

Tic Talk Times



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Newsletter of Orange County Chapter 69 of the
National Association of Watch and Clock Collectors

Meeting Minutes, February 7, 2014

HOW GPS WORKS

The meeting was called to order by President Paul Martyn. He moved to accept last month's minutes, Gene Osten seconded, and the motion was approved. Thanks to Annette for providing refreshments. We had one guest, Jerry P.

Upcoming events: The Arizona Sunshine Regional will be March 21, 22, and 23.

Beginner's Corner: Paul Martyn explained and demonstrated how to polish a brass weight with a bench buffer. His tips also included: use fine 400-600 grit sandpaper, and/or size 0000 steel wool first. Then use Tripoli, then the rouge. A main point was always to use the same wheel for Tripoli and the other wheel for the rouge. Then you polish. Then you can use "Stay Brite" or a flex-shaft for small pieces.

The main program was presented by Gene Osten entitled How GPS Works.

He wants us to know that GPS is not the navigation system in your car but it's a part of it. In 1820 many ships were being lost at sea since they couldn't be very accurate as to their location. They had only sextants, hour-glasses and later Chronometers to measure. A log was put into the water with knots in the rope and was pulled behind to measure speed. (That is where we get the concept of knots). Latitude was measured by the stars or the sun



Gene Osten presenting all things GPS

and longitude was measured by the stars or the sun and the accurate time. Also "dead reckoning" was not accurate either.

The use of radio improved navigation. LORAN C was groundbased but Gene points out it has not been in use since 2010. In the 1970's GPS provided around 10 m. accuracy and was intended for the military. It is a passive system and does not transmit any signal. It is resistant to jamming.

Gene was happy to tell us that Heddy Lamar invented the torpedo guidance system.

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This Month

CLEANING AND REPAIR OF MORBIER MOVEMENTS



This month, Jerry Kleeb will give a presentation on the cleaning and repair of Morbier movements.

French Morbier clocks, sometimes called a Comtoise clock, are a particular style of clock that were built by the combined work of French villagers and clock makers from the 1700s until around World War I.

Farmers began to manufacture clock parts during the cold winter months. These clock parts were then purchased by the one or two clock makers in town who would assemble the parts to create the final clock. The clocks were then sold to travelers passing through town.

TIME TRIVIA

The merkhet, the oldest known astronomical tool, was an Egyptian development of around 600 B.C. A pair of merkhets were used to establish a north-south line by lining them up with the Pole Star. They could then be used to mark off nighttime hours by determining when certain other stars crossed the meridian

He also mentioned that light travels 11" in one nanosecond.

The NAVSTAR GPS Global Positioning System dates from 1978 and had 4 satellites with 4 on each plane—now they are 30. However, this system will not work in a tunnel because the technology requires line of sight with the satellites.

SHOW AND TELL was the letter "H", or what you found at the Regional:

Dave Weisbart showed a real treasure he brought at the Greater Los Angeles Regional, a Newhaven from the 1890's with a chime on 8 nested bells! What a treat to hear it!



Editor's Note: In case you missed Dave's Show & Tell at the February meeting, he has created a [video of the New Haven Chime No. 1 Clock](#) which is now on YouTube. You can watch it from Chapter 69's web site by clicking on the "[Member Notes](#)" link on the left side of the screen.

Paul Martyn showed us an English fusee from John George Holmden.

Jerry Kleeb showed us his Hamburg 30 hour American Clock Co. clock.

Doug Lynn brought an H20 clock (which runs on water).



UPCOMING MARTS

MARCH 2014

[2014 Lone Star Regional](#)

When: Mar 7 - 8

Where: Mesquite Convention Ctr, Mesquite, TX, US

[2014 Arizona Sunshine Regional](#)

When: Mar 21 - 22

Where: Fountain Hills Community Center, Fountain Hills, AZ, US

[2014 River Cities Regional](#)

When: Mar 28 - 29

Where: Lenexa Community Center, Lenexa, KS, US

APRIL 2014

[2014 Southern Ohio Regional](#)

When: Apr 10 - 12

Where: Roberts Convention Centre, Wilmington, OH, US

MAY 2014

[2014 AR Razorback Regional](#)

When: May 9 - 10

Where: Inn of the Ozarks Convention Center, Eureka Springs, AR, US

[2014 Pacific Northwest Regional](#)

When: May 15 - 17

Where: Hotel Murano, Tacoma, WA, US

[2014 North Coast Regional](#)

When: May 16 - 17

Where: Lakeland Community College, Kirtland, OH, US



National Association of
WATCH & CLOCK
Collectors, Inc.

Full details for all upcoming marts:

<http://community.nawcc.org/events/upcomingevents/>

**DATED MEETING NOTICE
PLEASE DO NOT DELAY**

ORANGE COUNTY CHAPTER NO. 69
C/O CORA LEE LINKENHOKER
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CORONA, CA 92881

The National
ASSOCIATION OF
WATCH & CLOCK
Collectors, Inc.



OUR NEXT MEETING: FRIDAY MARCH 7, 2014

Program

**CLEANING AND
REPAIR OF MORBIER
MOVEMENTS**

Time: 7:00 – Doors Open
8:00 – General Meeting

Admission \$4.00 – General
\$6.00 – Couples

Location: Acacia Grove Masonic Lodge
11270 Acacia Parkway
(in the Civic Center)
Garden Grove, CA

Beginner's Corner Mini-Seminar:

No Beginners' Corner this month

Show & Tell:

Horological items beginning with letter "T" or any Morbier movements you might have

Board Meeting:

Board meeting this month – Date/Time/Location will be determined at the March 7th meeting

