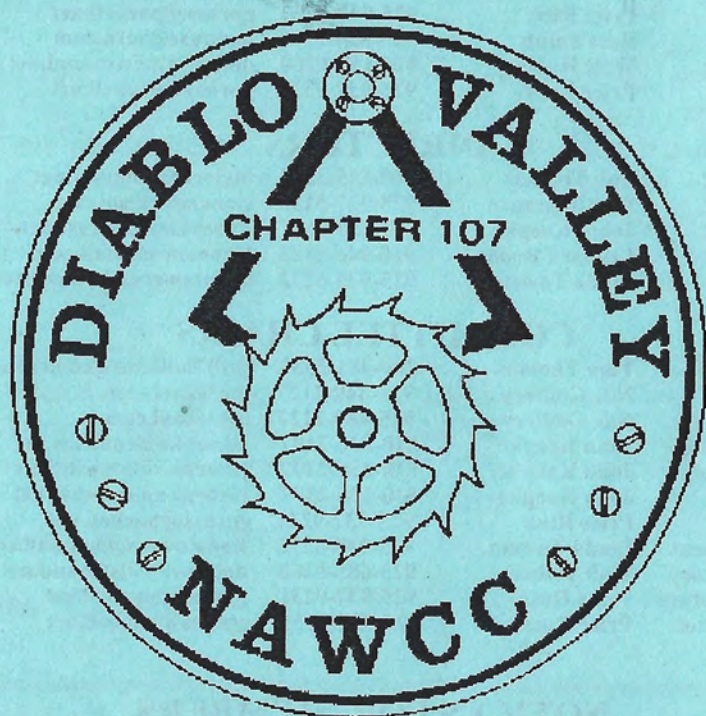
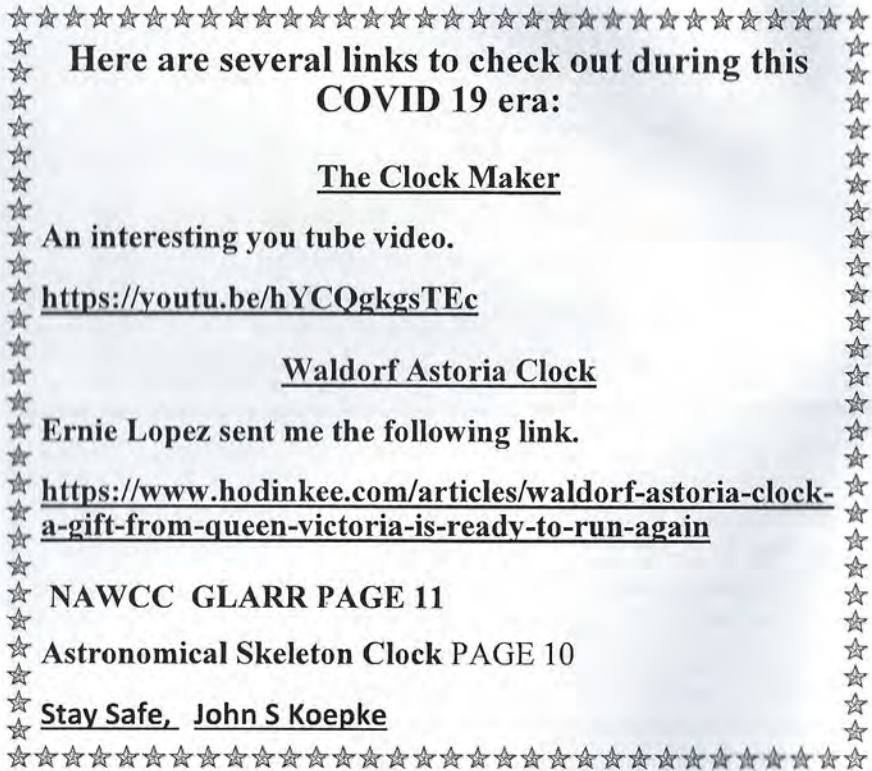


BULLETIN



April 2021
Volume 253



Here are several links to check out during this COVID 19 era:

The Clock Maker

An interesting you tube video.

<https://youtu.be/hYCQgkgsTEc>

Waldorf Astoria Clock

Ernie Lopez sent me the following link.

<https://www.hodinkee.com/articles/waldorf-astoria-clock-a-gift-from-queen-victoria-is-ready-to-run-again>

NAWCC GLARR PAGE 11

Astronomical Skeleton Clock PAGE 10

Stay Safe, John S Koepke

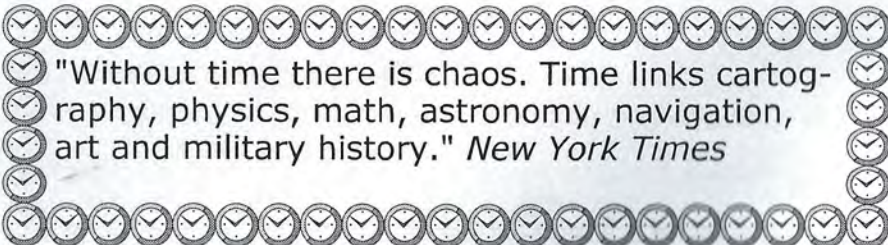
Shop Hints

Searching for patents can be frustrating. Here are several web sites that sometimes help.

- pocketwatchdatabase.com
- worldwide.espacenet.com
- uspto.gov
- patents.google.com

Just because you can't find it, doesn't mean it doesn't exist, but searching multiple sites often yields results.

Price Russ



"Without time there is chaos. Time links cartography, physics, math, astronomy, navigation, art and military history." *New York Times*

John Koepke is looking for photos from our members of horological items in their collection that they find interesting or special. Send 1 or 20 photos to be considered for the chapter center photo page. Please let John know if you want the photo(s) used to have your name listed with the photo. Please email photos to:

jskoepke@comcast.net

Harrison Decoded
 Edited by Rory McEvoy and Jonathan Betts

John Harrison is best known for his work on finding longitude, but he is also known for making several exceedingly precise pendulum clocks. His claim that a clock made by his design principles would keep time to within one second in 100 days. This claim was generally disbelieved and the designers of precision clocks ignored his ideas of what was needed for best precision until Martin Burgess. Burgess devoted himself to the study of Harrison's work and for a commission by a bank built a clock according to Harrison's principles. He also made parts for a second clock that lay incomplete until 2009. At that time it was decided the clock should be finished and tested. To get to the point, it was completed and tested at Greenwich and indeed met the claim of 1 second in 100 days. This book tells the story of Burgess, his clocks, and their testing. With exception of the last couple of chapters, it is an easy, enjoyable read for anyone interested in Harrison or precision timekeeping. The last couple of chapters get pretty deep into theory. They can be skipped without guilt.

Wanted

Price Russ is interested in obtaining a second Microset timer. If you have one you would be interested in parting with, let him know.

Clock Sale

Chip Kumparak is having a clock sale. Click on the link below.

We are having an urgent liquidation of beautiful clocks that are priced at fair market value and below. No reasonable offer will be refused. Please share this email with all clock chapters. For more information, contact

Chip Kumparak BY TEXT ONLY at

(408) 499-4538.

<https://photos.app.goo.gl/TcBRKSBhXALbQjAEA>

It's Complicated

The Australian firm of Buchanan states that they produce "extra ordinary hand-made clocks". The one shown is being made for Mark Frank of Chicago. This 15 year project is nearing completion. Monthly reports on its progress and other clocks in Mark's collection can be found online at my-time-machines.net

Incidentally Mark has been helping Price Russ restore his Warren Master Clock.



Needs a Good Home

This unique "little" time and strike clock recently came to the attention of Cyrus Wind Dancer, a former chapter member. It is 25 feet high and 7 feet wide. Most of the parts are from old farm or industrial equipment. The verge, shown below, is a truck suspension spring. The pendulum's period is 5 seconds (one way). The bob has Ellicott temperature compensation, bottom photo. The weights are compressed gas cylinders and the bell is a tuned metal tank. This is truly a unique timepiece.



It was originally intended for public display in Sebastopol, but that plan fell through. Now the clock is looking for a new home.

Price Russ is working with Ernie Lopez to see if it can be installed at the West Coast Clock and Watch Museum. That seems like the perfect place for it given that the museum is part of the Antique Gas & Steam Engine Museum, which includes blacksmithing and other crafts.



If the museum and the owner come to an agreement, chapter members will undoubtedly be called on to help prepare it for the move. Sounds like fun.

Clocks from the Collection
Of
Vince & Phylliss Angell.



Astronomical Skeleton Clock

Price Russ sent me the following links concerning an astronomical skeleton clock with 7511 parts, including 477 gears, 417 jewels, 34 dials, 34 hands and 117 springs.

The December 2020 installment of the on-going astronomical skeleton clock construction project is ready at: http://www.my-time-machines.net/astro_12-20.htm .

A complete review of the project from its inception to the present on a month-to-month basis can be easily browsed here: http://www.my-time-machines.net/astro_index.htm .

For those who have not followed this project or have recently come to it, I have posted a four volume written synopsis of the project from its beginnings, including design philosophy and early design concepts with photos from 2006 through to July 2020, and can be seen here: http://www.my-time-machines.net/papers_and_presentations.htm .

All the videos associated with this project can be seen on my YouTube channel here: <http://www.youtube.com/user/fgtyc>

Stay Safe, John S Koepke

NAWCC GLAR

One of the NAWCC GLAR Regionals is shown on Huell Howser's California 's Gold Series. Click on the link below to view the 30-minute show. Be sure to look for several chapter members. Vince Angell tells me this is the 2007 Regional.

<https://blogs.chapman.edu/huell-howser-archives/2016/05/04/watch-convention-californias-gold-4005/>

Warren Type C Master Clock

Henry Warren is rightfully famous for his synchronous motor alternating current (AC) clocks most commonly sold under the *Telechron* label. For these to perform accurately the line frequency had to be well regulated. Regulation was also became important when electrical grids were set up. This need led to his development of a series of master clocks for use in power stations. Of these the most common were the Type A and Type B which were used to monitor the frequency of power plants. These were followed by the Type C which was intended to directly control AC frequency at the point of generation. In practice the few Type Cs produced were mostly used in hotels and office buildings in areas where only DC power was provided by the local power company. Today on two Type C clocks are known to survive. Bob Wahrer and I have recently completed bringing one of one of these back to life and are preparing an article on it for the NAWCC *Bulletin*. Hopefully we can discuss it at a future meeting.



Price Russ

To NAWCC Chapter 107 Members:

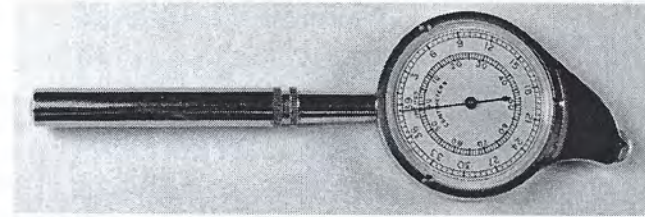
Annie Stephens a resident of Central Contra Costa County is downsizing and would like to sell her circa 1984 Howard Miller Grandfather clock. Price is negotiable. Her clock is pictured below. If interested please give her a call or email at 925-391-5531 or twoannie@gmail.com.

Thanks,

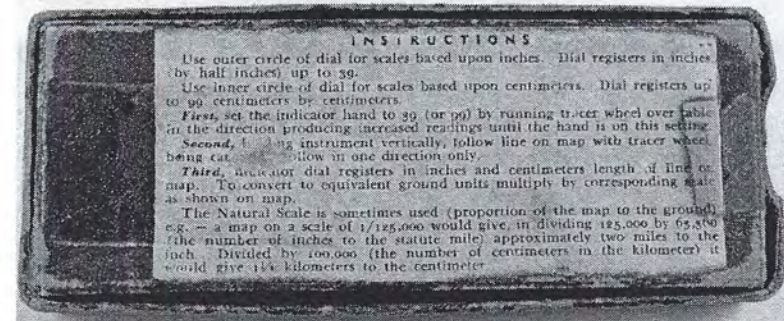
John



Opisometer by John Koepke



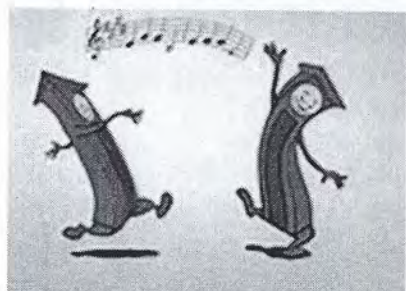
The Opisometer also called the Curvimeter, Meilograph, Chartometer, Map Measurer and Wealemefna was patented by English engineer Edward Russell Morris in 1873. His later versions were sold under the curious name Wealemefna. The instrument is used for measuring the lengths of arbitrary curved lines on a map. These lines could be roads, rivers, or other features. I found the above instrument while searching eBay. What caught my attention was who made it, the Hamilton Watch Company! Many similar instruments are shown on eBay made through out the world. While not strictly a horological item it certainly is something you would expect a watch manufacture to be engaged in producing. This one came complete with its cardboard box with instructions taped to the bottom of the box. The Opisometer measures about 4.5 inches in length.



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jskoepke@comcast.net

John Koepke



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)
Sacramento #71	Sacramento Garden Center 3330 McKinley Blvd. Sacramento, CA	4 th Sunday odd months
San Francisco #5	Monroe Elementary School 3750 Monterey Blvd San Leandro, Ca	2nd 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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