

Official Newsletter of the Ozaukee Corvette Club

August 2018 Issue

"Cruisin' Since 1979" www.ozaukeecorvetteclub.com Facebook.com/OzaukeeCorvetteClub mailto:ozaukeecorvetteclub@gmail.com

President: Vice Pres: Secretary: Treasurer: Newsletter Editor:

Jeff Myers Ron Giese Sue Montana Myers Sue Giese Jim Nowlen

Membership: Parades: Web Masters: Advertising: Directors: Ron Giese Thom Brown Pat Murray Mark Hobler (Hoh bler) Gregg Goetz, Mark Hobler Pat Murray

The Ozaukee Glass, official Newsletter of the Ozaukee Corvette Club, is produced monthly and provided to all members, advertisers and other car clubs. Articles printed in Ozaukee Glass are believed to be accurate and correct. The Ozaukee Club assumes no responsibility for the completeness or correctness of the articles. The Ozaukee Corvette Club meets the 2nd Wednesday of the month unless an alternate date is published.

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Upcoming Calendar of Events 2018 (See web site calendar for latest information)

August 11th - 8am Adopt a Highway. Meet at Wayne's. Please sign up. ** The last AAH was again a success with 9 of our members doing an excellent job for Ozaukee County. We are doing our share for the community. Come and join us, we do have fun doing this as a club. And it's a great way to get to know fellow members. August 18th- 8am Lunch Tour Green Lake and Horicon Marsh. B Post. Please sign up. August 21st - 5:30pm - Brew City Corvette Night #2, The Nines American Bistro, Mequon. August 25th - All Day - Vettes on the River. Info and Registration here. August 30th - 5:00pm to 8:00pm Gables Car Show for Alzheimer's Ass'n and Cancer Foundation. Please <u>sign up</u>. September 12th - 6:00pm September OCC meeting, Jeff will send location by email before. September 14-16 - Fall Corvette Adventures in the Dells. Please sign up if you're going. September 16th - 10:00am Cruise to Mineshaft in Hartford, then join with Muskego Corvette Club to Wisconsin Auto Museum. Please sign up. September 22nd - Sam Wildcat Mountain Twisty Road Tour. J Nowlen. Postponed to 2019. October 6th – 8am Door County Overnight (or perhaps not, TBD). B Post. Please sign up. October 10th - 6:00pm October OCC meeting. Flip Side, Grafton. November 3rd - 8am Adopt a Highway, Meet at Wayne's. Please sign up. November 14th 2018 - 6:00pm November OCC meeting. Flip Side, Grafton. December 12th 2018 - 6:00pm December OCC meeting. Flip Side, Grafton.

2019

January 9th 2019 - 6:00pm January OCC meeting. Flip Side, Grafton. January 12, 2019 - 5:30pm OCC Christmas Party at MJ Stevens. February 13th 2019 - 6:00pm February OCC meeting. Flip Side, Grafton. March 2nd 2019 - TBD CHILI Cookoff? March 13th 2019 - 6pm March OCC meeting, Flip Side, Grafton April 10th 2019 - 6pm April OCC meeting, Flip Side, Grafton May 8th 2019 - 6pm May OCC meeting, Flip Side, Grafton June 6th - 8th - Corvette Adventures 2019, Chula Vista Resort, Dells



The 6th National Corvette Caravan is scheduled for August 28 – 31, 2019 (eg: <u>Next year</u>). Read all about it <u>here</u>. As the next year unfolds, let's see how many in our club plan to participate and if so, we might want to coordinate with each other.



Ozaukee Corvette Club Meeting Minutes July 11, 2018

The July 11, 2018 meeting of OCC was called to order by President Jeff Myers at 6:00pm at Wayne's, 19 members were present.

Secretary's Report: Sue Montana Myers read the minutes from the June Meeting. Jim Russell made a motion to accept the minutes as read seconded by Rich W.

Treasurer Report: The Treasurer's report was given by Jeff Myers on the balances in the checking account. A motion was made by Mark Hobler, seconded by Jim Nowlen to accept the Treasurer's Report. **Newsletter:** Jim Nowlen stated he is looking for members and pictures of their cars so and get their story of how they came to love Corvettes and to publish a member a month with their story for the newsletter. **Membership:** Ron Giese stated we now have 77 Members.

Web Master: Pat Murray stated that the web site looks good, no issues.

Advertising: Mark Hobler reported nothing is new.

V-President: We are looking for people to walk the OCC banner in our parades. Also discussed was our Club's insurance and that it wasn't what we thought our coverage was. After much discussion members voted to cancel the Club liability insurance. Bruce Post and Jim Nowlen volunteered to contact other insurance companies and get some quotes for insurance for OCC. Insurance for the Officers and Directors was not to be cancelled for now.

New Business:

President Jeff Myers stated that we should save the date for the Caravan to the Corvette Museum - 25th Anniversay - August 2019. Pat Murray had 3 rooms left for that event. Contact Pat to save a room for you if you want to go and send in your registration.

Gables of Germantown Car Show: This is the apartment complex that Jay Brown lives in. The residents also sells food and have a lttle craft show. Not sure of the date.

By-Law Changes: The By-law change concerning club owned insurance will be voted on at next meeting. **Parades:** Thom Brown talked about up-coming Fish Day parade. Thom also stated that he wants to resign from being the Parade Master. Pat Murray said that he would do the Fish Day Parade and take care of the details.

Our next meeting will be Wednesday, July 11th at Wayne's. Meeting will start at 6:00pm.

A motion was made to adjourn by Jim Nowlen, seconded by Mark Hobler. Meeting was adjourned at 6:25pm.

Respectfully submitted, Sue Montana Myers

Tech Tip- Combustion (two part series) Part 2

Last month we covered engine operation, detonation, and the How and Why of the LS and LT series motors. This month we will offer suggestions to what one can do with an older Corvette.

The real trick is to get lower octane premium fuel to behave and perform well under high compression. When one realizes exactly what GM has accomplished, you can really begin to appreciate what spectacular motors the LS and LT series are.

GM is known for being very frugal, not cheap, and just very careful how they spend money on building any car. Aluminum heads are light weight and very expensive to make. Years ago GM used cast iron heads that held a great deal of heat in the motor during the combustion process. With 97 or 100 Octane fuel, pre-ignition wasn't a problem. They offered optional aluminum heads on the '67 to '69 427 Corvettes primarily as a weight saving measure. Aluminum heads were extremely expensive back in the 60's. So much so that very few people bought them. Only 16 sets were sold in 1967. In 1969, spending an additional \$832.. (\$8,320. in today's money) to save 70 pounds over the front wheels of your 427/435 HP Corvette may explain why only 390 sets were sold. However, the racers that knew their stuff, understood the real benefit to aluminum heads back then, and it wasn't to save weight. Like the current Corvette LS and LT series engines, those 1960's and '70's Corvettes could run higher compression because the aluminum heads drew out damaging heat from the engine. This in turn allowed more aggressive camshafts, and more aggressive engine timing. They knew they could pick up over 100 to 200 horsepower without violating any race sanctioning rules. Oh yes, they also saved 70 pounds over the front wheels giving them a better balanced race car. Racers being racers, they never shared their engine secrets.

The guys that ordered aluminum heads or had aftermarket aluminum heads installed did it just because they were available, and they wanted a Corvette unlike others for mere bragging rights- I know, sort of shallow. Salesmen were known to tell Corvette buyers that the aluminum heads saved 70 pounds and removed excess weight from the front end. One could get the handling of a small block 350 with the horsepower and torque of a Big Block 427and eliminate the "nose heavy" feeling of a big block. As many of you have discovered, the average Chevy salesman actually knew very little about Corvettes. They would just repeat the information in the GM sales guides. The weight distribution was about 52% front/ 48% rear. Much better than the normal 60% front/ 40% rear weight distribution of a

New Members! Welcome!

Jason Dannenberg & Nicole Wells Woodie & Doris Adkins

Member Anniversaries:

- 8/6 Steve & Doreen Lettau
- 8/11 Bruce & Sally Post
- 8/13 Gary & Karen Locklair
- 8/21 Thom & Shari Brown
- 9/13 Bob & Jan Griesmeyer
- 9/20 Erich & Diane Rehm
- 9/29 Ron & Sue Giese

Member Birthdays:

- 8/14 Gary Roeske
- 8/18 Judi Krafcheck
- 8/19 Mark Hobler
- 8/24 Jeff Perkins
- 9/2 Ken Hackendahl
- 9/10 Lois Roeske
- 9/17 Bruce Post
- 9/19 Jason Dannenberg
- 9/27 Dan Dujmic
- 9/28 Woodie Adkins

NEWSLETTER PUBLICATION SCHEDULE:

Articles for each month's newsletter need to be sent to <u>jimnowlen@gmail.com</u> by or before the cutoff date below.

Next Newsletter cutoff is Sep 12, 2018







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We want to mention that Silk Screen specialists already have our club logo and most if not all Corvette generations 'vette logo. This is a great place to get your OCC logo gear.

Bring your own shirt, or buy from them. Note that our "official" shirt color for parades is White.



Tech Tip; Continued from page 5:

iron head big block Chevy. However, the real benefit to aluminum heads remained something few racers rarely talked about.

Personally, I learned of the true benefit of using aluminum heads by mere dumb luck. Most gearheads back in the day knew there was only so much one could do modifying a Big Block Chevy before those detonation gremlins would cause engine failure. If you were able to get 500 to 550 horsepower out of your modified Chevy Big Block in the late 60's, you were at the ragged edge. Aluminum heads changed everything. We used much more exotic or radical cams, intake manifolds, carbs, exhaust headers, nitrous oxide, and ignition timing. Horsepower levels increased from 750 upwards to 1200 horsepower, and nobody really cared that the engine was 70 pounds lighter.

These tremendous gains in engine efficiency were not lost on the new generation of engineers at GM. When given the task of designing a new engine for the Corvette in 1997, a "clean sheet of paper" approach was taken.

Their goal was "complete combustion" on every cylinder firing and therefore cleaner air. You may remember in past tech tips, I talked about the priorities that these engineers had to adhere to. First and foremost is tailpipe emissions. Second was fuel use and miles per gallon (12 mpg isn't going to sell Corvettes). And a very distant third priority was performance. However, one basic rule of hot rodding is to get as much fuel into a cylinder, burn all the fuel, and exhaust all the spent gases as fast as possible. These engineers knew that if they built efficiencies into the intake and cylinder heads, burned all the fuel, and exhausted as much as possible so the next load of air-fuel came into a relatively exhaust free cylinder. Heat was extracted through the aluminum heads and the benefit was much lower Oxides of Nitrogen because everything ignites up when it is supposed to. The LS and LT motors are extremely efficient and clean. The mileage is high to help GM's Corporate Average Fuel Economy number, and by the way, the horsepower is just ridiculous. Those '67 thru '69 427's were rated at 390, 400, and 435 gross horsepower. However, the government wanted a more accurate and realistic horsepower number that reflected the power actually made when installed in the car. The car companies went to "net horsepower" ratings that indicated to consumers real power numbers. Cadillac and Ford were found to be very creative when it came to power. It seems marketing guys, not engineers determined horsepower numbers. In the mid to late '70's, the 500 cu.in. Cadillac went from 375 gross horsepower to 165 actual net horsepower! Same engine, same large car, just using accurate 'as installed' power numbers. Ford's 460's in large Lincolns had similar net horsepower numbers.



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Vehicle storage available in Germantown. Very clean, dry and secure. Reasonable seasonal rates. Plenty of outlets for battery tender at additional charge. Contact Wally Baatz at 262-751-5011 (text or call) or email at <u>wjb.acctgntaxsvc@gmail.com</u>.

<u>Windjammer for a C-5</u>. This attaches to the top of the windshield with a temporary clamp that can be easily be attached or removed. This was donated by one of our members since he now owns a C-7. As it did not sell at the Chili Cookoff, the club is selling it here. The money we receive for this will go to a charity. Windjammer retails for \$215.00, the club is asking \$100.00 <u>or best offer</u>. Please contact Ron Giese 262-628-3721.







Continued from page 9

Those of you "young" enough to remember or actually owning a SS-396 Chevelle with a base 396/325 horsepower engine actually had a 200 net horsepower engine! Those "monster" 427/435 hp Corvettes were only 305 net horsepower- and they accelerated very hard. To really appreciate the 400hp LS2, 430hp LS3 in C-6 Corvettes, or the 460hp LT in C-7 Corvettes, one must realize these are net horsepower numbers from only 362 and 374 cu.in engines. Smaller, cleaner, more economical, and quite quick when called upon to perform. This was achieved because of the 'hot-rodders' in the 60's and 70's, and all their discoveries. So what is the key to these new motors? Everything is precise, balanced, and functioning together to be one of the most efficient motors GM has built. One has to ask themselves, after experiencing zero to sixty in a C-7 with the new LT-1 in 3.8 seconds, how much faster do you really need to go? I realize that last statement makes me sound old, but 3.8 seconds to 60 mph is hard to describe...it must be experienced. As a reference point, a aircraft launch from a carrier is 2.8 seconds to 100 mph. These are close to the new ZR-1 numbers of 0 to 60 in 2.8 seconds.

Those of you with older Corvettes can do similar things to make your cars work just as well. Understandably, fuel is a major concern. From an emissions standpoint, you are

Continued on next page

grandfathered in without having to worry about meeting tougher emission regulations. However, 12 mpg at \$3.50 a gallon makes for very expensive cruising. Rebuilding your motor to mirror some of the current technology will be your one viable option. Making the older 327's and 350's similar to an LS motor architecture is possible. There are camshafts that have similar specifications to current LS and LT series cams. 10:1 or 11;1 compression ratio forged pistons with low drag- low tension piston rings are readily available. Use of Aluminum heads from Air Flow Research, Dart, or Edelbrock will improve the intake flow while extracting tremendous levels of damaging heat stopping detonation. Replacing the wasteful carburetor with electronic fuel injection will improve emissions, mileage, and performance. These newest EFI systems have artificial intelligence built into their programming, and are made to constantly adjust themselves to deliver the best mileage and performance and emissions. Utilizing electric fans with electric thermal switches and removing those old stamped steel or thermal clutch fans will keep your Corvette cool enough to never overheat in a parade. Advancements in water pumps for older Chevy engines by Edelbrock and Milodon is amazing. Larger impellers, aluminum castings with larger passages create higher volumes of water at higher pressures to travel throughout the cooling systems. Keeping the engine cooler helps with emissions and performance. Ironically, it is easier to get rid of the extracted heat from the engine compartment of an older Corvette (pre '68) than the newer Corvettes. Remember, the C7 extracts heated under hood air front large vents built into the hood and A/C as well as cooling system heat through a hood vent.

All one has to realize that the amount of throttle needed to accomplish the same work by the engine is far less. The answer to making older Corvettes work well is to mirror current technology as much as possible. Add a 5 or6 speed Tremec overdrive transmission and you are getting the same mileage as a late model Corvette and keeping the air clean. Of course, one should always keep all the old original components so that some future owner can return the Corvette in question back to its' original configuration if they want to. These modern changes to older Corvettes are very possible, and the good news is, these older cars are going up in value all the time. The parts needed to increase mileage and horsepower, do not make the Corvette idle like a radical race car. In fact, the Corvette with these changes will actually idle smoother-just listen to a C6 or C7 (other than Gary & Lois Roeske's aggressively 'cammed' Corvette) and those stock LS-3's and LT1's still produce over 400 hp! None of these engine changes can be detected by the average person. The real benefit will be a very fast Corvette, emitting less harmful exhaust that delivers 24+ MPG (as long as you can keep your foot out of it). Your older Corvette will be more enjoyable while maintaining tremendous value, because of all the benefits of technology that enables you to enjoy your classic Corvette without stopping every 150 miles to fill up.

Save the Wave, Jeff Myers

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Ozaukee Glass Editorial Page

We are trying to put together a list of people interested in the 2019 Corvette Caravan. Please <u>sign up</u> if you're interested in participating. This promises to be a fantastic drive – and an opportunity to enjoy your Corvette's best features!

Our advertisers are small to medium sized independent businesses. We have member driven advertisers; where members have suggested the advertiser rather than hope companies would reach out to us. Between us, our membership trades at all of these places. Readers, please take time each month to read through our advertisers and do business with them when it makes sense.

A note about Corvette Adventures. Four of us from our club participated this past June. What a terrific time! For 2019 four member couples reserved rooms in the A building of the Villa's. If you think you might be interested in participating next year, make your room reservation now if you want to be near other OCC members. Reminder there is also a September Corvette Adventures event.



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Note to membership: One of the benefits of this newsletter is to help us get to know each other. As we typically experience each other with our Corvette, it will help us to know each other better when we feature a member's Corvette each month. I have no other contributions in my queue. This feature will be eliminated in June with no contributions. *Please send in pictures, your story* (see Spotlight below). I'll save and feature you in an upcoming issue. Thanks!



Member's Spotlight

Pat & Ann Murray: This 2004 Pace Car is number 8 of 44 made and was used as a parade vehicle in that year's Indy 500 race. We have both original window stickers (yes there are two)! The original says North Central Region and the other one says EVS on it. The graphics were identical on all 44 cars and installed at the Indy Motor Speedway. It's great to know we have a little bit of history that we can drive and enjoy.

In May of 2018 we decided to add another Corvette to our garage, it was time to give the 2004 a break and enjoy a new ride. As everyone in the club can see it's hard for us to get away from the color blue!



About the Corvette: Year: 2004 and 2014 Model: Convertible Engine: Color: Blue... oh and another blue! Nickname: N/A Outstanding Features: both are outstanding!



Ozaukee Corvette Club 15461 Saint Augustine Rd Hartford, WI 53027



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Upcoming Calendar Events (See web site calendar for latest information)

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