



the fifth wheel

Winner of the 2014 CORSA Tony Fiore Newsletter Competition

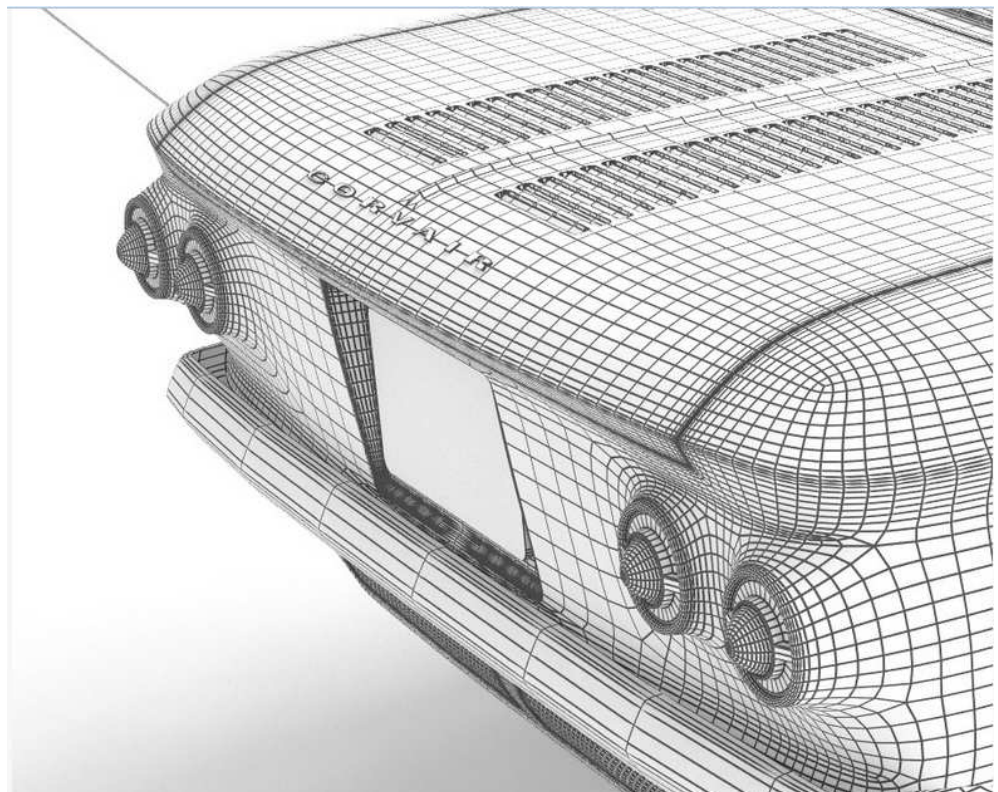
FEBRUARY 2017

[HTTP://WWW.CORVAIR.ORG/CHAPTERS/LVCC](http://www.corvair.org/chapters/lvcc)

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Next LVCC Meeting: Wednesday 02/22/2017

Time 7:30 PM. Place: Lehigh and Northampton Transportation Authority Headquarters (LANta), 2nd Floor Meeting Room, 1060 Lehigh Street, Allentown, PA 18103. Latitude : 40.587607 | Longitude : -75.474405. Bring a guest!

Don't get locked out. If you arrive late, the main door of the LANta office building may be locked. This is for security purposes. But the facility is open around the dock, so ask one of the garage employees to direct you to the second floor.



The Fifth Wheel is published monthly by Lehigh Valley Corvair Club Inc. (LVCC). We accept articles of interest to Corvair owners for publication. Classified advertising of interest to Corvair owners is available free of charge to all persons. Commercial advertising is also available on a fee basis. For details, email our newsletter editor, Allan Lacki, redbat01@verizon.net.

3D PRINTING & MINIATURE CORVAIRS

According to futurist Christopher Barnatt, 3D printing -- also known as additive manufacturing -- turns digital 3D models into solid objects by building them up in layers.

The technology was first invented in the 1980s and since that time has been used for rapid prototyping. However, in the last few years, 3D printing has also started to evolve into a next-generation manufacturing technology that has the potential to allow local, on-demand production of final products and parts.

According to Barnatt, "Already it is possible to 3D print in a wide range of materials that include thermoplastics, thermoplastic composites, pure metals, metal alloys, ceramics and various forms of food."

LVCC member Wesley Heiss teaches 3D printing at Lehigh University and, among other things, has created a number of miniature Corvair models using the 3D technique. At our January meeting, he described the process as "basically a glue gun" that builds up

shapes in layers using a computerized model of the object being produced.

You may be wondering exactly where you can obtain a "computerized model" of a Corvair. Wes makes his own, but amazing though it may seem, there is a software company that will sell you one. The name of the company is "TurboSquid". They offer several Corvair models including a 1964 Monza convertible, a 1969 Monza coupe, the Monza GT and SS show cars, and a Corvair Rampside. (Wes says his Rampside model has more detail than the Turbo Squid version and we believe it). Prices range from \$99 to \$199.

Prices for 3D printing machines have been dropping over the last several years and can now be purchased for around \$800 for hobby usage. Of course, industrial-size units cost much more.

Wes has been using PLA - polylactic acid - as the feedstock material for his Corvair models. In other words, the models that he has been creating are spun out of PLA. The term "PLA" is

somewhat of a misnomer, for the material is really a type of polyester plastic. It is sold as a fiber that comes in spools that are fed into the 3D printing machine.

Most of his PLA Corvairs are in 1/24th scale, but he made a much larger one for his little daughter Tuesday, who is now four and a half years old. It's a Rampside ride-on toy with a seat, rolling wheels, and fully-operational steering. Because it is relatively large, (about 1/8th scale), Wes had to build it up in sections and fasten them together with screws and adhesives, but you'd have to look twice to notice any seams.

JANUARY MEETING NOTES

Our January meeting was attended by Larry Asheuer, Rich Greene, Wes Heiss, Keith Kohler, Al Lacki, Larry Lewis, Scott Oberholzer, Fred Scherzer, Dennis Stamm, Dick Weidner and Bob Weideman.

Dick Weidner presented the minutes from our last meeting and the treasury report for the current period. The club currently has \$1,314.31 in its Wells Fargo account. The minutes and report were approved as read.

Dick also mentioned that he received no nominations for the new year. Dennis Stamm, Fred Scherzer and Dick Weidner agreed to continue in their current positions as President, Vice President and Secretary/Treasurer.

Al Lacki inquired about the low-mileage 1964 Monza coupe that was offered for sale in Ronks, PA last autumn. Dick Weidner was the last person to keep tabs on it, and as far as he was aware, it has not yet been sold because the engine stalls out.



Professor Wesley Heiss with one of his students at Lehigh University.

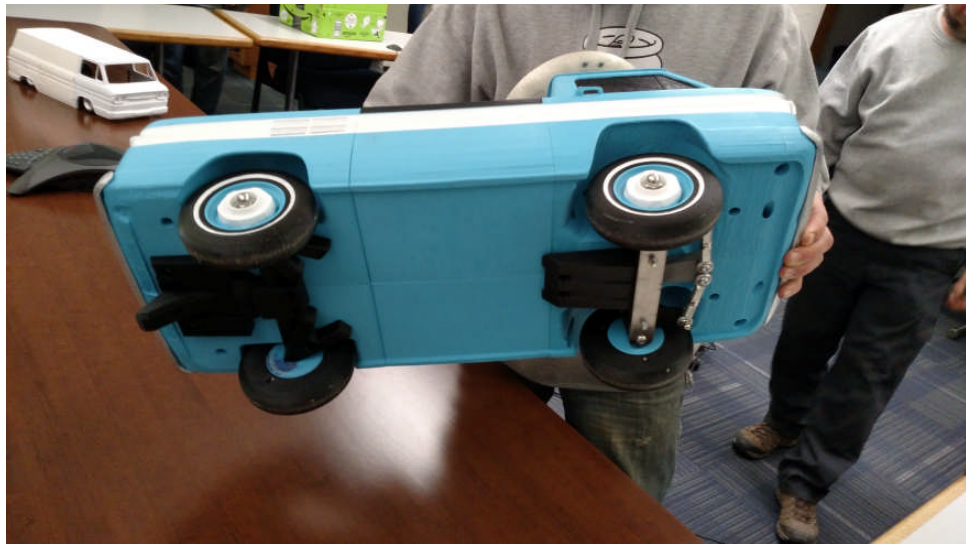
(Continued on page 5)

TUESDAY'S TOY IS A CORVAIR RAMPSIDE

Wes Heiss made this ride-on Corvair Rampside for his little daughter. Her name is Tuesday and she is four and a half years old. Some day, Wes hopes to teach her to drive his full-size Rampside. But in the mean time, this is a good place to start!



Here is the underside of Tuesday's toy Corvair. The steering actually works! The body of this creation is built up from several pieces which are bonded together with screws and adhesives. The whole assembly was too big to print in one whole piece.



Fred Scherzer smiles with amazement! The "cargo" in the back of the Rampside is the seat! No, Wes didn't use any molds to make this neat little vehicle. It was "printed" instead.



Wes is big into FCs. In addition to bringing these scale models, he drove his real full-size Rampside to our January meeting!

Wes creates his own computer models by photographing real objects (such as Rampside and Greenbriers) and sending them to a software vendor who does the conversions.



The level of detail available through 3D printing is limited only by the level of accuracy provided by the computerized model that drives the printer. Grills, vent openings, escutcheons and other trim are rendered as they should be. On one of the models, the door handles stand-off from the vehicle's body so that a miniature human could actually wrap his little fingers around the handle and push the button!



TurboSquid is a digital media company that sells stock 3D models used in 3D graphics to a variety of industries, including computer games, architecture, and interactive training. As of 2014, TurboSquid had over 370,000 3D models in its library, including this 1967 Corvair coupe.



Larry Asheuer, Scott Oberholzer and Dick Weidner attended the Allentown Agriplex swap meeting in January that was listed in our Local Events page last month. Eagle-eye Larry purchased a NOS Corvair Spyder vacuum retard unit for a mere \$10 and a pair of NOS junior-size FC mirrors for \$5 apiece - very rare items that usually command much higher prices. Dick had a conversation at the Lehigh Valley Chevelles booth. They will gladly install Corvair upholstery kits for anybody who is interested.

Rich Greene passed around several 9" x 10" photos of Jeff Marvill's Spyder racing against Rich's and Larry's souped-up Corvair at Maple Grove Dragway. The two cars ran in the 15 to 16 second range.

Dick Weidner passed around a half-dozen Corvair model kits of various vintages, including several rare early-model Corvair kits molded by Palmer Plastics. A number of the kits are unassembled and therefore can command big money at model car swap meets. One of Dick's kits was originally offered to the public through Kellogg's cereals. Send in a box-top from your Raisin Bran with fifty cents and receive a nicely-detailed 1960 Corvair kit! (Such deals are not being offered today).

The star of this meeting was Wes Heiss, who displayed several Corvair models he created using a 3D graphic printer. Wes is Associate Professor of Product Design at Lehigh University and has been teaching students about 3D printing for a few years. One of his Corvairs is a 1/8th scale ride-on toy for his daughter.

NJACE PARTS AUCTION

Here's a good way to relieve late-winter cabin fever. Go to the NJACE Parts Auction!

The New Jersey Association of Corvair Enthusiasts (NJACE) Annual Parts Auction is all set for **Saturday, Febru-**

ary 18, indoors at Ashley's Auto Body on Hillside Avenue in Flanders, New Jersey.

(We'll use the following Saturday, February 25, as a "snow date" if necessary.) At the auction, shameless auctioneers offer Corvair parts and Corvair-related items to the highest bidder, with a 10% commission of the sale price going to the club treasury. You may bring parts to sell, you may buy, or you may do both, or you may just come to enjoy the fun.

Here is what you need to know to fully enjoy this event: First, plan on making a day of it. Due to the nature of how the auction operates, it is not possible to process any buyers or sellers until the auction has been completed. **Doors open at 9:00 AM** for set-up, we begin the bidding at 10:30 AM, take a pizza break at 12:30, resume the bidding at 1:00 PM, and finish up typically around 2:30 PM. Only at that time can we tally the sales, collect from the buyers, and pay the sellers.

Second, plan on getting there early. As we said, we'll open the doors at 9:00 AM, to allow time to tag and display any parts you are selling, and to allow you to peruse the parts being offered. If you're selling, you will need to fill out an Auction Lot Card for each part or group of parts being sold as one, so please allow sufficient time to do this before the start of bidding.

Auction Lot Cards are available on the NJACE website so you can print what you need and fill them out in advance: www.corvair.org/chapters/njace/Auction_Lot_Cards_2017.pdf But you can also get blank lot cards that day.

Each attendee will be issued a Bidder Number by which the auction desk will track all purchases.

We ask that items being offered be limited to Corvair parts or Corvair-related items, only.

Also, we ask that you not bring more

than one of the same item to sell. You can, however, sell multiple items in a "lot." You could offer, say, one lot of six oil filters, instead of six individual oil filters.

Remember that only quality items sell easily. Greasy, rusty, bent and broken pieces have limited appeal.

NJACE will deduct a 10% commission on all sales. You may also donate items for the full benefit of the club.

Did we mention that lunch is included at no charge? Now, what about that "Snow Date?" NJACE will invoke the Snow Date only if the weather makes traveling difficult or if accumulated snow has rendered the Ashley's parking lot inaccessible.

Generally speaking, you can assume that the event is "on," but if it is necessary to postpone, NJACE will be making an announcement on the Corvair Center Forum.

Ashley's Auto Body is located at 274 Hillside Avenue, Flanders, NJ 07836.

See you there, and bring a chair

SIMEONE FOUNDATION AUTOMOTIVE MUSEUM

It's February and we have a way to go before car show season begins. So here's another way to relieve cabin fever!

How about a trip to the Simeone Foundation Automotive Museum? Located in Philadelphia, it's one of the world's greatest collections of racing sports cars. Assembled over 50 years by Dr. Frederick Simeone, the museum contains over 65 historically significant cars including Ferrari, Alfa Romeo, Bugatti, Mercedes, Jaguar, Bentley, Porsche, Aston Martin, Corvette, Ford and more.

And these aren't just modern cars. The

CORVAIR COOKING CORNER!

Raisin Pie

Here's another easy and very tasty recipe from LVCC's very own First Lady, Mrs. Mary Ann Stamm!

*1 cup seedless raisins
2 cups hot water
1 egg
1 cup sugar
2 tablespoons cornstarch
Pinch of salt
1/4 teaspoon nutmeg
1 lemon for juice and rind
1 tablespoon butter*



Soak the raisins in a medium saucepan in the hot water for an hour or more until they are soft and plump. Whisk the rest of the ingredients together and stir into the raisins. Cook over moderately low heat until the filling thickens. Pour the filling into a well-chilled pie crust and sprinkle the top with basic pie crumbs. Bake in lower third of oven pre-heated to 375 degrees for 10 minutes, then reduce heat to 350 degrees and continue baking 20 minutes more.

Basic Pie Crumbs:

*3/4 cup flour
3 tablespoons butter at room temperature
1/4 cup brown sugar
1/4 cup sugar*



Cut the ingredients together with a pastry blender or rub the mixture through with your fingers until a fine crumb results. Sprinkle over the top of the pie filling before baking.



When was the last time you saw a Kissel? This one is on display at the Simeone Museum in Philadelphia.

collection includes many antiques going all the way back to the turn of the 20th century. How about a 1909 American Underslung, a 1912 National Model 40, a 1913 Mercer Raceabout, or a 1916 Stutz Series 4C Bearcat? Do you prefer something newer, like a 1950 Allard J2, 1963 Chevrolet Corvette Grand Sport, or a 1964 Shelby Cobra Daytona Coupe? These and many more are here on display. (Sorry, no Corvairs!)

The Simeone Foundation Automotive Museum is located at 6825 Norwitch Drive, Philadelphia, PA 19153. Hours of operation are Tuesday through Friday 10 AM to 6 PM and Saturday through Sunday 10 AM to 4 PM, all year long. The price of admission is \$12 per person, (\$10 per person for Seniors 65+)

ELECTION RESULTS!

Well, it wasn't really necessary to hold elections this year. Dennis Stamm, Fred Scherzer and Dick Weidner remained unchallenged and so they volunteered to continue in their roles as President, Vice President and Secretary/Treasurer. Many thanks to Dennis, Fred and Dick!

HONORABLE MENTION

This year, our website was ranked in the top five by at least one of the judges in CORSA's annual website competition this year! LVCC was one of three other nearby clubs that were also recognized, including the Western Pennsylvania Corvair Club and New Jersey Association of Corvair Enthusiasts.

SOLD!

We are happy to announce that Keith Kohler sold his 1965 Corvair Monza convertible last month! It was listed in our classified ads.

1965-69 RADIO SPEAKER, by Spurgeon Crosby

Editor's Note: This article appeared in the September 1986 CORSA Communique.

The radio speaker for a 1970-79 Vega / Astre / Monza fits a '65-'69 Corvair. The speaker is 4x10 inches, mounts on the original bracket without modifications, and does not interfere with the defroster ducts. Ask your friendly GM parts person for Delco part 7930571.

AUTOMATIC TRANSMISSION SHIFT PROBLEMS, by Bob Kirkman

Editor's Note: This article appeared in the August 1986 CORSA Communique.

Member Tom Hession had a frustrating problem with his Powerglide automatic. The car would downshift abruptly from drive to low above 50 mph as soon as the gas pedal was released. Then it would hang in low until the power train cooled. Several of us gave advice that was of no help. Tom's own resolution should be interesting to some of our membership.

With the transmission still in the Greenbrier, I removed the valve body, planning on swapping it with another unit. Once removed, I decided to take a closer look at the original to check for free movement of the various valves in their respective bores. All moved freely. What I finally noticed, however, was that the "e" clip that is supposed to be on the throttle valve was missing. I went to the hardware store for one that fit. I then cleaned all parts and re-installed the unit. Success! It now shifts perfectly. All this trouble over a five-cent part.

During this time I heard of two or three other Powerglides with shifting problems. All had a broken clip. My unit was purchased from someone who claimed it was professionally rebuilt. As I never found any trace in the pan of

the clip, I can only assume that it was never reinstalled at rebuild time.

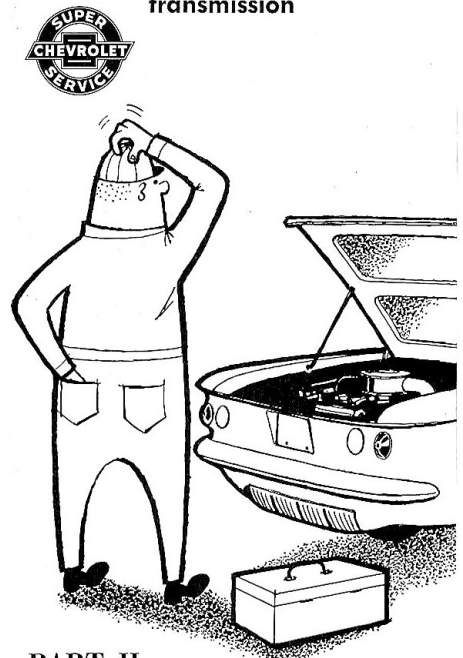
I recall in Finch's "How to Keep Your Corvair Alive" that he mentioned the only trouble he ever had with a PG was a "broken clip." Maybe this was the dreaded "e" clip?

A local Corvair owner I was talking to last week had a similar story: a poorly shifting unit that he decided to rebuild. Halfway through, he found the same throttle valve clip broken. I wonder how many PGs have been replaced or rebuilt for the same reason?

Broken or missing e-clips are one of several potential causes of erratic shifting. Worn governors can cause similar problems.

TOP-60-S & M-4

servicing the Corvair powerglide transmission



PART II

**TROUBLE SHOOTING
AND ON-THE-CAR ADJUSTMENTS**

Lehigh Valley Corvair Club Member Directory

Sorry, but this is a redacted copy. We don't publish information about our members on the internet.

(**) indicates past presidents of the club who continue to receive our newsletters.

LVCC Classified Ads!



For Sale: 1964 Corvair Monza 2-door coupe. 110 hp engine. Powerglide automatic transmission. Goldwood yellow with black interior. Great condition. 77,000 miles. \$7,000. Contact Wayne Troxell, Andreas, PA. (570) 386-4347.



For Sale: 1969 Corvair 500 coupe. 35,000 original miles. Frost Green with black interior. 110 hp engine. Powerglide transmission. All-new brakes, lines, hoses, wheel cylinders, hardware, master cylinder. Rebuilt front suspension. New gas tank, sender unit, sock, etc. Engine resealed, rebuilt carbs, balancer, plugs, cap, rotor, ignitor, coil, heater hoses, heater motor, exhaust y pipe, muffler, tail pipe. New Coker tires, engine wire harness, battery, carpet. All smog equipment hooked-up and works. Runs great. \$7000.00 obo. Call or email Larry Asheuer, Lansdale, PA. (267) 994-1569. a-lcorvair@msn.com



For Sale: 1969 Corvair 500 2-door coupe. 110 hp engine. Powerglide automatic transmission. Garnet red with black interior. Zero rust. Excellent condition all around. 48,000 miles. Hellertown, PA. \$10,000. Lary Lewis, Hellertown, PA (610) 209-0297.

LANta Community Center Entrance



Lehigh and Northampton Transportation Authority (LANta) Headquarters
 Community Center Meeting Room, 2nd Floor
 1060 Lehigh Street
 Allentown, PA 18103

We Meet Here!
 (Entrance to LANTA)

Car Events In and Around Lehigh Valley

November 19 2016 through April 22, 2017 ::: Amore della Strada: Italian Cars

Location: AACA Museum, 161 Museum Drive, Hershey, PA Phone: 717 566-7100 x100. See the latest exhibit at the Antique Automobile Club America (AACA) Museum in Hershey. The array of vehicles ranges from the ordinary, a 1937 Fiat Topolino, to the extraordinary, a one-family owned 1954 Siata 200 CS, Balbo. Rare and unusual vehicles include a 1974 DeTomaso Longchamps Coupe, a 1967 Italia Omega Convertible, and 1977 Piaggio Ape. You'll see iconic cars such as, a 1971 Fiat 850 Spider, 1974 Fiat X 1/9 and 1974 Fiat 124 Spider as well as the more exotic 1978 Ferrari 308GTB and 1995 Ferrari 512M. The Alfisti will delight at the sight of a 1974 Alfa Romeo Montreal, 1974 Alfa Romeo GTV, and 1967 Alfa Romeo GT 1300 Junior. Next best thing to a Corvair show!

Saturday, February 18, 2017 ::: NJACE Corvair Parts Auction

Location: Ashley's Auto Body is located at 274 Hillside Avenue, Flanders, NJ 07836. Time: 9 AM to 2:30 PM. Admission: free. Complete details on Page 5!

Wednesday, February 22, 2017 ::: LVCC Membership Meeting

Location: Lehigh and Northampton Transportation Authority Headquarters (LANta), 2nd Floor Meeting Room, 1060 Lehigh Street, Allentown, PA 18103. Time: 7:30 PM. Bring a guest!

Thursday - Sunday, March 23-26, 2017 ::: Lehigh Valley Auto Show

Location: Stabler Arena at Lehigh University, 124 Goodman Dr S, Bethlehem, PA 18015. Time: 10 AM to 9 PM each day except Sunday. Event closes 6 PM on Sunday. Admission is \$10 per person with discounts for senior citizens and children. This is a show for new cars, not antiques. This year's show will be the largest ever and will feature a new fourth venue to handle the increased volume of cars, trucks, SUVs, motorcycles and ATVs on display. Makes and models from more than 32 manufacturers will be featured. Ride and drive participants already include Ford and Toyota <http://go.activecalendar.com/glvada/event/20th-anniversary-2017-lehigh-valley-auto-show/>

Clark's Corvair Parts®

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SPECIALTY CATALOG - Over 220 pages
SUPPLEMENT - Price list has over 40 pages

Clark's Corvair donates door prizes for our meeting at Das Awkscht Fescht.

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Next Meeting: Wednesday 02/22/2017