



Free State Chapter 141

MD, PA, VA, WV

AUGUST

No.2019-04



Are you ready for fall?! I certainly am after what felt like an exceptionally hot and humid summer. Here's hoping the summer weather translates to a beautiful fall with cool temperatures and spectacular colors. Besides the weather, none of our "local" pro baseball teams are quite living up to pre-season hype and expectations although both the Nats and Phillies are still in contention for a wild card berth. Further, with fall comes the race for the playoffs in baseball and the start of football and basketball. It truly is one of the best times of the year.

Unfortunately, we lost one of our oldest members over the summer when **Gene Trumpower** passed away on Independence Day at age 95. Gene was an interesting person who flew missions in a B-24 Liberator during WWII and was a POW during the last six months of the war.

Please welcome new member **Bill Cann** of Fairfax VA. Bill is relatively new to clock repair and looking to learn as much as he can. Having previously lived in Fairfax, I fully appreciate the challenge he has to make our meetings. Welcome Bill.

As you may have noticed, **Al Bush** is back as our Newsletter Editor with the help of his daughter **Rhonda**. Al had to take a hiatus from the job a couple of years ago for personal reasons. On behalf of the entire chapter, I thank **Alex Snouffer** for ably filling the position in the interim despite a heavy college workload. Had he not volunteered; I seriously doubt we would have had a newsletter these past couple of years. Alex continues as our webmaster. Thanks Alex!

Our **next meeting is Thursday, September 12** meeting and will feature a presentation by **Tom Mostyn** titled "The Untold Story of the Hidden Danger of Clock and Watch Making". If you are as curious as I am to see where Tom is going with this presentation, there's only one way to satisfy that curiosity, which is to **make your reservations with Darcy Bertelmann not later than September 10**.

Speaking of Darcy, she is collecting **dues for the current year (1 July 2019 – 30 June 2020)**. Dues remain \$8/year as they have been for the last 20 years – where else can you find a service that still costs the same after two decades?

As always, please **remember the brave American men and women**, both military and civilian, serving in dangerous places throughout the world to keep us safe. Unfortunately, keeping us safe at home is becoming ever more difficult and dangerous as we can see from the recent mass shootings in El Paso and Dayton, as well as attacks on police officers. We all need to do our part to support first responders as they put their lives on the line every day to protect and assist us. Please keep all our public servant heroes, military, police, firefighters and their families in your thoughts and prayers.

Lou

NEXT MEETING DATE

Thursday, Septembers 12, 2019 Location: Mountain Gate Restaurant

THE CHAPTER 141

FREE STATE MINUTES FOR MAY 9, 2019

LOCATION: Mountain Gate Family Restaurant, 133 Frederick Road, Thurmont, MD 21788

WHEN: Second Thursday of odd-numbered months, except July, 5:30 pm

MEMBERSHIP INFO: Lou Orsini- oh2batc73@comcast.net, or Darcy Bertelmann- horologybuff@gmail.com

WEBSITE: <http://community.nawcc.org/chapter141/Home>

MAY MEETING

President Lou Orsini presided over the May 9, 2019 meeting. There were 32 people in attendance, who enjoyed the Mountain Gate buffet. Darcy Bertelmann gave the Treasurer's report and we are still in good financial shape. Darcy also advised that we have regained our tax-exempt status with the IRS. President Orsini presented Darcy with the book "Clockmakers of Lancaster County Pennsylvania" as a token of the club's appreciation for her tenacious efforts in working to resolve the tax-exempt status.

A lucky member won \$44 in the 50/50 raffle.

The speaker for the May meeting was Ron Rothstein, a renowned mechanical engineer with a local defense, government, and intelligence company as well as a clock enthusiast. Ron gave a technical presentation on the effects of polishing and burnishing pivots and bushings from an engineer's perspective. The remarkable slides that he presented made the concepts that he was talking about easier to comprehend. He provided an in-depth presentation on pivot polishing and an analysis of the effect it has on time keeping. Using files, various grits of sandpaper, burnisher and polishing compounds after each step, he showed photos of the pivots and bushing taken through a high-power microscope to illustrate the results of each step in the process.

The second part of the program involved how Ron tested the time keeping results using various pieces of equipment that he made in his shop such as test stand, a test bed, weight scales and use of oil versus no oil on pivots. After filing a pivot and using his custom-made test stand and weight scale, he would test run the movement to determine the torque required to move the time gear train. In summary, Ron took an engineering approach to prove what horologists have known for centuries. The more highly you polish pivots and other components that work together, the more you reduce friction and there is a corresponding increase in accuracy, improved repeatability, and less torque required to move the time train. Ron also illustrated how gear train inertia and friction affects the clock movement. He showed that, surprisingly, the small escape wheel and verge have the largest effect on the time train.

Another interesting highlight of the presentation was how the microscope images that Ron presented were created. He improved the depth of field (that depth which is in focus) by taking a series of microscope images for each picture and then "stitching" them together with the open source software known as "CombineZP" by Alan Hadley.

This was a new and most interesting and effective presentation from a mechanical engineer's point of view to give scientific analysis to a horologists' point of view. President Lou Orsini closed the meeting at 8:30 PM

Respectfully Submitted, Secretary: *Deanne Mostyn*

President -- Lou Orsini, For more Chapter information contact at: oh2batc@verizon.net or 7703-352-7260

Vice President -- Neil Amrine

Treasurer -- Darcy Bertelmann, contact at: horologybuff@gmail.com

Secretary -- Deanne Mostyn

Newsletter Editors -- Al Bush: For feedback/input contact at: agbush172@gmail.com or 717-350- 0432

-- Rhonda Stran: or contact at: rhondamrs7@gmail.com or 717-398-4229

Webmaster -- Alex Snouffer: For feedback or input contact at: arsnouffer@gmail.com

Board of Directors--* George Hudson *Frank Goad *George Tresansky

If you have an interest in Clocks, Watches or Horology You won't want to miss Our Next Meeting

Thursday, September 12th, 2019 at Mountain Gate Family Restaurant

CHAPTER 141 PROGRAM FOR September 12th, 2019

The program for this meeting will have our own **Tom Mostyn** as the speaker. He will present **"The Untold Story of The Hidden Danger of Clock and Watch Making"**. The hazards of clock and watchmaking in "the Old Days". I'll leave the details to Tom. Come find out what they are.



Our programs are of general interest to all. It should be a very interesting and informative talk. Plan to come join us for a pleasant evening with friends and fellow Horologists. We'll look forward to seeing you there. If you have been around as long as time itself, or just acquired your first clock or watch or are even just thinking about it, come join in, we will welcome you. It is a social atmosphere where horological problems, solutions, history and finds are all shared, enjoyed and relished by all. If you don't enjoy it and take something away with you, be it information or a special horological acquisition, then you must not have been at our get together. And don't forget, if you don't get all the food you can eat, it is your fault. We will be looking forward to seeing you there. Oh! If you are having horological problem, absolutely do not hesitate to ask for help. The room will be well saturated with experts. If we don't know the answer, we probably know someone who does. *(By the way, if you ask a question, I may learn something too.)*

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

Meeting Reservations: You may use the meeting reservation form below to mail in your reservations for Free State Chapter 141 meetings. You should indicate the meeting date as you complete the form. You may also make reservations via e-mail to horologybuff@gmail.com by providing Darcy Bertelmann with the information requested on the meeting reservation form or by Calling Darcy at 717-487-5198 and informing her 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 stations in the region carry closure information including WMAR 2, WTTG 5, WJLA 7, WUSA 9, WBAL 11, WJZ 13, x 45, & WETA 26.)

----- Free State Chapter 141 Meeting Reservation Form -----

Reservation for Free State Chapter 141 Meeting on _____

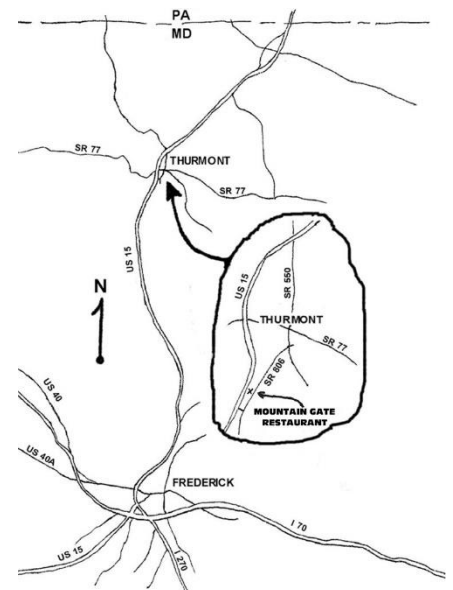
Name _____ Guest Names _____

Number Coming _____ x \$17.00 = Total \$ _____

Number of Mart Tables _____ (Mart Tables are Free)

Local Chapter Dues Renewal _____ @ \$8.00 per member for the year beginning June 30. (New members please use Membership & Renewal form under "From Your Treasurer").

Please make checks payable to Free State Chapter 141 and mail to
Darcy Bertelmann, 925 Johnson Drive, Gettysburg, Pennsylvania 17325-8903
Directions: Mountain Gate Family Restaurant 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 600 ft. on the left. If you need additional directions please call the Mountain Gate Restaurant at 301-271- 4373



From your Treasurer

Hello! There are a couple of things I need to make all members aware of.

The deadline for making reservations for a meeting: Tuesday before the Thursday meeting

I need to have a count for the restaurant by the morning of the day before the meeting.

Please make every effort to get your reservations in by the Tuesday deadline so we are fair to Mountain Gate, and they can accurately plan for food and waiter staff for us. I look forward to seeing you at the meeting.

Chapter Dues for Fiscal Year 2019-2020 must be paid by June 30, 2019 in order to be current. I have included a line item for dues on the reservation form should you wish to pay them now. Annual dues are only \$8.00 (unchanged since 2007). **New** members must use the renewal form below and include the **additional membership** information so we have the correct information for contacting you and providing the newsletter.

Contact me at horologybuff@gmail.com or call me at 717-487-5198 if you have questions. I look forward to seeing everyone at the Mountain Gate Restaurant for the next meeting. Please be prompt with your RSVPs for the meeting reservations.

Darcy Bertelmann

Attention:

It is important also to keep Darcy Bertelmann advised of any change in your membership information, address changes, etc. She can be reached at horologybuff@gmail.com or 717-487-5198
Please Note: **We cannot keep you informed if you don't keep us informed.** Thank you in advanced.

FREE STATE CHAPTER 141 MEMBERSHIP & RENEWAL APPLICATION

NATIONAL ASSOCIATION OF WATCH AND CLOCK COLLECTORS

Date _____ NAWCC No. _____

Name _____ Spouses Name _____

Address _____ Phone Number _____

City/State _____ Zip Code _____

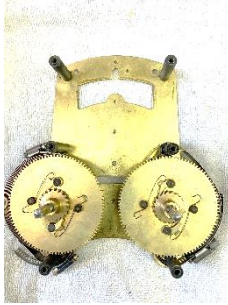
E-Mail Address _____ Prefer Newsletter via EMAIL _____ or USMAIL _____.

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:

*Please make checks payable to Free State Chapter 141 and mail to
Darcy Bertelmann, 925 Johnson Drive, Gettysburg, PA 17325-8903
Phone 717-487-5198 email horologybuff@gmail.com*

Horological Tips & Talks

SPRING RETAINERS



If you have taken a clock apart you are familiar with the “C” clamps shown below. They are readily available from supply houses, come in different sizes and are reasonably priced. A major drawback to them is their thickness, almost a quarter inch in diameter. This thickness can be a problem when reassembling the movement, it can press against the arbor of the second wheel making it difficult to position the pivot in the pivot hole and running the risk of breaking the pivot. Many years ago, I had an epiphany after tightening a hose clamp on a car that a hose clamp could be used as a mainspring clamp. I am sure many before and



after that epiphany have thought of the same thing. Shown below is a picture of a hose clamp and a picture of a time clock, Of all the mainsprings, time clock springs have my utmost respect. Also notice if you need a larger hose clamp, they can be lengthened by putting two or more together. If you chose to use them just give some thought to where you position the screw, you don't want it in an inconvenient position. As always comments pro or con are welcomed thru the newsletter or at meetings.



Tom Mostyn

Editor's Note

I am going to take you up on that LAST comment. I have run into that exact problem. I have a couple sets of the rings you show. I also have a set of the commercial spring cylinder rings. They are too wide or too bulky to fit inside smaller movements. I even have a set of tools to remove watch mainsprings and they are too small and too delicate for just about any clock spring. I have considered nylon tie wraps but am a little nervous with respect to their strength, and they stretch. Of course, there is always the iron wire like new springs come wrapped in and that's not too convenient either. One other thing I tried was using a spring I found in my junk box of auto parts. I'm not sure where it came from. Its wire is small in diameter and the spring diameter itself is in the range of small clock springs movements. I used a Dremel tool cut-off wheel to cut out 4 or 5 “C” rings from one spring. Although the spring wire diameter is small it is quite strong and has no problem containing smaller size mainsprings springs and it reduces the problem of fitting inside the small “fit up” type movements. While it is simple to just purchase a new “fit up” and totally replace the old movement, it does not answer the challenge of making the old “fit up” movement work again. I think your hose clam idea would work great and I have even seen the clamps you speak of in smaller horizontal widths that would still be strong enough for most movements such as kitchen clocks, for example. We thank you for a great tip. *al*

2019-04

WEB SITE NEWS BIT

from your webmaster, Alex Snouffer



I'm still keeping an eye on our website. It has come to our attention that some of our newsletters are not available on our website. This has been traced primarily to two factors. The issues when published were not also placed on our website and in some cases, there was no newsletter published for that date. *Editor's note: I am in the process of helping trace down any actual missing newsletters and taking steps to insure that as the newsletters are published, they are also placed on our website. In the process I have also found that in the distant past newsletters were placed on previous websites*

Chapter 141 had at locations other than the NAWCC website. These websites are no longer active but I was able to retrieve several past issues before the site was taken down. As time allows we will attempt to include these past newsletters on our current website.

Alex, arsnouffer@gmail.com

Personal Postings for Chapter 141 Members.....

ATTENTION: This page is for Chapter 141 members to post horological questions, ads, or notices at no charge. The Newsletter Advertising Policy is repeated here for your convenience. It has been defined and will be on file with the Chapter 141 records for viewing. Members 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. However, it is not intended that editing will be required for information you submit. It will speed things up if the information is submitted in Microsoft WORD file format as a .doc or .docx file by email to agbush172@gmail.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 seek their help to prepare and email the posting for you. Some sample postings that will give you an idea of what can be posted in a 2x3½" space were given in the 2013-04, June-July, issue of this newsletter. Effort will be made to maintain your posting, wording and presentation as you have submitted it.

NOTE: TIME & LOCATION for our
NEXT MEETING on
THURSDAY, SEPTEMBER 12, 2019 at the
MOUNTAIN GATE FAMILY RESTAURANT
Thurmont, MD 21788, 301-271-4373



----- HOPE TO SEE YOU THERE -----

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POSTINGS

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LOOKING FOR SOMETHING OR HAVE SOMETHING SOMEONE ELSE NEEDS ?? POST IT HERE !!!!!!!!!

IF YOUR ARE INTERESTED IN A GRANDFATHERS CLOCK **HERE IS ONE AND THE PRICE IS RIGHT**

I only have the following details: "I have been made aware of someone who is giving away an empire 100m grandfather clock made from a kit German movement west minister chime moon phase. He is in Herndon". IF you are interested contact **Neal Amrine 301-229-2587**