



Free State Chapter 141

MD, PA, VA, WV

Chapter 141

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For more information about the chapter, you may contact the President Lou Orsini by email

oh2batc@verizon.net

or phone 703-352-7260.

Feedback or questions pertaining to the Newsletter should be addressed to Al Bush at:

agbush172@verizon.net

or (410)531-5307.

August / September – *No.2013-05*

President's Message

It's hard to believe that summer is almost over and we're gearing up for another new school year. I hope everyone is well and ready to go for our next meeting on Wednesday, September 11. As everyone knows, this is a date that will forever be seared in our memories, just as December 7th was for those who lived through that horrendous day. As we exercise and enjoy the freedoms of our country, we must always remember that there are those who continue to do all that they can to take those freedoms from us. Never take what we have for granted; we are all most fortunate to be citizens of this great country, either by the luck of being born in the United States or naturalized by choice. Regardless of how we became citizens, we all have the same rights and responsibilities inherent in our citizenship. Cherish it, exercise it, and be forever thankful for it and those who defend it.

As I noted last time, we have made some **changes in our Newsletter format**, specifically going to color pages, and offering dues-paying members free classified advertisements. Naturally both of these changes increase the cost of printing and distributing the Newsletter, and it will be up to you, our members, to decide whether or not these changes are worth keeping. If you have any comments, pro or con, please provide them to our Newsletter author and editor, Al Bush.

Speaking of dues-paying members, the new fiscal year started on July 1st, and **Neil Amrine** is checking his list to make sure everyone has is paid up. If you did not pay him at (or since) the last meeting in May, please pay him on the next meeting or mail him a check. **Dues remain at just \$8.00 a year.** Our goal is 100% renewal, and we still have a ways to go.

Finally, as always, please **remember our brave men and women serving in so many different roles in Afghanistan**, and other dangerous places throughout the world. The recent closure of a number of Embassies in response to intelligence of a potential terrorist attack on U.S. interests in the Middle East reminds us of how many dangerous places there are and the extent to which U.S. citizens, diplomats, contractors and service members are at risk just doing their jobs. Please keep these dedicated professionals and their families in your thoughts and prayers, every day, until they return home. And don't forget those who may be working in less dangerous support positions, but whose efforts are equally important to preserving our freedoms, some of who are being furloughed to save money. Please take the opportunity whenever you can to say thank you to our military folks; it means a great deal to them to know that we really care.

Lou Orsini, president

Our next meeting will be Wednesday, September 11th 2013 at The Cozy Inn

Minutes of Freestate Chapter 141 – No Meeting in July

No meeting, No Minutes. Hope you had a happy summer and vacation time. No meeting was held in July, nor did we have a picnic. Therefore there were no minutes for this issue of the Newsletter. I would take this opportunity to remind you that Neil is collecting dues for the next year. If you haven't paid your dues please see Neil and do so. Where else can you get all this for only \$8.00 a year?

Al Bush (Newsletter Coordinator) 14 Aug 2013



“Treasurer’s Tidbits”

Hi folks!

I would remind all members to send in their dues, if they are not fully paid... dues were due at the end of June. Contact me at Neil54@aol.com, or call me at 301-229-2587 if you have questions. I look forward to seeing everyone at the Cozy's in September. Hope you had a pleasant summer! Please be prompt with your RSVPs for the meeting reservations. We will need to know the head count for the meal so reservations can be made.

Thank you!!

Neil Amrine

FREE STATE CHAPTER 141 MEMBERSHIP-RENEWAL APPLICATION

NATIONAL ASSOCIATION OF WATCH AND CLOCK COLLECTORS

Date _____ NAWCC No. _____ Interests _____

(CLOCKS, WATCHES, TOOLS, OTHER)

Name _____ Spouse's Name _____

Address _____ Phone Number _____

City/State _____ Zip Code _____

Email Address _____ Wish to Receive Newsletter via Email or US Mail

As of January 2007 Annual dues are only \$8.00 payable to Free State Chapter 141. Please send your check with this completed application to:

Neil Amrine, 5621 Ogden Road, Bethesda, Maryland, 20816. Phone: 301-229-2587; email: neil54@aol.com

If you have an interest in clocks or watches you are invited to Our Next Meeting

September 11th, 2013 at the Cozy Inn

CHAPTER 141 PROGRAM FOR SEPTEMBER 11th, 2013



The program for the September meeting will be about cleaning wooden movements. Tom Mostyn wrote an excellent article that appeared in the July-August 2013 issue of the Watch & Clock Bulletin, "Cleaning Wood Movements." He will discuss this article. He is well qualified on the subject and it should be a very good presentation about these amazing clocks with wooden gears. In addition he will discuss the following: "Repairing glass, huh?" "Why tall case clocks mysteriously stop" and "A reasonable substitute for reverse glass painted panels." Tom has been collecting clocks for 30 years and repairing them for 25 years. Come join us and look forward to an interesting and informative program. Hope to see you at Cozy's.

—Bob Rothen

Meeting time is ~ Dinner: about 6:15 PM Mart: Come early for the mart Business/Program: follows dinner

MEETING RESERVATIONS: You may use the Meeting Reservation form below to mail in your reservations for the Free State Chapter 141 meetings. Please indicate the meeting date as you complete the form. You may also make reservations via e-mail to neil54@aol.com and providing Neil Amrine with the information requested on the meeting reservation form or by Calling Neil at 301-229-2587 and informing Neil directly. (Please RSVP at least 48 hours before the meeting date)

Cancellation Policy: Our policy on meeting cancellations is simple. If the Frederick schools are closed due to inclement weather on the day of our meeting, we will cancel. Otherwise, you can expect the meeting is on. In the event of a cancellation, Neil will try to contact everyone who has made reservations (especially those who don't live locally), but it's all based on the school decision. (Several Radio & TV

Free State Chapter 141 Meeting Reservation Form

Reservation for Free State 141 Meeting on _____

Name _____

Guest Names _____

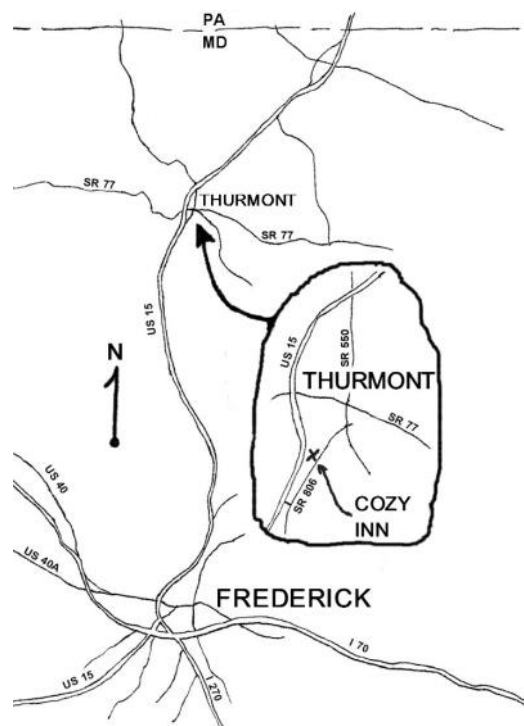
Number coming _____ x \$16.00 = Total \$ _____

Number of Mart Tables _____ (Mart Tables are Free)

Please make checks payable to Free State Chapter 141 and mail to Neil Amrine, 5621 Ogden Road, Bethesda, Maryland 20816

Phone: 301-229-2587; email: neil54@aol.com.

Directions: Cozy Inn is in Thurmont, about 16 miles north of Frederick. Take Route 15N if coming from Frederick or 15 South if coming from PA. Take the Thurmont ramp to MD806 and go east on Thurmont Blvd (right if traveling north, left if traveling south) for about a quarter mile, then take a left on Route 806 (Frederick Road) heading north. The restaurant is about 0.4 mile on the left. If you need additional directions please call the Cozy Inn at 301-271-7373.



Tic Toc Tech Tips

Electrical Clock Repair

This time I want to take you through the repair of an electric clock. This clock runs on 120 VAC and contains a night light in addition to the clock. We will not discuss quartz or DC (battery operated) clocks at this time. But first before I discuss the clock I need to say a few words about the safety factor related to electric clocks and working on them.



Most of you know that electrical shock can be fatal. Did you know that it is the current and not the voltage that is dangerous? In 1965 the Tektronix Instruments Company published a short article courtesy of Fluid Controls Co., Inc. Cliffside, NJ. on electrical shocks. One would think that 10,000 volts would be much more deadly than 100 volts. The article points out that individuals have been electrocuted by appliances using ordinary house currents of 110 volts and by electrical devices in industry using as little as 42 volts of direct current. The current forced through the body is the problem. Any current over 0.01 amp can produce a painful to severe shock, but those between 0.1 and 0.2 amp are lethal. Currents above 0.2 amp can cause severe burns and stop breathing but are survivable with proper attention. Below 0.1 amp to 0.01 amp, it is painful and near 0.1 amp can stop breathing but again is survivable. Below 0.01 the sensation is mild but should not be so serious. These numbers are somewhat variable since skin can be moist or dry, people are different size, etc. The voltage level is important to the extent that it has to be enough to force the current through the body. The amount of current will vary depending on the electrical resistance of the body. For example between the ears the resistance is about 100 ohms, while from hand to foot is around 500 ohms. Skin resistance may vary from 1,000 for wet skin to over 500,000 ohms for dry skin. The main point to take away from this is that an electric clock running household power can be lethal if not treated with proper precautions when working on it. If you are not knowledgeable how to work with electrical equipment, then don't. Get help. Even if you are experienced be cautious because as it seems, most fatal electric shocks happen to people who know better.

So for those of you who are knowledgeable of working on electrical devices we will proceed. The first thing I did was to measure the resistance of the clock from plug prong to prong with an ohmmeter. If it shows 50 ohms or less be suspicious. That means it will consume nearly 300 watts of power. I have my workbench wired with a 15 amp circuit breaker which is less than the 20 amp breaker in my house circuit. Thus if the clock draws excessive current (is shorted) it will trip my bench and not the house circuit plus I won't be overheating the electrical wires in my house. Another thing to keep in mind is the position of the lamp switch. If it is closed you will measure the resistance of the night lamp which in this

case was about 485 ohms. (Know also that as the light bulb filament heats up from the current supplied by the ohmmeter its resistance will increase slightly). The resistance of the lamp when illuminated is probably around 1000 ohms. This particular bulb is a 230 V 10W lamp. Since it will be running on 120 V or at about half of its rated voltage it will produce a dim light suitable for a night light. With the lamp switched off, the ohmmeter will be measuring the resistance of the coil on the clock motor. This was about 1670 ohms which told me that it was not shorted or open. At this point I connected the clock/lamp to the AC outlet on my work bench in hopes it would run. It did not but the lamp could be switched on and did work. I unplugged the clock at this point and proceeded to disassemble it.

Since this article is not directed to restoring the case I will not go into detail on the 30 hours spent on the case. I will point out that I did use Brasso and Simichrome brass polish to remove the stains and uneven tarnish spots on the case. I also smoothed the rough edges on the openings through which the electrical cord must pass to reach the clock. Some of these had sharp cutting edges that could have cut through the insulation thereby providing a short to the case creating a shock hazard. Once the case was cleaned and polished I reassembled it ready to accept the clock movement. I replaced the AC line cord with an 8 ft. extension cord with a molded, keyed plug allowing it to be inserted in an outlet only in one direction. I simply cut off the socket end and connected it directly to the clock.

In the meantime, found the movement was extremely oily and greasy. I checked the resistance from the two motor leads to the chassis of the motor which showed no connection between them and meant there was no shock hazard. As you can see from the photo, the wheels used to gear the motor down were accessible so I could apply some WD40 to them. I connected the 120



volt line to the motor coil and with a little help from my finger it began running. Satisfied that it was workable, I proceeded to disassemble the movement and run the parts through the ultrasonic cleaner, rinse and dry them for reassembly. I checked the coil for physical condition and cleaned some of the accumulated oil/grease off of it. Once reassembled and oiled, the bench test showed it was running as expected. For oil I used Mobile 1 5W30 on the pivots since it works well under high temperatures in autos and the motor generates a small amount of heat (it is only 2.5 W) while running. Since it is synchronized to the 60 cycles of the power line, little remained to be done other than reassemble everything back into the case and give it all a final check. The clock is working well.

Al Bush 2013-05

Personal Postings For Chapter 141 Members

INTRODUCTION: This page is for Chapter 141 members to post horological questions, ads, or notices at no charge. Initially this will be a trial run to test member's response, monitor the Chapter's costs for the postings, the work involved in managing the effort and the problems in collecting the data and formatting it for the newsletter. After a trial period, the effort and response will be reviewed and modified, improved or discontinued as the results indicate. The Newsletter Advertising Policy has been defined and will be on file with the Chapter 141 records for viewing. This policy will be amended and updated as improvements and changes are dictated. It is shown below. Any future changes will be posted here as well. I suggest you keep a copy of this issue for your reference. The same is true for any updates published.

For the service to work and be effective, people submitting information for posting will need to provide the information in a form that can easily be conveyed to NAWCC Headquarters for editing, printing, and distribution. It is not intended that any editing will be required for information you submit. The information should be submitted in Microsoft WORD file format as a .doc or .docx file by email to albush-WLIVE@hotmail.com. This email address will be checked for input when the newsletter is prepared to send to press. If you do not have access to a computer, I suggest you contact a friend and get them to prepare the posting for you. I have included some samples of postings to give you an idea of what can be posted in a 2x3½" space. Effort will be made to maintain your posting, wording and presentation as you have submitted it.

The Newsletter Advertising Policy as it currently stands is as follows:

NEWSLETTER ADVERTISING POLICY

- 1) Each ad consists of one space approximately 3½ by 2 inches.
- 2) Ads must be in the hands of the Newsletter Coordinator in time to go to press to meet the schedule for printing the related issue. (This is normally a month and one week and two days before the next meeting.)
- 3) If the Newsletter allotted ad space is filled to capacity, the ad may be held over until the following issue of the Newsletter or canceled if the contributor wishes.
- 5) If an ad does not arrive in time to meet the deadline or does not meet the format requirements it may be refused.
- 4) The Chapter reserves the right to refuse to publish any ad for any reason; including any ad it feels is inappropriate.
- 5) Any ads submitted for publication must be with the caveat that the Chapter and its representatives do not endorse its contents. Neither are they to be held responsible for the content of the ads. The Chapter, its representatives and the Newsletter assumes no responsibility for any resulting transactions or actions

related to any transactions. All dealings are strictly between the buyer and seller and do not involve the Chapter or its representatives.

- 6) Ads may be a posting requesting help in horological related questions or problems as well as the offer to sell, trade or buy horological items.
- 7) Company or Business ads will not be accepted for publication. All ads are to be of a personal nature and of horological interests.
- 8) At times approved official notices may be posted in this area of the Newsletter.
- 9) Printable photos and text will be accepted as long as it is formatted and contained within the 3½ by 2 inch space. Any text with photos should include a separate photo in .jpg format. Quality of the ad will depend on the quality of the copy received. Material for posting must be in the form of a .doc or .jpg computer formatted file. (A clean printed and formatted hardcopy with a 3½ by 2 ratio format that can be scanned and used directly without editing may be used if it only requires scanning.)
- 10) You must be a member of NAWCC Chapter 141 in good standing to qualify for posting an ad in the Newsletter.

PERSONAL POSTINGS

LOOKING FOR -----

Neil Amrine is looking for a
Hermle 350-020 Movement
Prefer New/New in Box
e mail: NEIL54@AOL.COM