




HAPPY HOLIDAYS

Travel Town Museum Foundation Dedication of the Blodgett Master Clock

by Ernie Jenson

This Blodgett clock started its life in 1912 in Boston, MA, over one hundred years ago. It starts the next hundred years of its life as the center piece in the new gift shop at Travel Town in Los Angeles. It was one of the last made by the Blodgett Clock Company as they had been sold to the Standard Electric Clock Company. It is a grand master clock with a massive quarter-sawed oak case sporting the best pendulum available at that time. It had the Waltham 3-cylinder Mercury Compensating Pendulum giving it an accuracy of better than 10 seconds a month. The pendulum alone cost more than most clocks available at that time.



Being a master clock, it would have found its first home running any number of secondary clocks somewhere on the East Coast. We believed that it was sent to the West Coast some time after it was replaced by a more modern clock network. Union Pacific Railroad would place historical items in their facilities around the country and must have placed it in a railroad facility in the LA, area. When Union Pacific changed their logo in the 1950s, this clock received the new logo in the form of gold leaf and hand painting. That logo, in itself, is a work of art. The clock was acquired by Paul Metzger who had an extensive collection of horological items. Mr. Metzger is now deceased and Mrs. Metzger recalls him saying that it came from a local railroad facility.

Delores Metzger donated a number of clocks to Chapter 190 and asked if we could help find a home for this clock in a museum. The first thing we did was to clean

and wax the beautiful oak case. Then we cleaned and repaired the works and provided a power supply and relay system to operate the clock and also operate secondary clocks. When finished, the clock looks as new, in perfect condition.

Then the hunt was on to find the perfect place for the clock, and again allow it to display accurate time to all who would enjoy it. We visited a number of museums with Dolores and friends. Mrs. Metzger decided on the Travel Town Museum Foundation, as it was local in LA and is one of the largest railroad museums in California. They were building a new gift shop where the clock would be placed. It would now be located in a safe place, in a prominent location and once again, at work, servicing the railroad community.



The new gift shop

It took a year to finish the new building, so the clock was used as the center piece for the Railroad Time Display at the Regional Clock Mart in Los Angeles sponsored by Chapter 133 and Chapter 75.

On September 15th a service was held in the new gift shop at Travel Town to dedicate the clock in honor



of Paul Metzger. The room full of attendees at the dedication included fifteen friends and relatives of the Metzger family,

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PRESIDENTS MESSAGE

By Mostyn Gale

As I write this message the end of the year is fast approaching. For many, this can be a time of assessing the past year and looking forward to a new year to come. We have had another good year, especially when you consider that whatever we do, it is icing on the cake. What's most important is our families and our health and if we get to "play" with watches and/or clocks along the way, we can consider ourselves amongst the privileged.

For me, this year has been one of transition—the whole clock and watch industry is changing and we must change along with it. But what are these changes and how do we adapt? One of the changes is not really a change, but rather a recognition that time keeps rolling on—we are all getting older. What this means for our Chapter is that many of the good folks that have been carrying the load for so long are not able to do so—it is time for the rest of us to step into those roles. I am thankful for all the Board members we have and for the ones who have stepped up or into new positions this year—there is room for more.

Another change—this one goes to the heart of what we are as a Chapter—is adapting to the change in Traveling Workshops put on by the National organization. These have been changing and we are changing with them. We, thanks to the hard work of Lex Rooker, have developed some introductory classes over the last few years and are still pursuing that. Next year we hope to introduce three new classes: a three train clock class, an introductory pocket watch class, and a clock workshop. We will continue to evaluate the National classes as well as classes that may be offered by other organizations, such as the AWCI, and adopt them as we think it best suits the needs of our Chapter members.

Other changes include the moving of our membership communication platform to MailChimp. Another key change for next year will be our Newsletter. Ken McWilliams, who has done such an amazing job putting it together for many, many years, has reached the end of his time with it. We have not, at this time, decided how it might change but we are looking for a new Newsletter Editor.

This has certainly not been an exhaustive or even organized list of things that have or are changing, but my purpose is to remind us that change brings many opportunities for all of us to make the Chapter what we want it to be. I am happy to be part of a forward looking, adaptive group if you also want to contribute in small or bigger ways, please let me know.

I wish you all the happiest of holiday seasons and I look forward to seeing you at our next meeting.



Welcome New Members

Al & Barbara Rotter
from Malibu



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Railroad Museum members, Chap 190 members, and many friends and visitors. Greg Gneier, the president of American Railway Association was the "MC". He gave a great description on the history of Railroad Time and the contribution of the railroads to the standardization of time. He expressed how much they appreciated the donation of the Blodgett Master Clock to their organization. Dolores talked about her husband's love of all things horological and how pleased that she and her son Paul are to see the clock in such a great location. Ken McWilliams discussed the NAWCC (National Association of Watch and Clock Collectors) and the many community projects that Chapter 190 has been involved with. Ernie Jenson talked about the history and the restoration of this clock. Clara Darden, a board member of the Griffith J. Griffith Charitable Trust, talked about the role the trust had in donations for the new building.

We, in the NAWCC, are happy for our part in this project. The help of all our members is really appreciated. Special thanks go to Ken



Mike, Ken, & Alan installing the clock

McWilliams, Alan Bloore, Mike Schmidt, and George Antinarelli. Working with the Travel Town Museum Foundation was a great experience. The dedication of this group beats all! Special thanks go to "M.C." Greg Gneier, "Engineer" Greg Ramsey and "Conductor" Craig Smith and many other workers and volunteers at this great organization.

All of this was made possible by Dolores Metzger and her son Paul Marinos who donated this clock to the Travel Town Museum Foundation in the memory of Paul Metzger and his collection of clocks.



Dolores (Dee) and her son Paul

We remember this place as "Travel Town" where we took our children to ride the little train in the little town built especially for them. It's time to visit "Travel Town" again if you haven't been there recently and see the large collection of steam engines, railroad cars, and the model railroad. Bring your children or grandchildren and let them enjoy riding the little train. It could become a tradition in your family. Don't forget to go to the gift shop and visit the clock!

EDITORIAL

by Ken McWilliams

Chapter 190 received its charter from the NAWCC in September 2006. Shortly after that, a group of about 12 people got together at a restaurant in Ventura to create a board of directors, establish the structure and objectives of our new chapter. It was determined at that time that the chapter's primary objectives would be; communication, education, and to create a safe, fun, environment for our members. We immediately became a California Corporation, and registered with the IRS as a nonprofit 501(c)(3) Corporation.

I'm pleased to be able to say that we accomplished our goals. Our chapter meetings are a safe place to just relax with people who have similar interests. A place to get away from the craziness that plagues our world today. It may only be for a few hours per month, but it helps.

On the education side, we provided clock and watch workshops, live programs at every monthly meeting, and a free workshop prior to the meeting. We also developed our own introduction to horology and clock repair, American time and strike clock repair, as well as specialty workshops such as: the Sherline lathe, reproducing case ornaments, and digital photography. We have many more workshops in the planning stage.

On the communication side, we have an active, up-to-date website, thanks to the dedication and hard work of Dave Coatsworth. (www.NAWCC-ch190.com). We also have established a social media presence. Last but not least, we have continuously published a newsletter dedicated to our chapter (The Chrono Times).

I would like to address our newsletter now. It is the voice of our chapter and is read, not only by our members, but by people interested in horology around the world. This will be our 100th issue. (All past issues are posted on our website.) The list of people who have contributed to our very successful newsletter are too numerous to mention. I am extremely thankful to all of you who have helped to maintain its high standard. The first Chrono Times that I published was December 2006, and it has been published continuously ever since. That's 11 years.

This will be my last edition of the Chrono Times as its editor. The reason is simple, after 11 years, I'm tired. I would like to change my focus to other chapter needs, like creating new workshops. I will be happy to support my successor by writing articles. Unfortunately, as of now, we do not have a new editor. I hope that someone in our membership will agree that our newsletter is important to our chapter and will want to carry on the tradition.

I have enjoyed serving our chapter in this capacity but it is time for someone else to pick up the gauntlet and carry it on. ■

A LITTLE (SMALL) WORK

Clockmakers need space for machinery and efficient workspace whereas watch makers can work in a 5 foot square space, or less, because of the much smaller parts, as the attached pictures indicate.

A customer brought in a very nice Le Coultre wristwatch with (it was assumed) a broken mainspring. Without opening the watch, due to its glass back, it became apparent that it was a detached ratchet wheel that caused the problem. The three screws that attached the ratchet wheel where missing and it should be a simple operation to locate the missing screws in a closed case and reinstall them. It was assumed that the screws came loose.



On opening the watch it soon became apparent that the screws had broken off and the threads were stuck in the barrel arbor. The normal procedure would be to order a new barrel arbor and screws but the customer was leaving the country in a few days and could not wait.



In this particular case, the barrel was a floating barrel, which means it was secured in the barrel bridge with a two piece barrel arbor and was not running between two plates. The barrel arbor actually had six very small screws holding everything together and three heads where broken off, either through fatigue or excessive tightening.

After removing and dismantling the barrel I used a 0.35MM drill shaped at the back end to a sharp point to coax the broken threads out of the barrel arbor using a circular motion.

After successfully removing the screws, all I had to do was reassemble the parts and find replacement screws. (very small screws) This resulted in a happy customer (and watchmaker ■



THE NAWCC , 2017 IN REVIEW

2017 has been a year of renewal for the NAWCC. Five new members of the twelve- member Board of Directors were sworn in at the National in Arlington, TX, in July. For the first time in years, a member from the west coast, Robert Gary of Chapter 190, now sits on the Board for a term of four years. Board member Richard Newman was elected Chair for the next two years, Jay Holloway was elected Vice Chair, and Chris Miller was named Treasurer. This newly constituted Board, with the assistance of the new Executive Director, Tom Wilcox, has begun a top to bottom review of our Association to assure that the best policies and procedures are in place. Every committee is being reviewed to guarantee that the committees are viable, contributing, and have the direction, guidance, and resources needed to accomplish their mandates as set by the Board and the Bylaws of the organization. Committees that have languished in the past few years are being revamped, replaced, or eliminated.

The new Executive Director, Tom Wilcox, took over the reigns of the Association in August. As the new Executive Director, Tom has been busy learning the ins and outs of the organization while keeping an eye on how to better, and more effectively, use the staff and facilities. The ED has established a goal of improving the use of staff time by better utilizing software and procedures to eliminate unnecessary tasks and duplicative efforts. An increased emphasis is being placed on education as a service to members and the public. Tom has been traveling extensively to connect with local chapters and individual members by attending their meetings and Regionals.

In September, the NAWCC Ward Francillon Time Symposium was held in Boston, MA, on the topic Horology in Art. Speakers from the world of fine arts and horology made presentations ranging from timepieces and their meaning in the art of Winslow Homer to a photographic tour of timepieces of the Chinese Qing Dynasty. In addition to the lecture series, tours were available for the Chelsea Clock Company, and the Harvard University Science Center Collection of Historical Scientific Instruments given by the collection curator, Dr. Sara J. Schechner and collection horologist, Richard Ketchen. A detailed report on the Symposium can be found on-line at: <http://horologyinart.com/report.html>

2018 will be a year of both renewal and celebration for the Association. Our 75th Anniversary will be celebrated with a major event, the National Convention, to be held in

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York, PA, in July. Special events are planned, including special tours of the museum, library, and Association offices, which are located within 20 minutes of the convention site. More information on the 2018 Convention can be found at: <http://75thanniversary.nawcc.org/>.

The 2018 NAWCC Ward Francillon Time Symposium will be held at the Henry Ford Museum and Greenfield Village in Dearborn, MI, from September 20 through the 22nd. The subject is Time, Tools, and Travel.

Every year the NAWCC presents numerous opportunities for members, from on-line videos and courses, to articles in our printed media, to real-time activities such as regionals, the national show, and special events. Every member is encouraged to take full advantage of all their organization has to offer. ■

Thank You



Barbara and Al Rotter



Dave Weisbart presenting the program



looking for bargains

Chapter 190 would like to extend a big thank you to Al and Barbara Rotter (new members) for hosting a holiday brunch at their home in Malibu for our chapter members. Their holiday decorations were spectacular and rivaled New York City's Fifth Avenue store windows. They not only opened their home to us, they also opened their hearts and made certain that everyone felt at home. Al was the consummate bartender and never allowed anyone's glass to be empty. His well-stocked bar contained everything from soft drinks, juices, beer, wine, liquor, and champagne.

Those of you who were able to attend had the privilege of viewing their breathtaking collections. The brunch was delicious consisting of; baby back ribs, scalloped potatoes, roasted brussels sprouts, salad, rolls, and for dessert there were two flavors of cheesecake, and apple bread pudding with a killer Baileys Irish Cream whipped cream topping. No one went away hungry. As a side note, none of the food was catered or store-bought. Barbara and Al made it all from scratch.

Barbara invited another Malibu resident, Brooke Halpin. Brooke is a classically trained musician, award winning composer, published author, painter, and arguably, the worlds expert on The Beatles. He has had the good fortune of knowing The Beatles personally, and has just published a new book, *"Experience The Beatles"*. Brooke entertained us with stories of The Beatles, and sang many of their songs while accompanying himself on his guitar.

It was a very enjoyable Sunday afternoon with the Rotter's, and we would again like to thank Al and Barbara for their generosity and hospitality. ■

Editor: Ken McWilliams

EDUCATIONAL OPPORTUNITIES

by Mike Schmidt

Our free mini workshops will again be a part of our meetings. The workshop begins at 11:00 A.M.

January: Watch winders. Jorge Montoya will lead this workshop. He will cover automatic wristwatch winders and various repair tools and techniques.

February: Subject TBD. Ferdinand Geitner will lead this workshop. The subject hasn't been determined yet, but it is certain to be interesting.

March: Subject TBD. David Spong will lead this workshop. While the subject hasn't been determined yet, his workshops are always a learning experience.

This is an open forum workshop, so bring your problem clock or watch and let the group help you. Don't let your clock problems baffle you, Come and let our experts confuse you.



Happy Birthday

November

Dave Coatsworth, Ferdinand Geitner, Jim Gilmore,
Ernie Jenson, Tyler Kalb, Keith Lord,
Bryan Mumford, Peter Racette, Norman Ray,
George Sessions, & Peter Wedel.

December

Gene Corriden, Dutch Friou, Gary Girod,
Carol Heise, Robert Ingham, Neil Kuns,
Stephen Marks, Bill Robinson, John Swift,
and Daniel Weiss (102).

Chapter 190 is fortunate to have members who are willing and able to share their knowledge and experience with those who are just getting started in clock and watch collecting, repair, and preservation. Our last introductory class of 2017 was a success and we look forward to offering another when we have the necessary number of interested students. If you know anybody who is interested, or if you are interested, please let me know so that they can be added to the interest file.

By the time you read this, the 190-1A American Count Wheel (2 Day Class) should be about two weeks away, and the F301 Basic Pocket Watch Repair (4 Day Class) should be about four weeks away. If you were interested in either of these classes, but were not able to attend, please let me know. I will put you on the "interested" list and be certain to contact you when the next class has the necessary enrollment numbers to begin organizing it.

This brings me to the next point of information that needs to be covered here. If you contact me, you'll need to know that I'm not Mike Schmidt. To that end, please allow me to introduce myself to those of you who don't know me.

My name is Tom Ferkel and over the past few months, the educational director responsibilities have drifted from Mike Schmidt (a very hard act to follow) to me. The transition has been gradual, and is still in process, so don't hesitate to continue to contact Mike with questions, but know that you can contact me as well. Mike, after so many years of hard work and dedication to Chapter 190, is undoubtedly better qualified to field the various questions, suggestions and concerns that you may have, but at this point he will share whatever issues you may have with me and I will assume ultimate ownership. Eventually, I hope to make our chapter's education program seem as easy, automatic, and seamless as Mike has.

Please don't hesitate to contact me.

My phone is: **661-775-1652**. I have also set up a dedicated email account for the chapter's educational offerings. That address is: **Chapter190education@gmail.com**.

You can also go to our website for more information as well.

In closing, let me tempt you with a few of the ideas for classes that I've heard people express an interest in. There has been some talk of offering a *Dial Painting* and *Reverse Glass Painting* class. I've also heard mention that there is interest in *Anniversary Clock Repair and Maintenance*. If either of these are something that might be of interest to you, please speak up so that we can start gathering names. Likewise, if there is something that you would like to see offered, please suggest it.

If there are enough interested students and a qualified instructor, we can look at the possibility of offering whatever people are willing to sign up for.

I look forward to working with the education committee in the coming year. With the participation and curiosity of all our chapter members, I know that 2018 will be a great year. ■

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
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**Clock
Repairs,
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Jorge Montoya

Complete Watch Service Center

Repair & Restore all American & Swiss watches.
12 years as a Rolex technician. We maintain a
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In business since 1977.

Sales and Restoration of both new and antique
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FOR SALE

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I will have a huge selection of watch repair
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buy at the Chapter 190 meeting.

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dave@daveswatchparts.com



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Precision electronic timing tools for clock and
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start at \$250. Full information is on the website:

www.WatchTimer.com

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Santa Barbara, CA 93110
(805) 687-5116

WANTED

Reward

Wanted - Information

Chapter 190 is looking to receive any information Regarding the
present location of the Ventura County Courthouse Clock. The Seth
Thomas model 15 clock was installed in the 1875 courthouse in
1900. The last sighting of this clock and its bell was a display at the
1987 NAWCC National Convention at Anaheim.

Contact Mike Schmidt at: eaglecreekclocks@msn.com

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 Ph: 1-206-364-7374

- Chronometer -

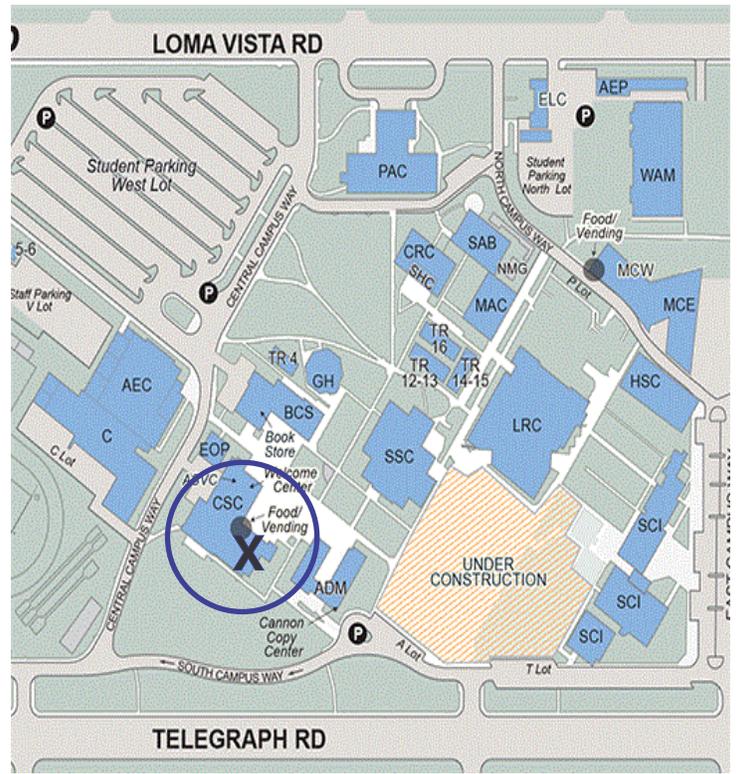
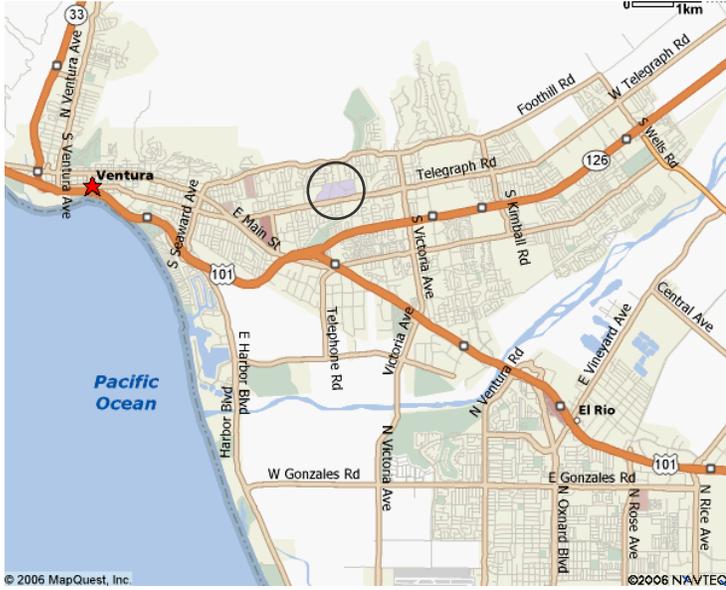
Hamilton 21 Marine Chronometer in running condition, with
inner box and gimbals; outer box not essential.

Please contact: **Giorgio Perissinotto**

E-mail: giorgio@spanport.ucsb.edu

Antique French 2 or 3 dial calendar clocks.
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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

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



November - December 2017 issue

NEXT MEETINGS
JANUARY 21
FEBRUARY 18



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

RENAISSANCE ANTIQUES

Our Basement Clearance Showroom is closing!



NOT BY OUR CHOICE! Our landlord is converting the building into a hotel, and is requiring all tenants to vacate the premises **by the end of December!** We have 3,000 square feet of exceptional inventory that will not fit into our main showroom two doors away, including over 100 clocks of all types. Now you can own these wonderful antiques at **UP TO 80% OFF** their original prices, with many items reduced to their cost or below!



Every single item has already been reduced 20%-80% below its original price
Now mention this flyer to receive • an EXTRA 15% discount off all furniture purchases
an EXTRA 10% discount off all other purchases • and receive a FREE GIFT with any purchase
Plus: Ask us about our Special 1-Year 0%-Interest Financing Option!



NOTE: Our new showroom two doors away at 496 First St (pictured at left) is NOT closing! and will continue to serve you 7 days a week from 10 to 6

Open Saturdays and Sundays 10-6
Weekdays by appointment or chance
Final day is **Sunday, Dec 31st!**

486 First Street, Solvang (Lower Level)
Ron & Julie Palladino • 805-452-5700
www.renantiques.com • info@renantiques.com



San Fernando Valley Chapter 75 of the NAWCC

Presents the

2018 Mini-Mart

Sunday February 25, 2018

At the Granada Pavilion, 11128 Balboa Blvd., Granada Hills, CA

70 Tables
of Antique Watches,
Clocks, Tools &
Books

Plus Consignment
Table

(Limit 2 Items per person)

**FREE PARKING
& COFFEE**

For more Information Call:
(818) 349-8031 or
cstdennis@earthlink.net

Tables assigned on a first come basis.



SCHEDULE:
11:00 AM - MART TABLE SETUP
11:30 AM - MART OPENS
2:30 PM - MART CLOSES

ADMISSION

\$7.00

(admission at the Door \$10.00)

TABLES

\$20.00

This Event Sells out
Quickly every year!
Get your Table Res-
ervation in early.
Tables are sold in a
“First Come, First
Served” Bases!

----- sign up form -----

Make Checks payable to San Fernando Valley Ch # 75

THIS FORM MUST BE RECEIVED BY February 21, 2018

PLEASE PRINT CLEARLY

Send to

Chapter 75 Winter Mini-Mart
7344 Bonnie Place
Reseda, CA 91335

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

NAWCC # _____ PHONE: _____

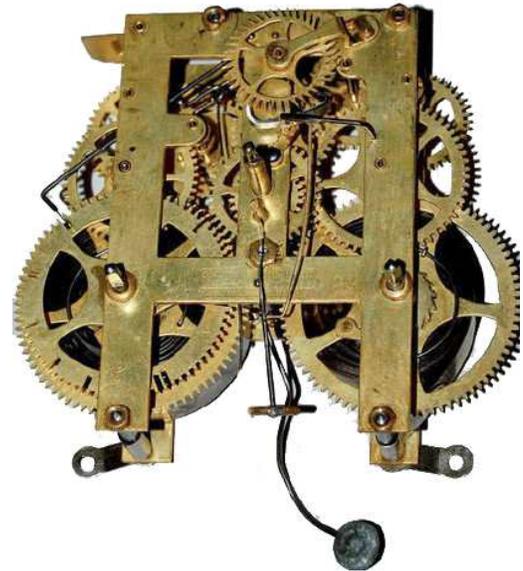
Email: _____

TABLES _____	X \$20.00 _____
ADMISSION _____	X \$ 7.00 _____
Admission at the Door.....\$10.00 Each	
TOTAL DUE	\$ _____

190-1A - The American Count Wheel Striking Clock

Two day workshop, movement
and specialized clock tools supplied

Register early...this workshop is sure to fill quickly!



January 13th and 14th, 2018

Santa Paula Odd Fellows Lodge

868 Main Street, Santa Paula, CA.

- We will furnish an open frame, count wheel, time and strike movement for you to use in this workshop.
- We will also provide all specialized clock repair tools required such as; spring winders, let-down keys, etc.
- You may bring your own hand tools if you want, such as tweezers, needle nose pliers, nut drivers, etc.
- You should bring some form of magnification such as; eye loupe, clip on loupe, optivisor, etc.
- You will learn how the count wheel controls the strike hammer on the hour and half hour.

Tuition \$200.00 - Payable to NAWCC Chapter 190
Limited class size. First come, first served.

Place reserved by date pre-payment received.

Send check, name, and contact info to:

Mike Schmidt: 2317 Eagle Creek Ln. Oxnard, CA 93036

4 days of instruction: only \$360

Tuition \$300 + \$60 Classroom Fee

Instructor: Ferdinand Geitner
Coordinator: John Kitchens
Phone: (805) 216-2569
email: steamandtrains@gmail.com



Friday January 26 – Monday 29, 2018

Dudley House Museum – 197 Ashwood Dr. Ventura, CA. 930

This is a pocket watch course for entry-level students wanting to learn the fundamentals of watch repair. It contains hands-on practice in component definition, part handling, disassembly, cleaning, re-assembly, minor troubleshooting and testing. Most students have time to work on more than one watch during the four-day session. There is no pre-requisite for this course.

Pocket Watch Movement Requirements for F301:

IMPORTANT: The only type watch the student can use in this class is a size 16-18, 7-17 jewels, American made + operating Elgin, Waltham, Illinois or Hamilton (it must be running) pocket watch. Some watch movements from these companies were NOT made in America and they are not acceptable for this class. These watch movements can be purchased at NAWCC Regional or Chapter meetings. If you have any questions about the movement for this class you can call the Class Coordinator: John Kitchens at (805) 216-2569 or via email at steamandtrains@gmail.com

Limited Class Size!

First come, first serve! Places reserved by pre-payment
Mike Schmidt: 2317 Eagle Creek Lane, Oxnard, CA 93036
Register early... this workshop is sure to fill quickly!



F301 Pocket Watch Instruction

- .. Pocket Watch Introduction
- .. Why Disassemble A Watch?
- .. Instructor Explains Student's Watches
- .. Study Student's Watches & Their Operation
- .. Remove Movement From The Case
- .. Disassemble Hands And Dial
- .. Disassemble Dial Train
- .. Disassemble Winding Mechanism
- .. Remove Spring Barrel Bridge
- .. Disassemble Watch Bridges and Plates
- .. Clean Movement
- .. Identifying Watch Components
- .. Practice Assembly Of The Wheels
- .. Assemble Spring Into Barrel
- .. Assemble Winding & Setting Mechanism
- .. Oiling Watch
- .. Escapement
- .. Review Other Procedures

Required Student Supplied Tools

- .. Screwdriver Set, TS #16971 or similar
- .. Peg wood; TS #10462
- .. Tweezers; TS #19276; 3c or #5
- .. Oiler; TS #23295 or #13248
- .. Loupe/Magnifier 3 & 5 power or visor with 5 power
- .. Pliers; small chain & flat nose
- .. Hand Remover; TS #15481 or #13427
- .. Bench Blower; TS #15800 or similar
- .. Movement Holder (see picture on NAWCC website)
- .. Bench Plate (White cardboard 14"x10" or TS #18228)
- .. Movement Cover (1qt Tupperware or similar)
- .. Bench Block TS #13449
- .. Pith Wood; TS #10459
- .. Bench light # extension cord
- .. Oil cup; TS #20045 or similar
- .. A student made watch assembly bench (see NAWCC website for description)

Instructor Furnished Tools

- .. Stake Set
- .. Hammer
- .. Cleaner Machine
- .. Cleaning and Rinse Solution
- .. Timing Machine
- .. Power Distribution Cord
- .. Extra Jewel Screws
- .. Set of Student Tools
- .. Screw Driver Sharpener
- .. Oil Stone
- .. Let Down Keys
- .. Mainspring Winder
- .. Demagnetizer
- .. Oil
- .. Grease
- .. One Dip
- .. Screw Slot File

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Born and educated in Austria. Mr. Geitner qualified as a Master Watch & Clock Maker at the College for Horology & Precision Engineering in Karlstein Austria, 1968. He worked for the Omega Agency in Vienna then emigrated to Great Britain. After seven years he became the Senior Technician/Conservation Officer at Prescott Museum for Clocks & Watches, responsible for the Liverpool Museum/Prescott Museum & Horological collection. He has been a guest speaker at an International Conservation Symposium in Greenwich, England. In 1988 he accepted a repair & restoration position in California where he has also lectured for the NAWCC. In 1995 he opened a restoration workshop in Montecito, CA. Mr Geitner holds Omega & Seiko Certification and is a qualified Field Instructor in Horology from the NAWCC School of Horology, PA.