which would collapse under its own weight without the liquid propellant inside, so when there was no fuel inside, 5 psi of nitrogen gas kept the missile frame rigid.

Convair was in need of anti-corrosion protection for the missile's outer skin and found that protection with the use of WD-40. Missile maintenance staff would receive the WD-40 in bulk quantities and perform "missile corrosion control" by wiping down the entire outer surface with saturated rags. This task would take place inside the missile silos. Civilian market use expanded when Convair employees would sneak WD-40 to the outside world in their lunch boxes when they found it would keep tools rust free and would solve vehicle ignition problems by keeping water from collecting on engine parts.



The Kansas Underground

The Atlas missile sites became operational January 1959 through 1962 with 11 bases in the United States. They were deactivated in 1965. This included the 550th Strategic Missile Squadron with

12 sites at Schilling Air Force Base, Salina, Kansas.

The Atlas missile was replaced by an improved Titan I missile which was developed in 1955. It was deployed at 5 bases from 1962-1965. It had a thicker self-supporting airframe. Still both the Atlas and Titan I had to be fueled before launch, which took 10 minutes.

Titan I was replaced by Titan II with 54 silo sites constructed from 1960-1963 in Arizona, Arkansas and Kansas. It used a different type of fuel which could be stored in the missile at all times, which reduced the launch time. Nearby McConnell Air Force Base in Wichita, Kansas is where we find Mid Missouri Old Car Club member Jack Boswell deep in a hole in the ground. McConnell had 18 total sites with 9 launcher locations assigned to the 532nd Strategic Missile Squadron, of which Jack was a member of a four-man crew. The 533rd SMS was assigned the other 9 sites. The missileer crew worked (8) 24-hour duty alerts each month. As a Ballistic Missile Analyst Technician from 1971-1975, he was instructed in missile guidance computers and other electronic systems to ensure the crew could launch the missile in under 60 seconds. If the launch sequence failed, his duty was to hot-wire the missile to make it fire. The 103' tall Titan II was housed in a 26' diameter, 146' deep underground launch duct. The adjoining launch control center and living quarters were underground accessed through an adjoining tunnel or "cableway"



with blast doors. The Titan II had a range of more than 6000 statute miles and was topped with a 9 megaton warhead. This was the largest warhead ever on an ICBM and was probably found to be “overkill” because the later Minuteman missile, with sites in Missouri, had multiple 1.2 megaton warheads. This compares with the Atlas and Titan I 3.75 megaton warhead, and the 21 kiloton Nagasaki and 15 kiloton Hiroshima warheads. The Titan II sites were deactivated between 1982-1987.

The Doctor Strangelove’s Failsafe

Another duty Jack had if an actual launch had taken place and all four crew members were in the launch control center was to ensure the proper execution message was received over the military radio network, which contained the six-letter launch code. On each of the four propellant intake lines was a closed valve controlled by a sophisticated digital electronics package which compared a stored code in the unit with the launch code entered in the launch control center. If both matched, the valves would open, allowing fuel flow. Any attempt to tamper or manually open these valves would set off a small explosive charge, jamming the valves in a closed position.



In Conclusion

In 1992 Convair Missile Systems was sold by General Dynamics to Hughes Aircraft, which in 1994 sold Convair Space Systems Division to Martin Marietta which merged with Lockheed Corporation.

Inventor Norman Lawson became trustee of the San Diego Natural History Museum and served 14 terms as president of the board from 1951-1965. He passed away 15 July 1967.

WD-40 entered the commercial market in 1961. It was never patented so the formula could be kept a trade secret. Over 1 million cans are sold each week. It is advertised to have over 2000 uses.

The Rocket Chemical Company became the WD-40 Company in 1969, since their company really didn’t have much to do with rockets. WD-40 was also used in servicing the early Remington Rand Univac Computers.

MMOCC-1

A local formula (inexpensive in a mass quantity) for use on penetrating rusty bolts and parts: equal parts acetone and automatic transmission fluid, combined.

Machinist Workshop Magazine did a test on penetrating oils. They “scientifically rusted” nuts and bolts in salt water and then tested the break-out torque required to loosen the nuts. The results:

Nothing:	516 lbs.
WD-40:	238 lbs.
PB Blaster:	214 lbs.
Liquid Wrench:	127 lbs.
Kano Kroil:	106 lbs.
50/50 ATF-Acetone:	50 lbs.

*Submitted by:
Craig Haugen
MMOCC member
Lohman, Missouri*

Someday roads will tell cars where to go.



And you'll be able to drive cross-country without a road map and never get lost. Just leave the guiding to ERGS: The Electronic Route Guidance System developed cooperatively by General Motors Research Laboratories and the Corporation's Delco Radio Division.

Here's how it'll work. Let's say you're living in Chicago and want to drive to Los Angeles. Just dial the destination code for Los Angeles on a special radio receiver panel in your car and start heading west. As you approach an intersection, an antenna buried in the pavement signals your destination to roadside computer equipment. Quicker than a blink, the computer processes your destination information, signals back to your radio receiver and the proper directions light up on your receiver panel.

Since ERGS will be geared to your final destination, it won't be thrown off by side trips and stops along the way.

Traffic guidance is just one of the many areas where General Motors scientists are working to make your driving simpler and more enjoyable in days to come.

General Motors

GM
WORK BY ENGINEERS

MAY 1969 • HOT ROD 103

One of the first weigh stations in Missouri was located in Kingdom City (pictured). Photo was taken June 14, 1948. #TBT



MINUTES FROM 02/22/2022.

MMOCC held its February 2022 meeting on a rare Tuesday due to room availability, but future meetings will resume on Thursdays. Watch your newsletters. The meeting was held at the HyVee-JC Community Room.

28 Members attended.

New member, Allan Munshausen, was introduced.

Treasurer's Report shows a balance of \$12,421.04, of which, \$1,440 is the Scholarship Fund.

Birthdays, Anniversaries, and Special Events were mentioned.

Committee report from Scholarship was hard. No Car Show updates were provided.

Billy Bonnot provided two items that were auctioned off for the Scholarship Fund. The March meeting will be the annual Scholarship Auction, so bring items to be sold and cash for purchases.

MMOCC Year Books and member roster were made available.

Meeting topic: Car Museums.

Meeting adjourned at 7:15pm.

Submitted by Secretary Lyle Rosburg.

Upcoming Events that MMOCC Plans to Attend

A. March MMOCC Meeting.

- Thursday, March 24, 2022 at 6pm.
- HyVee-JC Community Room. Get your meal as early as 5pm and come on up!
- Scholarship Auction. Bring donated items and your cash! Proceeds go to the Scholarship Fund.

B. Muttz to Miracles Car Show.

- Saturday, March 26 from 10am to 4pm.
- North Jefferson City Pavilion (927 4th Street JCMO).
- \$25 for cars. 1st, 2nd, 3rd and other awards in various categories.
- Fundraiser for Muttz to Miracles Rescue and Rehabilitation.
- <https://www.facebook.com/events/322128613176346?ref=newsfeed>

C. Nichols Career Center Car Show.

- Sunday, April 25 from 12pm to 4pm.
- Jefferson City High School.

D. April MMOCC Meeting.

- Thursday, April 28, 2022 at 6pm.
- HyVee-JC Community Room. Get your meal as early as 5pm and come on up!

E. Shelby Fest.

- Thursday, April 28 to Saturday, April 30.
- Downtown Jefferson City.
- <https://shelbyfest.net/>
- https://www.lasr.net/travel/city.php?TravelTo=MO0304025&VE=Y&Event_ID=MO0304025e023

F. Capital Mall (JC) Cruise In.

- Last Saturday of each month from April to September. 4-8pm.
- April 30, May 28, June 25, July 30, August 27, September 24.

G. Sheriff's Barbeque Car Display.

- Old Car display at the annual Cole County Sheriff's Barbeque.
- Tuesday, June 7 serving from 4-7:00 pm.
- Arrive when you can. Leave when you want. Bring a chair.
- BBQ pork steak or chicken.
- Old Car parking inside the Cole County Fairgrounds.

H. Lohman Cruise In.

- Sunday, July 3 from 10:30am to 2pm in Lohman on Front Street "by the big tree".
- Bring a chair and cooler. Come and go as you please.
- Lions Club BBQ available at the Community Center from 10:30am to 2:30pm.
- Fireworks at the Church at 9pm.

I. Argyle Knights of Columbus Car Show.

- Argyle, Missouri.
- Saturday, August 6 at 11am.

J. Ozark Ham and Turkey Festival.

- Downtown California, Missouri.
- Saturday, September 17. 9-4.
- “Cars and More” Show (Cars, Tractors, etc.) and small-town Parade (optional).

K. September MMOCC Meeting.

- Thursday, September 22, 2022 at 6pm.
- HyVee-JC Community Room. Get your meal as early as 5pm and come on up!
- Car Show related.

L. MMOCC Old Car Round Up and Show.

- 53rd annual.
- Saturday, September 24.
- In conjunction with JC Oktoberfest.

M. Eugene PTO Car, Truck, and Bike Show.

- Cole R-V High School in Eugene.
- Saturday, November ?? from 9am to 2pm. Registration ends 11am.
- \$15 pre-registration. \$20 day of.

N. Bill Bicknell Engines in Rolla.

- MMOCC Member Bill Bicknell has invited us back to his shop in Rolla.
- 410 North Elm Street / Rolla.
- Date and time to be determined.

O. Tim Petty’s Drive In Theater.

- Date to be determined.
- Drive in Theater at the Petty Estate.
- Coordinated by MMOCC Member Tim Petty (573-694-2977).

P. Old School Drive In Theater.

- Spring/Summer 2022. Date to be determined.
- Newly opened Drive in Theater in Moniteau County.
- 34263 State Highway T near Hwy 87 south of Burghers.
- <https://www.facebook.com/Oldschooldrivein>

Q. NO November or December Meetings.

- Attend the Holiday Party and New Year’s Day Garage Tour, instead.

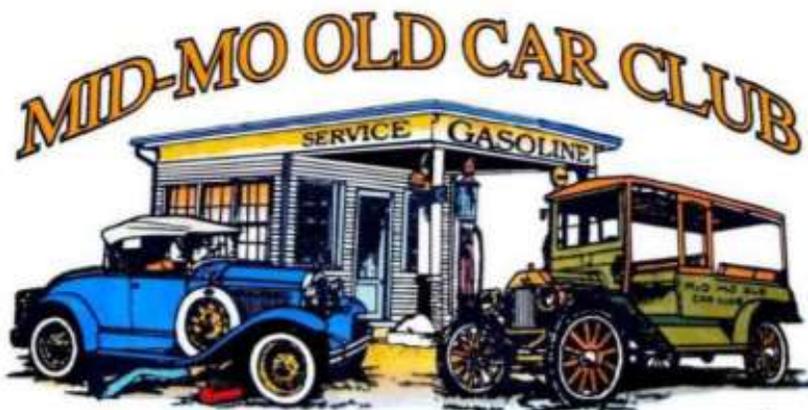
R. MMOCC Holiday Party.

- Thursday, December 15, 2022 at 6pm.
- American Legion off Tanner Bridge.

S. 2023 New Year’s Day Garage Tour.

- Sunday, January 1, 2023.
- Lunch and Garage Tours.
- Need YOUR GARAGE as a destination.
- Contact Dennis Smith at 573-680-2505.

Motortrend asks: What is a granny gear transmission? A question a child might ask, but not a childish question. Opinions vary on what constitutes a "granny tranny," but in a nutshell it's a manual transmission with an extremely deep First gear ratio that allows the vehicle to crawl along at a super-slow pace akin to that of a kindly old granny shuffling, in absolutely no rush, to Sunday services.



53rd ANNUAL OLD CAR ROUND UP AND SHOW

SATURDAY, SEPTEMBER 24, 2022

The Mid-Mo Old Car Club (MMOCC) is hosting its annual round-up and show in conjunction with the Old Munichburg Association (OMA) Oktoberfest.

Location: Intersection of Dunklin and Broadway Street, Jefferson City, MO
(enter via Broadway/Cedar Way, Broadway/Ashley, or Dunklin/Mulberry)

Cost: \$20.00 per vehicle to be paid in cash at the entry gates

Pre-Registration: see website for form and details

Onsite Registration: 8:00 am – 10:00 am day of show

Judging: 10:00 am – 2:00 pm (estimated completion)

Awards: 3:00 pm (estimated start)

For more information about the car show call Tom at (573) 533-1294.

SHOW IS FREE TO SPECTATORS!



Mid Mo

Old Car Club

<https://midmoldcar.club>

CLASS LIST:

Stock Classes

(up to 3 safety mods allowed):

- Class 1: Cars & Trucks: thru 1931
- Class 2: Cars & Trucks: 1932 – 1945
- Class 3: Cars: 1946 – 1954
- Class 4: Cars: 1955 – 1957
- Class 5: Cars: 1958 – 1964
- Class 6: Cars: 1965 – 1967
- Class 7: Cars: 1968 – 1970
- Class 8: Cars: 1971 – 1997
- Class 9: Trucks: 1946 – 1970
- Class 10: Trucks: 1971 – 1997
- Class 11: Corvettes: 1953 – 1997
- Class 12: Mustangs: 1964 ½ – 1997

Open Classes (Stock or Modified):

- Class 13: German Make: thru 1997
- Class 14: Other Foreign: thru 1997
- Class 15: Young Adult: through 1997
[owner is 25 years old or under!]

Modified Classes:

- Class 16: Cars: thru 1945
- Class 17: Cars: 1946 - 1964
- Class 18: Cars: 1965 – 1997
- Class 19: Trucks: through 1964
- Class 20: Trucks: 1965 - 1997

AWARDS:

1st, 2nd, and 3rd Place: in each class

Diamond in the Rough: roughest, but most original vehicle

Best of Show - Stock: highest overall score out of Classes 1-15 (only stock vehicles considered from Classes 13-15)

Best of Show - Modified: highest overall score out of Classes 16-20 (only modified vehicles considered from Classes 13-15)

NOTE: MMOCC Members will be allowed to bring and display their car, but they will NOT place or receive a trophy.

MMOCC and OMA are not responsible for losses, damages, or injuries while at this show.

MMOCC SHIRTS:

We have T-shirts in gray and white, collared polo-type shirts, and a humorous T-shirt addition. If your shirt looks dingy, time to upgrade! Shirts available at future meetings and events. \$20 for collared shirts. \$15 for t-shirts. \$10 for hats. **Contact JIM MARTIN at 573-864-4048.**

WHAT'S IN A NAME?

Originally launched in the 50's, Motorcraft is the official parts brand of Ford. If you buy a Motorcraft part, then you are buying a true Ford OEM part. Though there was a brief period where Motorcraft wasn't the official parts brand of Ford, they have always remained a part of Ford and still are today!



The Motorcraft logo, featuring the word "Motorcraft" in a bold, white, sans-serif font on a red rectangular background.

Perhaps the most visible part to carry the Motorcraft name isn't a part at all, but a lubricant. Motorcraft motor oil can be found nearly anywhere. Motorcraft motor oil was specially formulated to operate with Ford. In addition to oil, the Motorcraft name can be found on other common automotive fluids as well including transmission fluid, brake fluid, and more.

Fluid products aren't the only things to carry the Motorcraft name. The list of Motorcraft parts is long and covers nearly anything that you can find under the hood or in the suspension. From [shocks](#) to ball joints and starters to fuel pumps, if you need a trusted OEM Ford part, chances are it will carry the Motorcraft name.

In addition to those major parts, the Motorcraft brand is also synonymous with common replacement parts like wiper blades, [brakes](#), spark plugs, [batteries](#), and more. When you trust in a Motorcraft part, you are ensuring that your Ford will operate like it was meant to operate.

If you have an older Ford, you may have noticed a prevalence of Autolite parts, especially when it comes to your engine's electrical system. Things like spark plugs and even batteries may carry the Autolite name. This mystery has a solution.

Autolite parts may have been used in the construction of your classic Ford because, for a brief period in the 60's and early 70's, Autolite was the official parts brand of Ford. Though the Autolite brand still exists, that relationship does not, so you would be best served by replacing those Autolite parts with genuine Motorcraft parts going forward.

Ford launched this auto parts division in 1972 to provide replacement parts and original equipment parts. This brand replaced [Autolite](#) as Ford's official parts brand. Autolite has continued since and is still a brand name in use today.

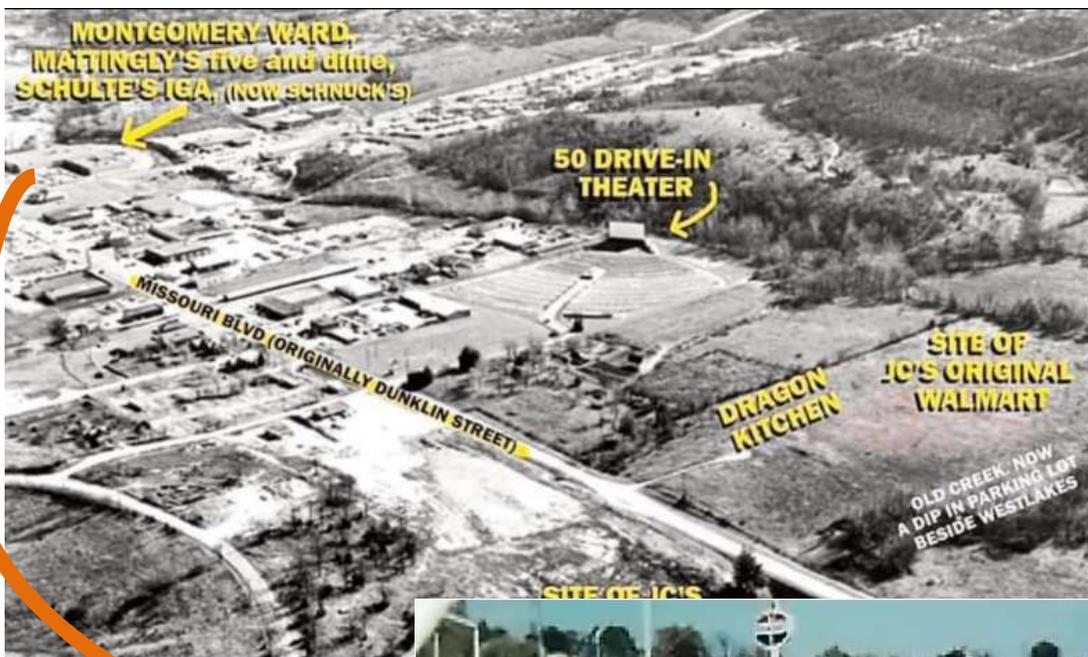
The Autolite® story began in 1911 when two small companies started producing buggy lamps, becoming a thriving automotive parts manufacturer by the 1930s. But its history as a spark plug manufacturer began in 1935 when Royce G. Martin, President of the Electric Autolite Company, equipped and staffed a lab to develop the first Autolite spark plug. Leading the project was Robert Twells, a ceramic engineer, who eagerly researched current patents and ceramic insulator technology. With a handful of new draftsman and staff members, it only took a few months before the Electric Autolite Company had a spark plug available for distribution. Autolite had instant success, as the brand supplied spark plugs and other ignition parts to well-known automotive leaders including Chrysler, Studebaker, Packard and Willys. Autolite was purchased by Ford in 1961.

Motorcraft was originally launched in the 1960s and was temporarily discontinued after Ford had purchased the Autolite trade name and utilized it as their primary auto parts brand.

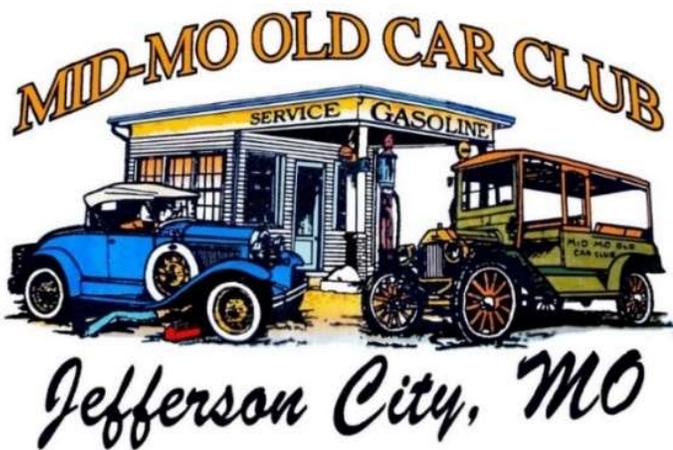
Today parts are designed and engineered to fit for installation on [Lincoln](#), [Mercury](#), and [Ford](#) vehicles. Some parts, such as Motorcraft's extensive list of oil filter applications, fit a wide variety of makes/models not built by Ford Motor Company.

Motorcraft products are sold through Ford and Lincoln-Mercury dealerships, as well as select auto parts stores.

Many times, Ford will approach a [contract manufacturer](#) of a particular product (many times a supplier to the company already) and work with them to create a version for sale under the Motorcraft name. These products must meet quality standards set by the Ford Motor Company to be considered for retail sale. Other brands such as Mazda use Motorcraft products in vehicles which both partner when producing.



The Mid Mo Old Car Club was founded May 3, 1971 by 36 old car fans that had met a month earlier at an Old Car Round-Up held at the Montgomery Ward's parking lot on Missouri Boulevard in Jefferson City.



Officers:

President Tim Petty
Vice President Dennis Smith
Secretary Lyle Rosburg
Newsletter Editor / Creator – VACANT.
Treasurer Larry Rhea
Historian Ron Bandelier
Car Show Chairs Tom and Karen Winters
Immediate Past President Lyle Rosburg

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