



NAWCC NEWS

National Association of Watch and Clock Collectors
Atlanta Chapter 24
April, 2011

G.P.S. photos by Pete Schreiner

Our presenter, Louis R (Tom) Dod, worked in the US Space Program for 47 years, joining the National Aeronautics and Space Administration (NASA) in 1959 soon after the agency was formed. As a research engineer with Goddard Space Flight, he was assigned to the Naval Research Lab in Washington, DC while the Goddard Lab was being built in Greenbelt, Maryland. His first assignment was Team Membership for the construction of the first satellite to be built by NASA Goddard.



Louis (Tom) Dod

Over his long career, Tom Dod worked in various groups at NASA Goddard, including the development of the Earth stations for satellite communications, tracking, microwave remote sensing of the Earth, severe weather measurement using microwaves, and development of numerous scientific satellites.

Tom Dod later retired from NASA and joined Swales Aerospace Company as a Senior Research Engineer. His last project was the development of five satellites for the University of California at Berkley. When these satellites were launched, they made the first simultaneous measurements of the interaction of the Earth's magnetic field with solar radiation.

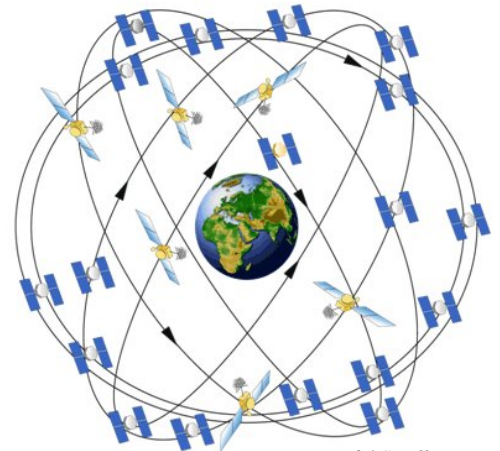
We typically think of GPS as the device mounted on the front windshield of our car. These amazing devices have the capability to track our location and provide navigation of our car's motion with complete maps of all of the roads in our

country. The memory of these little units is impressive and options for traffic monitoring, lists of restaurants, etc., have made them the best navigation tool for road travel.

Magellan, a GPS navigation system manufacturer, claims to have created the first GPS-based vehicle navigation system in the US in 1995, thereby forever eliminating the

need for printed road maps except, perhaps, for initial planning.

GPS stands for the Global Positioning System which is a US Air Force satellite system that provides navigation aids to military and civilian users.



24 Satellites

There are 24 satellites in orbits about 12,500 miles above the Earth, each with a speed of 2.42 miles per second (8,723 MPH) resulting in a circulation time of about 12 hours. Each satellite has a 55° inclination angle towards the Earth's equator. This constellation allows a GPS receiver on the ground to view multiple satellites at once. The 12 hour period means that a satellite in the constellation circles the Earth twice a day. The blue parts of the

satellites represent solar cells. The number and constellation of satellites guarantees that the signals of at least four satellites can be received at any time of day all over the world.

The closer you get to the poles, the lower over the horizon the satellites are located. They can still be received very well, but in no case are they directly overhead. This may lead to a negligible loss of precision of the position determination.

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After a brief history of the development of the system by the US military, Tom explained that highly accurate clocks were needed to facilitate very precise time and time transfer on Earth to make practical use of time, distance and elevation here on the planet. The clocks used the rubidium and cesium atomic frequency standard which breaks a second into nine billion parts. Accurate (often within feet) determination of location on Earth and above Earth has made possible a myriad of uses:

Military and Government - The major use is for worldwide navigation, everything from aircraft carriers to Humvees to fighter planes. Logistics lays down the groundwork for effective warfare, and GPS plays a major role in moving troops around in a coordinated fashion, whether worldwide or within a city block. Similarly, missiles can more precisely hit their targets if they are guided by GPS systems. This may even be used to locate lost

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GPS 5th IIRM Satellite



GPS is a powerful tool for survey

Minutes of NAWCC Atlanta Meeting: February 6, 2011

- ◆ President George Waterhouse called the meeting to order following a lively auction led by Brooks Coleman.
- ◆ Tom Noesges read the Minutes of the December 5, 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. Name tags with the date 2010 shown will need to renew their membership now. Membership dues will be \$15 for one year and \$25 for two years.
- ◆ Old Business
 - ◆ Pete Schreiner gave a report on the Mansion clocks – one clock was returned to the perseveration lab and Pete has two he's working on. All are happy with the work being done.
 - ◆ Bernie Tekippe gave an update on the 2011 Mid-South Regional convention. He and George Waterhouse have been working on the budgets and have figured new ways to reduce expenses. Bernie announced that there is a planning meeting with the co-host chapters scheduled for April 30 and will soon be looking for volunteers to help with the convention.
- ◆ New Business
 - ◆ Randy Grunwell announced that we hold a clock class/group meeting at Meadowcreek High School (4455 Steve Reynolds Blvd. Norcross, GA 30093) each Tuesday from 6 to 8 PM. We work on clocks and related projects, share knowledge, tools and have good fellowship. Everyone is welcome. If interested, contact Randy Grunwell.
 - ◆ George Waterhouse explained and asked for member approval of the Estate Disposal plan to be offered to people asking the chapter's assistance with disposal of their horological items. The plan was approved by all present.
 - ◆ George Waterhouse announced that a clock shop in Daytona, FL is seeking to hire a full time clock repair person. Anyone interested see George Waterhouse.
 - ◆ Renee Coulson encouraged everyone to vote for positions at NAWCC National – for more information see Renee Coulson.
- ◆ Program
 - ◆ George Waterhouse introduced Jae Martin's Tips, Hints, Products and Procedures for Restor-A-Finish and Nano-Oil (see article).
 - ◆ Jae Martin introduced George Waterhouse's Show & Tell - Birge & Mallory Triple-Decker clock (see article).
 - ◆ Jae Martin introduced Tom Dod's presentation on GPS (see article). ■

G.P.S. (continued from page 1)

soldiers behind enemy lines so they may be more quickly rescued.

The US government also finds use for GPS devices, primarily for its tracking abilities and law enforcement. Warrantless GPS tracking of cars is a tactic for pinning down suspects and for keeping track of those out on bail. Tracking convicted criminals upon their release is another use, especially for pedophiles. Today these are all quite controversial and, in the eyes of many, constitute a major violation of both privacy and the Constitution. Therefore, these uses may not be around in the future. GPS has also proven to be a major aide to firefighters trying to figure out while on the front lines where the fire might spread next and where to try to prevent it.

Commercial and Scientific - Navigation is important for tracking fleets of delivery trucks and rented cars. Airplanes are able to locate a landing strip in foggy weather, and radar systems are beginning to be replaced by GPS for many pilots.

GPS tours are a growing feature for tourists. As the device, presumably rented, approaches a point-of-interest, it can display information relevant to that location.

GPS is a powerful tool for survey, both commercial and scientific in nature. Being able to precisely match where physical geographic features are relative to each other is especially handy for geology, for measuring Earthquake movements or for building a skyscraper.

Exact atomic synchronization of facilities across the world is

necessary for coordinating, say, management of NASA's far flung space observatories.

Civilian - Navigation is the single most used function of GPS. No need for foldout maps covering your windshield anymore; a small inexpensive device can give you directions and even updated traffic and construction information. Handheld devices have become popular for recreational use in hiking and mountaineering.



Objects may be tracked as well. Laptops can be found should they get lost. Cars and cell phones may contain GPS transmitters in order that both they and the individual carrying them may be located at any time. Another use lies in devices more directly aimed at tracking individuals wearing a GPS wrist collar or shoes for everything from wandering toddlers to lost Alzheimer's patients to your favorite pet.

Anyone interested in learning more about this subject can contact Tom Dod. ■

2011 Mid-South Regional Convention or Something about Wally's

- Atlanta Chapter 24 is the host of the 2011 Mid-South Regional. The Mid-South Regional this year is scheduled to begin Thursday evening September 1st with a welcome/reception at 4:00PM. The Regional will end on Saturday, September 3rd at 1:00PM. The exhibit will feature French clocks, and three lectures are planned.

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2011 Regional (Continued from page 2)

Continuing the longstanding tradition for the Mid-South Regional, we have scheduled the annual planning meeting at Wally's Restaurant for Saturday, April 30th. The planning meeting is



scheduled to begin at 10:00 AM (Chattanooga time) and we are projecting it to end, with lunch by 1:00 PM. Everyone is invited to attend the meeting at Wally's and we would like to see a good turnout from our chapter. Tables will

also be available to place items for sale; consider it a mini mart. Wally's address is 6521 Ringgold Rd., East Ridge, TN 37412. Take I 75 North from Atlanta. When you cross the Tennessee line take Exit 1B to Ringgold Rd., (US 41 N.) Wally's is on the right.

Direct any questions to: Bernie Tekippe (404) 355-5141 tbrnie@comcast.net or George Waterhouse (770) 939-5799 clockdoc35@yahoo.com. ■

GROANER(s) by George Waterhouse

The Fourteen Day Clock - The proud owner of an impressive new clock was showing it off to a friend. This clock, he said, "will go for 14 days without winding." "Really?" replied his friend, "And how long will it go if you do wind it?"

The Best Salesman - Three salesmen were bragging who is the best. The first said, that he is so good he sold a color television to a blind man. The second bragged he sold a HI-FI stereo system to a deaf man. The third said he sold a Cuckoo clock to a blonde lady. The other two said, "So what?" And the third salesman added, "Along with the Cuckoo clock, I also sold her one hundred pounds of bird seed!!" ■



Treasurer's Report By Donna Kalinkiewicz

Sixty-three members enjoyed our February, 2011 meeting; unfortunately no guest signed our Guest Sheet.

We deposited \$405 from membership renewals and \$40 of donations. Since so many now receive the newsletter electronically, I will send an email to everyone whose membership is expiring. If you still get a paper copy of the newsletter, check your label; if it has 2010 or earlier, you need to renew.

Every year, Chapter 24 makes a donation to NAWCC and the American Clock and Watch Museum. Each has previously received \$250. We request the donation to the American Clock and Watch Museum be in memory of Ward Francillon, and that the Chapter's name stay on one of Ward's clocks. Our adopted clock is: Timothy Barnes paper dial tall clock. This was in Ward's col-

lection and purchased by the museum in 2004.

Please note that after the new roster was printed, your treasurer's email address has changed. It is now dmktimes2@att.net. Please make this change in your roster or your address book. There will be copies of the roster available at the April meeting. ■

Show & Tell

Rejuvenating Wood Finishes - Jae Martin has had great success using Restor-A-Finish by Howard Products. He finds it easy to use on clock cases and gets great results. The product comes in a large variety of wood finish colors. This product can be purchased at most any hardware store.

Oiling Clocks - Jae Martin boasts that his 10-weight Nano-Oil by StClaire, although expensive, will get a clock to take off where his existing oils won't. Jae highly recommends this oil. Nano-Oil reduces friction by 75% through use of nanometer sized spheres that act as tiny ball bearings that are transported in oil and attach to your movement pivots and brass, providing lubrication long after the oil itself is gone.

Nano-Oil can be used even if existing oil from previous oiling remain. The Nano bearings "migrate" to both the pivots and brass. Nano-Oil will blend with other synthetic and mineral clock oils to improve their quality of lubrication and is now used by Hermle in their movements. Merrit's sells Nano-Oil for \$23 for an 8cc oiler of 10-weight or you can buy it directly at www.Nano-Oil.com for \$16.

Birge & Mallory Mahogany Triple Decker

George Waterhouse showed his triple-decker which has a mahogany panel in the center. George referred to this clock as a modified triple-decker because it has no break in the columns at the center level. This clock is also unique in that it has a wood panel in place of the usual reverse painted glass tablet. This clock was an eBay project clock and was rather a bargain because it was in horrible condition. The previous owner had even broken the clock into pieces to fit in a shipping box. Birge & Mallory operated from 1838 until 1843 and this clock is one of the earlier ones. Rick Mangum reverse painted the glass tablet and Kathi Edwards-Seiwert restored the dial. ■



Collection Disposal Initiative Status

During the February, 2011 General meeting our membership approved of the chapter's form and method for addressing the needs of individuals desiring to dispose of their horological collec-

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Collection Disposal *(Continued from page 3)*

tions. At this time, we will print and prepare to distribute our "NAWCC Atlanta Chapter 24 Collection Disposal" form. The form will list the following businesses and individuals, who have signed up so far, willing to participate in helping dispose of a collection:

Bernie Tekippe - Classic Clocks, 857 Collier Rd., NW Atlanta 30318 - (404) 355-5141 tbrnie@comcast.net

Jim & Renee Coulson - 6522 Hideaway Rd., Ooltewah, TN 37363 - (423) 238-1555 jhcoul@epbfi.com

Braxton's ClockWorld - 303 Main Street, Loganville, GA 30032 - (770) 466-0717

Jae Martin - Clock Gallery, 2820 Peachtree Ind. Blvd., Duluth, GA 30097 - (770) 813-8140 info@clockgalleryinc.com

Warren Brook - 3998 Candler Lake West, Atlanta, GA 30319 - (678) 404-0405 warrenb104@aol.com

We thought it more accurate to change the name to "Collection Disposal" instead of "Estate Disposal" since it could be an existing member who requests our assistance, it does not always have to be a family member seeking assistance after a member dies.

If you would like to be added or removed from the "NAWCC Atlanta Chapter 24 Collection Disposal" form, please contact Tom Noesges. ■

Up-Coming Programs & Presentations

PLEASE bring clocks, watches and other items of horological interest to share with your fellow members. Call Jae Martin (770) 813-8140 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!

April 2011

Electronic Testing - Verifying the accuracy of a clock through the use of electronic testing equipment will be presented by Tom Noesges. Tom will describe the Microset Electronic Timer and how this state-of-the-art electronic clock timing device is used to answer questions such as: How long has the clock run? What is its time keeping accuracy? Does the clock count correctly? What is the correct rate for a clock? How can I save time in adjusting the rate? and Will the strike mainspring run for eight days? ■



Classified Section This area is dedicated to advertising for Chapter 24 members. Of course, it's free

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 or call (404) 633-4772.

🕒 Two matching brass weights 4" long, 1.75" diameter, 3 to 3.25 lbs each for a Gustav Becker Vienna Regulator. Contact Warren Brook at 678-777-3333.

FOR SALE FOR SALE FOR SALE FOR SALE FOR SALE

🕒 Howard figure 8's 6 thru 10 S.T.#11 D.D. wall all real beauties. William Byrd bbyrd1243@bellsouth.net

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 or call (770) 262-0883.



NAWCC Atlanta Chapter 24 Officers and Directors

George Waterhouse	President	ClockDoc35@yahoo.com	(770) 939-5799
Jae Martin	Vice-President	Info@clockgalleryinc.com	(770) 813-8140
Thomas M. Noesges, Jr.	Secretary	Thomas@Noesges.com	(770) 262-0883
Donna Kalinkiewicz	Treasurer	DMKTimes2@Att.net	(770) 321-1057
Christian H. Brown	Past President	Browncg@Bellsouth.net	(770) 962-7480
Brenda Wiggins	Director 2011	Brenda232@Comcast.net	(770) 979-5197
Peter G. Schreiner III	Director 2012	PGS3@Mindspring.com	(404) 633-4772
Robert Collom	Director 2013	RobertCollom@gmail.com	(770) 715-9957



MEMBERSHIP RENEWAL TIME

Is it time to renew your membership in Chapter 24? If your address label says 2010, your membership expired at the end of 2010. It's time to renew. Renewal is easy: just fill out the form below and write a check.

Your Treasurer will take care of the rest.

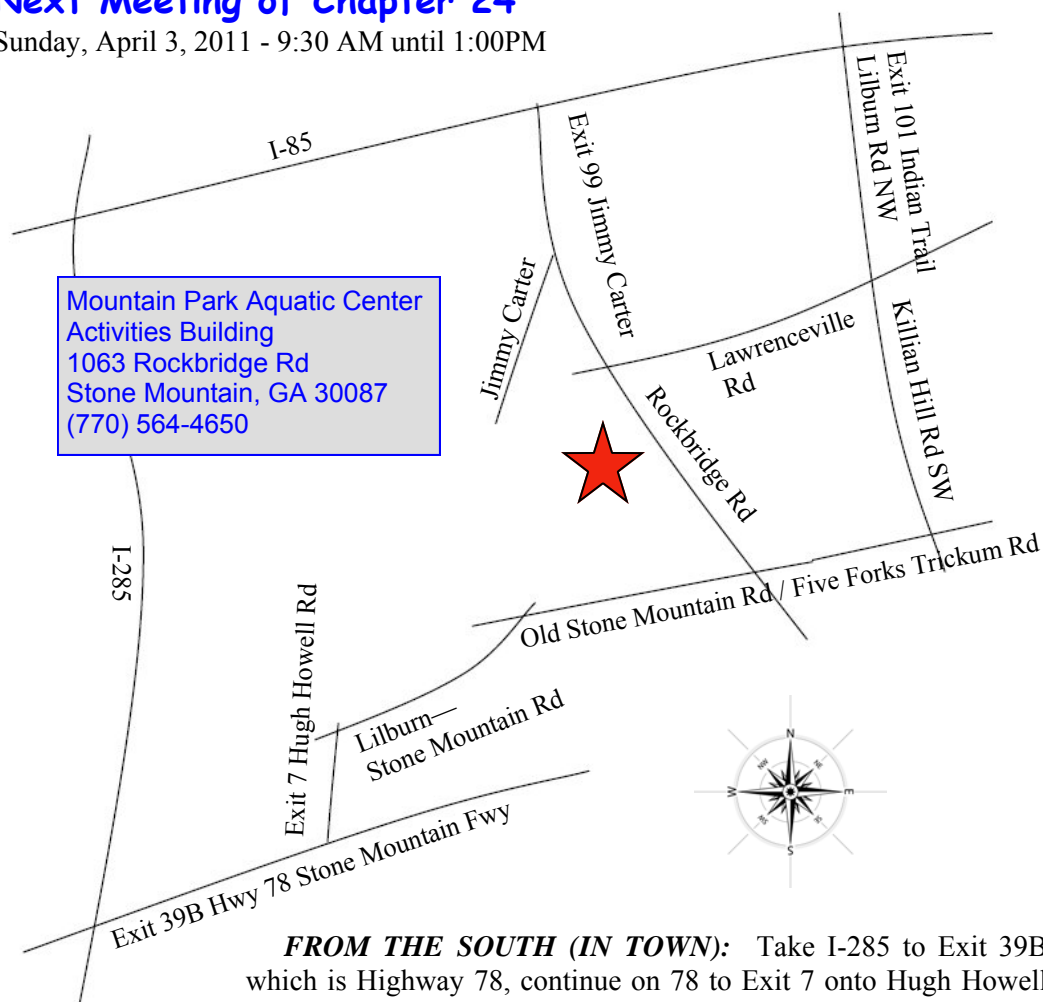
CHAPTER 24 NAWCC MEMBERSHIP APPLICATION/RENEWAL

Name(s) _____ Phone _____
 Address _____
 City _____ State _____ Zip _____
 Email _____ Fax _____
 Special Interests _____

Annual Dues, single or family: \$15 for 1 year or \$25 for 2 years. Please send this form with your check payable to **Chapter 24, NAWCC**, to Donna Kalinkiewicz, Treasurer, 3645 Allpoint Drive, Marietta, GA 30062

Next Meeting of Chapter 24

Sunday, April 3, 2011 - 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...