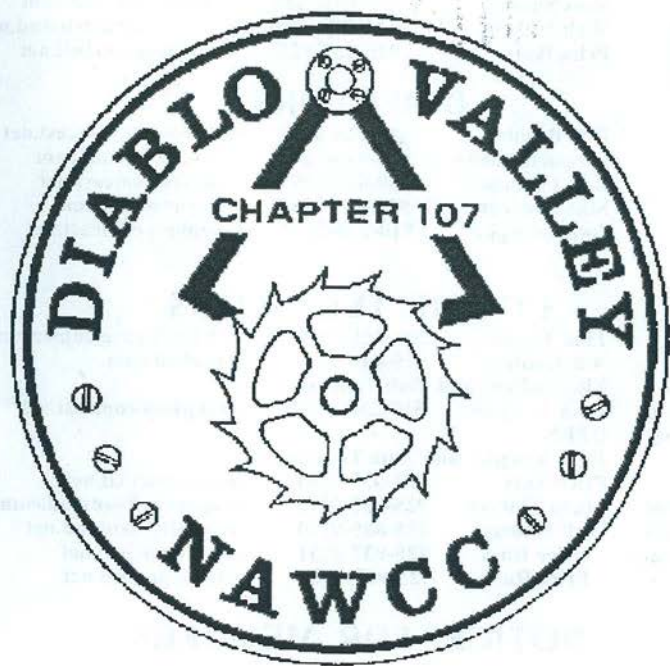


BULLETIN



April 2018
Volume 236

PRESIDENT'S MESSAGE

A big THANK YOU to Max Nesbet, our February speaker whose talk on carriage clocks was really informative and also kept the attention of all who attended the meeting. His enthusiasm and interest in the clocks was very apparent. It seems that all of us have a carriage clock in our collections.

Our speaker for April, William White, who will speak on Manufacturing Watch Crystals, is a close friend of Max Nesbet. Thank you also goes to the members who brought in tools for the display case.

We will continuing having silent auction space available for anyone who has something to sell.

Plans for our next Movie Night have been made and it will take place on April 11, 2018 and held at the same location in Walnut Creek, Heather Farms. Additional information is in this bulletin.

I am attaching a picture of my favorite clock. I inherited the clock from my grandfather, Lester Tycer. It was in his bedroom here in California for as long as I can remember. I gave it to my daughter as at the time I already had a tall clock. In the past 20 years the clock has been in Texas, Florida, Virginia and is now back in Florida. The clock is kept running by my son-in-law. The arts & crafts design clock measures approximately 66" tall, 23" deep and 19" across. The chain pulls have wooden handles. I have never seen another one like it.



Again thanks to the Board Members for their help and assistance and to all member for making 107 interesting and enjoyable.

Linda

The \$35,000 watch co-designed by one of the inventors of the iPod

By Jacopo Prisco, CNN

There's a common problem with mechanical watches: when the power winds down, they lose the time. When that happens, the time must be set again by hand. For some owners of mechanical watches, that may qualify as a delightful ritual. But for most, it's just a nuisance.

Ressence, a young contender in the arena of Swiss watchmaking, has an answer to that problem: a new mechanical watch co-designed by one of the inventors of the original iPod, Tony Fadell.

"Mechanical watches were at the forefront of technology when they were first invented 300 years ago. We wanted to get rid of the remaining issues associated with them," he said in an email.

Fadell, who left Apple in 2008 to found Nest Labs and then worked on Google Glass, says he was attracted to the project because it represents the total opposite of current smart watches trends, which call for bigger batteries, connectivity, touch screens and multiple menu layers.

"Watch connoisseurs don't want or need all these other functions. But they do like their watch being on time."

The Type 2 is still a fully mechanical watch, but it includes an electronic element called "e-Crown" which is, in essence, a digital watch.



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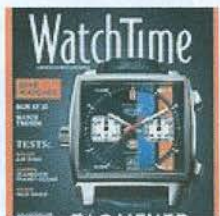
Short Report

The Chapter 107 backed effort to restore the Shortt-Synchronome clock at the Lick Observatory is picking up steam. Work has finally started. We have been able to obtain special springs that with some modification we expect to use to hang the master pendulum. A Synchronome that will be the basis for the slave unit has been donated by Nile Godfrey. It lacks a pendulum, but we have located most of the of the parts needed to make one. Items for the project have been donated by interested parties in San Francisco, Minnesota, and the UK(2). A future report will discuss who has donated what. We lack a bob and the synchronizer that keeps the master and slave working together. We plan to make those. The project team consists of Tony Misch (Lick), Richard Hatch, D. H. Mayeron, John Koepke, and Price Russ.

WatchTime Magazine

WatchTime was founded in New York City in 1999 by the Ebner Publishing Group of Ulm, Germany. Ebner is a diversified publishing company and Europe's leading publisher of consumer wristwatch magazines. Ebner publishes 4 consumer wristwatch magazines and over 100 magazines and journals overall in categories including computers and the internet, music, film, TV and video editing, fashion, architecture, and lifestyle, with total circulation exceeding 7 million. Since its founding, WatchTime has grown to become America's top watch magazine. As of 2013 it had more than 50,000 newsletter subscribers as well as 300,000 website visitors and, according to the Ebner Group, served more than 10,000 readers with its iOS/Android/Nook/Kindle tablet magazine. WatchTime's staff frequently appear on radio shows, as TV show guests and are quoted as watch journalists by several magazines and newspapers. WatchTime has also international editions, like WatchTime India and WatchTime Brasil.

www.watchtime.com



Chapter Tool Library to the Rescue

What would you do with an escape wheel in the condition shown on the right? You could try to straighten the teeth with smooth jaw pliers, but it would be difficult to get all the teeth at the same angle. Fortunately the Chapter Tool Library has a Webster Escape Wheel Straightener that is available for use by any chapter member.



This handy tool turned the badly mangled wheel into the one shown below. This is just one of the tools available



for your use. The complete list is in the Library Catalog which can be found on the Chapter web site.

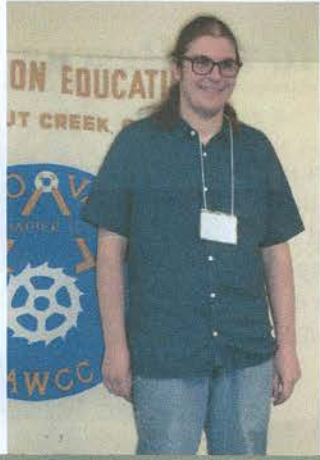
I found a couple web sites you might enjoy on Watch Crystals

Watch Education: Understanding Watch Crystals
<http://www.atimelyperspective.com/blog/2012/12/13/watch-education-understanding-watch-crystals.html>

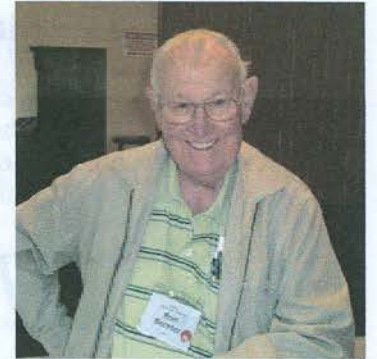
WATCH CRYSTALS

Clear up your questions about crystals with this brief primer.
 by Norma Buchanan

<http://www.squireswatches.com/Question%20in%20Time/WATCH%20CRYSTALS.htm>



February 2018



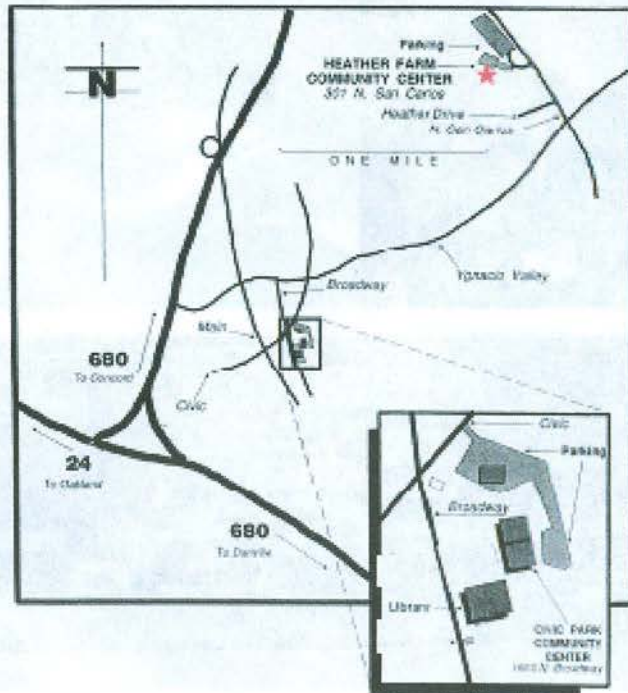
MOVIE NIGHT

The Watchmaker's Apprentice

The story of how Roger W. Smith came to be recognized as a watchmaker by George Daniels, the most famous watchmaker of the 20th century.

7:30 PM Wednesday September 13
Club Room, Heather Farm Park
301 N. San Carlos Dr.
Walnut Creek

This is the first of what hopefully will become occasional movie nights. The plan is to show horological videos that are interesting but not overly technical. You are encouraged to bring relatives and friends.



Continued from page 5

"If you take it off and leave it for more than 36 hours, the power will run out and the watch will stop running, but the electronics will not stop. The moment you pick it back up, an accelerometer inside will know you are handling it and the watch will set itself to the correct time automatically. It looks really magical," said Mintiens.

Solar powered

The user only needs to set the time once, when the watch is new, and up to two time zones can be registered. This can be done in a phone app that connects via Bluetooth, although Mintiens is quick to point out that everything is doable through the watch itself too. "And the electronic elements are not interfering with the mechanical components of the watch at all, but are only used to set the time," he said.

In fact, the Type 2 doesn't really look like it has anything electronic in it, and the digital functions are accessed by tapping twice on the glass. "The shape is very organic, which I think is necessary because we are biological creatures, so the watch blends with your wrist, it has no sharp edges," said Mintiens.

But if the kinetic battery that powers the e-Crown through normal wrist movements drops below 50% charge, something truly futuristic happens: an array of microshutters on the dial automatically opens to reveal 10 tiny photovoltaic cells, derived from satellite technology. "They are very efficient and sensitive to a wide range of wavelengths. They can charge the internal battery in just three hours," said Mintiens.

Ressence say this is the first ever self-setting mechanical watch, and are working on a retail version. "It will launch somewhere between September and December 2018, but maybe later," said Mintiens.

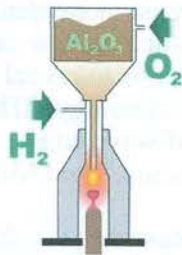


EXPLORING DIFFERENT TYPES OF WATCH CRYSTALS

The crystal of a watch -- the clear cover that goes over the dial and protects it -- can be made of a variety of materials. Generally, there are three types of crystals used in watch-making: sapphire crystals; mineral crystals; Plexiglas (often called plastic) or hesalite (acrylic) crystals. Depending on the cost of the watch, or the rugged functions of the watch, different crystals are used—influencing the price and value of the watch.

Typically in the luxury watch field, sapphire crystals are preferred. Sapphire is extremely strong and scratch resistant – making it the top choice for a fine timepiece. While sapphire is the more expensive of the three crystal choices, it has its advantages due to the scratch and shatter resistance. The term sapphire for a watch crystal can be somewhat misleading, in that they are not typically made from natural corundum. Instead, sapphire crystals are usually created as a synthetic compound with the same properties as its natural counterpart. The process of producing sapphires synthetically was invented in 1893 by French chemist Auguste Victor Louis Verneuil, and shared with the world in 1902. Thus, it is called the Verneuil Process, but is more commonly referred to as flame fusion.

Essentially, in Flame Fusion, a long column of sapphire is manufactured in a Verneuil furnace. Powder sized aluminum oxide particles are sprinkled through an oxyhydrogen flame, and expected to melt at temperatures over 2000degrees Celsius. They then fall below the melting point (or flame) and fuse with one another again to re-crystallize. Hence the name Flame Fusion. The column of crystallized synthetic sapphire is slowly lowered away from the flame, allowing more crystal to form on top. Eventually, the long cylindrical rod is complete and removed. It is then sliced (with diamond-tipped cutters) and polished to become a watch crystal.



To read the complete article go to <https://shsilver.com/watch-blog/2015/5/21/exploring-different-types-of-watch-crystals>

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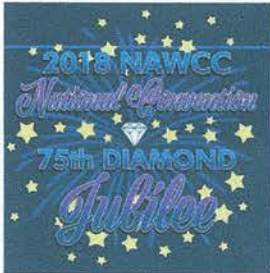
The price will be aligned with the company's most expensive offering, the Type 3, which retails for about \$35,000.

Although that's steep for a brand that is essentially a startup, Ressence's mix of technological innovation and respect for tradition seems to have already piqued the interest of connoisseurs.

"Benoit is brilliant," said Fadell, who is also a serious watch collector.

"He wants to push the envelope on mechanical watches, making them simpler, more functional, more delightful for people to wear. But, to make things easier for people to use, you have to work that much harder on the technology."

<https://amp.cnn.com/cnn/style/article/ressence-e-crown-tony-fadell-wristwatch/index.html>



**2018 NAWCC
National Convention
75th DIAMOND
Jubilee**

**COME CELEBRATE
WITH US!**

*2018 NAWCC NATIONAL
CONVENTION - JULY 19-22, 2018*

Are you interested in a NAWCC Watch & Clock Traveling Workshop? Call Pete Cronos, 870-974-2583 for info regarding the workshops given at the 2018 NAWCC National Convention in Columbia, PA.

CHAPTER #107 MEETINGS

Second Sunday of the Even Numbered Months

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

Future Meeting Dates

August 12, 2018	June 10, 2018
December 09, 2018	October 14, 2018
	February 10, 2019

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 2017 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	Community Foundation 7807 Soquel Drive 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.

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.



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