

The Rear View Mirror

News about BREMC Any ideas for the newsletter? Send an e-mail to Jack Weller with your suggestions.

September 4
NEXT MEETING
Deer Brook Golf Course Shelby

September 2014

Broad River European Motor Club

Shelby, North Carolina 28150

Volume VI Number 09

SEPTEMBER MEETING

Join us **Thursday, September 4th at Deer Brook Golf Course and Restaurant** off Post Road for our regular monthly meeting.

If the weather is nice, drive your car to the meeting.

E-MAIL YOUR DINNER RESERVATION

Please e-mail **Wilbur Wright**, president, that you will be attending so that he may let the restaurant know how many to prepare for the meal. **Wilbur's** e-mail address is wrighton98306@bellsouth.net

AUTO LAWN CAR SHOW

A week from this Saturday is the Hickory Lawn Party car show. I know of a few who are pre-registered, and think several plan to go. If you intend to go to the Hickory car show and have not registered (which ensures you a parking place), here is a link to that registration form:

<http://www.theautolawn.com/registration/>

A week from tomorrow, Sept 4th, is our monthly meeting at Deer Brook. This Saturday, August 30th, we will do the usual hang-out-and-drink-coffee at Lyly Bean, starting about 0830. That said....

Are you interested in joining a group drive to Hickory on the 6th? This Saturday, come hang out with us, drink coffee and discuss a plan, then at the club meeting next Thursday we can make specific plans for that Saturday drive.

Danke, Bruce Harless

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SUPPORTING PASSING THE GIFT

Fellow Members of BREMC,

Some times we forget what our mission is as a Club. It may have been awhile since you have read the Mission Statement that we adopted when the Club was organized. Here it is from a past newsletter:

Broad River European Motor Club Mission Statement

*The purpose of
the Broad River European Motor Club is
To encourage and promote the preservation
and enjoyment of European cars,
To conduct educational and social events, and
To involve the group in community, civic, and
charitable events.*

At our August meeting **Iverson Smith** shared with us about **The David Wilson ALS "Pass The Gift" Fundraiser**. **David is Iverson and Libby's** son-in-law, who was diagnosed with ALS. This is the fourth year of the fundraiser. It was started by David's high school buddies who wanted to help him and his family deal with this terrible disease. The second year of the fundraiser, David and his wife Sharon shared that they appreciated the funds raised, but they knew there were others in the community who could use financial help. They wanted to *pass the gift* to others. Over the years this has included two children with developmental disorders who are confined to wheel chairs, a friend who played with David in his band who had cancer and this year : **Brian and Violet Dukes**. **Brian** was diagnosed with **Guillain-Barre Syndrome** on March 25, 2014, one week after his daughter, **Scarlett** was born.

The Executive Committee decided to make five hundred dollar donation to the fundraiser this year. At the September meeting, if you would like to make a donation, please make the check to the **David Wilson ALS Pass the Gift Fundraiser** and give it to **Iverson Smith**.

Thank you for supporting this community event.

Wilbur Wright asked that the Newsletter Editor compose a note to share with the Club the decision of the Executive Committee following the August meeting.

Communications is an important part of any organization. The newsletter is published monthly
to encourage and to promote events, **to share** activities and information,

to introduce members to the love of cars, **to involve** you in helping others and **to celebrate** our successes.

If you have ideas for articles please send by the 15th of the month. If not received in a timely manner, item may not make newsletter that month.

Goal is to send newsletter the Friday before our regular meeting. Let us know how you like the newsletter, e-mail **Jack** at wsweller@aol.com

AUGUST MEETING MINUTES

Editor's Note: Each month we will print Meeting Minutes in the newsletter. If you have changes, they will be discussed at the business meeting in the next month.

August 6, 2014 BREMC General Meeting Minutes

Meeting was called to order by **Wilbur Wright**, President.

Welcome to all who could attend. He verbalized they had received 16 unable to attend, which prompted another email asking for reply of who could attend.

The minutes for the July meeting were in our newsletter. They were approved as read.

A Financial Report was given by **Cindy Cabaniss**, Treasurer.

Iverson Smith gave a presentation explaining the **David Wilson ALS "Rollin & Rockin Pass the Gift" Fundraiser**. The event will take place on **September 13, 2014 at the Cleveland Country Club**. Iverson gave details regarding the golf tournament, live and silent auction, and other opportunities to support the fundraiser.

He went into detail on the history of this fundraiser. This year's recipient: **Brian and Violet Dukes**. **Brian** was diagnosed with **Guillain-Barre Syndrome** on March 25, 2014, one week after his daughter, **Scarlett** was born. Last year BREMC and its members donated over two thousand dollars to the event. Members present discussed a donation to the **2014 Rollin & Rockin Pass the Gift Event**.

Wilbur Wright explained that one of our changes to the **By-Laws** states that any requests for donations must first go through the Executive Committee and then be brought to the membership at the next meeting with a vote before we could make a donation. After much discussion, a motion was made by **Jack Weller** stating that the Executive Committee consider and recommend to the membership a donation to the **David Wilson ALS Fundraiser** in a dollar amount the Club could support. This was seconded and approved by the members present. **Wilbur** said the Executive Committee would meet as soon as it could.

A couple of members mentioned that we may want to reconsider in upcoming years as to who our charity is for the car show. **Wilbur** suggested that we need to have a process for this decision to be made each year.

Wilbur stated that he had given the new manager of **Deer Brook** our original agreement with **Deer Brook** regarding prices/meals etc. This should be firmed up by our next

meeting. Questions that are being asked – gratuity – will it be added or not.

Bob Cabaniss gave a reminder about the upcoming **AutoLawn** on September 6th in Hickory. Please register to get a space on the lawn.

Jack Weller gave an update on the upcoming **Euro Auto Festival**. Registration is already closed.

The **Wine Tours for Euro**, which is hosted by **BREMC** was discussed. Due to the continued lack of any volunteers to chair this, **Bob and Cindy Cabaniss** said they would chair again this year, making this 3 years they have chaired. Please consider stepping up now for chairing next year's Wine Tours. Volunteers will be needed to help with delivery of food, serving of food, parking, bringing ice, etc. Lunch will be served at 2 of the wineries. **Bob and Cindy** stated they would contact the wineries in the next couple days. In past years, we have gained new members thanks to this event. Beautiful cars, interesting people and delicious wines!!

Reminder by **Bruce Harless** to try to come to the **Lily Bean Coffee** gathering on Saturdays was given.

Meeting adjourned by **Wilbur Wright**.
Meeting adjourned.

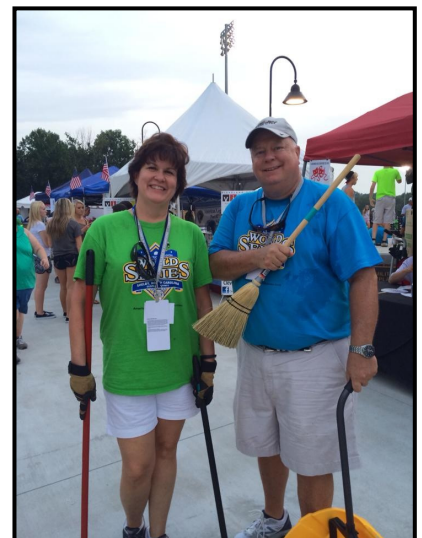
Respectfully submitted,
Cindy Cabaniss, Secretary/Treasurer

WORLD SERIES CLEAN SWEEP

Members **Page and Jim Morgan** were volunteers at the **American Legion World Series** this year as part of the "grounds crew".

They have volunteered each year that the ALWS has been in Shelby.

Thanks for all of your hard work.



BREMC OFFICERS & COMMITTEES

President – *Wilbur Wright**

Vice President – *Skip Wise**

Secretary / Treasurer – *Cindy Cabaniss**

Immediate Past President, -- *Doug Carlisle**

Car Show Director – *Tom Greene*

Historian – *Cindy Carlisle*

Special Events Coordinator – *Bruce Harless*

Program Chair – *Alan Teague*

Membership- *Doug Carlisle Interim*

Newsletter – *Jack Weller*

Publicity – **OPEN**

Regalia & Accessories – *Alan Teague*

Technical Director – *Iverson Smith*

Website – *Don Byrnes*

- Executive Committee Member

EVERY SATURDAY MORNING

WEATHER CO-OPERATING

COFFEE, CARS & CONVERSATION

BRUCE HARLESS INVITES YOU ON ANY SATURDAY MORNING

TO STOP INTO LILY BEAN COFFEE SHOP



ON THE COURT SQUARE -- SHELBY, NC

**MEET SOME GREAT PEOPLE AND TALK CARS
GROUP MEETS FROM 8AM TO 10AM**

**First Saturday of the Month
Cars & Coffee Charlotte, NC**

**Third Saturday of the Month
Cars & Coffee Greenville, SC**

At the July Cars & Coffee there were over 932 cars.

**VOLUNTEERS NEEDED FOR UPSTATE
WINE TOURS, FRIDAY OCTOBER 17**

For the fourth year in a row, the Broad River European Motor Club is sponsoring the Upstate Driving Tours as part of Euro Auto Festival on Friday, October 17. The tours allow European classic car owners the opportunity to travel some the back roads of South and North Carolina and visit three wineries in Polk County North Carolina. There are 30 cars in each tour. It is a great way to meet people and enjoy the day.

Volunteers are needed to be a host at one of the wineries, to help serve the Alston Bridges Barbecue meal at two of the wineries, and to meet some of the neat people who enjoy cars.

We have gained new members each year from those who participate in the drive. Hope you will help.

Contact Bob or Cindy Cabaniss if you are able to help!

2014 Meetings / Events Calendar

The 2014 Calendar is updated as Events are sent to be posted. If you know of events and have the date, please send them to Jack Weller

DATE	Meeting / Event
JANUARY	
2	BREMC Monthly Meeting
FEBRUARY	
6	BREMC Monthly Meeting
MARCH	
6	BREMC Monthly Meeting
APRIL	
1	Groundbreaking for new Abuse Prevention Center
3	BREMC Monthly Meeting
5	Clifford's Army Rescue
5	Carolina British Classic VIII – Columbia
11-13	The Gathering Shelton Vineyards Dobson, NC
26	Broad River European Classic Shelby, NC
MAY	
1	BREMC Monthly Meeting
24	Southeastern British Motorcar Owners Club (SBMOC) will host an all British car show at <i>Furman University</i> in conjunction with <i>Greenville Scottish Games</i>
JUNE	
5	BREMC Monthly Meeting
JULY	
4	INDEPENDENCE Day Parade -- LATTIMORE
10	BREMC Monthly Meeting
11	National Collector Car Appreciation Day www.hagerty.com
AUGUST	
7	BREMC Monthly Meeting
SEPTEMBER	
4	BREMC Monthly Meeting
6	The Auto Lawn Party – Hickory Note Date Change www.theautolawn.com to register.
9 to 14	Vintage Triumph Registry National Shelton Winery Dobson, NC
18 -21	Auto Fair – Charlotte, NC
27	Autumn in the Mountains BCCWC Hendersonville, NC
27	MG's on the Green Harrisburg, NC
OCTOBER	
2	BREMC Monthly Meeting
11	Brits on the Beach – Wilmington, NC
17	BREMC Sponsored Wine Tours as part of Euro Auto Festival
18	Euro Auto Festival BMW Zentrum Greer, SC
NOVEMBER	
1	Hog Happnin'
6	BREMC Monthly Meeting
DECEMBER	
4	BREMC Christmas Party
15	SHELBY CHRISTMAS PARADE

BREMC Meetings & Christmas Party will be at Deer Brook Golf Course Restaurant, unless otherwise posted. Highlighted event dates are needed.

ACKERMAN EFFECT STEERING YOU IN A NEW DIRECTION

Iverson Smith, Technical Director

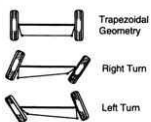
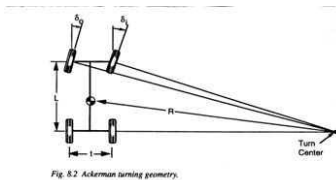
Recently I was in the western part of the state and decided to stop by *Doug Carlisle's* shop on the way home. During the course of our conversation Doug asked what I knew about the *Ackerman Effect* on steering geometry. I dug back into the cobwebs of my brain and pulled out what I knew. I then tried to 'splain what it is as best I could. When I got home I *googled* Ackerman Effect and steering geometry and found more information than most of us will ever need or want to know. This is a summary of what I found.

I thought some others of you may be interested in this, especially if you are contemplating changing the steering on your car or even if you are just having the front end aligned on your car. After all, it helps to know the language when you are talking to a mechanic or technician. Just be careful, he (she) may get really defensive if they think you may know more than they do about their job.

The Ackerman Effect was "invented" by the German carriage builder *Georg Lankensperger* in Munich in 1817, then patented by his agent in England, *Rudolph Ackermann* (1764–1834) in 1818 for horse-drawn carriages. *Erasmus Darwin* may have a prior claim as the inventor dating from 1758. I am not sure the word invented is appropriate here, but for lack of a better word, we will use it. I think a power greater than either of these men invented the Ackerman Effect. It seems to me that discovered or identified may better explain the process. Saying that either of these men invented the Ackerman Effect is like saying Newton invented gravity. It just ain't so.

Darwin, Lankensperger and *Ackerman* were looking for a way to make their vehicles handle better and to improve on tire wear, just as we are today.

The intention of Ackerman geometry is to avoid the need for tires to slip sideways when rounding a curve. To accomplish this all the tires on a vehicle must pivot around a common pivot point, the turn center. The following drawings may help you understand this action.



Ackerman geometry requires that:-

$$\delta_o = \frac{L}{(R + \frac{c}{2})}$$

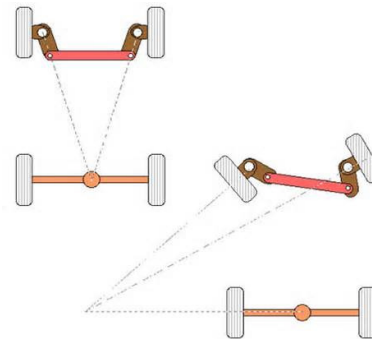
$$\delta_i = \frac{L}{(R - \frac{c}{2})}$$

Note that a line through the left wheel spindle and a line through the right spindle will terminate in a "v" on a line running through the rear wheels. This turn center changes as the front wheels are turned, the tighter the turn, the closer the turn center is to the car, and visa versa. Note that the turn center always lies on a line running through the rear axle, when the front wheels are turned to any angle other

than straight ahead.

Refer to figure 2 and note also, that a line through the left tie rod end and the left king pin and a line through the right tie rod end and right king pin terminate in a "v" at the rear differential, when the front wheels are pointed straight ahead.

Figure 2

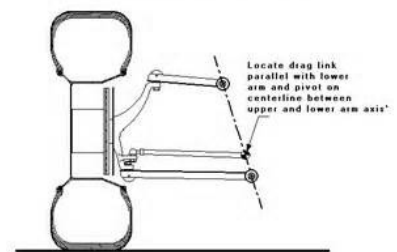


The "v" moves right and left, as the front wheels are turned, but this "v" like the pivot point will always lie on the center line through the rear wheels.

These examples are for a simple steering system with a pure Ackerman effect. In reality some compromises, such as caster, camber, toe in, and drag link placement must be made to accommodate modern steering systems with independent suspension and rack and pinion steering. Even more compromises must be made if you are building a race car or other special purpose vehicle.

Figure 3 shows the relationship between the steering drag link and the lower control arm of a modern steering system. This relationship must be maintained in order to prevent bump steer, excessive tire wear and other strange shenanigans.

FIGURE 11: STEERING LINK LOCATION



Don't know if this article helps or confuses, but maybe it can be a starting place if you are ever interested in modifying your steering unit.

**ARE YOU GOING TO ONE OF THIS FALL'S
CAR SHOWS? WILL YOU SHARE
INFORMATION ABOUT THE EVENT FOR
THE NEWSLETTER?**

**OVER THE NEXT TEN WEEKS THERE ARE
SEVEN SHOWS IN DRIVING DISTANCE OF
OUR CLUB.**

**IF YOU ARE GOING TO ONE OF THESE
SHOWS, PLEASE SEND PICTURES AND A
SHORT DESCRIPTION OF WHO WAS AT
THE SHOW.**