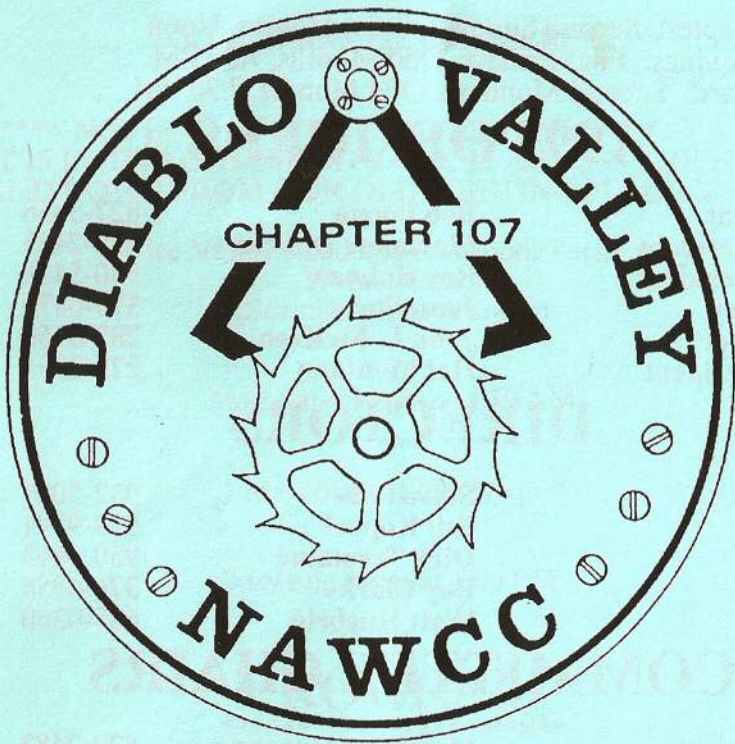


BULLETIN



JUNE 1993

VOLUME 87

DIABLO VALLEY CHAPTER 107

National Association of Watch and Clock Collectors, Inc.

Chapter Motto: "Accent on Education"

MEETINGS

Chapter: Second Sundays, Even Months, Noon
Evenings: First Fridays, Odd Months, 7:30 PM
Board: Second Mondays, Odd Months, 7:30 PM

1993 OFFICERS

President	Bob Boone	827-3858
Vice President	Marianne Duncan	820-2483
Vice President	Roy Holman	530-5428
Secretary	John Stohr	376-6476
Treasurer	John L. McKeen	283-8366
Past President	Hal Montano	223-7931

DIRECTORS

1992/3	Steve Fabes	932-5091
1992/3	Bill Koppel	934-9391
1993	Dick Tremaine	939-0663
1993/4	Roy Clark	376-6356
1993/4	Walt Huebrig	685-0260

COMMITTEE CHAIRS

Display	Marianne Duncan	820-2483
Drawings	Jack Coulter	254-0746
Library	Sandy Cuthill	686-3144
Mart	Hal Montano	223-7931
Membership	Steve Fabes	932-5091
Nominating	John Stohr	376-6476
Photo	Roy Holman	530-5428
Program	Roy Holman	530-5428
"	Marianne Duncan	820-2483
Refreshments	Bud Ehler	228-5387
Editor	Tom Beales	376-6212

MEETING INFORMATION

SUNDAY, JUNE 13, 1993

at

CIVIC BANK OF COMMERCE

***** NOTE: THIS IS A NEW LOCATION. *****
IT IS IN THE COMMUNITY ROOM ACROSS THE HALL
AND DOWN FROM OUR OLD MEETING PLACE.

Tice Valley Road and Rossmoor Parkway
Walnut Creek
(See map on back cover)

Mart Set-up Starts 11:30 AM

Mart Starts 12:00 Noon

Meeting starts at 1:00 PM

PROGRAM

THE STORY OF THE HAMILTON ELECTRIC WATCH

A presentation by Rene Rondeau

PRESIDENT'S MESSAGE

We've used our new meeting room one time now. While it is a bit cramped we may be able to use it for most of our meetings with some judicious rearranging. After our June meeting we will be in a better place to decide. We will definitely book a larger room for the December Pot Luck and Auction.

Our new committees will be working on projects including the library, a possible new tool library, and a local Chapter awards plan. These committees are as follows:

Library: Bill Koppel, Ray Clark, and Sandy Cuthill. They will explore and make recommendations about possible changes to the current library.

Tool Library: Walt Hubrig, Bill Koepfel, and Steve Fabes will look at and make recommendations about how we might develop a workable loaning tool library.

Awards: Ray Clark and Marianne Duncan will suggest criteria for and levels of awards within our local chapter.

The first name in each list will initiate a meeting and serve as contact person with the board and the president.

Thanks to our Banner Committee for a very professional and outstanding banner. The main "thankees" are John Stohr's wife, John, and Marianne Duncan. Harold Montano also helped get this project off the ground and will see that the banner gets to the national. Again, a big THANK YOU to you guys.

Additional thanks go to Marianne for her survey on basic information about your clock interests. This information will serve as the basis for an item in each Bulletin on "How I got started collecting clocks".

Finally, the board is priming the pump of the drawings for October and December with addition of a YEAR'S MEMBERSHIP IN CH. 107 at each of those meetings. That will surely increase interest in the drawing. Good suggestion Jack.

DIABLO VALLEY CHAPTER EXECUTIVE COMMITTEE MEETING MINUTES

The Executive Committee met at President Bob Boone's home in Concord on May 10, 1993. Directors Walt Hubrig, Dick Tremaine, Bill Koppel and Harold Montano were absent.

The June 7, 1993 meeting will be held at the Civic Bank of Commerce, Walnut Creek. Even though the room is small, a revised seating plan will be tried, and if still too small a new location must be found. Jim Rossi is looking into the Alamo Women's Club. The Friday night meetings will still be at the Civic Bank.

Bob Boone will try and reserve the Cowell Homeowners Club for the December Xmas Buffet Meeting. It had been proposed to hold a Sunday meeting at this location, but lack of window coverings prevent having any slide or film presentations.

The August program will be the Ugly Clock Contest, Cookie Bake-Off, and White Elephant auction. Bob Boone will introduce a new feature at the June meeting - "My Favorite Clock".

Treasurer's Report: We have \$1,923 in checking and \$12,001 in a CD due in July. John McKeen will check with other banks and S&L's for free checking and will break up the CD into smaller amounts with various terms.

Liability insurance is due in July. John McKeen will check on increasing the medical and will increase it if the premium is less than double the \$158 current rate.

Steve Fabes reported that the Vallejo Street Clock Project is still open. He also reported we have three new members since April.

Bob Boone will contact Tom Beales on issuing Friday night meeting notices.

BATTERY DRIVEN WATCHES

Battery driven watches have only been around for a little over 35 years, a short period in the span of Horology. Can you name the first one to be marketed?

Our speaker for June is Rene Rondeau, author of "The Watch of the Future", The Story of the Hamilton Electric Watch. Mr. Rondeau is a Bay Area resident and his relatively new book is already in its' second printing.

Please bring to the June meeting for display, any early examples of electric watches you may own.

If you have back issues of the NAWCC Bulletins, you'll find a very favorable book review done by Henry Fried on page 566 of Bulletin Number 274, October 1991.

NEW LIBRARY BOOKS

DeCarle, Donald	Practical Clock Repairing
Conover, Steven	Chime Clock Repair
Ly, Ivan Duy	American Clocks, Volume 1 American Clocks, Volume 2
Loomes, Brian	White Dial Clocks
Swann, R. E.	Details on American weight and Spring Driven Clocks (With exploded views) 1977 Edition - 19 weight/120 spring 1978 Edition - 20 weight/142 spring

Correction: A number of people were in on the initial formation of Chapter 107 and all of the work that proceeds its formation. While John Morgan did his bit, a lions share of the leg work was done by John and Dorothea Sanderson, Fred and Sandy Cuthill, Scott Hampton and Lisa Halburg.

ABOUT MERCURY PENDULUMS AND INVAR PENDULUM RODS

by, Bob MacIver

From time to time I've heard or read about mercury pendulums with Invar rods. This brings up two questions:

- . Why a mercury pendulum?
- . Why an Invar rod?

The answer to both is about the same. To correct or eliminate the temperature error of pendulum clocks. However, if the two are used together it results in defeat of the attempt.

George Graham invented the mercury pendulum in 1721 to correct for the expansion or contraction of the then used brass or iron pendulum rod when the temperature rose or fell, which made the clock run slow or fast. The much greater coefficient of expansion of mercury compared to brass or iron made possible the expansion of mercury upward from the bottom of the vial to overcome the expansion of the longer length of metal rod in downward direction, keeping the effective length of the pendulum the same.

Lets look at question No. 2. Invar alloy invented 1898 has a coefficient of expansion of almost 0. Thus there is no temperature error to correct. So, if one were to use the two together (mercury and Invar) the mercury would re-introduce the error which the Invar had eliminated.

Over the years there have been many attempts to correct temperature errors, some practical, some not, such as Ellicott's Pendulum, Harrison's Gridiron Pendulum, also a large zinc bob on an iron rod, etc.

Household clocks in thermostat controlled homes are not usually accurate enough to need a temperature corrected pendulum due to other errors of a larger size than caused by a rather small temperature change.

OLD WOODSCREWS AND THE CLOCKS

by Phil Russell

The first very crude wood screws were used in about 1720 in the furniture industry, primarily to replace nails for attaching hinges. Making these metal screws by hand was a slow and difficult job. The doors of old Grandfather clocks were attached by these old screws. These hand made screws were very crude, the threads were hard to construct evenly and ended up very irregular and rough. The shank of the screw was rough, not well rounded. Marks of the hammer may be seen on the shank. The old screws did not have a point; they were cut off.

The screw heads were made by pounding the ends, and were roughly rounded. The screw head slot was made last and was very, very narrow and usually off center. It took a sharp screwdriver to get into the slot. The length of the screw was rarely longer than half an inch. As expected from the labor to make them, the screws were very expensive.

Before the screw, hinges were applied by a nail that was cinched (bent over) and this usually caused damage to the case or wood in the bending and clinching process. The use of the screw did not become widespread until around 1780 (after the Revolution). However, the new screws looked the same. The shank was made from a drawn wire, was more round, threads were more spiral-like, but still rough, there still was no point on the screw, and the slot was still very, very narrow.

Trying to date an object by the old screws is very difficult. However, in about 1860, a point was added to the screw. If the screw has a point, it was probably made after 1860.

Warning: Do not remove the old screws unless you have to. The old irregular thread will not hold when replaced and oversize screws will split the wood. If you replace the old screw, use a drop of white glue and replace as you marked the screw slot before removal.

The old adage: "Don't Screw Things Up". Be careful!

CHAPTER #107 MART

WANTED TO BUY:

Need metric or standard micro tap and die set for watch/clock work. Will buy or trade. Will reward any leads (10% of purchase price) that result in purchase. Call Steve Fabes at (510) 932-5091.

WANTED TO BUY:

English or French skeleton clocks pre 1830 preferred. American items are also of interest. Again, will pay 10% finder's fee. Call Steve Fabes at (510) 932-5091.

FOR SALE:

Wide variety of electric clocks, circa 1920 thru 1950. If interested call Steve Fabes at (510) 932-5091.

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Lost or Misplaced?

At our April meeting Steve Fabes, our Membership Chair-person bought four watches from Lenny and had them in a 6 x 6 gold cardboard box such as you might get at a department store. He had them on top of a box of his own material and when he went to leave they were not to be found. The box contained the following items:

- A Hamilton man's gold filled square dial watch without a crystal
- A man's gold filled Bulova with a tank dial
- A man's white gold filled Bulova with double hinged case
- A man's gold filled Elgin with a white gold bezel

It is certainly possible to pick up something like that and inadvertently walk off with it so check your stuff. If you find them, please give Steve Fabes a call or call me, Bob Boone at 827-3858.

1993 MEETING AND PROGRAM CALENDAR

Listed below are the upcoming dates for Sunday noon Chapter meetings, Friday evening Chapter meetings and the Monday evening Executive Board meetings.

Mark your calendars now!

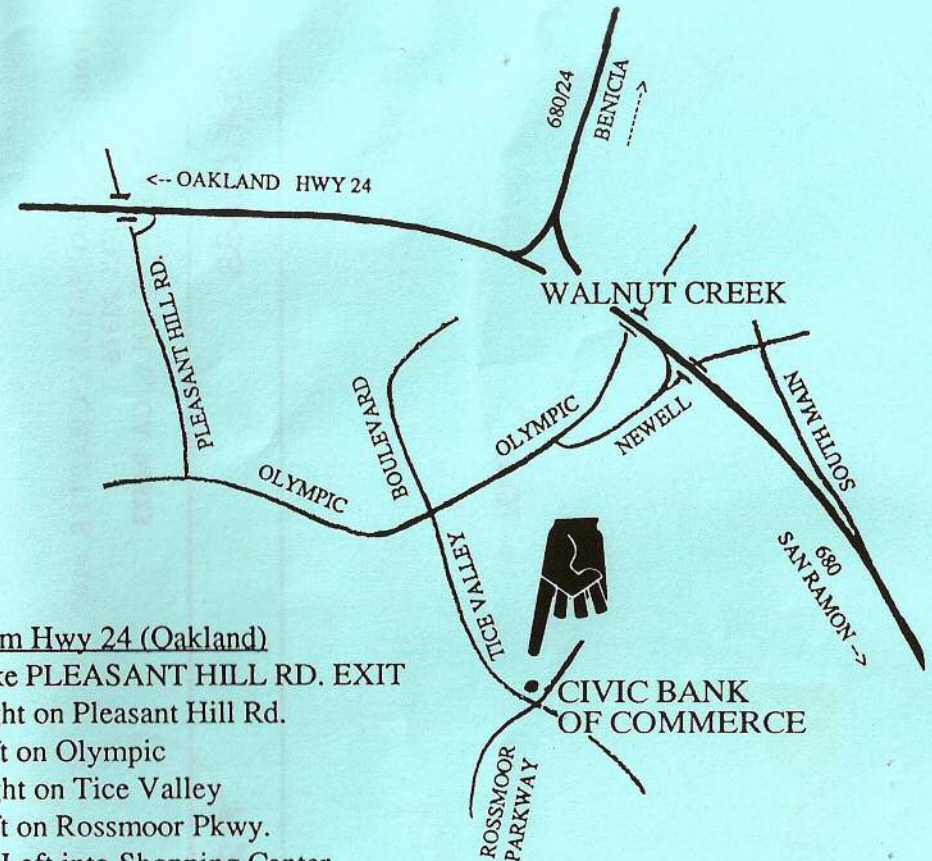
<u>Sunday Meetings</u>	<u>Friday Meetings</u>	<u>Executive Board Meetings</u>
Jun. 13	No July	No July
Aug. 8	Sep. 10	Sep. 13
Oct. 10	Nov. 5	Nov. 8
Dec. 12		

Please be thinking of ideas for 1993 programs. Let Roy Holman or Marianne Duncan know of your ideas.

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Technical answers to your clock repair questions will be handled at our next meeting by our officially designated resource person - Royal English. Use him and don't let him get go away disappointed. In subsequent meetings, Walt Hubrig and Jack Coulter will take their turns.

DIRECTIONS TO CHAPTER MEETINGS



From Hwy 24 (Oakland)
 Take PLEASANT HILL RD. EXIT
 Right on Pleasant Hill Rd.
 Left on Olympic
 Right on Tice Valley
 Left on Rossmoor Pkwy.
 1st Left into Shopping Center

From Hwy. 680 (San Ramon)
 Take SOUTH MAIN EXIT
 Left On Newell
 Left on Olympic
 Left on Tice Valley
 Left on Rossmoor Pkwy.
 1st Left into Shopping Center

From Hwy 680/24 (Benicia)
 Go South on 680 in Walnut Ck.
 Take NEWELL EXIT
 Right on Newell
 Left on Olympic
 Left on Tice Valley
 Left on Rossmoor Pkwy.
 1st Left into Shopping Center

Home Federal is between American Bank & Trust and First Interstate Bank. Meeting Room is at rear.

Annual Chapter Membership \$15.00

Guests are most welcome, but due to our tax exempt status, only NAWCC members can participate in the MART.