



*GGLS now provides sleeping cars in long, extra long and depressed. Try one today!
(photo sent in by Lisa Kimberlin)*

The CallBoy

July 2023

Pat Young CallBoy Editor
10349 Glencoe Drive
Cupertino, California
95014

The CallBoy Newsletter

Official Publication of the Golden Gate Live Steamers, Inc.
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Tilden Park 2491 Grizzly Peak Blvd, Orinda, California 94563	Pat Young, Editor phty95014@yahoo.com July 2023	A 501(c)(3) Non-Profit Corporation www.ggls.org or www.goldengatels.org
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Ombudsperson

Lisa Kimberlin 510-214-2595

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John Lisherness
Jerry Kimberlin (elected March 2015)
Sammy Tamez (elected August 2022)

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Bits & Pieces:	Jeremy Coombes
Boiler Testing:	Jerry Kimberlin
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Grounds:	Andy Weber
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Web Site:	Pat Young

Club Correspondence

All correspondence to the Golden Gate Live Steamers should be sent to the secretary, Matt Petach at this email: secretary@ggls.org

Membership

To qualify for membership, attend 2 monthly meetings. At the first meeting, please introduce yourself and obtain a membership application from Membership chairman or Secretary. At the second meeting, return your completed application, a signed release form, the yearly prorated club dues, together with the \$25 initiation fee and you are officially a member.

CallBoy

Articles, pictures, photographs, items for sale or any other information that would be of interest to the club should be sent to Pat Young, the CallBoy editor at phty95014@yahoo.com

Deadline for submittals to next month's issue is the 19th!

2023 Calendar of Club Sponsored Events

07/09 General Meeting/Board Meeting
07/15 BAEM meeting

08/13 General Meeting/Board Meeting
08/19 BAEM meeting
08/26 Club reserved for John Smith

09/09-10 GGLS Fall Meet
09/10 General Meeting/Board Meeting
09/16 BAEM meeting

10/08 General Meeting/Board Meeting
10/21 BAEM meeting

11/12 General Meeting/Board Meeting
11/18 BAEM meeting

12/09 BAEM meeting
12/10 General Meeting/Annual Meeting/Board Meeting

Announcements

None.

New Members and Guests



John Hulls, a member from back 80's, brought Kathleen and a high track 2-8-2 to our 2023 Spring Meet. The locomotive hadn't been operated in over thirty years but John worked on it, it passed a boiler test and the locomotive ran several loops on the High Track. Hopefully we'll be seeing more of John, Kathleen and the 2-8-2.

Railroad Activities

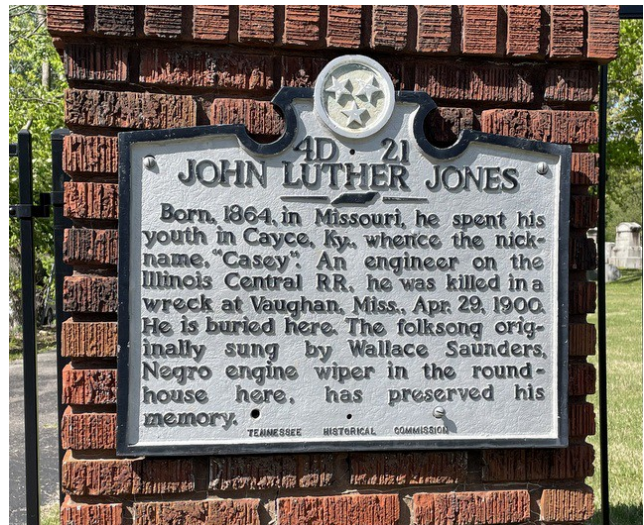
Train, Places Visited in New Orleans, Memphis and Nashville.

From Michael Smith

In the June 2023 issue of the CallBoy, Michael Smith spoke of his family trip to New Orleans, Memphis and Nashville. As promised, here are the photos of that trip.

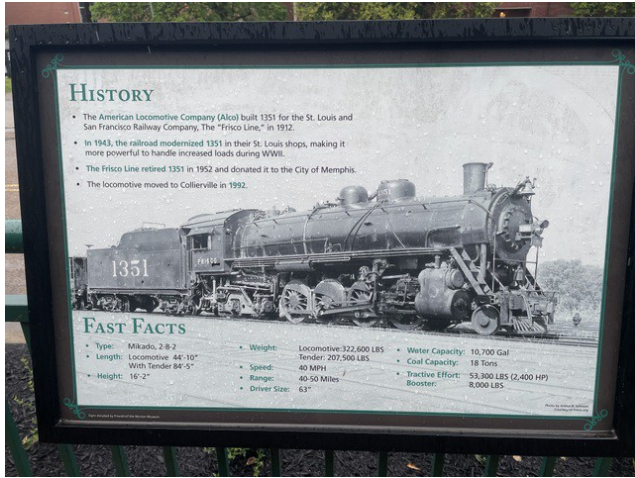


Visited Casey Jones museum, family home in Jackson, Tennessee.



Visited crash site in Vaughan, Mississippi and grave site at a Catholic cemetery in Jackson, Tennessee.





Frisco USRA light mikado and caboose outside Nashville.



Tennessee Central RR museum in Nashville, Tennessee.



ICRR mountain at McComb RR museum in McComb, Missouri.



Riding the St. Charles Street Trolley in New Orleans Louisiana.



0-6-0 in Terry, Missouri along side Canadian National main line.





2 truck Shay on display in Picayune, Missouri.



Train spotting to photograph Canadian National, Norfolk Southern and CSX freight trains along with Amtrak at various locations in Louisiana, Mississippi and Tennessee.



Joined by wife Silvia and daughter Jennifer.

Minutes of the General Meeting

The June General & Board meetings were canceled in favor of supporting the Spring Meet.

Signals Report

By John Davis

Now that the winter rain around the rails has had a chance to dry out, our signal system is more reliable. Since we still get fog & rusty rails, the red occupancy signals may flash, but that means someone is in the next block (or if yellow, two blocks ahead), so proceed with caution.

Bill Smith did a great job repairing the signal bridge before rail switch T43 (outside loop in front of the Tilden station) which collapsed during one of the severe winter storms. But after further examination, it has been determined that the original design of the signal bridge needs more reinforcing. Towards that end, the materials have been purchased and now modifications begin. Until the project is completed, the signal bridge will be out of service until further notice.

The rail switch behind the clubhouse on the inside loop, T02 (diverting to the yard), has been unreliable since being flooded last winter. The actuator has been removed, rebuilt and re-installed. If you have future problems with this switch, post a note on the signals board in the clubhouse.

T30, the rail switch on the inside loop to divert to the siding, Black Diamond mine and other barns has been removed, rebuilt and re-installed. If you experience problems, post a note on the signals board.

I would be interested in training a backup person to work on the signals in my absence. Some electronic or electricity experience would be helpful along with availability on Thursday GGLS work days. If interested, please contact me at 510-915-1696 (text or voice).

Bits and Pieces

By Jeremy Coombes

None this month.

Shop Practice

Propane, an Ideal Model Locomotive Fuel

By Charlie Reiter

Propane gas is not manufactured, it is a fossil fuel separated from crude oil by a process called "cracking". Discovered in 1857 by the French chemist Marcellin Berthelot, and again in 1910, when it was discovered by American chemist Walter Snelling as a component of the then gasoline (he had the good sense to patent it).

Gasoline was at that time sold in gallon sized containers & was very volatile. Buyers complained that they would buy a container and by the time they were ready to use it, about half of it would flash off into the atmosphere. The higher vapor pressure of the propane component in the gasoline would boil off and cause the gasoline to be agitated & vaporize too.

Propane and butane are very alike and can be used in the same burner systems except that propane has a much higher vapor pressure. At 70 degrees Fahrenheit, propane's vapor pressure is 110 psi versus 35 psi for butane. This is why your barbeque propane tank is steel and your pocket lighter is made of plastic. Oddly butane has a slight edge in the amount of heat per volume. In the southern United States the propane you buy has more butane in it especially as a "summer" mix and so if you get your motor home propane tanks filled while on summer vacation in Texas you won't be able to get a flame in Minnesota during Christmas.

Propane & butane are both heavier than air and so they will "pool" in containment like boats or closed bottom rail cars. This is compounded by the fact that compressed gasses leak unnoticed through very tiny openings. With pressures of 100 lbs & above, propane systems have to be durable. Pipes & hoses should be rated for pressure. Propane hose is rated for 300 psi and is physically durable. For our use the propane pressure needs to be reduced and this is accomplished by mounting a regulator at the tank. I recommend barbeque regulators that are adjustable and also recommend a gauge in the line so you know what your pressure is. Barbecues usually run at about 3 pounds pressure and most of the locomotive burners I have seen operate at 5 to 10 pounds of pressure.

PROPANE TECHNICAL INFORMATION:

Propane Vaporization Chart, Properties and Combustion Data

VAPORIZATION RATE - 140 lb. Propane Cylinder (Approx)						PROPANE DATA	
Pounds of propane in cylinder	Maximum continuous draw in BTU/hr. at various temperatures in degrees F.					Properties of Propane:	
	0°	20°	40°	60°	70°	Chemical Formula	C3H8
100	113,000	167,000	214,000	277,000	300,000	BTU per Gallon (Vaporized)	91,690
50	104,000	152,000	200,000	247,000	277,000	BTU per Pound	21,591
00	94,000	137,000	180,000	214,000	230,000	Weight per Liquid Gallon	4.23
70	03,000	122,000	160,000	199,000	214,000	Vaporization Temperature	-44°F
60	75,000	105,000	140,000	179,000	192,000	Specific Gravity - Vapor (Air=1)	1.53
50	64,000	94,000	125,000	154,000	167,000	Specific Gravity - Liquid (Water=1)	0.51
40	55,000	79,000	105,000	131,000	141,000	Vaporization Rate (Liquid to Vapor)	272.1
30	45,000	66,000	85,000	107,000	116,000	Combustion Data :	
20	36,000	51,000	65,000	83,000	92,000	Limit of Flammability, % of gas in air	2.3% to 9.5%
10	28,000	38,000	49,000	60,000	66,000	Air required to burn 1 Cu Ft Vapor	23.5 Cu Ft
						Oxygen required to burn 1 Cu Ft Vapor	4.9 Cu Ft
						Ignition Temperature	300-1022°F
						Optimum Flame Temperature	3537°F
						Vapor Pressure at 0°F	28 PSI
						Vapor Pressure at 70°F	122 PSI
						Vapor Pressure at 100° F	190 PSI

This chart shows the vaporization rate of containers in terms of the temperature of the liquid and the wet surface area of the container. When the temperature is lower or if the container has less liquid in it, the vaporization rate of the container is a lower value.

Propane Vapor Pressure Chart, PSI

	OUTSIDE TEMPERATURE, DEGREES FAHRENHEIT														
	-30°	-20°	-10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°
100% Propane	6.8	11.5	17.5	24.5	34	42	53	65	78	93	110	128	150	177	204
	VAPOR PRESSURE, PSI														

Some data showing the relative temperature pressure relationship and storage capacities.

A propane fire is basically just hot gas. And sure, there is some radiant energy released but nothing like our traditional solid fuels. The biggest problems for the use of propane in model locomotives is poor burner design and a lack of understanding of just what is happening in the firebox. Many burners are mounted just too high. The refitting of a propane gas burner to a coal burning locomotive is generally with the manifold mounted near the level of the original grate with barber jets. This places the flames almost 2 inches higher than the grate. So much of the water legs are heated by conduction, not directly, and add to that is the fact that the cold air flowing into the firebox is now cooling the firebox wall. I suppose you could make a case for "it's preheating the air" but warmer air is less dense. I read a study of model locomotives that claimed that 80% of the heat of a coal fire was transferred in the firebox. You can imagine that it's going to be a lot more evenly distributed with a gas fire.

All of the "science" of smokebox drafting & petticoats is pretty useless for propane. The ideal drafting now is to eliminate the pulsations of the exhaust up the stack and create a low but constant draft. The draft should draw secondary air into the firebox and evacuate the burnt fuel into the smokebox at a rate that just matches the gas burning rate. That's the ideal because with too little draft your fire becomes too rich & stinky as partially burnt gasses choke the fire. Too much draft and you're just wasting energy as the heat that is produced is very quickly evacuated to the smokebox and blown up the stack. The secondary air is the air that is drawn into the burner area around the flames to provide an abundance of oxygen to further complete combustion.

Air of course is a mixture of gasses and the one we need is oxygen which is typically 21% of the air. The other gasses are along for the ride and are a medium to carry the heat. So the super heated gasses want to dump that heat and at 1500 degrees or so, a 300 degree locomotive boiler looks really cool. The challenge is to get enough gas to transfer its heat to the boiler walls without pulling in too much cooling gas. Primary air is that air that is initially mixed with propane gas in the burner to allow the gas to burn well, combining the hydrocarbons with oxygen. It is a reaction that starts with the addition of a little energy (a spark) and then the reaction releases so much heat it is easily self-sustaining.

The burners job is to mix those gasses in the right ratios to release the maximum amount of heat. The volumes of propane-to-air are very different. Remember there is a lot of gas (78%) that is not part of the reaction that also needs to pass through the burner. Hence the great size difference between the gas orifice and the ports supplying the air. Also just to complicate this already complex system, we mix pressurized propane with air at atmospheric pressure. A jet of propane shoots out of the orifice at high speed expanding as it goes and the slight vacuum that is created behind it, drags the air into the burner. Ideally there is just enough, but not so much air, that you diminish the slight vacuum pressure in the mixing area.

Of course we desire a system that has a wide control area, and we control the output of the burner by turning up & down the gas flow. Let me point out that every valve is a pressure regulator, and as we close the control valve the gas pressure at the orifice (mixing jet) is lowered & the gas jet is not as energetic, the vacuum pressure drops and the amount of air dragged into the mix decreases. But it is not linear. The good news is that the system is fairly tolerant of these changes and our use is fairly constant. I mean you use about the same amount of heat constantly unless you are just not using any steam. If your burner was too big then you could find yourself using less heat and operating in an inefficient area where the gas mix will go rich from not inducing enough air.

It seems like the ideal system would be one that turns on the required number of burners as needed (i.e. staged). I built a burner array like that but although the theory was good, burners that are just sitting in the firebox with no cooling gasses flowing through them, melted. So in testing, throttling the gas supply worked as well as the staged burners.

The Burners:

Live steamers basically use three types of burners. Barber jets, Impinged burners & bar burners and that seems to be in order of popularity.

Barber jets are a family of individually mixing units with various sizes & top caps to spread the air/gas mixing different patterns. The most commonly used is the star pattern. By making a manifold with mounting holes, arrays of burners can be created very easily and with some care the results are very successful. The burners need to have enough room around them for the flame pattern to do its job of mixing in the secondary air. For narrow fireboxes a fan pattern can be a better choice with the fans spreading across the width more burners can be utilized. I recently built a burner with a single row of 6 fan burners. Now it's 5 burners because the air coming into the burner caused the furthest burner to be starved & not mix the gasses well. The burner assembly worked better with fewer burners operating at higher levels.



A group of barber jets, star & fan pattern. With a couple jet burners and a propane torch head as well.

Larger fire boxes can benefit from an impinged burner design. An impinged burner utilizes pairs of burner jets that have no spreader caps. The air/fuel mix is a stream and the pair of burners are mounted to cause the gas streams to impinge each other at 90 degrees. In use a ball of flame is formed at the point the streams impinge and this ball of flame uses all the air it needs.

This type of burner is very efficient & clean burning, it also seems to throttle well. This is a time when “crossing the streams” is a good thing. The mounting for the jets is more complicated but burner units made of cast iron are available through the internet. The obvious issue is that this type of burner needs a bit more height in the firebox.



A home made 8 jet impinged burner with temporary gas connection for test.

I recently supplied a friend with a larger impinged burner for a gorgeous antique coal stove that heats his home and we ended up plugging four of the jets to lower the amount of heat. It was already using the smaller type of jet burner but this type of fine tuning made it just what he needed.



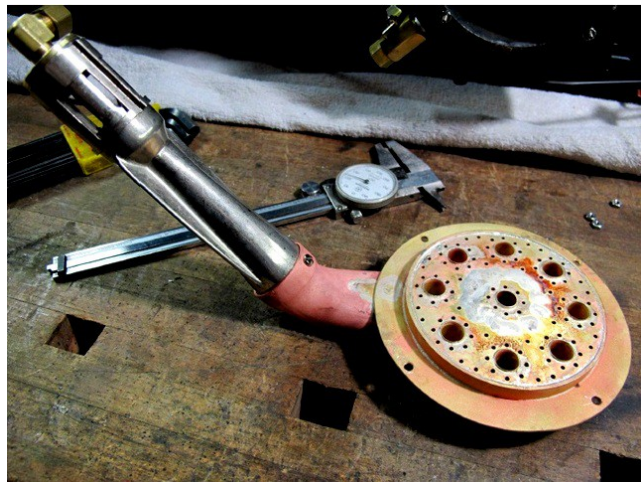
Not quite at full burner.

Bar burners are often seen in stove ovens & barbeques. The style is a piece of tubing with many narrow slits cut into the top surface or rows of perforations. In its simplest form the gas/fuel mix is accomplished at one end with a jet of gas firing through a simple venturi to drag the air in and mix with the gas. This mixture then flows through the perforation slots. The gas pressure in the tube is very low but the flames cannot propagate through the little holes.



A really extravagant & simple bar burner. A 10 jet impinging burner with extra, smaller jets that create less heat. Also a ceramic burner tile & mixing venturis, both home made & salvaged.

Another burner I need to mention is one of my own devising. It was inspired by the need to have a good burner in the very shallow space under a tee boiler, specifically a model of the Mich Cal #2 Shay. Based on the Bill Harris' design there is very little space under the boiler. Harris used a modified version of the Shattock pot burner for liquid fuel vaporization. To mount Barber jets in the firebox would place the burners very high and the air inlets to the burners would be in the area of the fire. I built a burner plenum by making a box with circular arrays of burner holes, each around a center tube that passed down through the plenum to bring a source of secondary air into the circles of flames. The plenum is then fed by a venturi gas mixing system similar to the bar burner. Essentially I just changed the format of the bar burner to fit the space. It works quite well and gets the flames right to the bottom of the firebox. It can be built as a replacement for the ash pan structure. Beyond the Shay, I have equipped a "Speedy" (British design) with it, a vertical boiler unit and another locomotive with a small firebox. All exhibited excellent results. When driven very hard the individual flames on the gas holes cease and the area becomes a mass of burning gas.



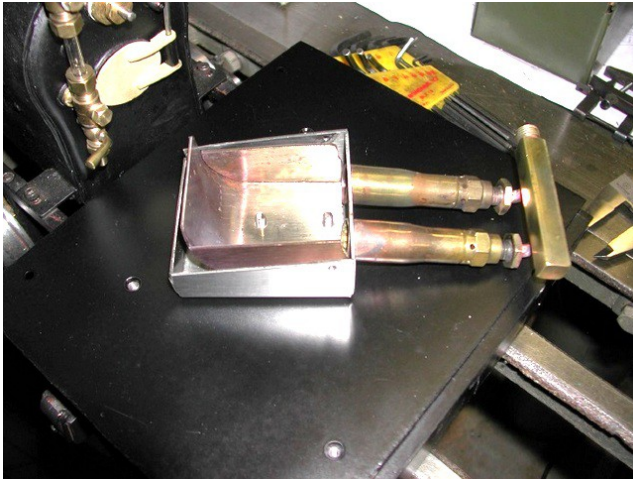
This burner was later replaced with one that was even thinner. The tube to the left is a venturi mixing the gas and air.

There are other types of propane gas burners: radiant types, ceramic & stainless, and jet burners, but they have not proven to be successful in our general size category. Ceramics are often used in G scale sizes and would be a possibility for 2" or 3.5" gauge locomotives.



Here's a ceramic burner in a 4" diameter vertical boiler using a propane torch burner as a mixing system.

Jets burners are fine but noisy. I over burner'ed a Falk 1 locomotive with 4 jets.



Here is a two jet burner for a Tich 0-4-0T firebox. It is made with re-purposed propane torch burners.

Installation:

The parameters of burner installation are driven by many factors. First off we need to remember that everything will get hot. Sounds simple but it is often overlooked and I have seen rubber hose connected to a fitting on the burner pipe. And a length of copper line does not isolate the heat very much, so be sure your controlling valve is up to the requirements. Another often forgotten item is the need to remove the burner for boiler inspection, so the burner assembly should be removable with a couple of screws or pins. That and an easy gas line connection will reward your forethought over & over. The burner needs good access to the air so if anything, open screening is about all you can put across the bottom. I have seen even 50% screens being too restricting and the burner ends up running too rich.

The sort of burner you use is affected by physical requirements. As always the best approach is to see if there is a similar locomotive that is running successfully and evaluate how that would fit to your application. Here is where you have the opportunity to improve on what has been done. Let's also address safety. The output of burnt gas is carbon dioxide (CO₂) and carbon monoxide (CO) for the most part, so only test & operate in a well ventilated area. Also stay aware of the fact that it's an ignition source so be care with volatiles.

Making Burners:

Yes if you're handy in the shop and willing to take on a repetitive task, burners can be successfully built. And they can be modified as well. There are designs for barber jets available and they have been around so long that there are no patent restrictions. I have built all

sorts of burners but lately so many are available that time is better spent on other areas, as long as these burners suit your needs.

Here is an article written by GGLS member Dave August on his very successful method of making barber jets (aka: Marty burners) note the 6 burners for his Little Engine American:

<https://www.discoverlivesteam.com/magazineold/186/index.htm>

And I have to show this, Ken Brunskill was dissatisfied with the Marty burners he made and so he devised another top cap. I've named it the "Brunsen Burner" and it works really well. It took a lot of experimentation but it gives a really good flame pattern.



I suppose the overall point of this article, beyond information, is that more is not always more and care in design & experimentation should be embraced. This coupled with educated operation will give you the reliable & easy steaming you desire.

So why did I say that Propane is an ideal model locomotive fuel? Simply, you can turn it off with the twist of a knob. Heat with an OFF switch.

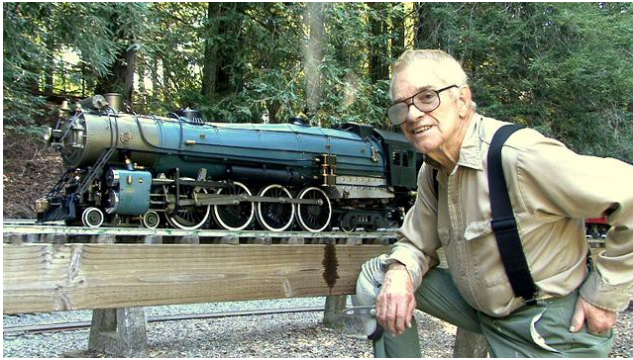
For further reading see

<https://solarflo.com/products/>

This is probably the largest supplier of engineered burners. If you want to buy 500 barber jets or heat full size railroad cars these are the people to talk to.

Mel McDonough's Status

From Bruce Anderson



Hi GGLS, Mel's Family (Stephanie) and Mel's friend from Standard Saw Works (Kim),

GGLS Mel McDonough is okay but is now living in a senior living home. I spoke with him this morning (May 28th) via telephone and he's in good spirits; his regular home phone number works. He's an 85 year old gentlemen whose short term memory got to be a challenge. Good friend Andy Weber updated his situation to GGLS members at the May meeting and I called Mel that evening. Mel was in good spirits and he gave me the contact information for his niece, Stephanie. I've talked to Stephanie three times now including today to get permission to pass on what's in this email.

I also called Pacifica Senior Living this morning to ask about visiting Mel. They advised calling him first to make sure he wasn't away at a doctors appointment, etc. Then, they're pretty much open during normal business hours and I believe you touch an intercom at the driveway gate to get buzzed in — no appointment necessary. I haven't done this yet and will probably pass on more information about this in the future.

I happened to be walking in Oakland yesterday and came across 10th street. Hmm..., Mel used to get his crosscut saws sharpened on 10th street! Strangely enough I found Standard Saw Works in just a few minutes. I asked the young lady behind the counter if the name Mel McDonough meant anything to her. "Oh yes!," Kim responded. I paid for and picked up his four-foot saw, then the two of us passed stories. Mel wished & niece Stephanie agreed that his sawing equipment at GGLS be passed on to GGLS.

Mel said he was exploring his new home. He's got a single room on the second floor in a beautiful setting. Mel is currently enjoying the stationary bike and rowing machine in the exercise room. I haven't gotten to ask if they had a fireplace yet. Mel isn't much into technology, does not watch a television, does not enjoy reading, but enjoys listening to inspirational/religious radio shows.

Important Update: We've been requested by Mel's niece that if we take him out for a field trip, that we do not take him to a bank. Apparently there is a scam going around in his vicinity.

Mel's contact information:

Mel McDonough
c/o Pacifica Senior Living
2361 East 29th Street, #236
Oakland, CA 94606-3511

phone: 510-533-4370

eMail: Yeah, who are you kidding!?!

Video Recommendation of Mel's 4409 Locomotive



Video: Mel & #4409 following its restoration (13:11 min.)

A 13:11 minute YouTube video by author Bruce Anderson titled "GGLS 4-8-4 Northern #4409 Rebuild" with the following description:

"After 18 years of service, a Little Engines ¾" scale 4-8-4 Northern goes into the shop for a major rebuild. Following 13 months in the shop, its operator, locomotive, track, and community have been reunited. Hallelujah, welcome back 4409! And many thanks to all that contributed towards this project!"

This video can be found at:

<https://www.youtube.com/watch?v=WQmzoTYQdmM>

Seen at the Track



Mother's Day flowers raised by maser gardener Jo Ann Miller
(photos sent by Shanna O'Hare)



Shanna bakes Walter a cake



Walter's 80th -- Walt's actual birthday was June 3rd.
His family had a party for him at Train Mountain, so we celebrated
his birthday the following Thursday with this cake.



Shanna & Finley enjoying a ride around the track at the June 10
Meet in Walt's RGS Goose



Walt doing his favorite job -- replacing signal jumpers!
(photo sent in by Rich Croll)

Video Recommendation

Great Dorset Steam Fair

From John Faucon

Here are a few links for the Great Dorset Steam Fair (GDSF) the largest steam fair in the world. It went from a few acres in 1968 or 1969 to over 600 acres in 2018 or 2019 and is held much like an American county fair in August, each year. They use hard coal because it is cheap and abundant in the United Kingdom, but one notices the tall smoke stacks at the fair because people don't want to smell or take in coal dust.

They also included a memorial to World War 1, where they used very large traction engines to move heavy tanks & equipment. At the Great Dorset Steam Fair (GDSF), there seems to be a set up every year for World War 1 with military fox holes, trenches and reenactors in uniform with World War 1 military vehicles near by or in the clips. Some links have more clips than others, and there are multiple links for the same year, based on the cameraman's interest/bias. One clip in the list may have a country singer cut in with sound while viewing scenes at the fair (GDSF) so turn it off sound, if you don't like it.

There are also other fairs not as large, but near the same time of the year, who get repeat steam engines appearances that go from fair to fair. The Great Dorset Steam Fair (GDSF) has been going on for just over 50 years (about 1968-2018) so there is more to chose from. I have attached a layout of the 2022 fair so you can see just how large it really is and people come to the fair from all over the United Kingdom & beyond. Many have to take buses from the local towns because there is not enough parking at the fair.

Enjoy,

Happy Steam Trails!!

John F

Here are the links that was mentioned:



This convoy is on its way to the Great Dorset Steam Fair (GDSF) [Aug 11, 2018]

<https://www.youtube.com/watch?v=4GMITokuHN4>



The GREAT DORSET STEAM FAIR WW1 Homecoming convoy, entering Blandford.

<https://www.youtube.com/watch?v=8GLVEVPvMCc>



Great Dorset Steam Fair 2019

<https://www.youtube.com/watch?v=uUj607dBh8>



WW1 Trucks and Logistics I THE GREAT WAR On The Road

<https://www.youtube.com/watch?v=W6Wvjm9Pks>



The GREAT DORSET STEAM FAIR WW1 Homecoming convoy, entering Blandford

<https://www.youtube.com/watch?v=3-3RK7YUDSc>

Finally old enough
to do anything I want.
Too tired to actually
do it.



Castle Farms Model Trains

Submitted by John Faucon

How Michigan's largest Outdoor Model Railroad found its home at a castle

Updated: Aug. 13, 2015, 3:00 p.m.

Published: Aug. 13, 2015, 2:00 p.m.

By Bradley MacDonald



Linda Mueller acquired Castle Farms of Charlevoix in 2001 and began an extensive restoration project. At the start of the renovations, implementing what would become the largest Outdoor Model Railroad in Michigan was not originally in the plans.

NOTE: Short version of Castle Farms History - Built in 1918 by Albert Loeb, the acting President of Sears, Roebuck, and Co. as a model dairy farm, Loeb Farms was modeled after the stone barns and castles found in Normandy, France.

(<https://castlefarms.com/visit/castle-history/>)

The French Renaissance-style castle features trains in a special role in its history. Ernest and Allen Loeb, sons of Sears' president and former owner of Castle Farms (<https://castlefarms.com/>), Albert Loeb, loved playing with trains as children in the early 1900s. As adults, they even spent considerable time together in Chicago working on train layouts.

Both eventually had kids and would host train parties for them. The passion for trains between the two was evident, and for two modern-day brothers it served as the fuel for building the Outdoor Model Railroad (<https://castlefarms.com/visit/things-to-see-do/model-railroad/>) at Castle Farms.

Mueller's husband, Richard, and his brother Glenn also enjoyed playing with trains growing up. Glenn created the scenery while Richard built the complicated track layouts. As grandfathers, they decided it was time to get back into model trains -- but this time they opted for outdoor garden scale trains.

Their creative efforts culminated into Castle Farms' Outdoor Model Railroad in 2008. It was designed to feature Charlevoix's rich railway history from the 1890s through 1950s. It includes replicas of the Pere Marquette 1890s era steam locomotive, the famed Charlevoix Depot and the historic railroad swing bridge.

The railroad is a hit for all ages, as trains steam across bridges, through tunnels and around a cascading waterfall into a live fishpond. A Victorian tower bridge with two separate towers offers guests a bird's eye view of the trains and tracks.

2010 saw a railroad expansion with the Fantasy Railroad addition -- a 26-foot-long bridge, Double Helix Tornado Tower and Five Level Twin Coaster. This addition doubled the railroad's size. Today, more than 70 G-scale engines and 160+ G-scale trains operate on seven separate levels, moving across more than 2,000 feet of track.

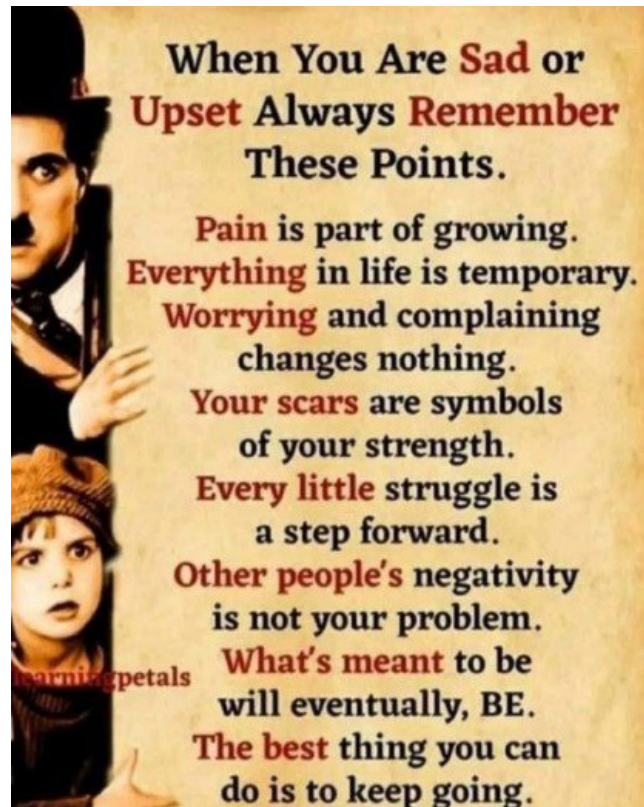
New additions for 2015 include four sections of track and the ability for children to ride small trains. Castle Farms encourages hands-on play and learning.

The Outdoor Model Railroad only adds to the fun of a Castle Farms visit. During your visit, you can explore the grounds, check out antique toy displays, peruse the 1918 museum and more. The 2012 Art Prize finalist, Norm the Dragon, also guards the Castle from his post in the Dragon's Lair garden.

From historic buildings to stunningly landscaped gardens and giant chess sets to giant model railroads, a Castle Farm visit is unique, fun and beautiful.

Castle Farms is open year round, daily 9 a.m. - 4 p.m. (May-October) and Monday through Saturday from 9 a.m. to 4 p.m. (November-April).

Learn more at <https://castlefarms.com/>



For Sale

Metal Shop Tools & Materials
June 27, 2023

Due to illness and an upcoming move, I am selling my metal shop. This is a complete shop suitable for model engineering. The essential inventory is listed below.

MILLING MACHINE JVM 836-3W/ X POWER FEED
WEIGHT 1600 LBS
230 V SINGLE PHASE INPUT
INCLUDING:
XY DRO
TECO VFD (VARIABLE FREQUENCY DRIVE)
KURT 5" MILLING VISE
ROTARY TABLE W/HORIZ INDEXING
SPIN INDEX
HOLDOWN BOLTS

METAL LATHE - TAIWANESE 12X36
WEIGHT 900 LBS
230 V SINGLE PHASE INPUT
INCLUDING:
3 JAW, 4 JAW CHUCKS
FACEPLATE
FIXED AND TRAVELING STEADIES
XY DRO
ALORIS TYPE TOOL HOLDERS
5C COLLETS
COLLET CHUCK/CLOSER

ENCO 4X6 POWER HACKSAW

12 FT WORKBENCH

ENCO 1/2 INCH BENCH DRILL PRESS

12,000 LBS HYDRAULIC PRESS

2 EA 6" BENCH GRINDERS

8 " BENCH GRINDER

OXYACETYLENE TORCH (WITH SMALL BOTTLES)

LARGE HEAVY DUTY METAL WORKING VISE

MISC MACHINIST'S MEASURING TOOLS

MISC MACHINIST'S HAND TOOLS (FILES, TAPS/DIES,
ETC.)

ASSORTED CLAMPS

RAW MATERIAL (HOT ROLLED AND COLD ROLLED
STEEL, ALUMINUM, COPPER, BRASS, PLASTIC

All for \$5,000.

Contact Richard Lundberg for further details or to
arrange a visit.
415 299-0983,

For Sale

GE 25-ton Switcher
April 3, 2023



A 7.5" gauge gasoline powered 4-wheel switcher and has about 50 hours of use. It fire up easily, runs with no trouble and has a fiberglass shell.



About 200 pounds in weight, it is easy to transport and a great runner for someone starting out with in the hobby!

This locomotive can be seen at the Golden Gate Live Steamers club facility in Tilden Park, Berkeley California and a test run can be arranged.

Price: \$2,500 firm.

If interested or for more information, please feel free to email Chris Smith at:
cmsmith1@mail.sfsu.edu

For Sale
Shop Equipment
March 1, 2023

Chinese Drill/Mill 1/2 hp, 220 VAC motor, 1.5: x 22" table with vise, end mills, collets, drill chuck, boring head with boring tools

Taiwan Engine lathe, bench type, 7" swing, 9" gap bed x 18" between centers, 1/2 hp, 110 VAC motor, quick-change gear box, turret-type tool post, face plate, 3 & 4 jaw chucks, steady rests, miscellaneous cutters.

Arbor press, 2-ton capacity

Craftsman drill press, floor type, 1/3 hp 110 VAC motor, 7" swing, 1/2" capacity.

Enco Metal cutting band saw, horizontal & vertical 1/3 hp 110 VAC motor, 4" x 7" capacity.

Sears Radial arm saw, 10" blade, 3/4 hp 110 VAC motor with extra blades. Needs repaired but priced to sell.

Air compressor, 3/4 hp 110 VAC motor with 50' hose.

Victor Ox-acetylene welding/cutting set, including small tanks, hoses.

Portable tool cabinet & machinist tools.

Miscellaneous hand tools.

All this can be viewed in Walnut Creek.
If questions or interested in any of these items, please contact:

John Munro
Walnut Creek, California
94596
(925) 946-9286