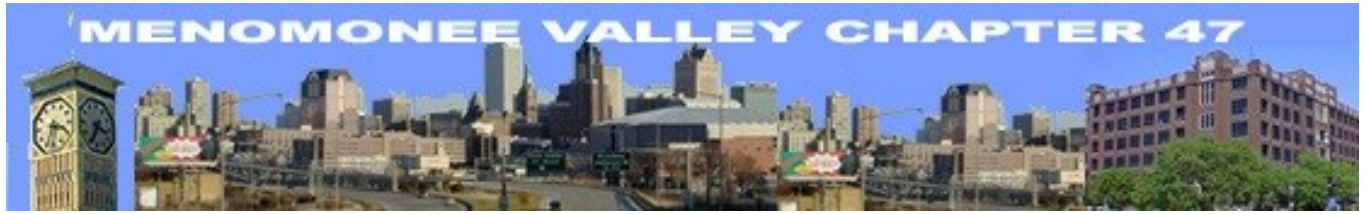


MENOMONEE VALLEY TIMES[©]



MENOMONEE VALLEY CHAPTER 47 WISCONSIN
NATIONAL ASSOCIATION OF WATCH & CLOCK COLLECTORS, INC

November 2023

NEXT MEETING - November 12th

September Program

Tony Vimmer -
Finding the Right
Screwdriver
Live Seminar:
Tool Sharpening with a
Focus on the Jeweler's
Lathe

Menomonee Valley Chapter 47

February 4, 2024
March 10, 2024
May 19, 2024
Sept 22, 2024
November 17, 2024

Madison Chapter 171

First Wednesday of even
number months

Chicagoland Chapter 3

310 W Butterfield Rd, Elmhurst IL
November 19th, 2023
February 4th, 2024
April 7th, 2024
September 8th, 2024
October 27th 2024
December 8th, 2024

Chapter 47 Officers and Directors

- ▶ President: Craig White
- ▶ Vice Pres.: Harry Schulz
- ▶ Secretary:
- ▶ Treasurer: Danno Osterud
- ▶ Past Pres.: Mike Dempsey
- ▶ Director: Larry Jacobi
- ▶ Director: Karyn Critteli
- ▶ Director: Bill Galinsky

Committees

- ▶ C47 Midwest Regional:
Representative Craig White
- ▶ Webmaster: Amelia Osterud

American Legion Post 434

9327 S. Shepard Ave, Oak Creek, WI 53154.

Doors open at 9:00 for setup. Educational talk at 11:00. Cleanup at 12:00.

Presidents Message

We had our location temporarily moved to the larger hall just behind and to the south of our normal location and it seemed to work out well. This is likely a one time move due to some conflicts with the normal location from the American Legion perspective.

We will continue to need some help setting up and taking down. So arrive at 9:00 and help setup and stay after the educational talk to help return the room in the condition we found it in.

Opens at 9:00 for setup and mart. Mike Dempsey and I will be presenting a Seminar on Tool Sharpening with Focus on Jewelers' Lathe beginning at 10:00 during the mart. Educational talk by Tony Zimmer on "Finding the Right Screwdriver" at 11:00. Cleanup at 12:00.

We also need a new secretary. The main job is just to put this newsletter together. Please offer to help so no one is overburdened, only takes around an hour per meeting.

We have had some requests to add some hands-on teaching in basic clock repair. We are starting with Tool Sharpening in November during the mart. At the close of this first one we will discuss future subjects. Please email me any ideas you have for future seminars.

Congreve Clocks

Craig White gave a talk on the history of the Congreve rolling ball clock. Mike Demsey and Mike Figueira brought some of their Congreve rolling ball clocks to show as examples. Both Mikes talked about their clocks. Mike Figueira's clock was even working during the Mart and Talk. Thanks for bringing your examples.

The rolling ball clocks are mesmerizing to watch the ball going back and forth in its zig-zag pattern until the ball triggers the table to tilt in the other direction. Then the ball moves in the opposite direction. The clocks are not good time keepers but are fun to watch,

Sir William Congreve was able to obtain a patent for his clock design in 1808 but he was not a clockmaker. Rather, Congreve fancied himself as an inventor and his designs included counterfeit-proof paper, pneumatic canal locks, and even a perpetual motion machine.

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He is probably most famous for his development of the Congreve rocket, a weapon which was successfully used at the battle of Leipzig (Germany) in the Napoleonic wars and less successfully at the siege of Baltimore during the war of 1812. These were the rockets alluded to in the American National Anthem.

Why are they poor time keepers? The answer lies partly in the way they operate. The clocks are intriguing to watch as a small ball rolls down a zig-zag path on the pivoted table. When the ball reaches the end of the path, the table tilts and the ball rolls back the other way. The tilting of the table is the oscillation that the clock depends on.

The single largest timekeeping problem of these clocks is that the oscillator has no natural period of vibration. The clock is completely dependent on the time taken between the two trigger levers being moved by the ball. This is, of course, dependent on the time taken for the ball to move down the zig-zag slope. Any perturbation of the movement of the ball will result in an inaccuracy in time-keeping.

It is necessary that the surface of the ball and the groove in the table be kept free of dirt, particularly oil or grease which would increase the friction between the surfaces and slow the ball's descent. This is not the only cause of error. To be truly accurate, the ball must take an equal time to complete its movement in both directions on each and every cycle. Reproducibility is paramount. A major problem exists in that as the table is lifted the ball begins its descent. If there is a lack of uniform motion in the gear train of the movement through friction or other means, then the acceleration given to the ball will not be uniform and its rate of travel will be different on each pass. Congreve was unaware of the importance of this dependency of his clock as opposed to a clock with a pendulum or balance wheel that is oscillating with a natural frequency.

Congreve was also unaware that when the detent wheel is abruptly stopped by the pin hitting the end of the detent lever there is kinetic energy which must be converted. In John Wilding's clock design, he places a fly on the detent wheel arbor in an attempt to absorb some of this energy. Nonetheless, on close examination of the table's movement in slow motion, the energy in the table as it comes to rest in its new position causes the table as it to "flutter". This fluttering will significantly affect the movement of the ball as it starts its downward journey.

Mike Dempsey and Craig White will each be making a Congreve Rolling Ball Clock to John Wilding's design. Further talks at the chapter meets will be given showing our progress.

Future educational talks planned:

Nov 12 – Tony Zimmer will give a talk and demonstration entitled "Finding the Right Screwdriver"

February 4 – Harry Schultz will be giving a talk on Making a Calendar Wheel

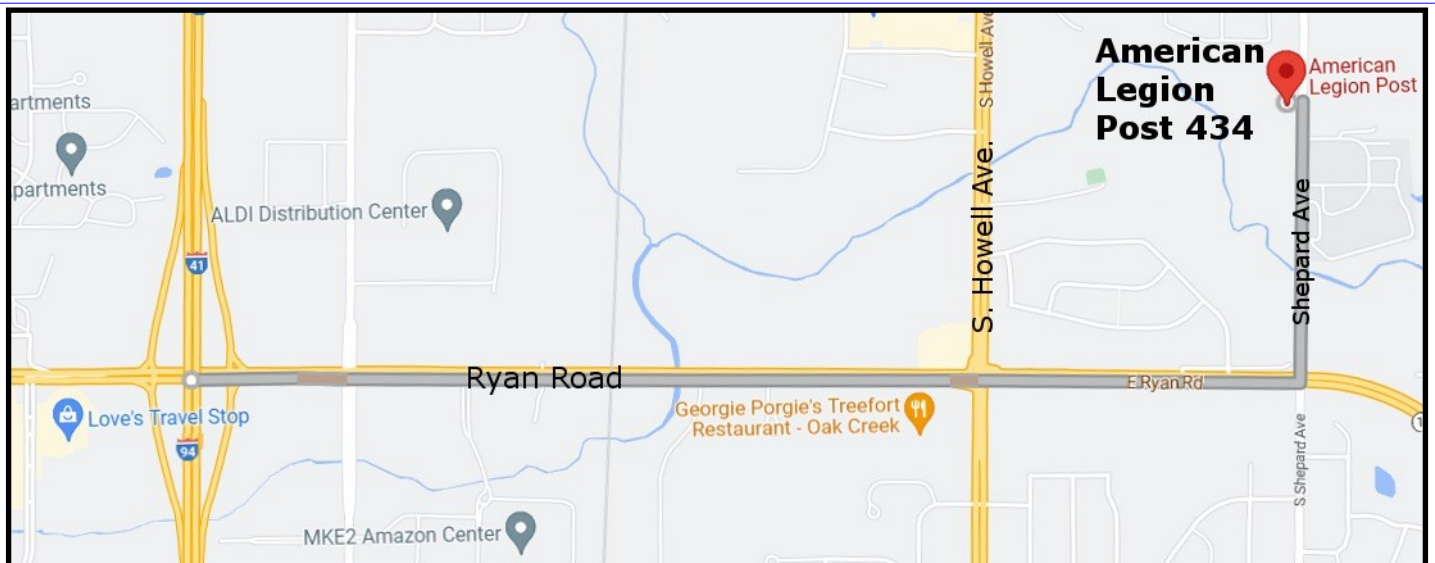
March 10 - Danno will make a Presentation on Renaissance Clocks

We still need volunteers for talks and/or demonstration for 2024. Please contact Harry Schulz or myself with ideas or suggestions.

Free tables!! A free silent auction table will also be available. We had some more clocks donated which the chapter will be selling at the silent auction table.

Hope to see you all there.

Thanks,
Craig



Directions to the Oak Creek Location: Exit I-94 at Ryan Rd, then head East for 1.7 miles on Ryan Rd, then turn Left (North) on Shepard Ave, Drive 4/10 of a mile, the Legion Post will be on the left.
9327 S. Shepard Ave, Oak Creek, WI 53154.

We need a volunteer to fill the Secretary Position.

We are looking for someone to take over the position of Secretary. The duties involve putting together the newsletter and taking notes at board meetings. The newsletter involves putting together the presidents message, treasurer's report, taking photos at the mart and writing some sort of interest piece to fill out the newsletter.



MENOMONEE VALLEY CHAPTER 47 WISCONSIN
NATIONAL ASSOCIATION OF WATCH & CLOCK
COLLECTORS, INC

NAWCC CHAPTER 47
P O Box 80813
Milwaukee WI 53208



American Legion Post 434
9327 S. Shepard Ave, Oak Creek, WI 53154
Banquets and Meetings
Parties and Dances
Call
(414) 762-9660

MENOMONEE VALLEY CHAPTER 47			
DESCRIPTION	Time	Price	2024
<input type="checkbox"/> Chapter 47 Membership Dues	1 Year	\$25.00	
<input type="checkbox"/> Gold Card prepaid entry to meetings	1 Year	\$15.00	OR \$5 at door
<input type="checkbox"/> NAWCC Membership Dues <i>Use NAWCC Form-send to NAWCC</i>	1 Year	\$98.00	\$112 with magazine
<input type="checkbox"/> Mart Table at Chapter meeting*	1 Mart	\$ 0	*FREE to Members
<input type="checkbox"/> Paper Newsletter via mail	1 Year	\$5.00	
<input type="checkbox"/> Business Card ad in newsletter	1 issue	\$5.00	
<input type="checkbox"/> Donation to Chapter 47	1	\$	
*Make checks payable to NAWCC CHAPTER 47			Total: _____

Method of Payment Check Business Check Cash, paid in person Bill me for Ad Pay Pal

Name _____
Address _____
City, State, Zip _____
NAWCC MEMBER NUMBER _____ DATE _____

E MAIL ADDRESS _____ Phone _____
Signature _____

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NATIONAL ASSOCIATION OF WATCH & CLOCK COLLECTORS, INC

NAWCC CHAPTER 47
P O Box 80813
Milwaukee, WI 53208
Email: NAWCCChapter47@gmail.com
Web site: www.NAWCC47.com




Silent Auction

Have too many project clocks or watches? Extra tools gathering dust? Books taking up space on your shelf?

Clean house and sell your unneeded horological items at the Chapter's Silent Auction Tables!

Treasurer's Report

August 1, 2023	
Opening Balance	\$839.61
Income:	
Dues and Admissions	\$500.00
Donations	\$7.00
Printed Newsletter	
Total Income	\$507.00
Expenses:	
Newsletter	(\$28.19)
Donuts and Coffee	(\$50.36)
Total Expenses	(\$78.55)
September 30, 2023	
Closing Balance	\$1268.06



Dan Osterud, Treasurer