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DOWNSHIFT



The KYSCCA Monthly Newsletter
August 2018

Welcome to the New Downshift! 2018 Season

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Regional Executive

July was a busy month for KYSCCA!

We hosted the Tire Rack Street Survival School, our very first Top Cop shootout as well as the Beat the Heat fundraiser and two points events! We have a great community of volunteers who answered the call when we hosted these events. They are the same faces you'll see volunteering at our local schools and fundraisers as well as showing up early to setup (or staying late to pack up at regular events).



Saturday, July 14th we hosted our 4th Tire Rack Street Survival School. Huge thanks to Jacob Zimmerlee who stepped up and lead the classroom sessions and nailed it!

I'd also like to thank:

- Stephen Lee
- Cody Willett
- Nathan Steinke
- Fausto Sarmiento
- Ryan Frew
- Zac Yurt
- Andrew Scott
- Dave Munsterman
- Mathew Munsterman

This group gave up their Saturday to help educate young drivers on car control in the real world. This is a fantastic program that saves lives. Look for us to continue holding these on an annual basis!

We then hosted our First "Beat the Heat" event.

The evening started off with a simulated police chase complete with lights and sirens. We then had a "Top Cop Shootout" with officers from 5 departments: Jeffersontown, Audubon Park, St. Mathews, Elizabethtown and the Kentucky State Police. The participating officers all had a great attitude and seemed not only to enjoy themselves but also to be quite thankful for our volunteers putting on the event.

Sunday Louisville Metro sent some recruits to work the course for the Points Event. Many would-be corner workers made a donation in order to have these ladies and gentleman in blue cover their work assignment. The recruits really took their assignments seriously, doing these jobs with the utmost attention and a positive attitude. All of this was done as a fund raising activity for the Kentucky Wounded Hero's fund. This event was a success on many levels and we are hoping to make this an annual occurrence.

If you have a question, problem, or concern, you can shoot me an email at the above address, you can now reach me on Facebook ([RE KYSCCA](#)) or give me a call; most of you already have my phone number, if you don't, ask around.

I'm happy to address any topic as it relates to the club with any member.

KYSCCA Board Elections

As mandated by our bylaws we have two board of director seats as well as the Regional Executive, Treasurer, Secretary and Activities Director all expiring at the end of the year. Any member in good standing may seek any of these seats for 2019. Should you choose to pursue one of these seats, nominations shall be made no later than the September 6 Membership meeting. These are all volunteer seats; We ask that you make a commitment to be present at all meetings as well as self-educate yourself on the needs of the club and be willing to see projects through to completion.



Horsepower for Heroes

On July 14th 2018, KYSCCA and the Jeffersontown Police Department hosted the first annual Horsepower for Heroes. This was a charity autox event for sworn police officers to compete in an autox course in their marked patrol vehicles. The officers raced against each other's times trying for the chance to be "Kentucky's Fastest Cop".

This year twelve officers, representing five police agencies in Kentucky participated. After the fastest officer was crowned the general public was invited to race their cars in the "Beat the Heat" session. During this part of the event participants donated money to Kentucky Wounded Heroes, raced their cars on the same course and set a time, or a chance to beat "The Fastest Cop in Kentucky". The event was a great success raising over \$3000 in the first year! The donation to Kentucky Wounded Heroes will be used to help police officers, firefighters, EMS workers and military personnel who have been injured while on duty.



Shawn Lambert being chased in a 370z by Officer Strange. Shawn was apprehended shortly after this photo was taken.

HELP WANTED!

We will once again be hosting an autocross for LS Fest September 7th and 8th. The change is that this year we will be working the NCM Site. We are actively soliciting members to volunteer to work this event!

We will feed you, put you up in a hotel and give you countless hours of entertainment. This is not your typical SCCA autocross; Course work will be done from carts, no running after cones on foot here. While the pace is fast it does go by very quickly and you get up close and personal with some of the most amazing car builds (all sharing a common push rod power plant)!

Staffing for Friday September 7th is tricky but we only need a handful for volunteers. If you can make it please reach out and let me know! Also please let me know when you plan to arrive so I can get the correct number of hotel rooms.

Please contact KYSCCA@gmail.com if you are able to assist!



Would you like to contribute to our Newsletter? [Contact the Downshift editor today!](#)



Blue Grass MOTORSPORT

Built on Performance

Thank you to our Title Sponsor!

Bluegrass Motorsports has returned as the title sponsor of the KYSCCA 2018 Solo Series. If you're in the market for a fine automobile, please support our sponsor. [Contact Chris Evans for further details.](#)



Beyond providing monetary consideration, Bluegrass Motorsports also donated a 2 day PCA Drivers Experience at Putnam Park. We would like to Congratulate Andrew Scott for winning this awesome prize at our 2017 Awards Banquet.

This prize is awarded to a solo class winner at the year-end banquet by way of a random drawing, must be present to win. 2018 is a new season and another chance to win this awesome prize.

www.bluegrassauto.com • www.pca.org/driver-education

How to lose to \$100K Supercars with basic hand tools

by Andrew Scott

Part 3: Suspension Phase 1

The suspension on the GM G-body is, in a word, horrible. It is a downsized, metric conversion of the old A-body suspension. It's a fully independent short-long-arm (SLA) front suspension with a converging four-link solid axle in the back. The system's strong points? Durability. One of GM's quality control parameters was to hit a curb at 45 miles per hour and do no damage to the car. That's why all GM products had big high-profile tires well past the point when their competitors had switched to low profile products. Another strong point is the rear's ability to put power down. The G-body rear suspension provides decent traction and is not prone to axle hop.

But the negatives? Oh my. Starting in the front, the SLA geometry is wrong. In bump, the top of the tire tips outwards (positive camber gain), and there's not enough caster in the system. The result is the vehicle will understeer and destroy the outside edge of the tires if driven hard. The roll center (the imaginary point around which the suspension pivots when the car rolls) is very low. Like six inches below ground. Picture it like this: The car is a mass at the end of a pendulum, and the pendulum is really long. The further away the roll center is from the car's center of gravity, the harder it is to control its movement.

In the back, the upper control arm angles are extreme and the arms are too short. The stock roll center in the rear is something like 18" above ground, somewhere in the trunk. Again, a

really long pendulum arm. Plus, the difference between the front and rear roll centers is extreme. The car's roll axis, which is a line that connects the front and rear roll centers, is angled horribly. The result is a vehicle with terrible dynamics. In a hard turn, the front outer tires tries to roll itself off the rim while the nose of the car plunges towards the ground and the rear of the car heaves wildly into the air. On top of that, the short control arms in the rear cause the rear axle to rotate under the car. Think about how a wagon steers. That happens in the back of these cars when the suspension moves. It's called the "G-Body shuffle" and at best it's unnerving. At worst, the car will spin out of control. It's especially bad in slaloms where you go one way, then have to go another. The rear steer cause by the axle makes for interesting driving.

Finish reading Part 3

Private, Long-Term Lease Garages coming to NCM



** COMING SOON - SUMMER 2018!! **

Private, long-term lease garages will be available for rent at the NCM Motorsports Park in Bowling Green, KY. Limited space available.

To secure your garage, or for more details and pricing, contact Mitch Wright at (270) 777-4508 mitch@motorsportspark.org

Layout not yet finalized. Floor plan is modular, and square footage can be determined based on renters' needs.

Perfect for the track day customers looking for a place to keep their track car and supplies; the Corvette owner wishing to leave their car in Bowling Green for use at Corvette events; the customer looking for a secure facility to keep their prized possessions; and the business looking to monetize the space by providing services.

Pricing:

- 390 sq. ft. \$488/month
- 595 sq. ft. \$745/month
- 1,198 sq. ft. \$1490 / month

Lease Terms:

- Starting with a 3-year lease commitment but terms are negotiable. Payment plans available.



MEMBER MEETINGS

AUGUST 2 • 7:00PM

Coal's Pizza
11615 Shelbyville Rd

SEPTEMBER 6TH • 7:00PM

O'Charley's
1901 S. Hurstbourne Pkwy

BOARD MEETINGS

AUGUST 29 • 7:00PM

Stephen Lee's House

September 26 • 7:00PM

Shawn Lambert's TBD

AUTOCROSS SCHEDULE

September 16th PE 6

-CCRA

September 23rd PE 7

-NCM

Current membership is 263

KYSCCA would like to wish a Happy Birthday to our members celebrating August Birthdays!

Jamey Aebersold
William Engle Jr.
Ann McNally
Phillip Brown
Dory Cobb
Steve Abner
Jennifer Bowman
Daniel Huggins
Wayne Rouse
Jeremy Hess
Travis Taylor
Eric Brown
Stephen Lee
William Marquess
Zachary Yurt
Eric DeWitt
Michael Neat
James Lee
Stephanie Fields
Clay Hoehler
Perry Fortney
Darrian Robinson
Sam Bailey

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