

The Pittsburgh Tri-State Chapter NCRS

NEWSLETTER

NCRS Top Flight Chapter

www.ncrspitt.com

Fall 2018











Chairman's Message.....Don Geary

Well, it's Fall and we are marching through the year quickly. We have had lots of great events so far and more to come to round out the year:

- Fall Judging meet on Oct 14 at Greenwood Chevrolet in Hubbard, OH (Judges needed)
- Annual banquet on Dec 9 at Lakeview in Greensburg, PA

We are working hard on planning events for 2019 so if you have any ideas, please notify any board member.

Please see the website **NCRSPITT.COM** for more details and the registration forms. Our annual roster booklet shows all the events for 2018 to help you 'save the date'. New rosters will be sent in January for 2019.

Speaking of the board, this year is elections as part of our two-year board cycle. Board positions are volunteer positions and only three are elected at the annual banquet, Vice-Chairman, Secretary and Treasurer, but all other positions are appointed based of volunteers. Please consider helping our board for next year. Please see note from Bob Cirilli seeking candidates in this newsletter.

We received our Top Flight chapter award again this year for 2017 and we are on pace to achieve it again in 2018. The award includes requirements for events, participation, technical seminars and judging, and charity donations.

The minutes of the National board meeting and financials are published in the *Restorer* magazine, please see them if you are interested in some details about our National organization. Also our regional representative John Kane is resigning his position and elections will be held to fill his position. A big thanks goes out to John for all his help for our chapter during his term. We could call on him for any help as needed.

Thanks and hope to see you at our next events.



News from the NCRS National

Region III Representative Message:

"I want to take this opportunity to let you know that the election for Region III national board member is scheduled for this fall. It is truly unbelievable to me that my 3 year term is already ending. It seems that the last election was only a few weeks ago, but it was indeed three years ago. The years seem to fly by faster for me as I get older.

I want you all to know that I have truly enjoyed my time as Region III board member. I was able to meet many new people and make many new friends. Unfortunately I find myself unable to seek another term of office due to important family health issues. I want you all to know that it has been a district pleasure for me to work with each and every one of you over the last 3 years. I will still be around but I will just be a little less active. Thank you for all your great support over the last three years. Note that I will certainly be serving as the Region III representative until the end of this year in order to fulfill my term. Thereafter, a newly elected Regional representative will be representing you and I hope you will support that person as much as you have supported me."

John Kane

NCRS #3881

NCRS Region III Representative



From our Judging Chairman: Bill Bryan #291

As I write this the Altoona Regional hosted by the MAC chapter is days away, everyone that has any interest in judging should have already signed up and been assigned a judging spot. I am on the 67 team, if you have not signed up you can show up the day of the event and ask to be an Observer Judge, the teams always welcome OJ's.

We now have the 2000-2002 judging manual printed and available to all, which also means at any new event the 2000-2002 cars can now receive awards. Remember any NCRS member can have their car judged. PLEASE bring your cars to our events for judging you will enjoy the knowledge you will receive. If you observe the cars I bring to our events, not all are frame off restored, it is sometimes fun to take an ordinary driver car and prepare it for flight judging. Just buy the manual for the year you are working on and use it as a reference, and you can call me anytime for ANY question.

I am promoting something new at our October board meeting. We will have a short (1) point judging seminar before our regular meeting. I will go over basic judging rules, and standard deductions and maybe a question and answer session, if time allows. Please try to attend and also stay to join our board meeting. Everyone is welcome.

I am keeping busy, pulled the 427/400 motor out of my 67 to freshen up. It has 44,000 miles on it. With that low mileage it just needed cleaned up, with rings and bearings. It is back from the machine shop ready for painting and reassembly, lots to do... For those of you who are observant the picture below does not show the tri-power carbs, they have already been rebuilt and are ready to reinstall later.







2018 PTSC Annual Picnic at Indian Creek Park

Photos & Write-up by: Jim Patitucci

On Sunday August 11, 2018 our Chapter held its annual picnic at Indian Creek Park in North Huntingdon, Pa. It was a beautiful August day. It was truly a blessing after all the consecutive days of rainfall we've had this summer. Our pavilion was positioned just right for a picturesque view of the lake, as captured in the two photos above. There were 37 members/guests in attendance. There was plenty of great food and desserts on hand, so if anyone went home hungry it was their own fault. A special thank you to Paul DiSanto and Frank Gavron for coordinating the event, and thanks to Norm Neffield for cooking the "delicious" sweet corn! The Chapter would especially like to thank all those who helped with the cooking, set up, and bringing desserts or other food items to share. Without your help and contributions we wouldn't be able to hold great Chapter events like this. As is often the case at all our events it was a perfect opportunity to "catch up" with old friends and meet new friends. Because it was such a nice day, the highlight of the day was the record number of Corvettes members drove to the picnic. There were 15 Corvettes representing each generation from C2 thru C7 (see photo below). Before everyone left, Chairman Don Geary thanked everyone for attending and reminded them about our upcoming events and encouraged them to participate...This location was so well received by everyone we hope to reschedule our picnic here next year. To all the members who drove their cars to the picnic, Thank You! What a beautiful sight it was! Enjoy the following photos on this page and the next two pages. Visit our website *ncrspitt.com* for more photos from the picnic.



Norm, cooking the corn!







Don & Frank..."grillin!"



John D. offering the blessing!















Don, thanking everyone for attending & mentioning upcoming Chapter events.















NCRS National Convention Review:

By Editor Jim Patitucci

According to Mike Ingham and Dave Brigham's updates found in the Fall 2018 *Restorer*, the Las Vegas National was a success." There were 118 Corvettes registered for judging or display of some sort, including four in the Year of the "68 display."

Chapter Top Flight Awards were presented to 35 chapters by Region VIII Director Bob Johansen. One of those 35 chapters just happened to be our **PITTSBURGH TRI STATE CHAPTER**. A special thank you to member *Brian McIntyre* who was in attendance and accepted this prestigious NCRS award on behalf of our chapter. (See top photo top at right).

In Dave's *Restorer* message he stated," that because of the very high temperatures in Las Vegas in July, I decided to start the Monday OPS check at daybreak about 5:00 am." Speaking of OPS check, another PTSC member attended and participated in the C3 OPS judging and other judging activities. (He is shown here in the second photo at the right see arrow). That member happens to be **Bob Stokes**. Bob has his back to the camera, but yes, Bob this photo proves you were there! Bob did mention to me that he did have a great time, and it was very informative. He learned a lot from the judges at the National level. For more information and photos from the National Convention, please refer to the latest Fall edition 2018 Restorer.

Quotes in this review were taken from the Fall 2018 Restorer and the photos at the right were courtesy of Vinnie Peters.



Brian McIntyre accepting the PTSC 2017 Chapter Top Flight Award from Mike Ingham.



Bob Stokes discussing OPS procedures with the owner during the 2018 NCRS National. "Bob, not your best side, but glad you were there!"





Looking back at how it all started...April 22, 1990...Part II

As promised in the Summer Newsletter here are more original initial documents from our *Historian, Barry Holmes*. Documents include the First Chapter Newsletter which includes the initial letter to the Charter Pittsburgh Chapter members informing them that they were given the go-ahead to officially start the chapter dated 8-20-90. Also included are the original PTSC Officers Directory and Membership List, followed by the early Buyer's Guide and the first Chapter Picnic/Car Show announcement with map. The last document is Barry's first meeting Agenda.

Notice the first sentence on page one of the newsletter stating that it is untitled. Suggestions were requested in naming the Newsletter. Stay tuned in for our Winter Newsletter which will have *Part III of*" *Looking back at how it all started...April 22, 1990*" to find out who was responsible for naming our newsletter **R**estoration **P**erformance **M**otoring fun.

	8-20-90
	FELLOW CHARTER PITTSBURGH CHAPTER MEMBERS,
NCR'S	Well I guess we have finally done it! Our new N.C.R.S. Chapter is a reality! We were given the go-ahead at the national convention in Williamsburg, VA, through the efforts of Ed Augustine and Mike McCagh. The only thing left to do is to complete our incorporation, and we will be a probationary chapter. The probationary period is one year, and we can hold our own events during this period. If everything goes well after the probationary year we will be a full fledged N.C.R.S. Chapter.
August 1990, Vol. 1, Number 1 The official quarterly newsletter of the Pittsburgh Tri-State Chapter.	We received quite a lot of encouragement and help in our initial efforts from Ed Augustine, the eastern U.S.A. Regions and Chapters Chairman. Thanks also to Mike McCagh, who took time to attend our initial forming meeting at Boyce Park along with his wife Lea, their son Mike Jr., and Mike's brother, Dennis. Mike and Dennis both joined our new PITTSBURGH TRI-STATE CHAPTER.
	We have, as of this writing, 42 members and at least 9 or 10 membership applications in the mail to perspective new members. We need your help to encourage your Corvette friends to join our chapter, and help in making the PITSBURGH TRI-STATE CHAPTER of N.C.R.S. the success that we know it can be.
Notice that our chapter newsletter is untitled? We need your help in selecting an appropriate title. Please send your suggestions to the newsletter editor, Pote Licastro, 1000 2C Hillgate PI, Pittsburgh, 15220. The board of directors will vote on the entries at an upcoming meeting. The winner will receive an as of yet undetermined prize, possibly 1953 Corrvetter #001. (Just kidding] ed.)	Don't forget to attend the Mid-Atlantic Chapter's event at Mike McCagh's farm over Labor Day weekend. They are having a judging school at 10:00 am on Saturday September 1, 1990, especially for us, so we can become familiar with N.C.R.S. type judging. The details are in the Driveline. If you can attend, please send your money in a.s.a.p.
The success of our chapter newsletter is a key element in the success of our chapter. The success of the newsletter depends on you, the membership. NCRS requires that we produce a newsletter at least quarterki in order to maintain our status as a probationary chapter. Please help us by contributing ideas, stories, graphics, technical articles or anything that would enhance the newsletter. Let's make the Pittsburgh Tri- State Chapter one of the storoges in the country!	While we are talking about dates and events, don't forget to mark your calendar for our first annual family pionic on Sunday, September 23rd at Cedar Creek Park. (Details, directions and map on page 5) Bring your pionic basket, family and Corvette for an informal get acquainted gathering. There will be no judging or awards, just some good natured kibitzing with fellow Corvette enthusiasts. I would now like to take time to recognize and thank our officers and committee chairmen for working so enthusiastically to help make the PITTSBURGH TRI-STATE CHAPTER a reality.
DETE LICASTRO, Newsletter Chairman	Also a special thanks to Jack and Jan Greenberg, who gave us the benefit of their experience in our initial organizing and writing of the by-laws. Thanks to Laurie DuChateau for her legal advice regarding our incorporation papers.
2	I am truly amazed at the progress we have made in just three short months. We must now call on all the members to join us and help in any way they can. We need members to learn judging, share their interesting Corvette experiences in the Newsletter and volunteer to help with restoration seminars.
Tentative Newsletter Dates Deadline for Submissions November 1, 1990 October 15, 1990	MEMBERS, MAKE SUGGESTIONS. JOIN IN. REMEMBER, IT'S YOUR CLUB!
February 1, 1991 January 15, 1991	BARRY HOLMES, Chairman
May 1, 1991 April 15, 1991	Æ
August 1, 1991 July 15, 1991	inter co guerra de la constante
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The Pittsburgh Tri-State Chapter of NCRS was founded in August of 1990. Meetings are held on the second Tuesday of each month at designated and published times and locations. All members are welcome to attend the board meetings. In 2018 the board meetings will be held at the Boulevard Restaurant in Delmont, Pa. at 6:30 PM. The newsletter is published quarterly. All articles for publication must be submitted no later than 15 days prior to the end of the calendar quarter. Ads from PTSC members are free of charge. Any car related news is appreciated. Applications for membership and annual dues should be sent to Judy Geary, 117 Caldwell Dr. Jeanette, Pa. 15644, or gearyjt@comcast.net</u>. Membership dues are \$20.00 per year and payable from June 1 thru June 30. You can also pay dues via PayPal, see our website for the link *www.ncrspitt.com*.

PITTSBURGH TRI-STATE CHAPTER OFFICERS DIRECTORY

Chairman

Barry Holmes 2020 Beulah Rd. Pittsburgh, PA 15235 (412) 243-7253

Treasurer

Rich Kossum 441 Audrey Dr. Pittsburgh, PA 15236 (412) 655-4331

Membership Chairman

Geoff Gibson 2154 Hycroft Dr. Pittsburgh, PA 15241 (412) 833-6535

Events Chairman

John E. DeGregory 649 Humphrey Rd. Greenburg, PA 15601 (412) 832-3786

Historian

Jack Greenberg 150 Ammons DR. McMurray, PA 15317 (412) 941-5088

Bylaws Chairman

Jim Henderson 834 Greensburg Pike East Pittsburgh, PA 15112 (412) 824-2965 <u>Vice Chairman</u> Tony Cotti 2750 Diane St. Latrobe, PA 15650 (412) 539-0423

Secretary Maurice Wei 26 Easton Rd. Pittsburgh, PA 15238 (412) 963-1162

Newsletter Chairman Pete Licastro

Pete Licastro 1000 2C Hillgate Pl. Pittsburgh, PA 15220 (412) 343-2153

Judging Chairman Larry Fellers 560 Turkey Ridge Rd. Apollo, PA 15613 (412) 337-7068

Legal Chairman

Laurie DuChateau 707 Smoky Wood Dr. Pittsburgh, PA 15218 (412) 566-5960 MEMBERSHIP LIST

PITTSBURGH TRI-STATE CHAPTER

Ken and Marilyn Amrick Charles and Constance Barrickman Ronald and Josie Booher Robert and Jane Brandenstein James and Fran Branthoover Roger and Linda Clark Tonny Cotti John and Barbara DeGregory Larry and Anne Fellers Ken and Shirlee Frenchak Bob and Dolly Gable Geoff and Josie Gibson Jack and Jan Greenberg Jack and Nancy Hartzell Jim and Mary Havel Billy and Arlene Hefner Jim and Madie Henderson Keith Hoak John and Patricia Holmes Howard Hughes

John and Suzanne Jeffries

Ted and Judith Kokolis Rich and Mary Lou Kossum Paul and Debra Langbein Pete Licastro Bob and Cathy Lunz Dennis McCagh Mike and Lea McCagh Bill and Carole O'Bryan Gene and Ginni Piano Bill and Dorothy Pintar Tom and Doris Ranker Michael and Deborah Ann Scallion Ron and Joyce Skena Donald and Nonie Spangler Barry and Margery Smith David and Kathleen Trueman George and Charlene Wandell Maurice and Diane Wei George and Patricia Whipkey Roger and Pat Yute Frank Yurchison

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BUYER'S GUIDE

Fuel Injection Screw & Hardware Kits. 1963 to 1965 with correct colors. Over 140 picces for \$25.00 plus \$2.00 postage. These kits meet NCRS specs and sure do dress up your injection. Satisfaction guaranteed. The earlier 1987 to 1962 kits and coming soon. John DeGregory. 649 Humphrey Rd., Greensburg, PA, 15601 (412) 832-3786.

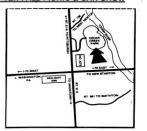
Fuel Injection Restoration Service '57-65. With correct factory specs and hardware. Meets NCR5 & Bloomington judging standards. Top flight cars have my restored units. \$450.00 labor plus parts. Guaranteed. NCRS member (#2855) since '78. John E. DeGregory, 649 Humphrey Rd., Greensburg, PA 15601, (412) 632-5786. 1974-1976 Corvette Fact Manual. The most comprehensive reference guide available for 1974-1976 Corvettes. Discusses engine/transmission identification, date codes, components, options, and much more. Written by Pete Licastro. Special membership discount price \$15.05 plus \$2.25 1st facts Publishing, 1026 Willett Dr., Johnstown, PA, 15905.

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NOTE Space in the "Buyer's Guide" is available to chapter members for Corvettes and Corvette related parts, accessories, and services.

PITTSBURGH TRI-STATE CHAPTER FALL PICNIC & CAR SHOW

NCRS Pittsburgh Tri-State Chapter First Annual Picnic and Car Show. Sunday, September 23, 1990 10:00am at the beautiful Cedar Creek Park located in the .West Newton area near the intersection of PA. Rt. 51 and I-70. (see map at right) Go to Pavilion #2 and drive your old Corvetts so we can all lock at them. No judging, just fun. We have a nice parking area near the tables. This event will be a get acquainted party so bring the whole family and a picnic basket. The club will furnish a side dish. Call John DeGregory, Events Chairman, ifyou need additional information at (412) 632-3786.



N.C.R.S MEETING AGENDA Wones, 1990 - OPENING REMARKS BARRY Holmes - PURPOSE OF LOCAL CHAPTER BUSINESS TO Be Discossed o To OLGANIZO . OFFICEAS . Dues . By- Lows · Incocrocate + 5 Now-Profit 046 Now-FROMT CALENTIAN a 0 How i deriviries . example: Fartily Prente Vore To GETABlish LOCAL CHAPTER Election of OFFICERS Collection of Dues HEMBORSITIS INUS WENDNIT IN CHAPTER COMMITTEES other Business ADJOURMENT

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'63 Grand Sport Corvette History

In the early 1960's Carroll Shelby's Cobras were dominating America's Sports Car, the Corvette in racing. The Cobra was about 1,000 lbs. lighter than the Corvette and while the power generated by Chevrolet engines was comparable to the aluminum bodied Cobra; the nimble "snake" consistently beat the fiberglass Corvette.

In late 1962 rumors began to circulate that a Corvette was being developed that would end Shelby's dominance on the racing circuits. Bowtie fans and racers were ecstatic.

Zora Arkus-Duntov, father of the Corvette, and others at Chevrolet launched a plan of building 125 ultra light Corvettes called the Grand Sport. By building 125 cars, the Grand Sport would qualify as a GT production car under international racing rules. Sadly, the General Motors front office stopped the program. When the cease and desist order came down from the ivory tower, five Grand Sports had already been completed.



General Motors pulled the plug on the Corvette racing program because in 1957, General Motors President Red Curtice persuaded the American Manufacturers Association to pull out of providing any more factory participation or assistance in racing events. It was believed that Henry Ford pulled a political end run to get Curtice involved so that General Motors in particular would no longer be making special or export parts for their cars.

Ford, in gesture only, said they would observe the ban, while continuing to supply parts to racing teams through an outside agency. Under the guise of being an independent company, race teams like Holman and Moody worked closely with the Ford factory in development of NASCAR and other racing programs and so called "export" parts for Ford engines.

Chrysler Corporation closely followed Ford's lead in that area, except they labeled their development "police packages" or "severe duty" parts. A group of Chrysler engineers on their own formed an organization which provided assistance to any one that asked for help. They were not paid through any funds from Chrysler itself. Only General Motors strictly observed the racing ban participation, which is exactly what Henry Ford II wanted.

Duntov's objective with the Grand Sport was to make it ultra lightweight. In the end, they weighed in at about 1,900 lbs. or about 1,350 lbs. lighter than a stock Corvette coupe. They had a 377 cubic inch aluminum V-8 engine putting out 550 horsepower. They ran with a 4-speed transmission and 4-wheel independent suspension.

Le Mans 1963 was to have been the Grand Sport's debut in Europe. Since the requisite 125 cars had not been built, the effort had to be scrapped.

Early on, the Grand Sports showed brilliantly at times while racing. When they ran head to head against the Cobras, they showed that they were both faster and better handlers than Shelby's snakes. The Cobras, having met the 125 minimum were certified as production cars while the Grand Sports were not. That was

www.grandsportvettes.com for more info: visit the Official Grand Sport Registry. (cont. Next page)

an important distinction. Since it wasn't classed as a production car pursuant to FIA racing rules, the Grand Sport had to compete in the prototype class where it ran against the likes of Chaparral, Porsche RS-60, and "Birdcage" Maseratis. The Grand Sport wasn't competitive against those full blown racers. The Grand Sports went to racers and teams like John Mecom and Roger Penske. Before they went to private hands, GM pulled the 377 cubic inch motors. In the hands of privateers, they were mostly run with the big block 427 motor. Initially, even though the 427 was heavier than the small block 377, the Grand Sports ran with some measure of success. At Nassau in 1963, they put on an exciting show besting the Cobras and finishing third and fourth behind two prototypes. Roger Penske returned to Nassau in 1964 and won the Nassau Trophy race, serving pretty much as the swan song.

Carroll Shelby and Ford came with their own 427, whereas in the ensuing months and years, the Cobra continued to be developed and improved while the Grand Sport and racing Corvettes were stagnating in trying to compete with no factory support. It was like going to a gun fight with a pocket knife.

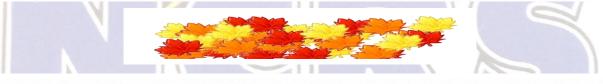


During their short life span, the Grand Sports ran at tracks like Sebring, Watkins Glen, Daytona, Nassau, Road America and Mosport. Some of the notable drivers were Roger Penske, AJ Foyt, Jim Hall, Dick Thompson, John Cannon, Don Yenko and Delmo Johnson.

Remarkably, all five of the original Grand Sports are restored and exist today. It is difficult to access their value, but it is believed they are insured for more than \$5,000,000 each.

The opportunities to see one of the original five Grand Sports are few and far between. Only once in history, at the 2003 Amelia Island Concours in Florida, were all five of these historic racing icons ever together at one time.

Thanks to Mongoose Motorsports and Grand Sport Vettes, one can own a beautiful recreation of this piece of Corvette history. As one cruises down the boulevard in one of these spectacular cars, one can only muse at what could have been.



'96 Grand Sport Corvette History

At the 2000 Gathering event at the National Corvette Museum in Bowling Green, Kentucky, John Heinricy (C5R driver par excellence and previous GM Corvette Engineer) spoke to a group of highly enthusiastic Corvette owners telling how the 1996 Grand Sport and Collectors Editions were conceived.

The Corvette Design Team wanted to do a fitting 'close' for the long-running and successful C4 (4th generation) body style. The 'car guys' had created the mules for the Grand Sport in 1993 and showed it to a small group of dealers and marketers that help set brand direction.

The feedback was that the design was 'too bold' and they only forecast sales of <u>500-1000</u> units. That wasn't enough sales -- they were all worried that the coming C5 would hurt the sales of the last year of the C4. But Heinricy and others were pushing hard to have GM do something different and bring the GS to the market.



www.grandsportvettes.com for more information...visit *the Official Grand Sport Registry*. (Continued on next page).

At the coffee pot one day, Heinricy and then Corvette Chief Engineer Dave Hill were talking about the problem. One of them thought for a minute and said, "How about we have two special models? We'll make an unlimited number of commemorative specials and the limited-run Grand Sport."

In that room they set the maximum number of Grand Sports at 1,000 since that's what the marketing guys said they could sell. Each Grand Sport would come with the new high performance LT4 engine (the highest performance small block engine Chevy had ever produced at the time) and a mandatory six speed manual transmission. The Collectors Editions, on the other hand, would be the boulevard cruiser and eventually comprised nearly 25% of the total 1996 production, far from a true limited edition!



As a result of that coffee room conversation, the planning began for something very special... the extremely limited edition 1996 Grand Sport finished in Admiral Blue and wide Arctic White stripe, one of the most eye catching, collectible, and sought after Corvettes ever produced... a true Legend Reborn!

One other note: Heinricy said he had a real fight on his hands for the special VIN sequencing for the GS models. After doing a special series for the ZR-1s, GM wanted to ban the practice. John said he and others felt strongly about the need to make the Grand Sports "even more special" and successfully fought to make it happen.

And just in case you didn't know, John Heinricy still owns 1996 GS #0001... the first off the line!

For detailed information on the 1996 Grand Sport Corvette, visit the Official Grand Sport Registry

PLEASE WELCOME OUR NEWEST PTSC MEMBERS

Marvin & Joyce Williams #63490

453 Chapeldale Dr.

Apollo, Pa. 15613

724-882-5505

Toys:

55 Roadster

58 FI Convertible

63 SWC

Jeff & Verna Carberry #64913 302 Blossom View Heights Somerset, Pa. 15501 jgcarberry@gmail.com

814-442-9000

Toys: 1966

Jeff Fisher #65145

563 Macleod Dr.

Gibsonia, Pa. 15044

412-287-7606

fisherx@me.com

Toys?

* Christian Kitch (Dave's grandson) #33108 Jr. Member

Membership Info Contact: Judy Geary gearyjt@comcast.net



REPLACING A C4 MASTER BRAKE CYLINDER BY: DON GEARY #29217

I have owned a 1994 ZR1 for 12 years now and recently on a trip to our annual picnic, the car's brakes suddenly locked up 10 miles into the trip. I managed to pull into a parking lot where the brakes were locked up tight. I called a friend, who picked us up from the lot and took us to the picnic, and upon our return a couple hours later, the brakes were free and I could move the car as normal. I had the vehicle towed home anyway and proceeded to look over the brake lines for any sign of bulging or abnormal indications, like leaks, parking brake cables binding, etc. Finding nothing, I drove the car around our neighborhood for 20 minutes with no sign of the locking brakes. Several months later, I started her up and backed out of the garage to take the car for our PA annual inspection and the brakes locked in the driveway. I barely got the car back into the garage and the brakes never released this time. After some time investigating possible causes, a C4 expert told me it was probably the master cylinder, which I suspected as well. He also showed me it was NOT the intimidating project I had imagined, and I decided to go ahead with the project. So here's my description of the steps to replace the master cylinder. First some precautions: Brake fluid is toxic to everything, from bare hands to paint, so wear gloves and eye protection, keep brake fluid off any painted surfaces, off the garage floor and dispose of properly. Next, NEVER use old brake fluid from a can you opened last year because it attracts water and is not as good as a new sealed container. Use good quality brake fluid and match the fluid to the specs for your car, in this case DOT 3 for the C4's.



You will need to jack the car up and remove all four wheels. Spread paper under all four wheels and under the master cylinder area because you will spill a little brake fluid regardless of how careful you are. Remove the master cylinder with the following steps:

*Place a rag around the bottom of the cylinder to protect parts below the cylinder from getting fluid on them when you unbolt the lines.



*Remove the two brake lines from the right side of the cylinder using brake line wrenches to avoid rounding the nut corners.



*Remove both electric plugs that are attached to sensors on the cylinder and fluid bowl by carefully prying the plastic lock on the side of each plug, and pulling them apart. (Continued on next page)

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*Remove fluid line from left side of bowl by loosening the worm clamp.

*Remove nuts from the back of cylinder into the brake booster.



*Now the master cylinder should slide off the bolts, and you can lift it out as a unit, trying to keep the fluid contained.



*Note: The master cylinder is date coded on the front of the cylinder with DDMY. So mine was coded 12D4, 12th day of April 1994. Luckily I found one with the exact date code at Mirrock Corvette parts. Mark and Brooke there are C4 experts and can help with any C4 parts and plenty of friendly help.



Now the fun begins: putting it all back together and making the car operational again:

*Bolt the unit back in place on the brake booster.

*Reattach the two brake lines, the flexible line, and the two electronic plugs.

*Fill the fluid bowl to full capacity with new brake fluid. A C4 system holds a total of about a quart of brake fluid.

*There are multiple ways of bleeding the brakes, but I used the old fashioned method of having my wife depress the brake pedal while I bled each caliper. Now I owe her big time.

*Begin bleeding the brakes by starting at the furthest brake caliper, the right rear and work your way through the left rear, front right then front left. I also bled the unit in the compartment behind the driver seat according to the GM manual, but I believe this is not necessary if you bleed a lot of fluid. I actually went around to each wheel twice to make sure no air bubbles were coming out with the fluid (a clear drain hose helps). Keep the master cylinder reservoir full at all times.

*Then I fired up the engine and tested the brakes while it was still on the jacks. No lights were present indicating there were no problems detected by the sensors. The brake pedal was firm and held firm while braking. I checked for any leaks and there were none.

*I cleaned up all around the vehicle, greased the front ball bearings, and replaced all wheels.

*The test drive turned out fine, so we took it for a longer drive to make sure all was functional and safe. Next was the annual PA inspection and everything passed.

*I performed one final check at all wheels and under the hood to make sure there were no leaks and we are ready for our next road tour.

*Hope this step by step helps somebody through this process, which is not so intimidating now that I have done it.



VINOSKI WINERY TOUR & CRUISE



Write up: Dave Kitch- photos by: Dave Kitch, Jim Patitucci & Norm Neffield







Thirty eight people participated in the recent visit to Vinoski Winery on Saturday
September 1, 2018 in Rostraver, Pa. Most of the participants were members of the *Pittsburgh Tri-State Chapter NCRS* or the *Corvette Club of Western Pa*. or both. We were hosted by David Brown of Vinoski Winery.

The event included a tour of the winery palatial building, wine tasting, wine making and buffet dinner in the courtyard and concert presented by the Dave Matthews tribute band, *Antz Marching*. All who attended seemed to have a good time.

Dave Kitch

PTSC, CCWP

More photos on the next page.











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The members of the PTSC NCRS and the CCWP would like to thank Dave Kitch for planning and coordinating this event.

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The NCRS Gallery XVIII was one of the great things to see at Corvettes at Carlisle this year. It is an invitational collection of Corvettes of merit that exemplify what NCRS is all about. Carlisle Events and the NCRS sponsors the Delaware Valley Chapter of the NCRS in presenting this annual exhibit to provide a deeper insight into NCRS's purposes, which are the preservation, restoration and enjoyment of Corvettes produced during the years 1953-2002. There were 21 beautiful Corvettes on display this year, and one of those exemplary cars belonged to our PTSC Judging Chairman, Bill & Cindy Bryan. Their beautiful 1959 Crown Sapphire Convertible was on display. Below is the photo of their car in the NCRS Tent at Carlísle...



Write up & Photo: Jim Patitucci

An Invitation...

Hi Pittsburgh Tri-State members. That time of the year is here when we have to prepare for elections. The chapter has had a handful of members that have been holding chair positions for a number of years.

I am asking you to consider running for a board position, we really need some new blood to help keep our hobby alive and active. None of the jobs are hard to do and mostly mean you get together with friends once a month, have dinner and talk about our hobby.

I am on the nominating committee and I don't want to call every member to look for volunteers. We are all adults so I am asking you to consider running for the board. If you are willing to help preserve our hobby please email me and I will place your name on the recommendations list.

My email is <u>cirilli@zoominternet.net</u> and my phone number is 724-449-3323. See you don't even have to look them up. I hope I hear from you.

Great Friends

Robert D Cirilli

Nominating committee



NCRS CALENDAR OF EVENTS

2018

Metro Long Island Chapter Meet	Sept. 30	Syosset, NY
Northern California Chapter Meet	Oct. 5-6	Granite Bay, Calif.
Southeast Chapter Meet	Oct. 6	Summerville, GA
Delaware Valley Chapter Meet	Oct. 7	West Chester, Pa.
St. Louis Chapter Meet	Oct.13	Manchester, MO.
Pittsburgh Chapter Meet	Oct. 14	Hubbard, Ohio
Arizona Chapter Meet	Oct. 20	Scottsdale, Ariz.
Texas Regional	Oct. 25-27	Frisco, Texas
Texas Regional Southern Cal Chapter Meet	Oct. 25-27 Nov. 2-3	Frisco, Texas Cathedral City, Calif.



NATIONAL CORVETTE MUSEUM

EVENTS 2018

Sept. 23 MiM National Parks Tour #2

Oct. 8 MiM 1 Lap of Kentucky Tour #1

Oct. 12 Vette City Motorcycle Music Fest @ NCM

Oct. 15 MiM 1 Lap of Kentucky Tour #2

Oct. 22 MiM 1 Lap of Kentucky Tour #3

Oct. 29 MiM 1 Lap of Kentucky Tour #4

Nov. 8 Vets'n Vettes presented by Mobil 1@NCM

Nov. 9 2018 Corvette Racing-Presented by Michelin@AACA Museum



Great Cars and Great Friends

PITTSBURGH TRI-STATE CHAPTER 2018 REMAINING EVENTS

Sunday October 14 – Chapter Meet & Judging School – Greenwood Chevrolet, Hubbard, Ohio

Sunday, December 9 – Holiday Banquet & 28th Annual Membership Meeting, Lakeview Lounge, Greensburg, Pa. (*Bring a gift for the Toys for Tots Program*).

REQUEST FOR PARTS

I have a customer in Australia that is looking for some original GM Knock-Off Spinners-both left and right. He would love to get a full set of 4 or possibly more. He has three Mid-Years, but he will take 1, 2, 3 or whatever. He doesn't care about the condition as he will have them restored and chromed over there. He is just concerned about originality. He doesn't want reproductions for this part. So if anyone has any original GM Knock-Off spinners that they would like to sell, please contact me.

Thank you,

Jared @ Corvette World

724-863-0410 or jared@corvettedept.com

Lift for Sale after the MAC Regional

MAC is using a four post lift during the Altoona Regional this week and the nearly-new lift will be sold immediately afterwards. This extra-long and tall lift is one of the finest available including all the options: Advantage SS-9000 XLT – 9000 pound capacity four post lift includes 4 Drip Trays, Rolling Jack Tray, Caster Kit & Aluminum Ramps. If interested in buying this outstanding lift contact Jerry Duffey ASAP. Cell 757-869-7310 or <u>duffey302@cox.net</u>.

More specs: <u>https://advantagelifts.us/ss-9000XLT-extra-long-tall-four-post-lift</u>

Pittsburgh Tri-State Chapter Apparel

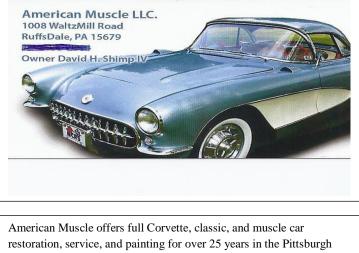
Please check out the link on our website to view the various PTSC logo apparel items offered for sale. These items are priced very reasonably, especially for an embroidered chapter logo. The merchandise will be available in *limited* quantities at all of our Chapter events for purchase. The following new colors have been added: yellow, green, maroon, navy blue and red.

Please contact:

Jim Patitucci

724-737-6396 or jjppat@atlanticbb.net





restoration, service, and painting for over 25 years in the Pittsburgh area. Owners Dave & Aaron Shimp look forward to serving the NCRS and Corvette hobbyists. 724-351-2476 or Shimpy45@yahoo.com PTSC Members if you have any Corvette Parts for sale or if you are looking to purchase any Corvette parts you can post an ad in our monthly newsletter free of charge for as long as you wish. Just email me your information well in advance of the next newsletter due date and I will be happy to include it. **However, there is a fee for business and services ads.** Email: jjppat@atlanticbb.net

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PITTSBURGH	5	PITTSBURGH TRI-STATE CHAPTER MEET & JUDGING SCHOOL <u>WWW.NCRSPITT.COM</u> Sunday Oct 14, 2018 – Limited CAR Registrations available Greenwood Chevrolet (Hubbard), 2635 N. Main Hubbard OH 44425 800-635-0339						
NCRS Membership	Numbe	r:	(Registra	ution Wil	l Not Be	Accepted W	ithout Your NCRS Number)
Name:		Spous	e/Guest:				Chapter Af	filiation:
Address:				Cit	y:			_State:ZIP:
Home Phone:				Cell	Phone:			
E-Mail:				_				
9:00	Judgin	₩ Eve ration, coffe g School – /owners me	e and D TBD		2 – SUNI	DAY OC		ght Judging nch available
□Registration f □ Flight Judgin	èe per j ig Car Ei	person= Juc ntry	lge/Own	er/Spect	ator (Inc	ludes Lu	nch)	Items and Amounts) ₩ \$10\$ \$\$ 10 \$\$ \$\$ 60\$ \$\$\$
			M Ju	DGING	PARTI	CIPATIO	DN H	
Yes I would like to Flight Judge as follows	Year	As Needed	OPS	INT	EXT	ENG	Chassis	Judging Level – or – Don't Know 🗆
1 st Preference								I would like to tabulate 🗆
2 nd Preference								I would like to be an Observer Judge □
		H CA	R ENTR	Y PARTI	CIPATIO	N WILL	BE LIMITED	H
Year Coup	be □/Co	nv. 🗆 Eng	ne HP_	v	IN			
Ext Color]	Paint Co	deIn	t. Color	7	Frim Cod	le	_ Int. Fabric	Build Date
								Exp. Date://
P	Please se	nd copies o	f your o	wner an	d insura	nce card	s with this r	egistration form.
agree to assume the ris for any acts or omission	sk of any ar ns which ma	nd all damages ay result in the	or injury and heft or dest	d to indemn truction of n	nify and hold ny property	harmless, I or injury to r	NCRS, its officer me or others occ	ce to the NCRS at the time of registration. I s, directors, agents, employees and Chapters urring, during or as a consequence of this i insurance must be presented at the meet.
Signature:							Date:	//
Make checks payable		•	•	-	-	•		
Local Meet C Chapter Meet C	Phon coordinate coordinate	e: 814-942- or: Ken Jelle or: Paul DiS	2758 Not y Phone: anto Phon	te: "NCRS 330-448-6 e: 412-75	6038 or en 6038 or en 61-5579 or	t line when ail: jelleys email: pdi	n e-mailing. spp@aol.com	mail.com
		ing the jud	ging kno	owledge	e of our	member	training se rs. Full judg ants at the i	ing points and



PITTSBURGH TRI-STATE CHAPTER NCRS 28th Annual Membership Meeting Holiday Banquet & Corvette Party Sunday, December 9, 2018 2:00 P.M.



LAKEVIEW LOUNGE 6153 State Route 30, Greensburg, PA 15601 (724) 834-4590

Menu: Hors d'oeuvres: Fresh Veggie tray, pepperoni and cheese tray Dinner buffet: Carved Beef Au Jus, Chicken Romano, Broiled Cod, Stuffed shells Salad, vegetables and Dessert Included. Cash bar

Contact John DeGregory or Paul DiSanto to arrange for special dietary menu, if needed. John DeGregory johndegreg@aol.com 724-832-3786 Paul DiSanto <u>pdisanto1950@gmail.com</u> 412-751-5579 2:00 PM — Cocktail Hour (Cash bar & Hors d-oeuvres) 3:00 PM — Dinner 4:30 PM — General Membership Meeting

Dress Code: Smart Casual or Holiday Attire

PLEASE BRING A GIFT FOR THE TOYS FOR TOTS PROGRAM

Name:

NCRS #

Dinner for _____ Person(s) @ \$30.00 each. Total enclosed \$ _____

Our Chapter is subsidizing part of the dinner & appetizers.

DEADLINE FOR RESERVATIONS: November 30, 2018

Make Check Payable to: Pittsburgh Tri-State Chapter NCRS & mail to:

John DeGregory 649 Humphrey Rd Greensburg, PA 15601

Members	Tri-State Cha ship Applicati ase Print				PITTSDURGH	
Name:			Spous	e's Name:		
Street Address	5.					
City:			State:	Zip	1	
Email Address	:					
NCRS Membership #:		Home	Home Phone:			
NCRS Membe	r Since:		Cell Pr	none:		
Jr member #1'	s Name:		Jr men	nber #2's Name):	
Corvettes (add	litional on back)		1.	1.		
2.			3.	3.		
	L	.ist addi	tional o	n back		
How did you he	ear about the Pitt					
	willing to assist ir	_		e Chapter? events? Please	check box:	
Would you be	willing to assist ir Newsletter	n any of Events	these e	wents? Please Membership	Other	
Would you be Judging Please describ our chapter. You must be a membership a Chapter dues a	willing to assist in Newsletter e any talents or a an active member and please inclu are \$20 payable to payable to: Pitts iseary or	er of the upon ap	these e that you e NCRS RS num oplication	Membership u may contribut , Inc. to qualifiber on this ap n and renewed	Other e to the success of y for chapter plication. each June 1.	
Would you be Judging Please describ our chapter. You must be a membership a Chapter dues a Make checks Mail to: Judy G 117 Caldwell D	willing to assist in Newsletter e any talents or a an active member and please inclu are \$20 payable to payable to: Pitts iseary or	er of the upon ap	these e that you e NCRS RS num oplication	Membership u may contribut , Inc. to qualifiber on this ap n and renewed	Other e to the success of y for chapter plication. each June 1.	

Jim Patitucci *RPM Editor* Box 92 McClellandtown, Pa. 15458

