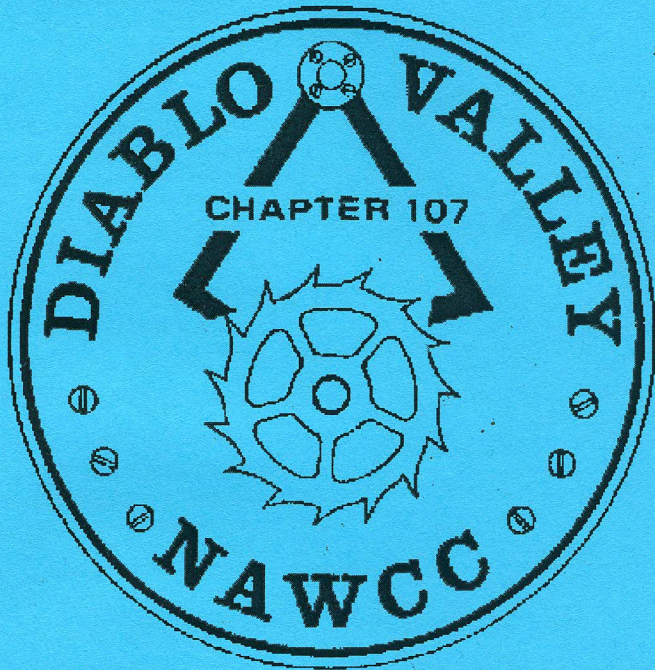


# BULLETIN



April 2017  
Volume 230



## DIABLO VALLEY

### Chapter 107

National Association of Watch and Clock Collectors  
[net.nawcc.org/chapter107](http://net.nawcc.org/chapter107)  
 email account [chapter107nawcc@gmail.com](mailto:chapter107nawcc@gmail.com)

Chapter Established March 5, 1978

### "Accent on Education"

#### 2016 OFFICERS

President	Linda Towers	925-935-6272	indatowers@hotmail.com
Vice Pres.	Price Russ	925-937-9231	gpruss@pacbell.net
Secretary	Ross Smith	925-820-2180	mainuse@msn.com
Treasurer	Walt Hubrig	925-685-0260	dottiewalt@astound.net
Past Pres.	Price Russ	925-937-9231	gpruss@pacbell.net

#### DIRECTORS

2017-2018	Ron Bechler	408-926-3212	ronbechler@comcast.net
2017-2018	Dean Thomas	925-455-0929	dno337@att.net
2017-2018	Bob Thomas	209-815-3292	btclock@comcast.net
2017	Stan Janczura	925-937-5139	sjanczura@aol.com
2017	John Koepke	510-236-2197	jskoepke@comcast.net

#### COMMITTEE CHAIRS

Editor	Tina Thomas	209-481-3930	ch107bulletin@comcast.net
Library	Nile Godfrey	925-449-2127	jng3@aol.com
Mart	Nile Godfrey and Bob Thomas		
Membership	John Koepke	510-236-2197	jskoepke@comcast.net
Nominating	OPEN		
Photo	John Koepke and Tina Thomas		
Program	Price Russ	925-937-9231	gpruss@pacbell.net
Refreshment	Linda Towers	925-935-6272	lindatowers@hotmail.com
Tool Library	Walt Hubrig	925-685-0260	dottiewalt@astound.net
Video Library	Price Russ	925-937-9231	gpruss@pacbell.net
Web Master	Price Russ	925-937-9231	gpruss@pacbell.net

#### NOTICES FOR MEMBERS

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

**Wanted:** Articles for the *Bulletin*. Contact Tina Thomas (209) 481-3930. Or email [ch107bulletin@comcast.net](mailto:ch107bulletin@comcast.net).

## Meeting Notice

April 9, 2017

Mart 10:30 Meeting Noon

There will be a reception with light refreshments at the end of the presentation.

Grange Hall, 743 Diablo Road, Danville

## Precision Pendulum Timekeeping by David Walter

David Walter is widely recognized as one of the world's premier makers of both clocks and watches. He uses time-tested, traditional methods to create bespoke precision timepieces. For more information on David and his work, see the following two pages and visit his web site: [davidwalter.com](http://davidwalter.com)

Plan to stay after the meeting to chat with David over refreshments.



For more information on David Walter and his beautiful clocks go to [www.davidwalter.com](http://www.davidwalter.com).  
David also offers Restoration Services.



## President's Message

I hope all of you will be able to attend our April meeting. David Walter will speak on "Precision Pendulum Timekeeping". We will be holding a reception for the speaker after the program. Please stay for refreshments.

Thank you Jerry Konicek for the clock case repair demonstration at our February meeting and especially for reminding me when doing repairs to line up the grain in the wood and not use wooden matches to repair enlarged holes.

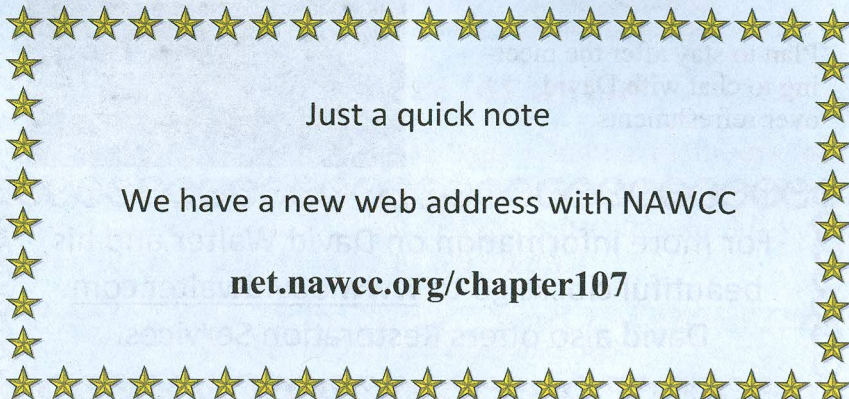
Thank you also to Stan Janczura for his "show and tell" on World War II sector clocks. My sister-in-law's father worked in London in the department using these clocks.

We had two new members join at the February meeting, Dennis Mierzwa and Tony Pecoraro. Welcome aboard.

Price Russ and John Koepke are continuing discussions with Lick Observatory regarding the Shortt clock the project.

Thanks again to the Board Members for their help and assistance and to all members for making 107 interesting and enjoyable.

Linda



## David Walter

David was born and raised in Perth (Australia). After high school, he was an indentured apprentice clock and watch repairer for 6 years. In 1971 he relocated to London where he specialized in the repair of the highest quality watches before moving to Vienna where he served as a senior watchmaker for Omega. In 1977 he established his own business restoring high quality timepieces. In 1979 he completed his first clock. In 1980 he returned to Perth where he established "David Walter Timepieces". His final relocation was in 2002 to Buellton where he makes and restores fine timepieces. He has made over 200 clocks. He is a Freeman of the Worshipful Company of Clockmakers (London), Fellow of the British Horological Society, member of the Horological Guild of Australia, and member of the NAWCC. A few of David's accomplishments are as follows:

- 2016 Design work for the "Platinum" wrist watch completed.
- 2016 Double Pendulum clock now with G. Daniels Perpetual Calendar, Sunrise/Sunset and annual Planisphere and with Janvier style Wandering Moon
- 2015 The first accurate replication of the Antide Janvier Double Pendulum Table clock (Patek Philippe Museum)
- 2014 Year running Long Case clock with hour and half hour strike and with an Annual calendar
- 2012 Double Pendulum clock with G. Daniels Perpetual Calendar and Sunrise/ Sunset indications
- 2010 Double Pendulum clock with Mean/Solar and Sidereal time indication and spherical moon display
- 2006 (D)W5 Skeletonized Free Pendulum clock
- 1996 Great Wheel clock (D Hurst collection)
- 1993 Perpetual calendar wall regulator with Daniels Perpetual Calendar mechanism.

David has published in the Journal of the British Horological Society, Bulletin of the NAWCC, American Express "Lifestyle", and Fortune.

Continued on page 6



## David Walter Timepieces

45 Six Flags Circle – Buellton, CA 93427  
805-688-9112

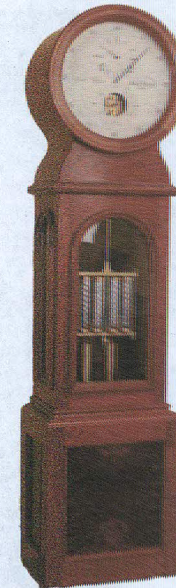
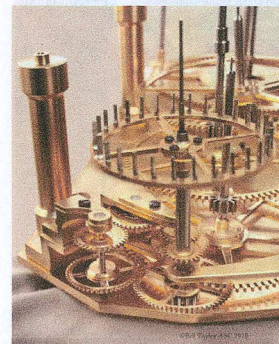
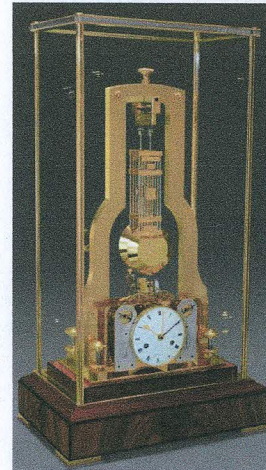
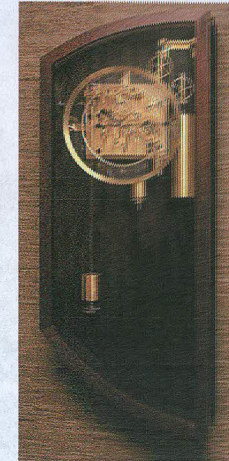
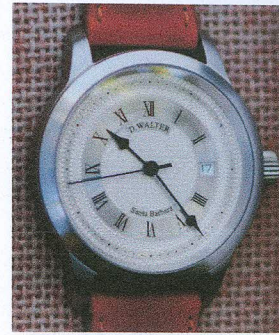
### Another example of David's work the Great Wheel Skeleton Clock



The Great Wheel skeleton clock has its origins in the late 18th century. The design begins with an exceptionally large first gear to drive the rest of the gear train. With this arrangement, the first wheel needs to make fewer turns to power the movement for a longer period. David Walter's Great Wheel Skeleton Clock will run with outstanding accuracy for an entire month on a single winding. Part of this accuracy comes from his use of the fusee, a device that evens out the torque of the large mainspring through its entire 31-day power delivery cycle. The solid sterling silver dial of this Great Wheel clock adds to its distinctiveness. It displays a single large hand for the minute, and separate sub-dials for the hours and seconds. There's even a Mother of Pearl moon disk to display the current phase of the moon. Other details of this clock's design are listed below. Beyond the impressive mechanics, the Great Wheel clock is an elegant and attractive timepiece that will instantly become an admired conversation piece in any home or office. A selection of wood and marble bases is offered to fit virtually any decor.

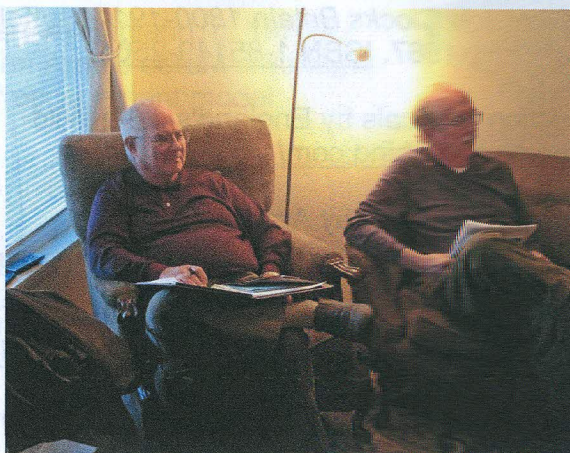
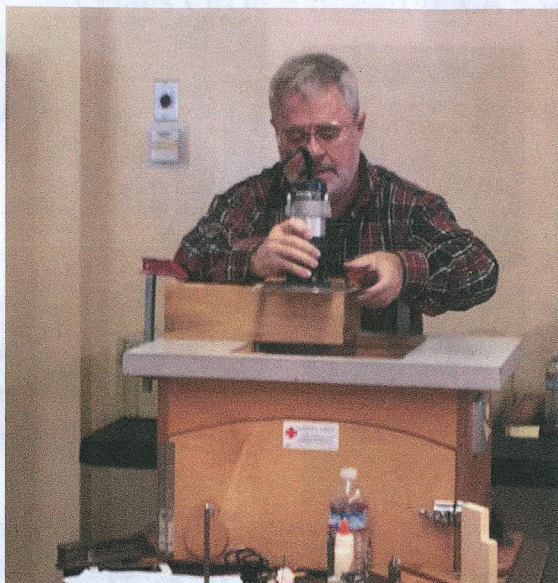
Continued on page 7

## Examples of David Walter's Creations





# FEBRUARY 2017 MEETING





## More on Skeleton Clock

Several authors have published construction manuals on skeleton clocks in clock making and model engineering journals in the UK and USA, several of which (UK) have ceased operations. However, the best known of these authors had the manuals reprinted in comb bound format and these are still available (2012). John Wilding in the UK wrote manuals on Large Wheel, Elegant Scroll Frame, Chrystal Wheel and Scissors. Bill Smith in the US wrote on Lyre, Grasshopper and Epicyclic skeleton clocks.

Roberts, Derek. *Skeleton Clocks Britain 1800-1914*. Suffolk: Antique Collectors' Club, 1987. ISBN 1-85149-256-9.

Source for construction manuals by England's John Wilding: <http://www.ritetimepublishing.com/>

Source for construction manuals by America's Bill Smith: <http://clocktools.com/wrsmith.html>

Roberts, Derek. *Continental and American Skeleton Clocks*. West Chester: Schiffer, 1989. ISBN 0-88740-182-1.

Royer-Collard, F.B. *Skeleton Clocks*. London: N.A.G, 1969 and 1977. ISBN 0-7198-0110-9.

<https://commons.wikimedia.org/wiki/Category:Clockmakers>  
<http://www.twigsdigs.com/horology/heroes/heroes.html>

### Disclaimer

Statements of opinion and/or fact made by authors of papers or articles read before or appearing in the publications of the Chapter are to be accepted as the author's own. The Chapter assumes no responsibility for the accuracy or correctness of any statement of its contributors. This statement of responsibility shall appear in each issue of the Bulletin containing any of the foregoing.

## The grasshopper skeleton

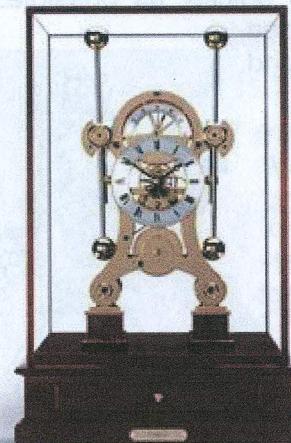
The grasshopper skeleton clock stands 17" above its base, was designed by Mr. Smith and features a grasshopper escapement with a never before used double escape wheel.

### Mercer England Escapement Model

Mercer, England, c. 1970's - John Arnold detent chronometer escapement model.



### Harrison 1693 John Harrison S Comitti Clocks Mantle Clocks Antique Clocks Goldplated Inside Linked Pendulums Escapement Operated Navigator Gold



Grasshopper Clock. Based on the first marine chronometer made by the clock maker John Harrison (1693-1776), this extraordinary instrument features the "grasshopper escapement" operated by two inter-linked pendulums that compensated for the motion of a ship.



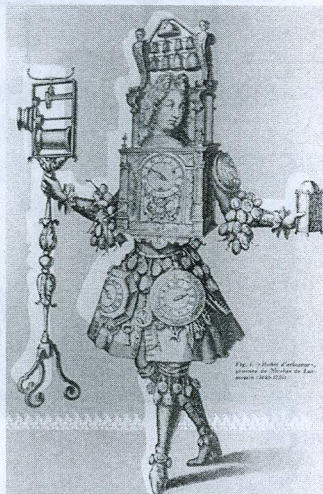


Available at <https://www.nawcc.org/index.php/research/company-records/e-howard-company-records>

## E. Howard Clock Company Records

The NAWCC Library & Research Center partnered with the Smithsonian Institution, National Museum of American History Archives Center to digitize and make available the clock records of E. Howard Company. While the creation of useable finding aids for these records will take time, the NAWCC Library & Research Center is committed to making these records available for researchers as quickly as possible. This project has been generously funded by several NAWCC Members and Chapters.

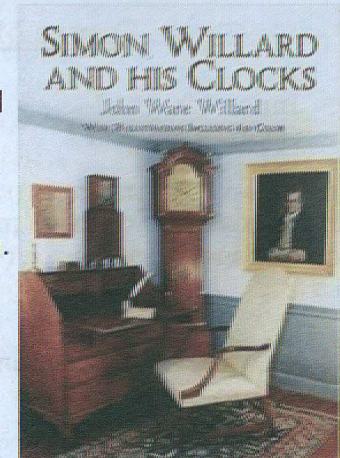
The documents are very large files; therefore, please be aware that they will take time to load depending on your internet connection. Due to copyright restrictions, users are requested not to print or copy images except for their own personal use. These records are also available for viewing at the NAWCC Library and Research Center. **Adobe Acrobat Reader** is required to view these files.



## Simon Willard and His Clocks Paperback January 5, 2005

by John Ware Willard (Author)

The inventor who established America's first clock factory and developed clock-making techniques that are still in use more than 200 years later, Willard was a master among craftsmen. This unique biography, written by his great-grandson, not only chronicles the inventor's life, it explains his methods and catalogs his creations.



Just a reminder  
 It is time to renew  
 2017 membership dues



**CHAPTER #107 MEETINGS**

**Second Sunday of the Even Numbered Months**

Mart: 10:30AM  
 Chapter: 12:00PM  
 Board: after the Chapter Meeting

**Future Meeting Dates**

**June 11th, 2017                      August 13th, 2017**  
**October 8th, 2017                      December 10th, 2017**

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 , 2017membership card.**

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

**CHAPTER LIBRARIES**

**BOOK:** The Chapter book library is located at Classical Clocks and Antiques, 1082 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.

