



Don't Forget!

There won't be a meeting at Ventura College this month. We will meet at the Camarillo airport in the CAF hangar.



The chapter 190 Mini Mart crew meeting to put the finishing touches on our first Mart. They are standing in front of a Japanese "Zero." One of only three still flying in the world.



SNJ-5 "TEXAN"



GRUMMAN F-8F-2 BEARCAT



FAIRCHILD PT-19A

Oops, I almost forgot. There is going to be a lot of neat clocks and watches here also.

See you on the 18th!



Happy Birthday

George Antinarelli, Henri Bonnet,
Ron Boogren, Russel Frey, George Gaglini,
Mostyn Gale, Robert Mell, John Peha,

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PRESIDENTS MESSAGE

By Mike Schmidt

Reminder: The Chapter 190 Annual Mart on May 18 replaces the monthly meeting at the college. "Old Clocks & Watches & Planes... Oh My!"

The First Annual Clock & Watch Mart has sold most of the 67 available tables. We still have a few left and can possibly add a few more to our original count. The last day to secure a table is May 14. The Mart will have a silent auction table and a consignment table. The auction is a great way to sell that clock, watch or tool that you really need to part with and an opportunity to buy that item you have been seeking.

NAWCC members are coming from Bakersfield to Hemet and many different cities in between to set up tables of clocks and watches. Los Padres Chapter 52 from the Central Coast has 9 tables of horological goodies to offer. The Mart will be open to the public and with the advertising and publicity in "The Ventura County Star" we look forward to a great attendance.

Food at the Mart will be provided by "Top Dog Hot Dog Where the elite meet to eat". Bill Fox and his Top Dog Hot Dog cart will have 2 kinds of hot dogs, sauerkraut, chili and all the fixings. Sodas, chips and Famous Amos cookies will round out the fare. Bill with his smile brings fun to an event.

Field Suitcase Classes:

The FSW 201 Lathe class scheduled for June 6-9 has one opening. If you would like to attend the lathe class contact Coordinator Paul Skeels. 805 525 7325-Email plskeelsatty@verizon.net.

The FSW 101 is scheduled for October 11-13. This is the beginning clock repair class with no prerequisites. If you are interested contact coordinator Alan Davis- 805 659 7148-Email jesoda.1@netzero.net

If you love timepieces and history, and you are not traveling to the NAWCC museum this year, treat yourself to a viewing of the Presidential time piece collection now at the museum. You can go to the NAWCC home page or access it with the following website address:

<http://www.nawcc.org/museum/nwcm/galleries/changing/exhibit4.html>

You will see a short video presentation of each timepiece with Presidents from George Washington to George Bush.

The NAWCC Board of Directors is working very hard to improve relations with Chapters and all of its members. December 2007 an Organization Task Force consisting of Board and NonBoard members was appointed to develop a more formalized and improved relationship between the National organization and its Chapters, with the overall goal of significantly improving Chapter relations, communications, and services. After working for six months a proposed draft of a new NAWCC Chapter Charter is offered for review by NAWCC members. This Charter is new, no formal agreement existed before. The task force needs feedback over the next six months. They wish to end up with a Charter that can improve the Chapter's needs. To view the proposed Charter go to the NAWCC website and click on CHARTER PROPOSAL.

Enough of the serious stuff!

See you all at the Annual Mart.

Mike



Highlights From Our April Meeting

Our program was “Weight driven battery clocks” presented by Bill Robinson. Weight-driven battery clocks were developed at the end of the nineteenth century as batteries became commonly available. Bill displayed an early example: Desk Model M51, which was made by the American Clock Co. of Chicago (1901-1914) around 1905. It used a movement patented by Fred Getty around the turn of the century. It required No.6 dry cells (1 ½ volts) in series to reset the weights which drove the clock mechanism: a mercury pendulum in a canister and “walking” weights. The movement has a built-in level and uses a jeweled but otherwise conventional palette. It audibly resets the weights about every 8 minutes. Bill currently powers it with 2 pairs of D-cell batteries, each pair wired in series, the two pairs wired in parallel to get the proper voltage.

Another type were the clock sets used in schools and factories in the mid-Twentieth century as “Master” and “Slave” clocks. Bill displayed his “Master” clock (S/N 7824 of 1951) which has a 12 pound pendulum. It originally used a 12 volt battery to run its “Slaves” connected in series. Bill currently uses a rechargeable security alarm battery. It operates by dropping a small weight approximately twice a minute (making the clock a “half-minute jumper”) which gives an impulse to the pendulum when the weight drops, it makes electrical contact with an armature which then pushes it back into position, ready for the next drop. Some chapter members fondly remember whiling away class time by watching the schoolroom clock make its regular little thudding jumps, bringing them closer to the end of the school day.

Show and Tell

Zach Salahuddin shared part of his extensive watch collection. Although it had been decimated by a recent theft, he still had many unique and wonderful watches to show us. Inspired both by his grandfather, who had begun collecting in Rangoon, and by his father. Zach is especially interested in “jewelry” or “boutique” watches of limited production runs which combine beauty, functionality, and exclusivity. He believes that these watches are created to reflect important values of the buyer such as: status, religion, delight in mechanical ingenuity, love of beauty, rather than merely the impulse to spend money. ■



TUMBLING YOUR CLOCK MOVEMENTS

by Ray Marsolek

This article was originally published as the Practical Repair and Restoration feature in the December 2002 Bulletin, page 763.

I have worked on clocks for the last 30 years and am always looking for new ways to do a better job; I have usually found that the older, accepted ways are the best. A few years ago, one of my neighbors in Cincinnati introduced me to tumbling clock movements. I was somewhat reluctant to use this method at first. But, Dave, whose profession is metal polishing, took one of my old American clock movements to work and ran it through a tumbler. I could not believe the results. The brass had a bright, polished look. The steel lifting levers, which are always hard to clean, were free from rust and looked almost like new. The corners of the plates were not rounded.

I started to do some testing of my own. First, I used ceramic media in a solution of water and just a little dish soap. This did a good job, but I did not obtain the same results as Dave. I then tried steel media, which gave a superior job in much less tumbling time.

After trying the steel media, I borrowed some stainless steel media. This gave about the same results as the steel media but with the added benefit of stainless steel in that it will not rust.

If you don't keep the steel media covered in solution, it will rust. Due to the added expense, I chose not to use the stainless steel media.

The tumbler that I use can be purchased from a lapidary supply house or from a metal polishing supplier. The cost should be around \$160 to \$180. The drum interior is made out of rubber, holds about eight and a half quarts of liquid, measures 7-3/4" in diameter, and is about 8-1/4" deep. The outside is round while the inside is ten-sided, which forces the media to tumble over and not just slide inside the drum. The drum turns at 27 rpm.

The media is steel with four different shaped balls, hats, pins, and rounds. Balls are 0.135" in diameter, hats are about 0.150" in diameter, pins are 0.080" thick and 1/4" long, and rounds are about 0.125" in diameter and .175" long. When I purchased it, the supply house called it jeweler's mix. I have also seen a mixture that has small stars in it.

In order to get ready for tumbling, I first put 20 pounds of media into the tumble drum that I described above. After putting the media into the drum, I add clock-cleaning solution to about a half inch above the media.

My procedure for cleaning a movement is to disassemble it and clean it in an ultrasonic cleaner. I polish the pivots, do bushing work, clean the spring, (I do not put the springs into the tumbler), and perform any other repairs that are necessary.

After I have done all of the repair work and am ready to reassemble the movement, I get the parts ready for tumbling. I put the plates back together, plugging any blind holes using screws or peg wood because the media will get stuck in the holes. After putting the plates together, they are then tumbled by themselves. This is to prevent the parts from banging into one another. Next, I string the gears and other parts onto a wire and tumble them. I string them so they will not bang into one another

and for ease of retrieval.

I tumble the parts for about twenty minutes, rinse them under warm running water for about one minute, and then blow them with compressed air. Next I dip them into a naphtha solution to remove any water residue. (Remember naphtha is a flammable product so take proper safety precautions.) Again, blow them off with compressed air, and then put them in a dryer for about three to five minutes. Using this method, I have not seen any rust appear on cleaned movements.

Before you go any further you have to check to see if any media is in the pivot holes or inside the lantern pinions. It will be easy to remove any media at this time.

After tumbling and drying, I will reassemble the movement while wearing disposable rubber gloves, but gloves are not necessary. The result that I achieve is a much nicer looking movement without too much extra work. Some of the questions that I am asked are:
Will the corners on the plates get rounded?

I have not noticed any rounding of the corners, but you have to remember that I only tumble for about twenty minutes.

Is there any damage to the gear teeth?

I have not had any damage, but I do know of one person who did not string his parts together, and he bent several gear teeth. I tumble

escape wheels from pinwheel regulators and have not had any problems.

What type of solution do I use?

I use the regular clock-cleaning solution for tumbling and for storage. You have to remember that the media has to be covered in solution or it will rust.

Does tumbling harm the polish on a pivot?

I have not noticed any change in the quality of pivot work.

Do movements that have been tumbled tarnish faster than those that have not been tumbled?

Looking at movements that were tumbled about five years ago, I see no difference to those polished by hand.

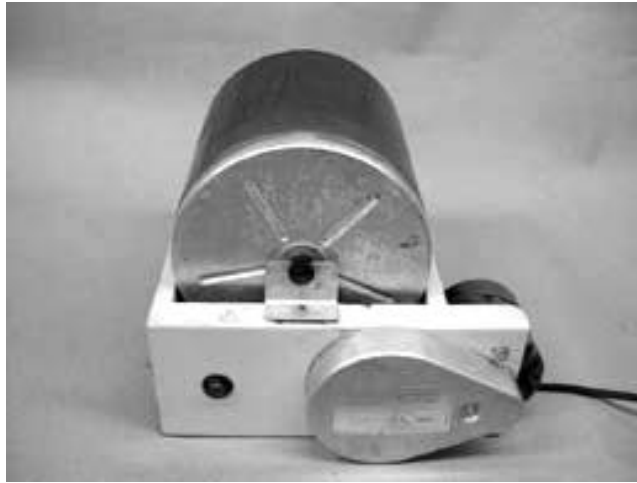
In closing, I find this method gets my movements looking much better after cleaning (with just a little extra work), and I see no negative effects. It does not give the results that I like for a highly polished movement (carriage clocks, crystal regulators, etc.). You will have to do some additional hand polishing on them. It's great for removing rust from arbors and posts.

I do know that several large repair shops are using this method with good feedback from their clients.

About the author

Ray Marsolek has been a member of NAWCC since 1975. He is chairman of the Education Committee, has taught at the NAWCC School of Horology, and is presently a Field Suitcase instructor. His interests are in collecting and maintaining precision regulator movements.

Ray's workshop is a mixture of new and old technologies. He is willing to try new methods of repair always remembering that the ultimate goal is to restore the movement to its original condition without doing any harm to it.



Tales From the Bench

by Ferdinand Geitner

“Normal” Regulation on a Bulova Watch

I'm constantly pointing out to Students that one should never take anything for granted and was reminded myself of this fact by a very simple ladies Bulova wristwatch. A very standard service job on an old Bulova. It just stopped and the balance was a little sluggish. After taking it apart, cleaning, assembling and lubricating it the Balance had a lively amplitude. I placed it on the timing machine and that's when the warning bells started to go off!

I had a little trouble finding the right rate but the machine seemed to finally lock onto a frequency that could be the beat count of this particular model.

The next morning I checked the watch and it was way off time. So much so that I thought it had stopped and I examined it carefully in various positions but the balance oscillated at a healthy amplitude without missing a beat. I left it on the bench while I finished other jobs and soon realized that it was losing almost 10 minutes an hour. Due to the configuration of the dial it was hard to tell exactly. An oval shaped dial with large chunky batons (see photo)

My first instinct was “The Hands are slipping.” I checked the motion work for obstructions and low friction on the cannon pinion but all was well. Just to make sure I tightened the cannon pinion a little more (too much can brake teeth).

Timing was still terrible!!! I examined the hairspring again in case I missed some rust spots which would weaken it and therefore slow the watch but it looked like new and had the right curves and shape. (On some older small clocks Hairsprings were made of copper alloy and some material would be removed and softened by cleaning solutions, slowing the balance wheel).

The Balance wheel was the right size and with screws on the rim looked right for the year of this model. I removed 2 screws from the rim and left it overnight. Some improvement. I removed 2 more screws and it improved to ½ an hour per day. After removing a total of 6 screws it was finally within the regulating range of the regulator.

How does a watch with all the (seemingly) right parts get so far off???

Never take anything for granted! ■



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SUNDAY, JULY 27, 2008

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ANTIQUÉ CLOCK & WATCH MART
IS JUST AROUND THE CORNER.**

Sunday, May 18th, 2008

At the Commemorative Air Force (CAF) hanger
located in the Camarillo Airport, Camarillo, CA

Mart admission includes a tour of the WWII
aircraft museum and restored planes.

**Mart Questions?
Call: 805 384-1936 or,
www.nawcc-ch190.com**

**The next Meeting & Mart for Chapter 190
at Ventura College Will be June 15, 2008**

Sellers may start setting up at 11:30

The Mart is open from 12:00 til 1:15

The Meeting starts at 1:15

PROGRAM

"Chapter Review in Photographs "

*We will look back at the meetings and
activities of our chapter's first year and a half.*

SHOW & TELL

***Your Choice. Bring a favorite watch, clock
or tool to share with us.***

Welcome New Members

**Edward and Jo Ann Armstrong,
and "CJ" Jackson**

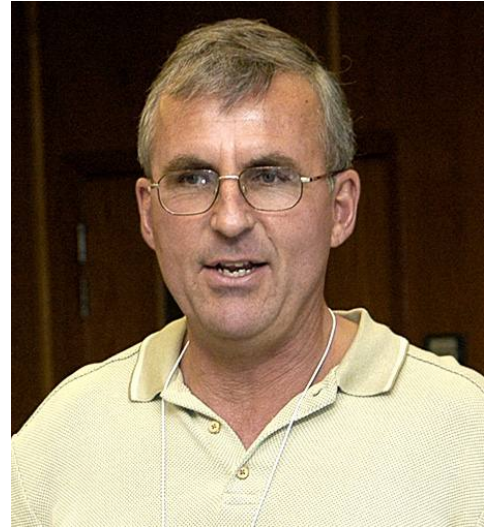


Ventura Chapter 190 people

Each issue of our newsletter will feature members of our chapter with a short biography or some of their horological interests to help us get to know them better.

Wayne Callaway

By George Gaglini



Born in Santa Barbara and raised mainly in Oxnard, Wayne Callaway has made Camarillo, California his family home for the past thirteen years. Entering that beautiful home, one is immediately in the presence of some of the most pristine antique clocks anywhere; most of them made by the Seth Thomas Clock Company and other New England clockmakers. The collection includes a #30 Seth Thomas (Wayne's favorite) and a #133 Electric self-winder.

Upon graduating from Ventura College with a major in business, Wayne spent several years as a Sales Manager for companies marketing farm equipment. Later he built a business in agriculture, specifically the Citrus Industry. Today, he operates a fleet of trucks ranging up to two-axle tractors with twenty-four foot trailers and containing up to 45,000 pounds of lemons.

Wayne's father was a clock collector who loved to tinker. Most of his clocks were bought on impulse if they had a pleasing face; he loved dials. He nurtured in his son a general interest in clocks that eventually lead Wayne to research and join the NAWCC. Later, Wayne became a member of Chapter #75 in the San Fernando Valley. Through these associations, he developed long-term friendships with Jim Ingersoll and George Antinorelli, both excellent local clockmakers and serious collectors.

Although he doesn't claim to have restored his wall, mantel and floor clocks, Wayne admits he is a perfectionist whose passion for detail is evidenced in the outstanding condition of his precious clocks.

With his wife, Debbie, and their two teenagers, Wayne balances a thriving agri-business and a love of clocks. A Charter member of Chapter #190 and a long time member of Chapter #75 and Chapter #133, Wayne is Co-Chairman of the Chapter #190 Mini-Mart to be held on May 18, 2008. ■

CLASSIFIED PAGE

This page is dedicated to advertising for Chapter 190 members. It is, of course, free to members.

SERVICES OFFERED

The Montecito Clock Gallery

Restoration, repair, sales of clocks and watches.

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805-444-6383

- Chronometer -

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Please contact: Giorgio Perissinotto

E-mail: giorgio@spanport.ucsb.edu

(I'm teaching in Spain so there is no local California phone)

- Watch Repair Tools -

I'm just starting out and need just about everything.
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The CAF hangars are located at the Camarillo Airport in Camarillo, CA. The airport is just off Highway 101 in Camarillo. Take the Las Posas exit and go south to Pleasant Valley Road. Turn right and take a right onto Eubanks Street (2nd light) into the airport. We are on the corner of Eubanks and Airport Drive. Look for the **CAF** sign on the hangar. Parking is available in the CAF hanger lot or on the street.



Hope to see you there!

May 2008 Issue

At the Camarillo Airport

MAY 18

NEXT MEETING

If Undeliverable return To:
17738 Superior St. Unit 21
Northridge, CA 91325

Chrono Times