



## CLOCKS, PAIN OR PLEASURE?

By Kathi Sheffrey

I like clocks. I also hate clocks. I started working on them about 15 years ago. I had a couple of mechanical clocks at the time and when they stopped working I brought them to my dad to fix. I knew my Dad wasn't going to be around forever and asked him to teach me how to repair them. That is how I got started. My dad lived 160 miles from me so when I had problems, advice over the phone just did not cut it.

I was a member of the NAWCC (my Dad paid for my first year's membership,) so I started looking for help a little closer to home. I joined Chapter 116 which is located in Arcadia and started going to their meetings. Big mistake! I got hooked on clocks.

A program on Calendar Clocks presented by Jim Chamberlain was my downfall. I started to buy clocks. I joined Chapter 75 in Granada Hills. I started attending the clock repair class at Kennedy High School. I went to several FSW (field suitcase workshops). I bought clocks at NAWCC regional marts. I bought clocks at mini-marts, car shows, garage sales, and e-bay. I bought reference books. I bought hand tools, a spring winder, a lathe, a drill press, a vise, and a bench grinder.

I like clocks. I now have lots of clocks. Clocks are great. First of all they tell time, some tell you the day of the week, the month, and the date. Clocks make noise. They tick, they strike the hour, play you a tune, and wake you up at night. Clocks have moving parts; pendulums swing, a bird pops out, dancers dance, eyes roll, tails wag, and wheels turn. Clocks are big, small, tall, and short, hang on a wall, stand on the floor, or sit on a shelf. Clock works are housed in glass, wood, ceramic, plastic, iron, brass, and other materials. Some are beautiful. Some are not.

I hate clocks. Clocks take time. Clocks stop running. They run too fast, too slow, strike the wrong hour, and do other odd things. They need to be wound,

adjusted, cleaned, oiled, and pampered.

Clock springs break, arbors get bent, pivots break, gear teeth get bent or broken, etc., etc., etc.

Clocks do not go back together as easily as they come apart. Sometimes there are extra pieces. No two clocks are the same. They take a lot of time and effort to

keep them working. Clocks cause high blood pressure, bad language, and extreme frustration. Clocks cost money. Clock tools cost more money.

I like clocks. Clocks are fascinating. The different designs of clock works, cases, makers, and materials, make each clock unique. Learning the techniques and tools used in clock repair is a great mental and manual dexterity exercise.

Specialized tools are great but not necessary in the beginning. Most of my specialized tools were bought after I gained some experience. When I find a solution to a "problem child" clock it's a fantastic feeling.

Clocks and clock repair are an absorbing hobby. Repairing a clock successfully gives a great sense of accomplishment. Clocks are a great conversation topic, I can bore a lot of non-clock people with facts about clocks. Also, working on clocks keeps me out of the bars. ■



*This is the one that started it all.  
A Gilbert Capital Series.*

### Great truths about life, that children have learned

- No matter how hard you try, you can't baptize cats.
- When your Mom is mad at your Dad, don't let her brush your hair.
- If your sister hits you, don't hit her back, they always catch the second person.
- Never ask your 3 year old brother to hold a tomato.
- You can't trust dogs to watch your food for you.
- Don't sneeze when someone is cutting your hair.
- Never hold a Dust-Buster and a cat at the same time.
- You can't hide a piece of broccoli in a glass of milk.
- Don't wear polka-dot underwear under white shorts.
- The best place to be when you're sad is Grandpa's lap.

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## PRESIDENTS MESSAGE

By Mike Schmidt

Congratulations go to all of the students who recently completed the October FSW 101 Beginning Clock Repair Workshop with instructor Ray Marsolek and assistant instructor Lex Rooker. The students included class Coordinator Ralph Napolitano, Chris Martin, Ron Maracich, Bob Thomas, Andreas Georgudios, Michael Pollard, and Bob Hartz.

This workshop is the 5<sup>th</sup> FSW 101 and celebrates Chapter 190's five years of offering NAWCC Field Workshops. At the end of this year the chapter will have offered and completed 24 of the FSW workshops. One hundred fifty NAWCC members have taken the opportunity to improve or learn new horological repair skills.

It takes a great team effort to provide and put together an educational program of this caliber. On the National level, I want to thank Mike Dempsey and Fred Tischler for designing and putting together the workshops. I am sure there are many others that I do not know who contributed to the process. I want to thank all the NAWCC FSW instructors and especially thank Pam Tischler who does the administration work (not an easy task).

On behalf of all the students, I wish to thank instructors Ferdinand Geitner and Ray Marsolek for giving of their knowledge. (Ferd has done 5 workshops and Ray 18 workshops.) That is a lot of weekends.

Thanks to Lex Rooker (student instructor) for helping Ray and Jorge Montoya for assisting Ferd. Thanks to Laurie Conti for designing and preparing the great workshop flyers. Thanks to Dave Coatsworth for the website advertising of workshops. Thanks to all the people involved with providing facilities for workshops. I thank all the many others who have been part of the successful FSW program who I have not mentioned.

The effort to provide an educational program has been very good for the NAWCC and Chapter 190. Through this educational program, the NAWCC has signed up many new members. On a personal level, many new friendships have evolved with classmates and all of us associated with the program have met some really nice and interesting people.

A special note on Sunday's program - Gene and Jan Corriden, our members from Santa Cruz, will attend this months meeting. Gene will be presenting, "Restoration and Performance of the Santa Cruz Town Clock." This is a fascinating story about a tower clock that was decommissioned, dismantled, and neglected for many years. It now has an ornate style tower, resides as an icon, a local landmark, and a popular gathering place in Santa Cruz Calif. This is a great program and story you will not want to miss.

See you at the meeting *Mike*



## Happy Birthday

Larry Lopes, Lynn McWilliams, Marco Perez,  
Richard Purnell, and Richard Schall



# Tales From the Bench

by Ferdinand Geitner

## What's the best?

Customers often ask me “what do you think of this make or that model, which is the best?” and I have a favorite reply, “What's the best car, a Rolls Royce or a Ferrari?” Both feature outstanding engineering but one cannot compare the two; it depends if you want all the accessories and a soft comfortable ride or amazing acceleration and flamboyant style.

It's the same with watches and clocks. One should not wear a delicate stylish dress watch for vigorous sporting activities like beach volley ball or diving and I would not wear a big black diving watch to dress up. There is a watch for every purpose (even going to the moon). I used to sell clocks with the



phrase that they are “Functional Pieces of Art”. They look good and tell the time on the dial and with various means of tone or melody (sometimes even animation). If you don't like the style on your wall or wrist it does not matter what amazing features the item possesses?

I'm just the watchmaker working on the movements and the names on the dials don't mean much to me in relation to the job of repairing and restoring the mechanism.

The fact of differences (or not) between movements was brought home to me just recently when I had two watches on my workbench (yes, I often work on more than one at a time); a very nice Bulgari automatic, with date, wristwatch and a Girard Perregaux automatic with date and world time.

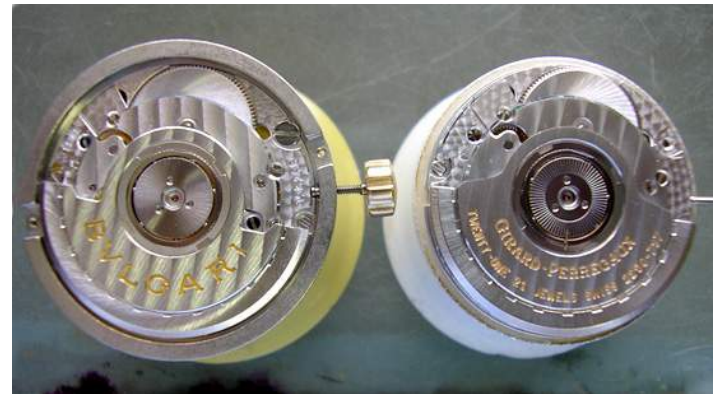


As you see from the pictures, they look very different and the Girard has an additional numbered (clear) disk

between the hands and dial, which rotates once in 24 hours and tells the time in 23 cities around the world on the bezel. The bezel can be turned to a different location when one is traveling.



Now, when one turns the watch over it becomes apparent that the movements are identical!



With the exception of the additional 24 hour gear with an intermediate reduction gear that is geared to the hour wheel for the world time indication, the basic movement is the same. The same amount of work and the same quality, but not necessarily the same price.

A very good friend of mine once asked me for advice about which watch to buy. He was looking at two chronographs with similar styling but very different names. One was a Porsche Design and the other one was an Oris. Nobody I knew at the time knew the name Oris, so it was a questionable contender but when I checked the specifications both used the exact same movement with day and date indication, but the price varied by \$2000.

So, what is best??? ■

Welcome New Members

David Perez, from Goleta  
and  
Bob Hartz, from Oxnard



## DEAR COUSIN

### Editor

*The history of this article gets a little complicated, so bare with me. Bill Hogan, a visitor to our meeting last month, found the article and thought it might be a good one for our newsletter so he sent it to Ralph Napolitano. Ralph thought so too, so he sent it to me.*

*The original article was discovered by Paul N. Dann of New Haven Connecticut, who submitted it to the editor of the NAWCC Bulletin. It was subsequently printed in the December 1947 edition.*

*There is no record of when the actual letter was written but judging by the prices and the fact that it is a wood works, it must be quite old.*

### *The letter*

Dear Cousin;

Enclosed please find thirty-five cents for the repair of clock. I feel that your charge of 50 cents to repair said clock was quite excessive. Also I regret the fact that you have taken into account our blood relationship. Namely stealing the lead bottom off the weight, substituting the pendulum and key.

We are all fine and hope all goes well with you. You have ruined our fine clock. Made it look like new. This has broken Matilda's heart. Our blood relationship however prevents a lawsuit.

Hoping to visit you soon, I remain,  
Your dear cousin,

Ephraim

### *The reply*

Dear Cousin;

In response to your letter stating that I stole and ruined parts of your clock. Please be informed of the following: First of all I believe the sum of 50 cents was a fair price. So please send the 15 cents. When the box of loose clock parts was brought in by you, it was indeed a sorry mess. The time of repair took over a week. 50 cents was little enough for the job. So you can see why you must send the additional 15 cents.

As you know there are 13 wheels & 10 pinions in your clock (8 wheels & 6 pinions in the time train, 5 wheels & 4 pinions in the strike train). The great wheel (that is the wheel that has the drum to carry the cord that holds the weight) had several teeth broken out.

Now sometime in the past some repairer had driven nails in instead of dove-tailing a piece of boxwood into the wheel and re-cutting teeth. The reason the teeth had been broken in the first place was the fact that

someone had replaced the cord with a very strong wire cable. It would have been far better for the cord to break than the teeth of the wheel.

Also the winding squares were badly worn, the result of using a key far too large. These I filed up square again and made a key to fit. That dear cousin was the reason you received a different key.

Now someone had filled all the pivot holes with grease. This was not the right thing to do as you well know. Graphite is the best lube, except on the escapement where oil is used. After carefully cleaning out the pivot holes, I found I had to re-bush several holes. This I did because the depthing was very poor causing a great deal of friction. When I had completed this task the wheels rolled quite freely. I therefore removed the excess weight that had been fastened to the original weight. It had run well with the original weight when manufactured, and did so when properly repaired again.

The bob you brought with the clock was not the original. It was far too heavy and clumsy. Now dear cousin, making a bob heavier does not make the clock go slower. It's length that counts. Lower-slower. Sometime in the dim past the suspension spring had been either lost or broken. This had been replaced with a course thick spring and heavy wire. Now being familiar with clocks I knew this was wrong. I replaced this with a spring having a thickness of three thousandths and the wire one-sixteenth of an inch. The length of the pendulum I found mathematically. By multiplying the sum of teeth of the center wheel by the sum of teeth in the fourth wheel times the sum of teeth in the scape wheel times two. Into this I divided the sum of the teeth in the fourth pinion times the sum of teeth in the scape pinion. This gave me the number of vibrations the pendulum made in an hour. I divided this by sixty and had the vibrations the pendulum made per minute. I then multiplied 390.14 inches (which is the app. length of a seconds pendulum) by sixty squared. Into this I divided the number of vibrations per minute squared and had the correct length of the pendulum to the center of gravity. The bob you now have is of a lens shape to decrease air resistance.

I regret that dear cousin Matilda thinks I spoiled her clock. I spent many hours restoring the case. The fact that the case is nice and clean and the brasses nicely polished does not alter the fact that the clock is still a fine antique. Cleaning them up brings out the rare beauty and charm of bygone years.

And so with fond wishes to both cousin Matilda and yourself, I remain,  
Your dear cousin,

Joshua

P.S ---Please send the 15 cents.



## TIME'S OTHER DIMENSION

by **Henri Bonnet**

It has been speculated that if you gave a thousand monkeys a typewriter each, and ENOUGH TIME, they would eventually type the declaration of independence. This interesting metaphor may be evocative as far as evolution goes. On the other hand, we know that the earth's entropy is irrevocably increasing, and given ENOUGH TIME, our planet and everything that's in it, will turn into lifeless dust.

Between those two faces of time lies hidden another one: THE QUALITY OF TIME. Time affects everything in the universe including life, and every single person on earth. Time is uninterrupted, as well as unidirectional, and not a single second of it resembles another. The future gradually becomes the present and the present ultimately drifts into the past. Time is indeed the finite frontier where everything begins and ends. Man doesn't have the slightest influence upon time, with one exception: its QUALITY. Since quality is the only facet of time within man's reach, its influence cannot be underestimated.

For centuries, the science of horology has been fully cognizant of that fact. This is why horological devices designed to represent or to measure the passage of time, were often crafted as works of art and indeed as incomparable masterpieces.

In bestowing upon time measuring devices some extraordinary qualities, early horologists have attempted to entice man to rejoice in its passage. Early masterly crafted cuckoo clocks among others are exquisite examples of that. It is evident that art is crucial to man, differentiating him from all other life forms. Most people find an irresistible attraction to art objects and delight in their possession. Wristwatches and clocks are truly exceptional by the fact that they combine art with vital utility. So, strapping on a nice wristwatch could surely improve the quality of time's passage for its wearer. In horology, art is primarily expressed by blending beauty, quality, and necessity, an amazingly powerful combination.

When it comes to wristwatches, certain companies have devoted enormous resources in the design and manufacture of their dials. Numerous studies have been conducted to demonstrate that the face of a watch accounts to the largest extent for its appeal to a potential buyer. The current owners of one of the top Swiss watch houses were once dial makers. A quality and attractive dial is indeed a remarkable work of art. To successfully fulfill its function, the face of a watch (dial, markers, and hands), has to be at once, beautiful, elegant, simple, readable, interesting, and above all appealing. A tall order, not at all easy to achieve. Like

other quality visual art objects, it must remain forever a delight to behold.

To a certain extent, a watch dial is not unlike the face of a beautiful woman. Nearly 500 years have passed since Leonardo Da Vinci painted Mona Lisa, yet people from all corners of the world, in all walks of life, still find her portrait captivating. The case of a wristwatch is like the frame of a magnificent painting among its other functions, and as such similarly receives appropriate aesthetic treatment. Throughout history, royalty as well as affluent individuals have sought to surround themselves with expensive, ravishing art objects to refine and enhance the quality of their lives. Fine horology has always been among their favorite.

For most of us, a high quality wristwatch can often achieve the same goal by offering utility, eye-catching beauty, and portability. So, choose a quality timepiece as you would a distinctive work of art and you will no doubt find that when it comes to wristwatches, time is indeed in the eyes of the beholder. And remember that quality is the only aspect of time over which you can exercise a measure of influence. Intangible as it may seem, time's quality will enrich your life in ways you can't even imagine. So don't pass up this opportunity and start enhancing your life with a quality mechanical wristwatch. You won't regret it!

Largely due to their elegant dials, certain wristwatches have become iconic to knowledgeable collectors. Among the top classics are the Piaget Protocole, Omega Constellation, JLC Memovox and the Patek Philippe Calatrava, pictured below. ■



Piaget Protocole



Omega Constellation

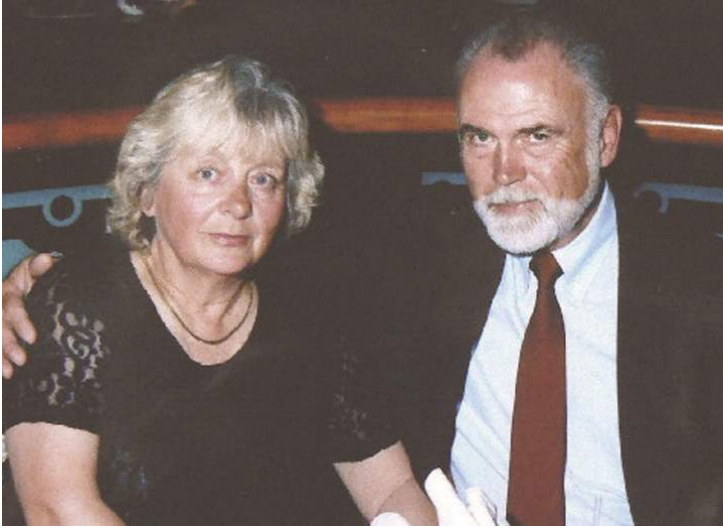


JLC Memovox



Patek Philippe Calatrava

### Gene and Jan Corriden



Gene is originally from our eastern shore, Maryland, and Jan is originally from London, England. They met on Cape Cod, married in 1961; lived on the east coast and in the Midwest, traveled widely and eventually settled permanently in California (Santa Cruz since 1971). Gene did biomedical research (later, environmental research). Jan was an administrative Dean at UCSC; both are now retired.

In the late 1960s, they moved from the San Francisco bay area to Pittsburgh, PA. Gene was a postdoctoral fellow at the Pittsburgh School of Medicine, and Jan was a graduate student in the Public Health Administration.

They arrived there in the winter with a new baby, a Siamese cat, and all their possessions in a Volvo PV444. They bought a 3 bedroom home with not much to put in it. Their first furniture consisted of a crib and four bar stools. In the search for furniture, they discovered the many antique shops in the area, and bought a small Sessions wall clock; the beginning of a new hobby.

Almost every weekend included some clock collecting. In 1968, Gene was sponsored into the NAWCC by Hugh Marsh, the NAWCC Treasurer. Among his first books was Brooks Palmer's "Treasury of American Clocks." He foolishly decided to collect one of everything in the book and became more of an accumulator than collector.

They later returned to California with several hundred clocks. Gene got involved with the Santa Cruz Town Clock and discovered his passion for tower clocks. Finally, his collecting had a focus and he now has over 20 tower clocks which represent their evolution from foliot to electric, with an emphasis on early wrought iron examples.

Gene is a member of the NAWCC Tower Clock Chapter and the AHS Turret Clock Group. He is also a member of several other NAWCC chapters, founder of Chapter 70, and a recent member of Chapter 190.

Gene received the NAWCC Fellow award in 2010. He was drawn to 190 by its reputation for excellence while so many other chapters are in decline, and joined even though he is only able to attend a few meetings each year.

There have been no other clock or watch collectors in either family. Gene has pocket watches of his father, grandfather, and great-grandfather. Neither Gene nor Jan has any horological family heirlooms.

Gene's other interest is vintage auto racing. He is currently restoring a 1940 rail-frame midget with Ford V8/60 engine. Jan enjoys flower gardening, hoping for future summer seasons to be better than 2011. Both are keenly interested in ancient cathedrals and parish churches.

Both are long-time volunteers with the Make-a-Wish Foundation, Children's Hospice, and several other charity groups.

They look forward to spending time with Chapter 190 for the learning experience and the fellowship opportunities. ■

## EDUCATIONAL OPPORTUNITIES

### ***This Month's Mini-Workshop***

At 10:30AM, "Watch Repair Problems"

will be led by Jorge Montoya.

At 11:00, Lex Rooker will discuss "Clock Motion Works & Minute Arbor Clutches"

***THE WORKSHOPS ARE ALWAYS FREE!***

**FSW 104 - Introduction to Weight & Fusee Driven Clocks.** This is a 4 day workshop offered Nov. 11-14  
Coordinator Paul Skeels Phone: 805 525-7325  
email: [plskeelsatty@verizon.net](mailto:plskeelsatty@verizon.net)

**FSW 302 Beginning Wristwatch Repair** This is a 4 day workshop offered January 27-30, 2012  
Coordinator Weber Wang phone: 626-336-2870  
email: [weberwang@hotmail.com](mailto:weberwang@hotmail.com)

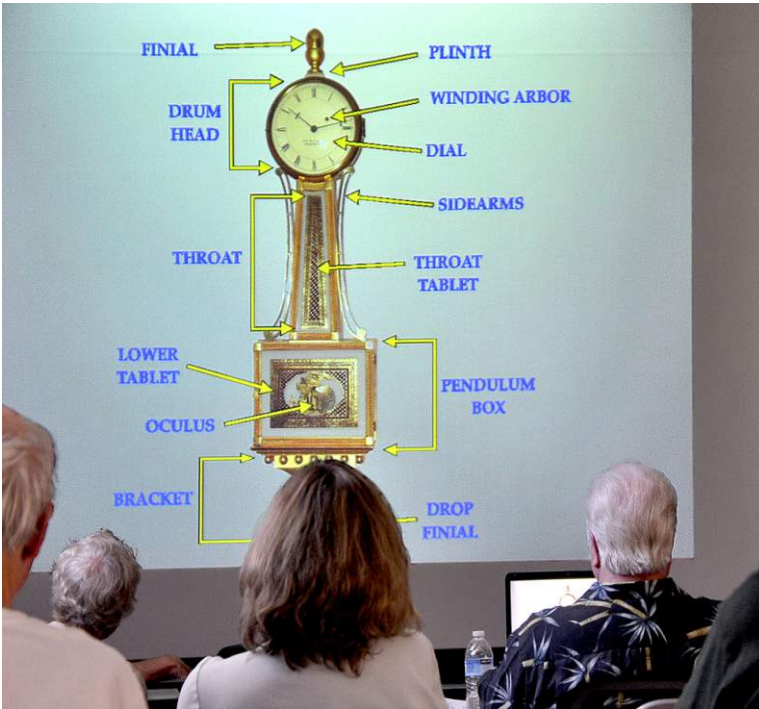
A future workshop to be offered, if there is enough interest, is the **F502 The Atmos Repair Course**. If you are interested in the 3 day workshop please contact Coordinator George Gaglini 805-647-6463 or email: [ggaglini@roadrunner.com](mailto:ggaglini@roadrunner.com)

If you have an interest in a workshop or horological subject, please make your interest known to me or any Board member.



# THE EXTRA PAGE

## FACES SEEN AT SEPTEMBER'S MEETING *Photos by Bill Robinson*



**The next Meeting & Mart for Chapter 190  
is October 16, 2011**

**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**

**"Restoration and Performance  
of the Santa Cruz Town Clock"**

*Presented by Gene Corriden*

**"Gene is a 190 member from Santa Cruz  
and owns 20 Tower Clocks"**

### **SHOW & TELL**

**Any item you would like to share"**

# 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.  
**Ferdinand Geitner**, mbhi, owner and operator  
Now located at 1187 Coast Village road, unit 10a  
Montecito (one block from old site)  
(805) 565-9097

### **The Clock Gallery**

Serving All of Ventura County  
Precision Repair - Service - Restoration  
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E-mail: [jorgemont2001@netzero.net](mailto:jorgemont2001@netzero.net)

### **PACIFIC COAST CLOCKS**

**In business since 1977.**

Sales and Restoration of both new and antique  
clocks. Repair of all types of mechanical clocks.

*Loren Miller* proprietor.

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(Located in Firehouse Plaza at Main St. and Telephone Rd)

Monday through Saturday 10:00 to 6:00 pm.

**Tel. 805-650-8800**

## FOR SALE



**NEW**

**BEAUTIFUL  
3 WEIGHT VIENNA REGULATOR.**

*\$1,500*

*Contact:*

*Royce Hulsey  
818 889-8665*

### **WATCH REPAIR TOOLS & MORE!**

I will have a huge selection of watch repair  
tools and other items from my latest estate  
buy at the Chapter 190 meeting.

**Dave Coatsworth**

[dave@daveswatchparts.com](mailto:dave@daveswatchparts.com)



### **MicroSet Timers for Clocks and Watches**

Precision electronic timing tools for clock and  
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[www.WatchTimer.com](http://www.WatchTimer.com)

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Santa Barbara, CA 93110

**(805) 687-5116**

## WANTED

### **URGENTLY NEEDED, VISIBLE ESCAPEMENT MOVEMENT**

French type-platform escapement (no pendulum)

Winding hole spacing of 38.9 mm, (1.53")

Repairable, other details available on request.

Bob Reichel, [welchdoc@yahoo.com](mailto:welchdoc@yahoo.com) **Ph: 1-206-364-7374**

*Antique French* 2 or 3 dial calendar clocks.

*Antique English* 2 or 3 gear-train skeleton clock.

Loren Miller, **Pacific Coast Clocks**

4255 E. Main St., No. 15, Ventura, Ca.

Located in Firehouse Plaza (Main St. & Telephone Rd.)

**Tel. 805-650-8800**

### **- Chronometer -**

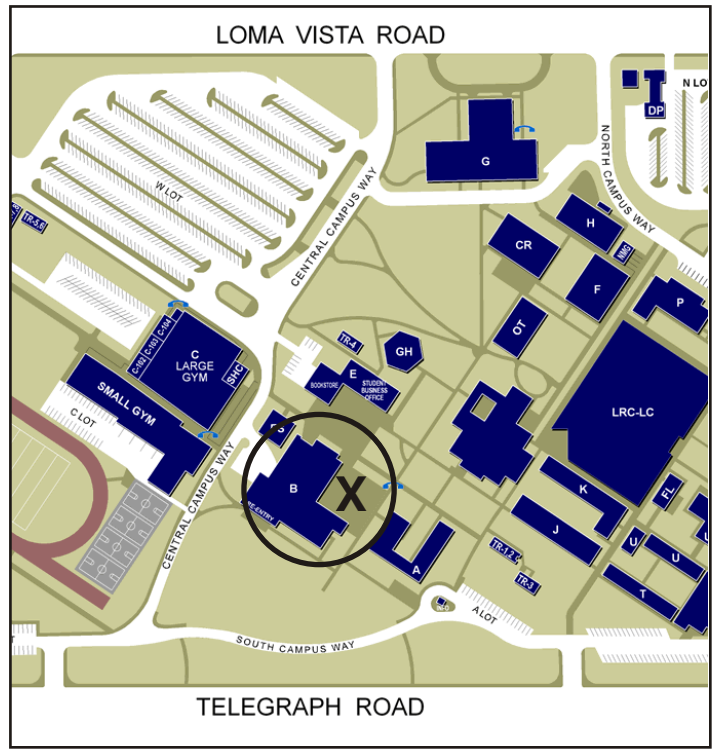
Hamilton 21 Marine Chronometer in running condition, with  
inner box and gimbals; outer box not essential.

Please contact: Giorgio Perissinotto

E-mail: [giorgio@spanport.ucsb.edu](mailto:giorgio@spanport.ucsb.edu)



The Chapter 190 meetings are held the third Sunday of each month. (No meeting in December)  
 We will meet in the cafeteria on the Ventura College campus. The cafeteria is located in building "B", east of the gym and athletic field.



**October 2011 Issue**

**NEXT MEETING**  
**OCT 16**



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



# MEMBERSHIP APPLICATION

for Ventura County Chapter 190 of the NAWCC

NEW  RENEWAL

PLEASE PRINT CLEARLY

Date: \_\_\_\_\_

Name: (First) \_\_\_\_\_ (Last) \_\_\_\_\_ Phone: \_\_\_\_\_

Street address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_ Birth Day: (Month) \_\_\_\_\_ (Day) \_\_\_\_\_ NAWCC # \_\_\_\_\_  
*Membership in the NAWCC is required*

Person to contact in the event of an emergency: Name: \_\_\_\_\_ Phone: \_\_\_\_\_

### What is your clock/watch interest? (Check all that apply)

I collect clocks  I collect watches  I have a basic understanding of  clocks  watches and have repaired a few as a hobby.

I have studied  clock  watch repair via books, videos, or by attending classes. I repair clocks mostly as a hobby.  I have been repairing  clocks  for over 5 years and am familiar with many types of movements. I repair clocks for pay and as a hobby.

I have a well equipped shop and can repair most  clocks  watches. I have an extensive knowledge of clock/watch design, function and repair techniques. Most repairs are for pay.  I am a serious collector of  clocks  watches and have a very good knowledge of their history, models and value.

Why do you want to be a member of Chapter 190? \_\_\_\_\_

Would you like to volunteer in helping Chapter 190 achieve its goals?  Yes, how can I help?  No, not at this time

Membership in Ventura chapter 190 of the NAWCC requires that you also be a member of the parent organization, The National Association of Watch and Clock Collectors. If you are not a member, you may join online by going to their website at [www.nawcc.org](http://www.nawcc.org), or you can contact us and we will send you an application.

Chapter dues run from January 1st to December 31st. Annual dues are \$25.00 for imediate family.

*Please make checks payable to;*

**Chapter 190 NAWCC**

*Mail this form & check to:*

**Ernie Jenson**

**25 Norma Ct, Camarillo CA 93010**

Family membership dues \$25.00 \_\_\_\_\_

Membership includes spouse and other family members.  
Other members names.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NOTE:** Spouse or family members do not have to be a NAWCC member when accompanying the primary member to chapter events.

Signature \_\_\_\_\_

FOR CHAPTER USE

Date received \_\_\_\_\_ Amount received \$ \_\_\_\_\_ Member ID number;

Added to mailing list. Date \_\_\_\_\_ Membership card sent. Date \_\_\_\_\_

Notes: \_\_\_\_\_