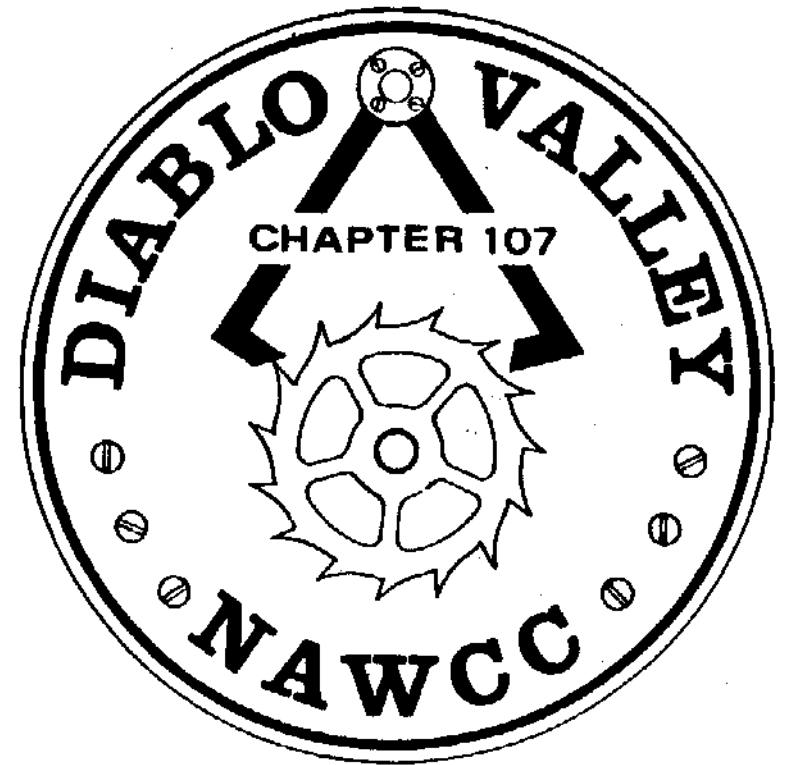


BULLETIN



February 2010
Volume 187

President's Message

Greetings members of Chapter 107! Although I've been a member of this Chapter for 3 years or so, it's primarily been on the periphery. Most of you probably know me more by my face than by name. I'm looking forward to changing that and becoming better acquainted with all our members. Of course, this will be fairly easy, as I understand one of my primary duties will be welcoming everyone at the meetings and mart. By the way, I'm sure Price will likely mention it as well, but please make my first month of checking badges a bit easier by ensuring that all of our 2010 dues have been "**Paid**" and that you have the latest jade green membership badges.

Congratulations goes to all that contributed to make our '09 Christmas party and Auction another successful and fun event. It was well attended and having two auctioneers was both creative and effective in keeping us on schedule. The nation's poor economy did have it's affect on a few higher-end items not selling, yet there was fast and fun auction action for the mid-range and less expensive timepieces and tools. A lot of folks went home with wonderful items, and both buyers and sellers were happy with their transactions. And, what would we do without precious Sophia Gardner documenting the event with her photographic skill? Thank you, Sophia!

Please take a minute to look at the inside front cover of this *Bulletin* to review the changes from this last election.... Hmmmm.... Volunteer-lection. I would like to thank all the other Officers, Directors, and Committee Chairs, both new and returning for another year's service. This Chapter takes a collective effort to operate, and not all the tasks & duties are necessarily all fun. That being said, start thinking now about serving next year! I'll be addressing a new membership drive in future Bulletins.....

So, who is this new President, and where does he come from? Well, although I go, and answer by the name Chip, my legal name is George, and yeah, it's the old Chip-off-the ol'-block, as I'm a Jr. I spent my early career years mostly working with wood, or
continued on page 15

Editor's Page

2009 was an exciting year. Among other things, we moved to a new location, obtained a new charter, and resurrected the mart. Ross Smith, Walt Hubrig, Tom Kochmann, and Roy Holman deserve special recognition. Ross found our new home. Walt researched the issues associated with the chapter charter, saved us considerable money by changing bank accounts. and organized the holiday luncheon. Tom promoted the mart. Roy volunteered to serve as Secretary when John Stohr unexpectedly passed away. I also want to thank the officers, board, and committee chairs.

Joe Kanter kindly provided me with a list of important dates in the history of clocks. I plan to use them a few at a time in future issues.

The proposed budget for this year is given on page 7. You will notice that no funds have been allocated to quite a few lines. In some cases, in particular photos, this is because members cover the charges. (Thank you Soph.) Other lines have been retained to remind us of possible expenditures and opportunities to generate income. Please think about the budget and be prepared to discuss any changes you think are needed.

I realized while preparing this *Bulletin* that with the change of officers, no one had arranged for a speaker. Arranging programs was one of the many tasks that John Stohr did even though it was not officially his responsibility. Now that he is gone, we need to define who is responsible. Fortunately I have a presentation already prepared that I will give.

It has been pointed out to me that the overlap of our meetings with Chapter 94, De Anza, impacts both chapters' ability to develop their membership and marts. Both might benefit if one moved to a different Sunday. Because we have had the second Sunday schedule much longer than they have, I think they should be the one to change. Of course they may disagree, but it could not hurt to ask. If they refuse, we can think about our options.

Price

NEW CHAPTER CHARTER

As you may know, the NAWCC has been encouraging chapters to adopt a new standard chapter charter defining the relationship between the chapters and the national organization. One benefit to the chapters of doing this is that they will be included under the NAWCC's 501(c)(3) not-for-profit status. Because of recent changes to the tax codes, it was decided that Chapter 107 should participate in this program. Our application was approved and the new charter issued. A copy has been inserted in the middle of this issue. Roughly 40 chapters elected to participate. Once NAWCC obtains Group Exemption Status for the participating chapters, donations to Chapter 107 beyond dues will be tax deductible.

As discussed in the October issue, our original charter from 1978 is missing. If you have it, please, let one of the officers know. Thanks.

SHARING EMAIL ADDRESSES?

In an effort to continue growing the mart, it has been suggested that we ask other Northern California chapters to share the email addresses of their members. If they agree, they will likely ask us to do the same. If you would prefer that your email address not be shared, please, contact Price Russ. No street addresses or other information would be shared.

IN MEMORIAM

With sadness we report the death on January 8 of Bert Hayenga. Bert, the father of Kathy Taylor, gave several talks to the Chapter on the subject of torsion pendulum (anniversary) clocks and the device he invented to put them in beat. This photo of Bert with one of his beloved clocks is from our June 2002 meeting.



Our deepest sympathy goes to Kathy, Jay, and their family.

2010 BUDGET

| CATEGORY DESCRIPTION | 2009 Actual | 2010 Budget |
|-------------------------------------|-------------------|-------------------|
| INCOME | | |
| CD INTEREST | \$652.96 | \$600.00 |
| MEMBERSHIPS | \$1,125.00 | \$1,100.00 |
| OTHER | | |
| Auction Sales | \$273.00 | \$200.00 |
| Chapter Pins | \$10.00 | \$0.00 |
| Library/Tools/Video Sales | \$0.00 | \$0.00 |
| Miscellaneous | \$100.06 | \$0.00 |
| Programs | \$0.00 | \$0.00 |
| Refunds | \$210.99 | \$0.00 |
| Regional | \$0.00 | \$0.00 |
| Christmas Lunch | \$1,120.00 | \$1,000.00 |
| TOTAL INCOME | \$3,492.01 | \$2,900.00 |
| EXPENSES | | |
| BULLETIN & NOTICES | | |
| Postage | \$170.63 | \$200.00 |
| Printing | \$207.53 | \$300.00 |
| TOTAL BULLETIN & NOTICES | \$378.16 | \$500.00 |
| FOOD & DRINK | | |
| Christmas | \$1,400.72 | \$1,400.00 |
| Meetings | \$0.00 | \$60.00 |
| Picnic | \$210.39 | \$250.00 |
| TOTAL FOOD & DRINK | \$1,611.11 | \$1,710.00 |
| INSURANCE | \$502.92 | \$0.00 |
| LIBRARY: Books, Tools, Videos | \$0.00 | \$0.00 |
| MISCELLANEOUS | | |
| Bank Charges | \$46.21 | \$0.00 |
| Donations | \$0.00 | \$0.00 |
| Door Prizes | \$0.00 | \$0.00 |
| TOTAL MISCELLANEOUS | \$46.21 | \$70.00 |
| P. O. BOX | \$132.00 | \$140.00 |
| PHOTOS | \$0.00 | \$0.00 |
| PROGRAMS | \$0.00 | \$0.00 |
| REGIONAL | \$0.00 | \$0.00 |
| RENTALS | | |
| Acalanes High School | \$22.00 | \$0.00 |
| Grange Hall, Danville | \$120.00 | \$480.00 |
| TOTAL RENTALS | \$142.00 | \$480.00 |
| TOTAL EXPENSES | \$2,812.40 | \$2,900.00 |
| OVERALL TOTAL | \$679.61 | \$0.00 |



Mike Waddell & Jerry Konicek



Wayne English, Price Russ, and Jason Evans



Linda Towers, Celeste Graham, & Carol Slatten

December 2009 Meeting

Photos by Sophia Gardner



Chip Kumparak



Bob & Tina Thomas



Helen & Roy Clark



John & Jean McKeen



Kathy & Jay Taylor and Tosh Yumae

SELF WINDING WATCHES

The first self-winding pocket watches date from Perrelet and Breguet in the late 1700s. (For more on Perrelet see Volume 171, June 2007 of the *Bulletin*.)

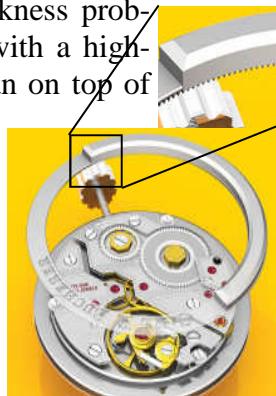
Having seen during World War I that most of the dirt entering watches came through the stem, John Harwood set out to build a wrist-watch without a winding stem. In 1926 he introduced a self-winding watch with a swinging lever inspired by a seesaw. It was only marginally successful mechanically and not at all financially.



Rolex is generally considered the developer of the first successful self-winding watch. They used a rotor that spun around rather than swinging back and forth. The problem with this mechanism was that it was rather thick. Patek Philippe improved on this concept by using rotors made of gold rather than brass. The higher density of the gold allowed the rotor and therefore the watch to be thinner but not as thin as a manually wound watch.

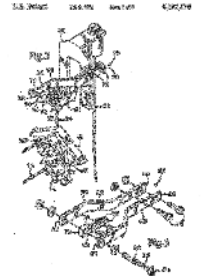


Carl F. Bucherer recently attacked the thickness problem by replacing the center-pivoted rotor with a high-density disk ring that lies outside rather than on top of the movement. This ring rotates on carbon rollers. The inner edge of the disk is a crown wheel, see enlargement, that engages clutch wheels as it turns. Two hours of wear is said to be sufficient to keep the movement going for two days. The movement can be found in a line of movements under the *Patravi EvoTec DayDate* name. If you must ask, the company describes the pricing as very reasonable. Ones cased in stainless steel are priced around \$15,500. Basically that puts it between the Rolex and the Patek Philippe.



Wait. Don't Tell Me!

The illustration is from a 1996 patent. What device is described? Who is the inventor?



The Brocot escapement is well known to collectors of French clocks. Its invention is credited to various members of the Brocot family whose involvement in clock making spanned five generations. Because the escapement requires a large angle of swing, it is usually found in clocks with short pendulums, less than half second. The Brocots also invented a suspension named for them. What is it?



The 12 Rashi Valaya Yantras in Jaipur are similar to the Samrat Yantra discussed in the last issue except they are smaller and each has a unique orientation. What was their function?

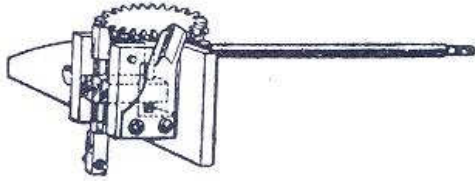
Eli Terry spent his last years and in in Terryville, CT, which was named for him. (He died there in 1852.) In 1830 his son James branched out into an endeavor that made Terryville the heart of another industry. His company grew to employ more than 1800 workers and remained in business until the 1950s. What was the industry and name of the company?

The objects to the right look like winding keys but have male ends. One ends in a square. The other ends in a triangle. Their overall length is about 2 inches. What was their function?



OK, Now Tell Me.

The drawing is from patent #5,535,178 for an “adjustable suspension fork”. It was issued on July 9, 1996 to Lubertus H. Hayenga.



The Brocot suspension allows one to regulate the movement from the front of the clock by turning a rod that moves chops up and down the suspension spring. The chops fit the spring closely and their location determines the effective length of the pendulum.

Ecliptic coordinates are based on the plane of the planets and the sun. Because Earth’s axis is tilted with respect to the plane of the ecliptic, the ecliptic pole moves in an orbit around the celestial (equatorial) pole. An instrument intended for measurements in ecliptic coordinates needs to be adjustable. Jai Singh being a fan of large fixed instruments, decided to build a series of instruments each of which was aligned with the ecliptic pole for a brief period during the year. He picked 12 so that one could be used to take readings during the time when each of the constellations of the zodiac was beginning its course across the sky.

The industry James Terry founded was lockmaking. His company became the Eagle Lock and Screw Company. An example of a key for an Eagle lock is shown. While the company made both locks and screws, his contribution to the lock industry is the more recognized. Today there is a Lock Museum in Terryville.



Your editor has no idea how the two keys shown on the previous page were used. Any thoughts from readers would be appreciated.

CARTEL CLOCKS

The rococo style of interior decorating dominated during the period of Louis XV (1723-1774). This included clock cases. One type of case that developed in France was the Cartel or wall clock. The cases were made of either gilt cast metal or gilt wood. They can be identified by their decorations including flowers, figurines, foliage, and scrolls. These elaborately decorated cases were elongated to accommodate a half-second pendulum. Dials are enamel. The movements are spring driven 8-day verge escapements. The back is always unfinished. During this period highly carved and gilded panels were fashionable in French homes. The form of the Cartel clock blended nicely with the paneling. Britten notes that Cartel clocks “never found any favour in England”.



One maker of Cartel clocks was Samuel du Pont who was also a watchmaker. A future article will discuss his more famous progeny.

CHAPTER LIBRARIES

BOOK: The Chapter book library is located at **Classical Clocks and Antiques**, 1086 E. Stanley Blvd., Livermore. Contact **Nile Godfrey** (925-449-2127) for more information.

VIDEO: Chapters 107 and 5 share a DVD video library. Contact **Price Russ** (925-937-9231) for information.

TOOL: Contact **Walt Hubrig** (925-685-0260) or **Price Russ** (925-937-9231) for information on the tools and parts available for use by Chapter members.

There is no cost to borrow items from these collections.

NOTICES FROM MEMBERS

(The Bulletin accepts notices from Chapter members for all items/subjects horological - wanted, for sale, giveaway, services, and so forth. There is no charge. All you have to do is supply copy to the editor.)

CHAPTER #107 MEETINGS

Second Sunday of the Even Numbered Months

Mart: 11:30AM
 Chapter: 12:30PM
 Board: after the Chapter Meeting

Future Meeting Dates

April 11, 2010 June 13, 2010
 August 8, 2010 October 10, 2010
 December 12, 2010 February 13, 2011

We want to keep our members coming to the chapter meetings on a regular basis. If you have problems with transportation to and from meetings, let a director or officer know so we can help you find a carpool.

Only NAWCC members can participate (buy or sell) in our Mart. Be prepared to show your current membership card.

Other NAWCC Chapter Meetings in Northern California

| Chapter | Meeting Address | Meetings |
|-----------------------------|---|---|
| De Anza #94 | Odd Fellows Lodge 20589 Homestead Rd Cupertino, CA | 2 nd Sunday even months (except April) |
| Monterey Bay #70 | Live Oak Grange Hall 1900 17th Ave Santa Cruz, CA | 3 rd Sunday odd months |
| Sacramento #71 | Sacramento Garden Center 3330 McKinley Blvd. Sacramento, CA | 4 th Sunday odd months |
| San Francisco #5 | Boys and Girls Club 401 Marina Blvd. San Leandro, CA | 2 nd Sunday odd months |

DIRECTIONS TO CHAPTER MEETINGS

(except August and December)

743 Diablo Road, Danville

Take Interstate 680 to the Diablo Road exit in Danville. Go east on Diablo Road for 0.6 mile. The Grange Hall will be on your right. Parking is available in the front and rear. Enter from the front; *i.e.*, street side. Facing the building from the street, there is a ramp on the right side for handicap and cart access.

President's Message continued from page 4

similar, manufacturing countertops and remodeling kitchens. I picked up collecting antiques and my 1st woodworking skills in high school. Through the years, I changed directions eventually moving into operations and middle management. I then advanced to President and/or CEO running a couple of small international design and manufacturing companies in the mechanical and laser-optical high-tech end of the computer industry. Unfortunately, this workaholic needed to quit working earlier than most due to some bad bones and complications. So you throw woodworking, antique collecting, measurement, mechanical parts, blueprint reading, and a couple bum hips into a box, shake it up and out pops a clock collector and repairer. So that's me, in a nutshell, or maybe it's a nut in my shell. Regardless, so we begin Chapter 2010 for Chapter 107. I'm happy to be aboard, and hope to serve you well.

Chip

Closing Thought

Ordinary people think merely of spending time. Great people think of using it.

Unknown