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# THE ENCHANTMENT FLYER

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OFFICIAL PUBLICATION OF THE TIN LIZZIES OF ALBUQUERQUE

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Larry Azevedo working on a lathe in his Shop. He is making final adjustments on the brake drum bushing during rebuild of the Duncan 1926/1927 engine. See Cover Story Page 3.  
*Photo by Paul Duncan, December, 2020*

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*The Enchantment Flyer* is the official publication of the Tin Lizzies of Albuquerque Model T Club. The purpose of the newsletter is to share written communication among the Club members that enhances content posted on the Club website and/or circulated via email. The Editor welcomes contributions by all Club members, especially Officers and Directors who manage the Club between General Membership meetings and Committee Chairs.

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The Tin Lizzies of Albuquerque is a Chapter of the Model T Ford Club of America. Membership in MTFCA is encouraged but not required. Contact the Tin Lizzie Membership Coordinator for more information.



## Tin Lizzies Member Dues

*by Paul R. Duncan, President*

## President's Message

We have recently concluded the annual dues-renewal cycle for the Club. There are 97 Active memberships in February, 2021. Last year at this time, we had 102. During 2020, we welcomed 13 new memberships into the Club. Fifty percent of the current Active memberships have joined the Club during the past 6 years. There is no question that our Tin Lizzie Chapter is a thriving organization.

Club Dues! No one likes to pay dues even though dues are the life blood of so many organizations in which we all love participating. So, what is the reason about a third of the members wait until the last possible moment to send in our payment?

Habit? Yes, in part. Sometimes we forget that those of us who help run the Club are all volunteers. Our Treasurer and Membership Coordinator is a volunteer who works hard to collect dues and to handle the financial transactions of the Club. Dues provide around \$1,000 each year that more or less sustains the basic operation of the Club.

The amount and schedule for the annual dues renewal is spelled out in the Club Bylaws in Article IV. Single membership dues are \$12 and a family membership is \$15. Annual dues are to be paid no later than January 31. The amount of the dues have been unchanged since the late 1980s! The Club financial cycle actually runs on the calendar year, January 1-December 31. Currently, 30 or approximately one third of the Club membership are Life Members either because they have reached 80 years of age with 4 years of Club membership or have made a one-time Paid Life Membership (\$150).

Around mid-February, the final Active Chapter Roster must be sent to the Model T Ford Club of America for review to receive their free annual

Liability Insurance for our Club. The MTFCA requires that  $\geq 50\%$  of the Chapter memberships and all of the officers and directors maintain membership in MTFCA.

There are 60-70 separate annual dues to be collected each year. Of that group, there are always around 15-20 members who still have not paid their dues renewals the end of January or even early February. I have observed the time Marilyn spends calling and emailing reminders to members that their "dues are due."

Currently we send out several general email dues reminders to all Club members. Then follow-up with personal emails to those who have still not renewed their dues. In addition, there is dues reminder information published in the winter newsletter editions.

I want to offer some additional suggestions on how we might be able to reduce the time that our Treasurer and Membership Coordinator spends on collecting and processing dues from the Club membership.

First, we could encourage members to pay for multiple dues years at a time. The membership might even offer a small discount for making a three-year dues payment.

Also, we can encourage all members who plan to remain in the Club for the "long haul" to purchase a Paid Life Membership sooner than later. Life memberships include a member and their spouse. Once becoming Paid Life Members, they pay no additional dues during their combined lifetime.

Please give me some feedback on this issue.

## Technique for Precise Engine Rebuilds in Larry's Shop

by Paul Duncan

Cover Story

Following the COVID-19 "Lock down" and restrictions on group gatherings, Larry re-opened his shop for small groups in July. During our "stay at home time", Marilyn and I discovered that we finally had time to work on one of our previously-delayed Model T projects. We found that the engine in our 1918 Model T Touring Cut-Off had no compression. Fortunately, we had a late-model engine purchased several years ago from Brian Dean that could be a more practical engine to restore. Ten years ago, we had restored our 1920 Touring T engine when Larry first began restoring engines for Club members in his Corrales Shop.

Since then, he has rebuilt 35 engines. The process in 2020 was similar with regards to using oversize pistons and valves. I soon realized that there was a major difference how we did the flywheel, magneto and transmission rebuilding balancing and alignment. Although the 1920 engine, transmission and magneto were in better condition, Larry explained that over the intervening 10 years he has improved and refined his techniques regarding alignment of the transmission. He told me that he had discussed these alignment techniques with Mike Bender in Tulsa. He referred me to Mike's website: [www.ModelT-Tips.com](http://www.ModelT-Tips.com) that is on YouTube. These Model T Tips are well done and include lots of important information about the restoration process of a Model T engine and associated components.

I asked Larry to explain some of the secrets of the Model T's mechanical success that he had learned over his 50 years working on them. He said: The use of **precision measurement techniques** was a major reason for Henry Ford's success. He went on to explain the role that a Swedish engineer, Carl Edvard Johansson (1864-1943), had on Henry's thinking. Johansson invented the gauge block set, also known as "Jo Blocks." In 1923 Ford purchased Johansson's company. Ford had used the technology that Johansson had first pioneered in Sweden in 1896 and patented in 1901.

In a publication titled **The Ford Industries-Standards of Standards** it is stated: *Production methods used in the manufacture of Ford automotive units require that every part must be machined within close predetermined limits or variations in size, so that when they are delivered to the assembly line in domestic or foreign plants or use by Ford dealers for replacements, component parts will go together with the proper fit to*

*obtain the best results from the assembled product. The accuracy specified on all parts of Ford automotive units is accomplished and maintained through the use of commercial and specially designed apparatus known as machine tools. Jigs, fixtures, production and gauging tools that have been certified as to size with master standard gauges are accurate within less than 4 millionths of an inch. The production of parts as outlined above is known as **interchangeable manufacturing**, which means that all parts required to make two or more complete units can be assembled without preliminary fitting or checking.*

In movies of the Model T assembly produced by Ford Motor Company (see Book Review p.7) one observes the workman reaching into boxes of parts on the assembly line and

assembling the transmission. They don't take the time to check the fit because they know it will fit and run as designed. The precision gauge blocks mentioned above are called Johansson gauge blocks. At the time, they were the 'World's Standard of Measurement of length and have no counterpart in science or in industry.

The more I am around Model T's, I continue to learn that the Model T, although mass produced, was a finely-tuned machine made with precision. With proper attention to detail in the shop today, one can obtain that same or better precision. Larry emphasized the steps he is now taking to be absolutely sure in the concentricity of the transmission shaft, for instance. When we recently bolted the transmission shaft flange to the flywheel, we had less than the diameter of a human hair (3 thousands of an inch) runout or essentially an absolutely straight and perpendicular shaft in relation to the crankshaft flange. This was his goal. I understood a lot more about the measurements having reviewed Mike Bender's YouTube presentations. We also replaced both the Reverse and Brake drums with new ones from Dave Nolting's shop in Ohio because the original drums were both cracked.

Many readers know that Larry Azevedo worked at Sandia Laboratories for 30+ years. He earned a Ph. D in solid-state physics from UCLA and during his first years at Sandia worked in low temperature research. For his last twenty years he put his objective and mathematic skills to use as manager of measurement standards at Sandia. This lab certified the accuracy of all measurements undertaken across the U.S. Department of Energy.



Checking the concentricity of the transmission shaft with a dial indicator gauge. Photo by Paul Duncan



**Minutes of January 28, 2021 Virtual (Zoom) Meeting***David Ferro, Secretary***Minutes**

**Call to Order:** President Paul Duncan called the meeting to order at 7:06pm. Following the Pledge of Allegiance, roll was taken confirming those participating (20 members) constituted a quorum.

**Review of Minutes:** The minutes of the December 10, 2020 virtual meeting as published in the November-December 2020 newsletter were approved with no objection.

**Treasurer's Report (Part 1):** Treasurer Marilyn Duncan reviewed Club revenue and expenditures for 2020 and indicated that the annual financial audit would be conducted by Janice Gauna in February. There were no questions about the report. Treasurer Duncan noted that Club membership reached a high of 111 in 2020 and, to date, 88 members have paid 2021 due or those dues have been waived. Another 11 members have indicated that they will be renewing their membership. The 2021 Club roster is due to MTFCA in February.

**Recent Work at Larry's Garage:** President Duncan briefly reviewed ongoing projects at Larry Azevedo's garage. These included: Paul Duncan's and Don Neidig's engine rebuilds, Kirk Petersen's continued work on his entry for the Montana 500 (Buster), Dave Ferro's speedster project, and Tim O'Brien's firetruck pump.

**Board Meeting Overview:** President Duncan provided an overview of the issues covered during the January 17 virtual Board meeting. The main point of discussion at the meeting involved possible addition of a section to the Bylaws authorizing electronic meetings. With unanimous support from the Board, President Duncan appointed Treasurer/Historian Duncan and Board Member Mark Dominguez to develop a proposal for Board consideration. It was noted that the latest edition of Robert's Rules of Order includes a section on electronic meetings which could be used as a model. With Board concurrence, the proposed addition to the Bylaws will be presented to the general membership within the next couple of months and will require a 2/3 majority for adoption.

The second major point of discussion was whether the Club should open a one-year Zoom account to facilitate electronic meetings. This would alleviate the complications associated with time-limited free Zoom access. The Board voted unanimously to expend \$150.00 to purchase a one-year Zoom membership. It was noted that this new Zoom capability could provide meeting access for out-of-town members even after in-person meetings resume. This meeting was our first on this new account.

Also at the meeting, it was decided that virtual meetings will continue on the Club's regular meeting schedule. There were no member comments following President Duncan's overview.

**2021 Activities:** President Duncan summarized plans for possible 2021 Club activities:

- a. Socorro Tour—Frank Lewark reports that planning is well underway for a September 2021 tour.
- b. Return to Espanola with base at The Inn of the Delta, with possible visits to Truchas and Las Trampas, Puye Cliff Dwellings, The High Road to Taos Scenic Byway and a return to Los Luceros.
- c. One-day "mystery tour" Vaughn Rockafellow and Dave Ferro are planning for late-March/early-April 2021. Vaughn gave a brief description of the plans, which still lack an ending destination.
- d. Continuing to support individual members getting their T's roadworthy. Bob Hawk noted that he may finally be able to get his car into Larry's garage for needed work this year.
- e. Continued support of Valencia High School auto shop program under direction of Anthony Chavez. While no program sessions are possible currently, President Duncan reports that the school is anxious to get moving on their T project. Mark Wing reported that the local chapter of the Horseless Carriage Club of America was recently disbanded and its assets were donated to the Valencia High School program.
- f. Other possible activities include State Fair participation, December parade in Corrales and Holiday plans. These will be discussed further at a later date. It was noted that Rich Ford is putting off events until summer.

Mark Dominguez asked if we will be conducting a drawing again this year for a MTFCA membership. President Duncan indicated that we will at the February 25<sup>th</sup> meeting.

**Proposed 2021 Budget:** Treasurer Marilyn Duncan presented the Proposed 2021 Budget. Following an explanation of the proposal, Tony Schroeder moved that it be approved. Mark Dominguez seconded the motion. There being no discussion and no exception to the proposed budget, it deemed to have been passed unanimously.

**Other Announcements:** Mark Wing reported that he thought that the Chickasha OK swap meet is "on" for this year in mid-March. Linda Riel reported that Dennis Snyder (Rich Ford) will have an anniversary event in March, but it is unclear if it will include car club participation.

**Adjournment:** Tony Schroeder moved for adjournment and the meeting was adjourned at 7:38pm. A social period followed the meeting.

Respectfully submitted by David Ferro, Treasurer

*by Marilyn Duncan, Membership Coordinator*

## Membership Update

**Memberships for 2021:** Since the last newsletter, the membership dues renewal has recently been completed for 2021. The Active Roster currently has 97 Active memberships to

start out the new dues year. The updated Roster has also been submitted to MTFCA for the Liability Insurance review and will also be circulated to the membership via email.

### In Memory:

**Ben Abeyta**, new member during 2020 passed away on August, 11, 2020 at the age of 84. His wife JoAnn informed us that his Model T Truck has recently been sold to a close friend who lives in Albuquerque.

**Agnes Lauritsen**, age 102 who recently donated her son Don's Model T to the Tin Lizzies, passed away at her Albuquerque home on January 1, 2021.



**March Birthdays:** Vernon Armstrong; Larry Azevedo; Faith Carmody; Spike Clapper; Hedy Dunn, Jock Finley; Medora Gaines; Stan Gauna, Bob Hawk; Bob Ross; Chris Otto; Tony Schroeder; Liz Scott; Jahn Wright

**April Birthdays:** Lorna Azevedo, Jocelyn Bauer; Brendan Burke; Joe Fellin; Gerald Hash; Bob Jackson; Tom Miles; Ken Rowland; Scott Stuart; Bernice Young

**March Anniversaries:** Bill & Donna Hansen; Mark & Susan Wing

**April Anniversaries:** None

*by Fran Gurule, Hospitality Chairman*

## Hospitality January-February 2021

### Cards sent 2021:

**January:** Mark & Susan Wing, sympathy Mark's father passing; Bruce Daniel, get well

Jo Ann Abeyta, sympathy her husband passing

**February:** Dave Merewether, get well

*by Marilyn Duncan, Treasurer*

## Donations

In January, Tin Lizzie member **Gene Barnhouse** donated a black and white porcelain street sign from his father, Bill Barnhouse's collection along with several other parts for the Free inventory. The sign has been installed at Larry's driveway.

In addition, **Don Neidigk** donated a Tin Lizzie Family Gift Membership to be "used as a surprise for someone who has been especially kind or helpful to another member." The Board will decide how this will be awarded.



## Larry Azevedo's Garage Gossip

*Editorial Comment: Larry Azevedo has contributed 31 different **Garage Gossip** columns to the **Enchantment Flyer** over the past 20 years. This Model T Garage story is reprinted from **The Enchantment Flyer**, Vol 22, No. 10, October, 2001, p. 3. Quiz for Guys Only: What IS a "camisole" anyway?*

My lovely spouse has a unique talent for selecting names for my tools and other garage items. It seems that all screwdrivers whether they are Phillips or slotted are known as **SCREWDRIVER**. All wrenches whether they are open-end, box-end, combination or crescent are known as the **WRENCH**. I have found that it does no good to try to identify which type of wrench I need fetched, much less the size!

She, however, gets even by using the work "**darn**" when referred to sewing socks. That word for me is the polite company version of what I say immediately following striking my thumb with a hammer. Then she hits me with "**camisole**" which I have no idea what it means! But her granddaddy catch-all term that she uses in cases of garage emergency is **DOODAD!**

**Be Prepared to Fix Your Model T Out on the Road**

by Paul Duncan

## Model T Repair Kit

(1)**Tire Repairs:** tire pressure gauge; jack; 5/8" socket wrench for demountable lug bolts; tire irons to remove tire and tube from rims; tire patch kit; Model T hubcap wrench; 30 x 3 1/2" metal stem tube; tire pump (battery, manual or pressure tank for tire inflation.)

(2)**Cotter Pins:** selection of key sizes

(3)**Volt Ohm Meter**

(4)**Spark Plug & Wire**

(5)**Spare T Coil or Single Coil** (6 or 12 volt) for distributor

(6)**Small Roll of Wire**

(7)**Spare Timer:** Anderson or New Day

(8)**Ford Wrenches:** Used to adjust transmission low band (outside) and other adjustments using special wrench inside. Common sizes of nuts: 1/2", 9/16", 5/8"

(9)**Model T Service Manual**

(10)**Spare Radiator Cap & Oil Drain Plug**

(11)**Battery Charger**

(12)**Distributor Rotator**

(13)**Assortment of socket sizes, crescent wrench, screwdrivers, large channel locks**

Listings Coordinated by Marilyn Duncan

CLASSIFIED—FOR SALE

*John's*

MODEL T FORD PARTS

5313 John Thomas Dr. NE

Albuquerque, NM 87111

{ 505 } - 294 - 4434

**1926/1927 GAS TANK** for a roadster or touring, no rust, very good condition, \$75

**1926 Four WOOD WHEELS** with new bolts/nuts, good hubs, \$275.  
Six straight SPLIT RIMS, 1 with lock, \$250.

## Henry Ford's Moving Picture Show, Vol. 1 (1914-1920)

Phillip W. Stewart

Paul Duncan

Book Review

How often does one enjoy viewing old movies of historical events? I certainly do! Would it surprise you to know that in 1914 the Ford Motor Company (FMC) released a professionally produced 35mm film titled: *"How Henry Ford Makes One Thousand Cars a Day"* to advertise and educate the public about his Model Ts.

In 1913 Henry Ford purchased a movie camera that had been invented by his friend Thomas Edison. Ford recognized the potential of moving pictures for his company. He instructed the head of advertising at FMC "to set up a moving picture department." The department grew to a full time staff of 25 utilizing the most modern movie equipment. Henry wished not only to educate his work force but the public as well.

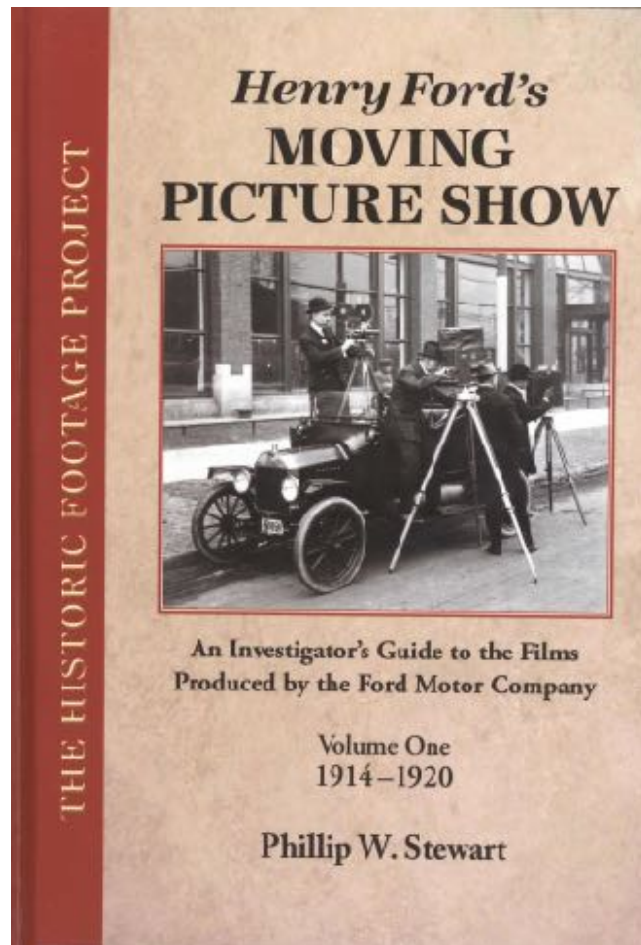
One of their first major projects was the *"Ford Animated Weekly."* In late 1916 it was changed to the *"Ford Educational Weekly."* FMC offered these films to movie theaters at no cost and were non-commercial except for a "Distributed by FMC" on the title graphic. The book author Phillip Stewart notes that "the Ford films are shown at more that 3500 theaters and it is likely they are viewed by four to 5 million people each week." He also describes that "between 1915 and 1920 Henry Ford was a **Movie Mogul**, overseeing one of the largest motion picture production and distribution operations on the planet."

In 1962 FMC transferred all rights to their surviving 1,800,000 feet of motion picture film to the **National Archives and Records Administration** (NARA). Henry Ford was very much interested in preserving Americana and he undoubtedly would be pleased. In Volume 1, the author has organized 935 of the FMC

films by title, year of production, length and a brief summary of the content. Some of these films are currently available on YouTube and other postings on the Internet. The author outlines how an interested person may obtain copies of these rare and historic films. The author also describes more about this book and others he has written on his website: <https://www.pwstewart.com>. He has posted information about all of his Books as well as links to Articles he has written, including several dealing with the Henry Ford movies.

There are a few copies of this limited-publication book listed on Amazon and a copy is in the MTFCA library in Richmond, IN. This book is an example of what an

inquisitive mind can create when researching a single topic. The copy of Stewart's book that I read for this review was loaned by Tin Lizzie member Tom Miles who thought that a book review on the FMC movie production would be of interest to Club members. I agree, it is a real addition to our Henry Ford knowledge.







by Marilyn Duncan

Model T Ford Club of America

**MTFCA Major Events:** See *The Vintage Ford* magazine for more information.

**2021 National Tour:** July 9-14, Spokane, WA. Online link: [spokanemodeltclub.com/2021-national-tour](http://spokanemodeltclub.com/2021-national-tour)

**2022 National Tour:** July 19-24, Fond du lac, WI: Hosted by Dairyland Tin Lizzies

**The Tin Lizzies of Albuquerque, a MTFCA Chapter offers a 1-year local dues waiver to members who join MTFCA as New members.** Contact Marilyn Duncan, Membership Coordinator for more information.

**MTFCA Contact Information:** PO Box 996, 309 N 8th St, Richmond, IN 47375-0996, Phone (765) 373-3106, join or renew (\$40/year) online link: <https://www.mtfca.com/join-or-renew/>  
The member dues renewal date is printed on the mailing label of your *Vintage Ford* magazine.



Two Events Back-to-Back  
April 23<sup>rd</sup> – 25<sup>th</sup> & April 26<sup>th</sup> – 28<sup>th</sup>

Shared by TL Member Steven Chase

Southern Utah Tours April, 2021

**April 23-25, 2021: 25th Annual Speedster Endurance Run,** St. George, Utah, Hosted by the Sun Country Model T Club. Contact: Dana Crosby (602) 579-3928 or [telecros@yahoo.com](mailto:telecros@yahoo.com). Tour will include a drive into Zion National Park. Non-speedsters are invited to participate.

**April 26-28, 2021: Panguitch, Utah-Utah Canyon Tour,** Hosted by the SNMTC and MTFCS. Contact: Steven Chase (323) 497-0601 or [NewNorthSouth@gmail.com](mailto:NewNorthSouth@gmail.com). Travel backroads around Cedar Breaks, Coral Pink Sands, Kanab and Bryce Canyon. All Ts welcome.

**Note:** These two tours are independent and participants must register for both separately.

## 2021 Meetings & Club Events

**Regular in Person meetings are on Hold:** A monthly electronic Zoom meeting is planned on the usual 4th Thursday of the month in the evening. An email notice will be circulated to Club members with the date, time and login information. When NM-DOH Regulations allow in person meetings we will resume our monthly schedule at the Vineyard.

The monthly **T'n Vittles Breakfasts** are also "On Hold" for now until Outdoor Dining reopens when the weather warms up.

## Tin Lizzies of Albuquerque-2021 Officers and Directors

Paul Duncan, President  
Mark Dominguez, Vice-President  
David Ferro, Secretary  
Marilyn Duncan, Treasurer & Membership

Philip Lance, Director  
Jeff Richards, Director  
Al Schwanke, Director  
Contact Person: Paul Duncan (505) 345-1343

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