



# NAWCC NEWS

National Association of Watch and Clock Collectors  
Atlanta Chapter 24  
October, 2010

## The Tower Clock at Salisbury Cathedral *by Tom Noesges*

**Jim Coulson** - The fact that Jim Coulson's father was stationed in Salisbury, England, during WWII and that Jim possesses a long-time love of tower clocks combined to drive him to tour the Salisbury region of England in 1984. On August 1, 2010, Jim shared his incredible horological experience with our members through use of his 35mm slides and personal notes.



*Jim Coulson*

**Stonehenge** - There exist two monuments to religion in southern England. The oldest is the ancient stone circle of Stonehenge at Salisbury Plain in Wiltshire, England. It is one of the wonders of the world -- an astronomical observatory in use from about 2800 until 1100 BCE. This observatory was capable of predicting heavenly events that spanned periods of 18 and one-half years. A fascinating and unanswered question about Stonehenge is how were the 35 ton stones moved to this location



*Stonehenge*

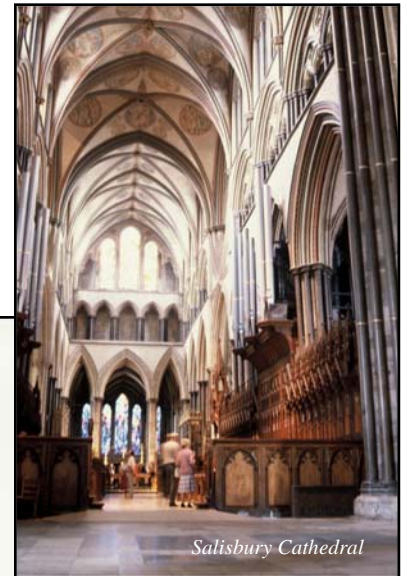
from South Wales over 135 miles away.

**Salisbury** - The other is the Salisbury Cathedral, formally known as the Cathedral Church of the Blessed Virgin Mary. It is an Anglican cathedral in Salisbury, England, considered one of the leading examples of early English architecture. The main building was completed in only 45 years, from 1220 to 1265 CE.

In sharp contrast to the earlier Romanesque architecture (rounded arches, thick walls and dark gloomy mood), the Gothic architecture (pointed arches, exterior flying buttresses and tall, light-filled mood) of Salisbury Cathedral is often referred to as a celebration of life. This architecture is open, made basically of columns and windows. The design had a horological intent, as there are 12 gates built because the light of day is 12 hours long; the 365 windows (comprising 32,000 square feet of glass) represent the days in a year; and the cathedral was constructed with a marble pillar for each hour of the year - 8,760 pillars in all.

**The Tower Clock** - The incredible Salisbury Cathedral is, if you will, the case for its tower clock. The tower clock at Salisbury Cathedral, dating from 1386 CE, is the oldest working modern clock in the world. The clock has no face because all clocks of that date rang out the hours on a bell. All churches of the period

had a person whose job it was to ring the bell -- the Bell Ringer. The Bell Ringer was awakened on the hour by a small alarm clock. It was the genius of a clockmaker to design a tower clock capable of ringing the



*Salisbury Cathedral*

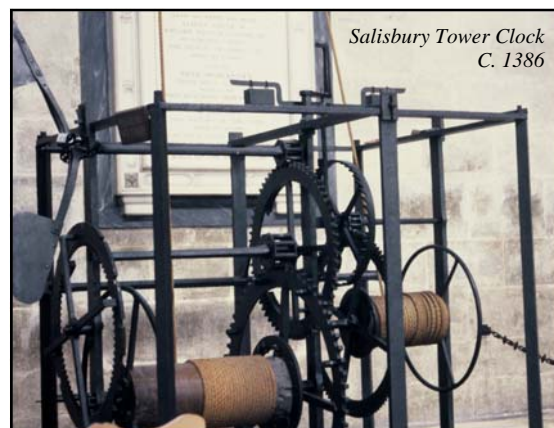


*Salisbury Cathedral*

bell itself, thereby eliminating the over-paid employee. The tower clock is an early example of mechanization to reduce costs.

The tower clock of Salisbury was originally located in a bell tower that was demolished in 1790. Following this demolition, the clock was moved to the

Cathedral Tower where it was in operation until 1884. The clock was then placed in storage and forgotten until it was discovered in 1929, in an attic of the cathedral. It was repaired and restored



*Salisbury Tower Clock  
C. 1386*

to working order in 1956 and re-installed on July 18<sup>th</sup> at the Annual Festival of The Friends of Salisbury Cathedral.

As can be seen from the drawing of the tower

clock components, this 624 year old design hasn't changed with

*(Continued on page 2)*

## Minutes of NAWCC Atlanta Meeting: August 1, 2010

- President Chris Brown called the meeting to order following a lively auction led by Brooks Coleman.
- Chris Brown asked for introductions of new attendees. Guests: Rod Girod, Beaton and Ken Hogwood, Louise Radloff, Dr. Philip Ramsay, Jay Singadia and Duke Williams introduced themselves.
- Tom Noesges read the Minutes of the June 6, 2010 meeting. The Minutes were unanimously approved as read.
- Donna Kalinkiewicz gave the Treasurer's Report, including our account's beginning balance, receipts, expenses and ending balance.
- Old Business
  - ◆ Tom Noesges gave an update on the Education Program.
  - ◆ Pete Schreiner gave an update on the State Historic Clocks.
- New Business
  - ◆ Chris Brown said the 2010 Mid-South Regional Exhibit will be Lux Clocks. Register to display your clock at this Regional. Chris also has sign-up sheets for Mid-South volunteers.
  - ◆ Chris Brown said that the officers and directors are charged with identifying new officers for the 2011 and 2012 term.
  - ◆ Donna Kalinkiewicz announced that anyone having made a contribution to either Chapter 24 or the Atlanta School of Horology needing a receipt for tax purposes, please contact her.
- Program
  - ◆ George Waterhouse introduced Tips & Hints (see article in this publication).
  - ◆ George Waterhouse introduced Jim Coulson - Franklin Clock, Renee Coulson - Monk & Suds and Donna Kalinkiewicz - Elephant Clock for Show & Tell. (see articles in this publication).
  - ◆ George Waterhouse introduced Jim Coulson's presentation on the Tower Clock at Salisbury Cathedral, England. (see article in this publication).

### Tower Clock at Salisbury *(continued from page 1)*

the exception that the frame was held together with metal dowels and pegs. Nuts and bolts were not invented until the beginning of the 15<sup>th</sup> century. The escapement was the verge and foliot type, standard for clocks of this age. To help the reader with the idea of scale, the count wheel is 20 inches in diameter. The power was

on the hour. The bell was recast in 1661 and weighs 2,800 pounds. The left half of the clock is the striking part; the right half is the going part.

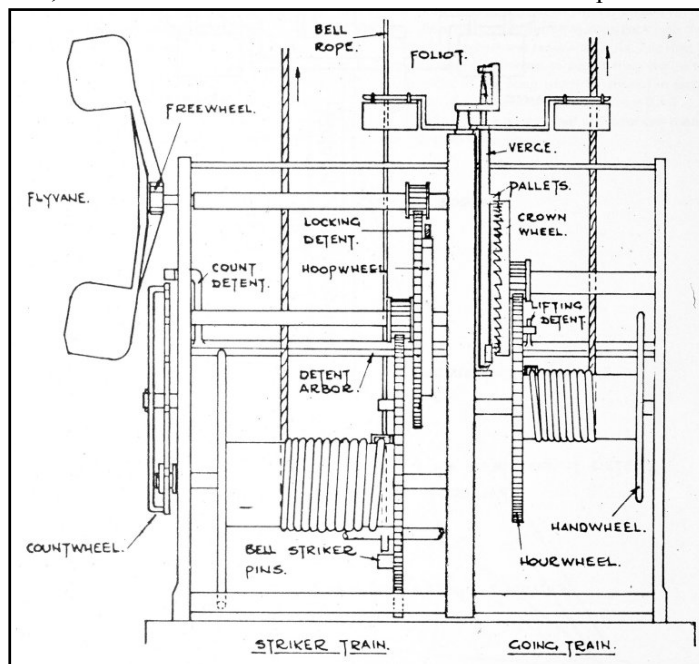
James Coulson can be contacted to obtain more detailed information about the 1386 tower clock and the Salisbury Cathedral. ■

### Groaner by George Waterhouse

A lawyer opened the door of his BMW, when suddenly a car came along and hit the door, ripping it off completely. When the police arrived at the scene, the lawyer was complaining bitterly about the damage to his precious BMW, "Officer, look what they've done to my Beeeemer!!!" he whined.

"You lawyers are so materialistic, you make me sick!" retorted the officer, "You're so worried about your stupid BMW, that you didn't even notice that your left arm was ripped off!!!"

"Oh my gaaaad...", replied the lawyer, finally noticing the bloody left shoulder where his arm once was, "Where's my Rolex???" ■



supplied by two large stones (80 pounds for time and 240 pounds for strike) hanging from pulleys. As the weights fall, ropes unwind from the wooden barrels. One barrel drives the main wheel which is regulated by the escapement; the other drives the striking mechanism and the fan governor. When the weights reach the floor, they have to be lifted back up again, a task that explains the presence of a large wheel shaped like a steering wheel at each end of the clock. The clock was a 'single strike' clock that struck only



### FREE STUFF

The Door Prize raffle during our August, 2010 meeting was won by our long time member Kathy Brook. The August door prize was the Tran Duy Ly book "Ansonia Clocks and Watches" Congratulations Kathy!

Every guest or member attending our general meeting has the opportunity to win an Atlanta Chapter 24 Door Prize. ■



### 3 The Maiden Voyage - Atlanta School of Horology *by Tom Noesges*

All of the students and the volunteers of the Atlanta School of Horology thank you, Chapter 24, for your confidence and your generous donations that made it possible to conduct our first class: AC101 Eight-Day American Kitchen Clock. Every tool worked, the facility accommodated us perfectly, and - most importantly - every student learned.

Everything came together professionally and on time and under budget. It is totally remarkable, but not unexpected, as we had some of the most knowledgeable horologists, educators and hard working enthusiastic people helping to pull it all together. Very good use was made of every single donation we received, and our major horological supplier, Timesavers LLC of Scottsdale, AZ, had their people work Sundays to fill our orders. Moreover, they gave us large discounts and free products. Steven G. Conover, author of the *Clockmakers Newsletter*, gave the school permission to use his copyrighted material as teaching aids. NAWCC Atlanta chapter 24 is being watched closely by our National organization and other chapters as a business model to strengthen the membership in the NAWCC and to further our special interest in horology. Be proud!

#### Lectures - Bill

Knaak easily led us through some of the most complex subjects in clock mechanics, theory and practices. He began by announcing that we must carefully disassemble our movements, and then "accidentally" spilled all of the wheels and levers - mixing up every-



Bill Knaak



Striking Mechanics Lecture

thing. We students gasped! Then Bill taught us how to sort wheels by understanding their purposes and the logic of critical sequence, and we all grinned with delight.

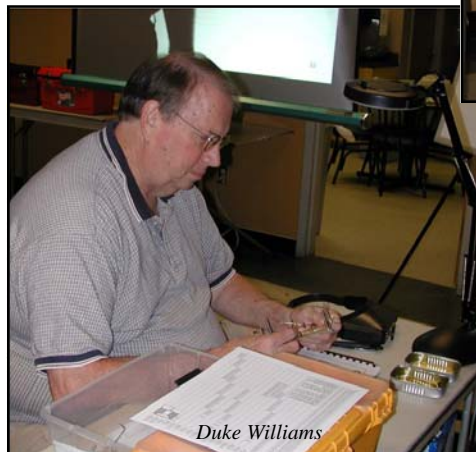
**Lab** - The students learned NAWCC professional practices through a series of hands-on laboratory work ranging from Let Down and Work Organization to Testing. All of the lectures, demonstrations and student lab exercises were done to achieve the craftsmanship and repair philosophy of (1) Restore to original factory condition; (2) Use accepted procedures; and (3) Practice quality work.

**What's next?** - Our next class will be an *improved* AC101

Eight-Day American Kitchen Clock and will be scheduled during the fourth quarter 2010. Significant changes will be made to AC101 based on the student feedback we received during our maiden voyage. Following this we will conduct a class in Three Train Westminster Chiming Clocks. From the work done by the Education Committee



Brooks Coleman



Duke Williams

and most recently by Randy Grunwell and Robert Collom, we have developed a Master Horologist Certificate Program

consisting of over 40 horological subjects. We are in the process of developing a Train the Trainer Program to help move people who already possess special artistic and/or horological talent and skills into the teaching field to perpetuate the school's curricula.

**Funding** - The school will continue to look to the generosity of members like you to provide the donations



Gary Layman - Star Student



Atlanta School of Horology - AC101 - August 28, 2010  
BACK ROW: Bill Knaak, Brenda Wiggins, Robert Collom, Donna Kalinkiewicz, Roger Kellogg, Larry Lyskowski, Tom Noesges  
FRONT ROW: Brooks Coleman, Duke Williams, Hank Scott, Gary Layman

we need to acquire the special equipment needed such as lathes and ultrasonic cleaners.

May we all have the strength to continue to pursue our vision of teaching horology to preserve the heritage of our great history of timekeeping. ■



## Treasurer's Report By Donna Kalinkiewicz

The August, 2010 meeting had 58 members in attendance and seven guests. We welcome Rod Girod of Marietta, GA, and Ken and Beaton Hogwood of Greenback, TN as Chapter 24's newest members.

Once again we held a special auction for the benefit of Chapter 24 sponsored Atlanta School of Horology. The school received another \$1,658.00 to help purchase supplies and equipment. That was awesome. Remember that donations to the school are tax deductible. As I write this report, the first class is now in the history books and I got to join in on the second day. I was very impressed with the instruction and the enthusiasm of the students. Whether you want to learn for a career, or just know what makes your clock/watch collection "tick," you will find it at the Atlanta School of Horology.

Please note that after the new roster was printed, your treasurer's email address changed. It is now [dmktimes2@att.net](mailto:dmktimes2@att.net). Please make this change in your roster or your address book. Thanks. Copies of the roster will be at the October meeting. ■

## Show & Tell

### Animations by Renee

**Coulson** - The first clock Renee described was one she called Monk & Suds which qualifies as a clock because the barrel upon which the suds-drinking monk is seated tells time. The other clock is one Renee saw in the NAWCC Bulletin about five years ago. The clock is referred to as a Lamp Clock. The shade of the clock rotates with the time of day. "It's the animation we like," Renee said. Renee didn't bring any of her Lux clocks as they will be in the Exhibit at the Mid-South Regional in Chattanooga during September 2010.



Renee Coulson



Franklin Clock

### The Franklin Clock -

Jim Coulson is showing a clock from Signal Mountain, Tennessee, which is a suburb of Chattanooga. The clock label shows the manufacturer as the Franklin Clock Company 205 Taft Highway, Signal Mountain, Tennessee. The clock is electric and was

made in the 1950s. Last year Roger Kellogg spoke about this clock in great detail from a time keeping and time interpretation perspective. But it is fascinating to discover that this clock now has a patent. Jim showed a copy of the patent which is for the Franklin dial which Ben Franklin invented about 1758. This patent is dated 1956. According to Jim, this is a clock that you have to know what time it is in order to tell what time it is. It has one hand which goes around three times each 12 hours. It seems that one needs to know the time of day to within four hours in order to tell the exact time.

### Donna Kalinkiewicz and David's Elephants -

Her husband, David, loves elephants, so when Donna spotted this Elephant Clock on Ebay it was destined to become her hus-



Donna Kalinkiewicz

band's Father's Day gift. This is a Sessions electric clock mounted between two elegantly carved wooden elephants. The only restoration work the clock needed was a new power cord. Happy Father's Day, David! ■

## Tips, Hints, Products & Procedures

### Lantern Pinions for American Clocks - Bernie

Tekippe, after replacing the trundles in the shrouds, solders a hand washer to the top of the shroud. He then cuts off the edges of the washer (to be even with the shroud) with his lathe. The 'W' in the picture indicates the washer



and the 'S' indicates the solder. Although this repair technique is not as elegant as punching to close the shroud, it is a great quick fix and the trundles will still rotate.

### SOY Gel professional paint stripper by Franmar

Chemical - George Waterhouse discussed a completely soy based product safe to use - you can use it indoors and it has no odor - it works really nicely. This product is made from natural soy and is safe for your hands. It is 100% bio-degradable. SOY Gel stays as a wet product on your wood and doesn't evaporate as petroleum-based products do. The product removes the old shellac and leaves the stain on the wood. The product is sold for \$20.99 per quart and can be found online by simply searching for "Franmar". ■



## Up-Coming Programs & Presentations

*PLEASE bring clocks, watches and other items of horological interest to share with your fellow members. Call George Waterhouse (770) 939-5799 and tell him what you would like to bring. Don't be bashful or feel that you're endorsing the item. This is an opportunity to share your experience—small or great!*

### October 2010

The subject will be Southern Label Clocks - Bill Bryan of Etowah, TN will cover the latest list of southern labels and show examples of the clocks in which they appear. Many of the examples will be from those exhibited at the 2007 NAWCC National Convention, but some more recently documented examples also will be included. There also will be discussion of the reasons why southern label businesses were created, and some of the principals involved.

### December 2010

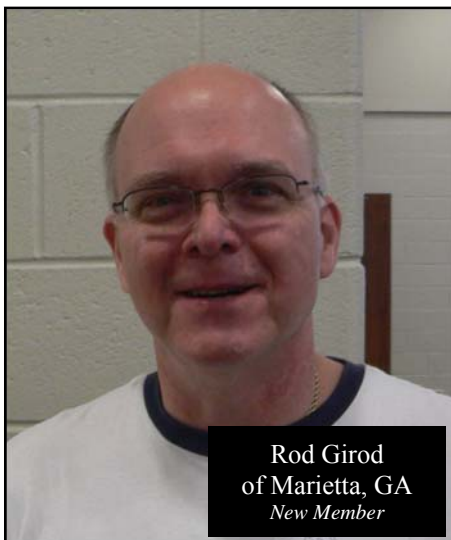
**Holiday Party. The December Atlanta Chapter 24 meeting will provide abundant food and traditional gala holiday festivities. All members and guests are encouraged to bring their entire families.**

### February 2011

The Global Positioning System - Tom Dod, one of the inventors, will share how it works, signal content, applications and the future of GPS. ■

## Welcome New Members & Guests!

The Officers, Directors and the entire membership of Atlanta Chapter 24 welcome you! ■



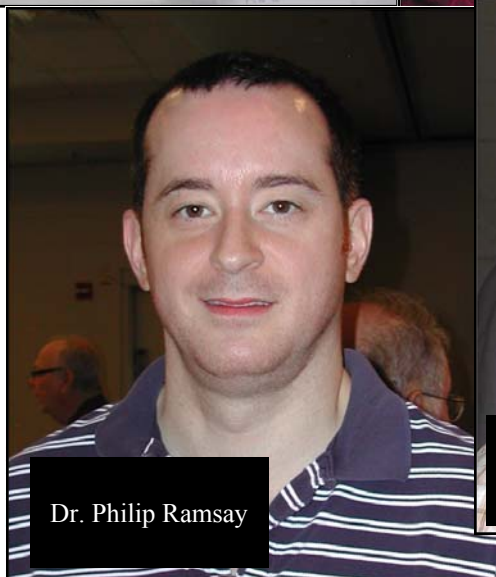
Rod Girod  
of Marietta, GA  
*New Member*



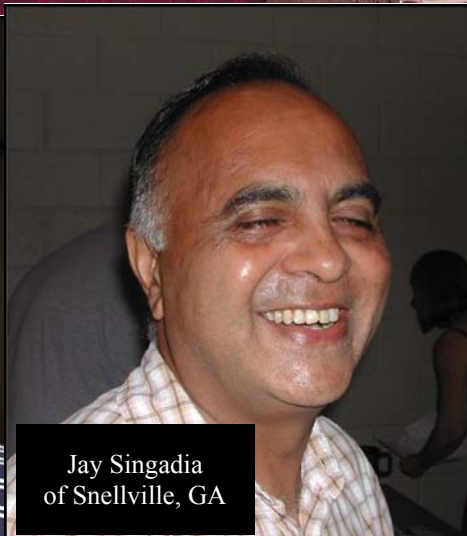
Beauton and Ken Hogwood  
of Greenback, TN  
*New Members*



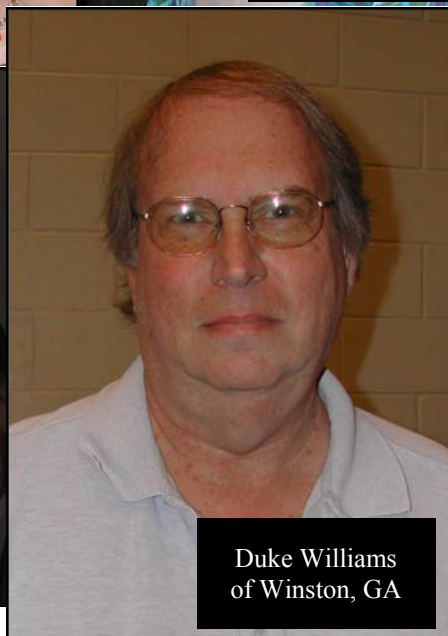
Louise Radloff  
of Norcross, GA



Dr. Philip Ramsay



Jay Singadia  
of Snellville, GA



Duke Williams  
of Winston, GA

## Classified Section

This area is dedicated to advertising for Chapter 24 members. It is, of course, free to members.

### WANTED WANTED WANTED WANTED WANTED

🕒 One of the clocks from the Lapham-Patterson house in Thomasville needs a two vial mercury pendulum (not faux) for a French H&H (Japy Freres) movement. If you have this pendulum or even possibly know where one can be acquired, please contact Pete Schreiner [PGS3@Mindspring.com](mailto:PGS3@Mindspring.com) or call (404) 633-4772

🕒 French clock movements—complete with bezel, glass and ready to install in 4 1/2" diameter opening. Not running is OK. Call: Tom Liady - (404) 873-4400

🕒 Used Franz Hermle , 451-050 85 cm set of works that I can cannibalize for parts. Email: Allan Imes - [AllanImesSr@aol.com](mailto:AllanImesSr@aol.com)



If you would like to place an ad in this space for your items needed, services you offer or horological items for sale, contact  
Tom Noesges -  
email [Thomas@Noesges.com](mailto:Thomas@Noesges.com) or call (770) 262-0883.

## Next Meeting of Chapter 24

Sunday, October 3, 2010 - 9:30 AM until 1:00PM



**FROM THE SOUTH (IN TOWN):** Take I-285 to Exit 39B which is Highway 78, continue on 78 to Exit 7 onto Hugh Howell Road. After this exit, immediately turn right onto Lilburn-Stone Mountain Road. After 0.2 mile, turn right onto Old Stone Mountain Road. Continue to the intersection of Rockbridge and Five Forks Trickum. Turn left on Rockbridge Rd. The Aquatic Center is two blocks north on left.

The Atlanta Chapter of the NAWCC typically meets the first Sunday of February, April, June, August, October and December. As part of the Mid-South Group, it also sponsors the regional meeting in Chattanooga on Labor Day Weekend each year, in rotation with the Alabama and Tennessee chapters.

**FROM THE NORTH-WEST:** Take the I-85 east exit from I-285. Exit 99 and turn right on Jimmy Carter (Hwy 140). Continue and bear left onto Rockbridge Rd. Aquatic Center will be on right—two blocks before Five Forks Trickum Rd.

**FROM CUMMING / HALL COUNTY:** Take Exit 101 Indian Trail / Lilburn Rd NW off southbound I-85. As you cross Hwy 29 Lawrenceville Rd, Indian Trail becomes Killian Hill Rd. Turn right onto Five Forks Trickum Rd.

Turn right onto Rockbridge Rd. Aquatic Center is two blocks north on left.

**Tom Noesges, Secretary**  
**NAWCC Chapter 24**  
**5211 Willow Creek Overlook**  
**Woodstock, GA 30188**

Membership paid through...