

# London Times

## FEBRUARY MEETING

Our February Meeting is February 3. Because of weather concerns, this meeting will feature a DVD presentation on the Monumental Engel Clock which is part of the NAWCC Museum Collection. The presentation discusses the history of the clock, shows the various functions, including a number of animations and talks about how the clock was discovered in a barn in the Eastern United States in deplorable condition and how the restoration was accomplished. The clock still runs, although it is only run for a short time each day. The schedule of the display is listed beside the clock so that visitors to the museum can have a chance to see it in action. Since it is February, how about a display of Valentine or Love themed clocks and watches! It can be a timepiece with a heart, one you love, or perhaps one that reminds you of a loved one!

**The doors will open at 9:30.** This is a little later than usual, but the presentation is only 25 minutes long, so again, in case the weather is threatening, this allows extra time to get to the hall. **Don't forget your items for the Silent Auction!** Hope we see you in February!

## DECEMBER MEETING

The December Meeting was very well attended with over 60 people staying to enjoy the turkey dinner. The Silent Auction was quite large and bidding was brisk. Following the auction, the group played a rousing game of Horological Jeopardy. The experience was fun as well as educational! As always, the treats brought to share were delightful. The turkey dinner, served by the ladies of the Legion was very tasty. The Directors would like feedback about whether or not this should be made a regular part of the December Meeting. It was a great start to the holiday season and wonderful to see so many members in attendance.

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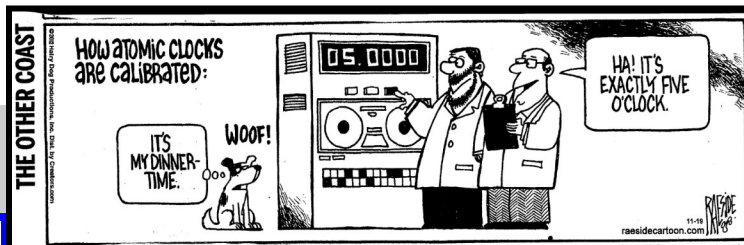
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## Upcoming Meetings

### Chapter 92

### Meeting Dates 2012/13

**Lambeth Legion**  
**9:00 a.m.**

**Feb. 3**

**April 7**

**June 2**

### Toronto Meeting Dates

**Jan. 27,**  
**March 24,**  
**May 5.**

**Travelodge**  
**Airport Hotel**

## **AUCTION REMINDER**

**Just a reminder that the June Auction is coming up. Forms will be available in the next newsletter. Don't be disappointed!! Consign early.**

## New Workshops—New Format!

A series of clock repair based workshops is being planned. They are “Basic Clock Repairs, Metalworking & Lathe Skills”, “Repair of a Time & Strike Movement” and “Repair & Replacement of a Strip recoil Escapement”. We are planning on doing the workshops on a weekend (Saturday & Sunday) and would like to do a few workshops this spring. The cost will be \$90 for each of the two day weekend workshops. A minimum number of participants will be required for each of the workshops.

We are surveying the membership to see if there is any interest for these workshops. Please reply as soon as possible to Eldon ([eldongrant41@gmail.com](mailto:eldongrant41@gmail.com)) or Mark ([mloates@rogers.com](mailto:mloates@rogers.com)) which workshop you would be interested in attending.

**Basic Clock Repairs, Metalworking & Lathe Skills:** These are a series of three, two day workshops that covers some of the common repairs that are likely to be encountered in clock repairing. Please note that these workshops are for “skills development” and not participant’s clock repair. Some of the items that will be covered are pivot straightening and replacement, teeth replacement in wheels and barrels, lantern pinion repair, softening/hardening/annealing steel, bluing of steel, etc. These workshops are the foundation for the other workshops.

### Workshop 1

- Repair lantern pinion
- Basic lathe operation
- Straighten arbors
- Correct wheel wobble
- Straighten & Polish pivots
- Replacing bushings by hand and using bushing tool

### Workshop 2

- Make click rivet and repair click
- Make & replace barrel hook
- Soften the end of mainspring & punch a new hole
- Replace pivot
- Replace a clock wheel tooth

### Workshop 3

- Straighten escape wheel teeth and check concentricity
- Reverse worn main wheel
- Replace a barrel tooth
- Use of depthing tool to correct incorrectly placed bushings

*To place items in the newsletter, please contact Cathy Koolen by email at [ckoolen@htl.net](mailto:ckoolen@htl.net) or by regular mail.*

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*We reserve the right to refuse any ad that contains fraudulent, misleading or inappropriate material.*

**Repair of a Time & Strike Movement:** This is a series of two, two day workshops that covers the repair of a Time & Strike movement with open mainsprings that is typically found in Kitchen and some Mantel clocks. These workshops build on the repair techniques that were learned in the “Basic Clock Repairs, Metalworking & Lathe Skills” workshops. For these workshops, the participant will be repairing their own movement. The required movement for this workshop is to have open mainsprings and a recoil escapement on an outside plate (movements that have dead-beat escapements or pallets that are between the plates are not acceptable). The recoil escapement on an outside plate is required so the same movement can be used for the “Repair & Replacement of a Strip recoil Escapement” workshop.

#### Workshop 1

- Identifying the movement parts
- Safe movement disassembly
- Clean movement by hand & with ultrasonic cleaner
- Clean mainsprings
- Repair movement based on material covered in “Basic Clock Repairs, Metalworking & Lathe Skills” workshop.
  - (This will spread over into Workshop 2)
  - Straighten, replace & polish pivots
  - Install bushings replacement bushings by hand and using bushing tool
  - Inspect main wheels for wear – reverse if required
  - Repair clicks
  - Correct lifting lever problems
  - Repair lever return springs
  - Repair/adjust slip collar assembly on centre shaft
  - Repair and adjust escapement components
  - Replacing bushings by hand and using bushing tool

#### Workshop 2

- Complete the repair of the movement that was started in Workshop 1
- Practice movement assembly – time & strike trains
- Count time train wheels & pinions to determine beats per hour
- Final movement assembly
- Time train trouble shoot
- Strike train set-up & adjustment & trouble shoot
- Oil movement
- Adjust beat
- Use clock timer to regulate

**Repair & Replacement of a Strip Recoil Escapement:** This is a two day workshop that covers the repair and replacement of strip recoil escapement and components that are typically found in open spring clocks. This workshop builds on the repair techniques that were learned in the “Basic Clock Repairs, Metalworking & Lathe Skills” and the “Repair of a Time & Strike Movement” workshops. For this workshop, the participant will be repairing their own movement. The required movement for this workshop is to have open mainsprings and a recoil escapement on an outside plate (movements that have dead-beat escapements or pallets that are between the plates are not acceptable). The movement must have been recently cleaned, repaired, oiled and running. The escape wheel must have been checked for bent teeth and concentricity and repaired if required. The escape wheel must have been bushed if required.

#### Workshop

- Check escape wheel for bent teeth. Check escape wheel bushing.
- Restore the existing strip recoil pallet assembly. Repair worn pallet faces, worn saddle and crutch.
- Adjust the existing escapement:
  - Strip pallet adjustment
  - Adjust drop
- Make a replacement strip recoil pallet assembly using “escape wheel tooth span” method
  - Discussion on design of strip recoil pallet using “escape wheel tooth span” and crutch length
  - Shape, polish, harden and temper pallets
  - Test completed strip recoil pallet assembly in clock movement
- Discuss escape wheel/pallet replacement and changing beats per hour/pendulum length